METHODS AND COMPOSITIONS FOR PROTEIN DETECTION

Cross Reference to Related Applications

[0001] This application claims the benefit of U.S. Application No. 63/275,172, filed on November 3, 2021, and U.S. Application No. 17/518,221, filed on November 3, 2021, the disclosures of which are hereby incorporated by reference in their entireties.

BACKGROUND

[0002] Assessments of binding agents (*e.g.*, phages, polypeptide binders, antibodies, etc.) are central to much of molecular and pharmaceutical biology.

SEQUENCE LISTING

[0003] The present specification makes reference to a Sequence Listing (submitted electronically as an .xlm file named ST26_2013703-0005). The .xml file was generated on October 18, 2022, and is 12,323,567 bytes in size. The entire contents of the Sequence Listing are herein incorporated by reference.

SUMMARY

[0004] The present disclosure provides insights and technologies that achieve improved or otherwise desirable assessment of agents (*e.g.*, binding agents, therapeutic agents, and/or in some embodiments polypeptide agents such as antibody agents).

[0005] Among other things, the present disclosure appreciates that many current technologies for assessing, and in particular for determining presence and/or abundance of, one or more agents of interest, typically rely on mass spectroscopy and/or affinity (*e.g.*, immuno-) detection. The present disclosure appreciates that many available affinity detection technologies are slow and/or costly to perform or implement; many such technologies must be performed one at a time and many are constrained, for example, by availability of fluorogenic substrates (*e.g.*, that may be assessed by relevant technologies – *e.g.*, light microscopy).

[0006] The present disclosure further appreciates that certain other technologies, such as DNA barcoding technologies, that are sometimes utilized to assess agents of interest, can also suffer disadvantages. DNA barcodes, for example, can lack stability and/or display undesirable immunogenicity, *e.g.*, when utilized *in vivo*. The present disclosure appreciates that such technologies therefore can encounter problems, particularly for assessing agents (*e.g.*, protein agents) in complex environments (*e.g.*, *in vivo*)

[0007] Among other things, the present disclosure encompasses the recognition of the source of certain problems with available technologies typically utilized to assess agents of interest, and in particular to assess protein agents and/or binding agents (*i.e.*, agents which participate in one or more binding interactions of interest). In particular, the present disclosure identifies the source of certain problems encountered by such technologies for assessment (*e.g.*, detection and/or measurement of quantity, such as concentration) of multiple agents, and in particular when such agents are present in a complex system (*e.g.*, in a complex solution and/or *in vivo*).

[0008] Furthermore, the present disclosure provides certain technologies that achieve such assessments, in some embodiments with surprisingly high accuracy. Those skilled in the art will appreciate that a number of contexts exist in which detection and/or measurement (*e.g.*, of a precise amount), of a plurality of agents within a complex system is desirable; moreover, those skilled in the art will appreciate the benefit of high accuracy in many such contexts.

[0009] Among other things, the present disclosure provides technologies that achieve detection and/or measurement (*e.g.*, highly accurate and/or otherwise precise measurement) of one or more, and in some embodiments of a plurality, of agents (*e.g.*, protein agents), including in complex systems (*e.g.*, *in vivo*). In some embodiments, detected agent(s) may be or comprise proteins (*i.e.*, polypeptides) and/or forms thereof (*e.g.*, aggregated; complexed; covalently modified such as by disulfide bond formation, glycosylation, pegylation, phosphorylation; truncated such as by proteolytic cleavage, *etc.*).

[0010] In some embodiments, provided technologies are particularly useful or effective for assessment of therapeutic agents. For example, in some embodiments, provided technologies

may be particularly useful for the assessment of one or more features (*e.g.*, properties (*e.g.*, concentration, localization, persistence, affinity, *etc*)) of agent(s) of interest; in some such embodiments, relevant agent(s) may be characterized by one or more attributes appropriate or desirable for therapeutic use. For example, in some embodiments, provided technologies may be used to screen potential therapeutic agents (*e.g.*, polypeptide entities) for one or more features (*e.g.*, properties, attributes) suitable for therapeutic use. In some embodiments, each feature of potential therapeutic agent(s) may be measured one at a time. In some embodiments, two or more features of potential therapeutic agent(s) may be measured simultaneously. For example, in some embodiments, one or more therapeutic agents may be screened for an affinity to a target protein - yet other desirable properties for example molecular stability in a physiologically relevant environment are not yet known. In some embodiments, for example, one or more therapeutic agents may be screened for an affinity to a target protein, along with other desirable properties, for example molecular stability in a physiologically relevant environment.

[0011] The present disclosure appreciates that many current methods of protein measurement rely on determining the abundance of light of a certain wavelength, or overall luminescence, such as western blot or ELISA (Towbin 1979, Engvall 1972). Due to constraints of visible light wavelength, these methods allow for only a small number of different proteins, often fewer than 4, to be measured at a single time within a single reaction (Elshal, 2006). The present disclosure appreciates that many applications, including drug discovery applications, would benefit from (and, in some cases, require) dramatically higher throughput.

[0012] The present disclosure further appreciates that nucleic acid sequencing technologies (*e.g.*, DNA sequencing technologies) have been developed that can analyze billions of individual DNA molecules in a single experiment (Shendure, 2005). Various strategies have been developed to try to apply this massive throughput achievable with nucleic acid sequencing techniques to protein detection and measurement, in particular by tagging proteins with an attached piece of DNA (typically referred to as a "DNA barcode"), which may then be sequenced to indirectly detect the protein (Trads, 2017) or one or more features of the protein.

[0013] The present disclosure appreciates the power of applying high-throughput nucleic acid sequencing technologies to assessment of other agents, and in particular of protein agents, but also identifies the source of certain problems associated with many approaches utilized to

study proteins by attachment of DNA barcodes. For example, the present disclosure appreciates that modification of a protein by attachment of a DNA barcode can often alter its functionality (Trads, 2017), which can defeat the purpose of using the DNA barcode to assess the protein.

[0014] Known techniques to quantify barcoded proteins include those as presented in Egloff et al. (2019), that use mass spectrometry to determine the presence or absence of a protein sequence in a mixture (Egloff 2019). The present disclosure identifies the source of a problem with such approaches, however, and moreover provides certain advantages relative to them, including, for example, by using nucleic acids (*e.g.*, DNA) for amplification of the original signal; approaches such as those described in Egloff et al. fail to include (or to benefit from) such a feature. Furthermore, as may be appreciated by a person of ordinary skill in the art, reading the present disclosure, mass spectrometry only reads out the mass-to-charge ratio of an associated sequence; thus methods using mass spectrometry are limited in their total throughput, since different sequences can have the same mass-to-charge ratio. By comparison, the present invention is not limited by such disadvantages since the nucleic acid sequence associated with one or more binding agents in turn associated with each barcode is sequenced and measured to determine and quantify the barcoded protein.

[0015] Other techniques available in the art use antibodies displayed on phage (Fab-phage) to determine presence of endogenous proteins expressed on cell surfaces (Pollock, 2018). In such methods, one Fab-phage is generated per endogenous protein (i.e. target protein to be assessed) and no barcodes are utilized. In contrast, the present technology envisions the use of engineered barcode sequences that are generalizable, such that they can be used to mark any protein, whether endogenous or exogenous to the context in which it is applied, and subsequently measured using one or more binding agents to which each barcode, and therefore each barcoded protein, is uniquely associated with (i.e. 'barcode fingerprint' as described elsewhere in this disclosure). Such complex association of one or more binding agents with a barcode is then measured and precise quantification of the associated protein is achieved, *e.g.*, using a complex algorithm (i.e. 'decoding' as described elsewhere in this disclosure).

[0016] The present disclosure recognizes the ability of antigens displayed on phages to determine epitopes of antibodies within the blood to which the phages are able to bind (Mohan, 2018). However, this method is not able to determine the sequence of the antibody to which the

antigen binds, and thus only provides limited information on any antibodies that specifically bind to the antigens displayed on phage. However, the present disclosure provides systems, compositions, and methods that provide the advantage of using generic barcodes with known affinities to one or more binders or binding agents, that can be used to tag any target(s) of interest in a complex mixture, including but not limited to blood, to determine and quantify the target(s).

[0017] The present disclosure, among other things, provides technologies that can achieve assessment (*e.g.*, detection and/or quantification) of multiple agents (*e.g.*, multiple protein agents) within a pool of such agents, using DNA sequencing without requiring (direct or indirect) covalent association of the DNA with the assessed agent, or otherwise constraining the assessed agent.

[0018] Described herein are peptide barcodes (also known as "barcodes") and technologies to make and/or utilize them. In some embodiments, barcodes are utilized to mark payloads. Among other things, such an approach can achieve pooled measurement of protein payloads without amending non-protein identifiers. In some embodiments, a peptide barcode is an amino acid polypeptide sequence. In some embodiments, a peptide barcode is contained within a protein (*e.g.*, a protein (*e.g.*, an antibody) to be measured; i.e. is endogenous to a protein to be measured). In some embodiments, a peptide barcode is not contained with a protein (*e.g.*, a protein (*e.g.*, an antibody) to be measured; *e.g.*, is exogenous to a protein to be measured). In some embodiments, a barcode, for example, is sequence (*e.g.*, a designed sequence) contained within a protein (*e.g.*, a protein to be measured). In some embodiments, a barcode is associated (*e.g.*, bound (*e.g.*, covalently)) to the N terminus of a protein (*e.g.*, a protein to be measured). In some embodiments, a barcode is associated (*e.g.*, bound (*e.g.*, covalently)) to the C terminus of a protein (*e.g.*, a protein to be measured). In some embodiments, a barcode is associated (*e.g.*, bound (*e.g.*, covalently)) proximal to the N terminus (*e.g.*, internal to a protein (*e.g.*, a loop region that is proximal to the N terminus)) of a protein (*e.g.*, a protein to be measured). In some embodiments, a barcode is associated (*e.g.*, bound (*e.g.*, covalently)) proximal to the C terminus *e.g.*, internal to a protein (*e.g.*, a loop region that is proximal to the C terminus)) of a protein (*e.g.*, a protein to be measured).

[0019] The methods disclosed herein may use peptide barcodes that are designed to have varying lengths. In some embodiments, a peptide barcode may have a length ranging between 1-100, 5-50, 8-25, 9-25, or 9-15amino acids. In some embodiments, a peptide barcode may have a length of at least 25 amino acids. In some embodiments, a peptide barcode may have a length of at most 8 amino acids. In some embodiments, a peptide barcode may have a length of 10 amino acids.

[0020] Barcode sequences as described herein may be reused, so as to be able to quantify different payloads (*e.g.*, proteins of interest) or mixture of payloads (mixture of proteins of interest to be measured). In some embodiments, a barcode is generated such that it can be easily reused between several different payload (*e.g.*, proteins to be measured) molecules across different experiments.

[0021] Among other things, barcodes described herein are designed to be distinct/unique. In some embodiments, a barcode is designed to have a distinct sequence (*e.g.*, distinct from another barcode). For example, each barcode is designed to be distinct (*e.g.*, unique) from every other barcode used in an experiment, such that each payload (*e.g.*, protein to be measured) is attached to at least one barcode, and each barcode (*e.g.*, barcode with a specific sequence) is only attached to one payload. As may be understood by a person of ordinary skill in the art, the diversity of barcodes contained within a pool is limited only by the possible diversity of amino acid sequences for a given barcode length. For example, for a barcode length 'N', there exists 20^N distinct amino acid barcode sequences of length N.

[0022] Methods described herein relate to the detection of one or more barcodes using a binding agent. In some embodiments, a barcode is contacted with a binding agent that is associated with or comprises a detectable nucleic acid. For example, in some embodiments, a binding agent may be or comprises a phage, a ribosome, mRNA, DNA etc. In some embodiments, a binding agent is a phage with a binding motif on its surface (*e.g.*, a polypeptide binder as described herein). In some embodiments, a binding agent comprises a detectable nucleic acid. In some embodiments, a binding agent expresses a detectable nucleic acid. In some embodiments, a binding agent expresses a detectable nucleic acid on (*e.g.*, on a surface of) the binding agent (*e.g.*, a binder). In some embodiments, a binder is polypeptide. In some embodiments, a binder associates with a barcode (*e.g.*, with known specificity and affinity). In

some embodiments a binder associates with one or more barcodes (*e.g.*, with different known specificities and affinities). In some embodiments, a binder is an antibody (*e.g.*, expressed on a surface of a binding agent). In some embodiments, for example, to detect the presence of a specific (*e.g.*, distinct) barcode, the present disclosure envisions the association of a distinct detectable nucleic acid (*e.g.*, a DNA sequence, an RNA sequence, etc.) to a specific barcode. This is achieved through the contact of a binder, which may be expressed on (*e.g.*, on a surface of) a binding agent that comprises the distinct detectable nucleic acid.

[0023] Described herein are binders. In some embodiments, a binder, is a polypeptide. In some embodiments, for example, a binder is generated to have known specificity and affinity for a given barcode. In some embodiments, a binder is generated to have known specificity and affinity for one barcode. In some embodiments, a binder is generated to have known specificity and affinity for multiple (*e.g.*, two or more, three or more, etc.) barcodes. In some embodiments, a binder is generated to have known specificity and affinity for at least one barcode. In some embodiments, a binder, for example, is expressed on the surface of a binding agent (*e.g.*, a phage, a ribosome, etc.) using methods known to those skilled in the art.

[0024] Among other things, systems and methods described, for example, as described herein, identify the advantages of nucleic acid sequencing techniques and apply them effectively to protein detection and measurement methods. For example, methods described herein may use several binders, with known specificities and affinities to different barcodes, which can be expressed on binding agents and mixed together in a single pool. Upon mixing with a pool of barcoded proteins (i.e. proteins, each associated with a barcode as described herein), a binder expressed on a binding agent binds to any given barcode in the pool with known but varying affinities. Such a spectrum of affinities of a binder to various barcodes is termed herein as a 'Binder Fingerprint'. Conversely, a barcode may bind to any given binder in a pool of binders with known but varying affinities. Such a spectrum of affinities of a barcode to various binders is termed herein as a 'Barcode Fingerprint'. Thus, the presence of specific barcoded proteins can be detected, for example, in a complex solution, by extracting and sequencing the associated nucleic acid (*e.g.*, detectable nucleic acid (*e.g.*, DNA sequence, RNA sequence, etc.)) of the population of binding agents (*e.g.*, phage) that bound to the barcodes associated with the proteins.

[0025] Other methods to use binders to identify protein sequences have been developed. However, these methods encounter a number of challenges, including difficulty in generating and characterizing binders, and effectively decoding their binding to specifically identify proteins. Another limitation with previously developed binders is their non-specific binding that results in bad signal to noise ratios, thereby negatively affecting the accuracy of detection. In contrast, the present technology generates many binders rapidly (*e.g.*, in about a week, about 2 weeks, about 3 weeks, about 4 weeks, about 1 month, about 2 months, about 3 months, about 4 months, about 5 months, about 6 months, or about 1 year). In some embodiments, for example, between about 100 to about 1000 binders may be generated rapidly. In some embodiments, between about 10 to about 1000 binders may be generated rapidly. In some embodiments, between about 10 to about 10,000 binders may be generated rapidly. In some embodiments, at least about 10,000 binders may be generated rapidly.

[0026] Binders as described herein are robust. Binders can bind to barcodes (*e.g.*, with robust affinities to one or more barcodes) as described herein in a variety of conditions and/or environments. For example, binders as described herein can bind to barcodes (*e.g.*, with robust affinities to one or more barcodes) in various complex environments (*e.g.*, in blood, tissue, serum, plasma, etc.). Thus, binders of the present disclosure may be used to detect targets (*e.g.*, proteins of interest) in varying conditions (*e.g.*, physiological conditions).

[0027] Analogously, barcodes, as described herein, may be generated in a rapid and robust manner. In some embodiments, barcodes as described herein are specific to binders as described herein. In some embodiments, for example, between about 100 to about 2000 barcodes may be generated rapidly (*e.g.*, in about a week, about 2 weeks, about 3 weeks, about 4 weeks, about 1 month, about 2 months, about 3 months, about 4 months, about 5 months, about 6 months, or about 1 year). In some embodiments, between about 10 to about 1000 barcodes may be generated rapidly. In some embodiments, between about 10 to about 10,000 barcodes may be generated rapidly. In some embodiments, at least about 10,000 barcodes may be generated rapidly.

[0028] Barcodes as described herein are robust. Barcodes can bind to binders (*e.g.*, with robust affinities to one or more binders) as described herein in a variety of conditions and/or environments. For example, barcodes as described herein can bind to binders (*e.g.*, with robust

affinities to one or more binders) in various complex environments (*e.g.*, in blood, tissue, serum, plasma, etc.). Thus, barcodes of the present disclosure may be used to detect targets (*e.g.*, proteins of interest) in varying conditions (*e.g.*, physiological conditions). The present disclosure, therefore corrects for the disadvantages and defects of existing methods (*e.g.*, non-specific binding, variable binding in different environments, etc.) by generating large numbers of robust binders and barcodes rapidly, which may be used in combination with computational methods (*e.g.*, deconvolution methods) described herein, to allow for specific, well-characterized binder-barcode binding/association and accurate detection methods.

[0029] The present disclosure also envisions an ability to modify sequence(s) of one or more peptide barcode sequences such that they are readily distinguishable from each other, and/or from potential background protein sequence. Analogously, present disclosure also envisions the ability to modify the sequence(s) of one or more polypeptide binder sequences such that they are readily distinguishable from each other, and/or from potential background protein sequence.

[0030] Among other things, the present invention as described herein provides methods of testing 'n' distinct protein candidates where $n \geq 1$, in a single assay or animal model. In some embodiments, a protein candidate is a therapeutic protein candidate. In some embodiments, multiple protein candidates are designed and each distinct protein candidate is associated with its own unique peptide barcode as described herein. Such barcoding has many advantages, including but not limiting to injecting all protein candidates in a single injection in to an assay and/or an animal in a cost and time efficient manner. Subsequently, a sample (*e.g.*, tissue sample, serum sample, blood sample, extracellular sample, single cell sample etc.) from an injected animal may be obtained and barcodes extracted. In some embodiments, such extracted barcodes provide a measure of the relative abundance of protein candidates originally injected. For example, one or more extracted barcodes may be identified by contacting them with a pool of binders (*e.g.*, expressed on a binding agent) known to bind to the barcodes originally bound to the protein candidates. Following binding of barcodes and binders, bound binding agents (*e.g.*, phage) are selected and their detectable nucleic acid (*e.g.*, DNA sequence, RNA sequence, etc.) extracted. In some embodiments, extracted nucleic acids are subjected to sequencing (*e.g.*, next generation sequencing). The sequenced nucleic acid may then be used to identify the one or more barcodes

they were designed to bind to, which along with the previously established information on binding affinities between various binder-barcode pairs may be used to identify and determine the relative abundance of each protein originally injected.

[0031] Also described herein, are methods used to translate nucleic acid counts, for example from a sequencing experiment, to relative or absolute protein quantifications. In some embodiments, nucleic acid sequences are counted and *in silico* translated into protein sequences. As is described herein, a nucleic acid sequence corresponds to a binder sequence, with established and characterized affinity for every barcode given in a pool. In some embodiments, binder counts are compared to a database of known propensities for binding to a single barcode. In some embodiments, binder counts are compared to a database of known propensities for binding to multiple barcodes (*e.g.*, two or more, three or more, etc.). In some embodiments, for example in a sequencing experiment, relative proportions of binder counts are compared directly in order to determine relative proportions of barcodes and/or proteins associated with barcodes. In some embodiments, as may be known to a person of ordinary skill in the art, sequences (*e.g.*, control sequences or accessory sequences) of known abundance (*e.g.*, count, quantification, concentration, etc.) are utilized (*e.g.*, added in to the sequencing experiment) to determine an absolute abundance (*e.g.*, count, quantification, concentration, etc.) for a given binder or binders, which may be used to estimate an absolute abundance (*e.g.*, count, quantification, concentration, etc.) for a barcode or barcodes, and/or protein(s) associated with barcode(s) using either direct counts or a linear model as described herein.

[0032] In some embodiments, payloads are or comprise proteins. In some embodiments, payloads are or comprise therapeutic proteins. In some embodiments, payloads are associated (*e.g.*, linked with) barcodes as described herein.

[0033] Among other things, the present disclosure provides a method of assessing barcodes, binders (*e.g.*, binding agents (*e.g.*, with binders expressed on a surface)), payloads, (*e.g.*, barcoded payload (*e.g.*, barcoded proteins)) as described herein. In some embodiments, a method comprises subjecting a population of barcoded payloads (*e.g.*, barcoded proteins) to an assessment; separating those members of a population that satisfy an assessment from those that do not, so that either a positive population or a negative population, or both is identified; contacting a positive population, or a negative population, or each population separately from the

other, with a set of binders which includes at least one particular binder specific for each barcode in a population; and determining which binders bind to separated members, thereby determining which barcoded payloads (*e.g.*, barcoded proteins) are present in a contacted population(s).

[0034] The present disclosure provides a method comprising contacting a set of binders either with a first population, with a second population, or separately with each of a first and second populations, of barcoded payloads (*e.g.*, barcoded proteins); and determining which binders of a set bind to a member of a first population, a second population, or both, thereby determining which barcoded payloads (*e.g.*, barcoded proteins) are present in contacted population(s). In some embodiments, each binder binds specifically (*e.g.*, with known affinities) to one or more barcodes. In some embodiments, a set of binders, collectively, includes at least one binder specific for each of the barcodes in first and second populations. In some embodiments, a first and second populations have been separated from one another based on performance in an assessment.

[0035] In some embodiments, a method further comprises determining differences between a first and second population, to determine a functional effect of a performance assessment. In some embodiments, a method comprises separating binders that bind to at least one payload (*e.g.*, barcoded payload (*e.g.*, barcoded protein)).

[0036] In some embodiments, a step of determining comprises quantifying a number of binders that bind to a barcoded payload (*e.g.*, barcoded protein). In some embodiments, quantifying may be performed by decoding a nucleotide sequence of each binder that binds to a barcoded payload (*e.g.*, barcoded protein). In some embodiments, quantifying a number of binders that bind to a payload (*e.g.*, barcoded protein) provides measure of a payload (*e.g.*, protein) in a population.

[0037] In some embodiments, a step of determining comprises amplifying nucleic acids of bound phage particles. In some embodiments, a step of determining comprises determining nucleotide sequences of amplified nucleic acids. In some embodiments, one or more of determined nucleotide sequences corresponds to a coding sequence of a binder. In some embodiments, a step of determining comprises detecting one or more payloads (*e.g.*, proteins) from a population of barcoded payloads (*e.g.*, barcoded proteins) using determined sequence(s)

of a coding sequence of a binder. In some embodiments, a step of determining comprises identifying one or more barcoded payloads (*e.g.*, barcoded proteins) as a therapeutic or a target to treat a disease, disorder, or condition.

[0038] In some embodiments, a step of determining comprises performing one or more of amplification, propagation, and sequencing (*e.g.*, nucleic acid (*e.g.*, DNA, RNA) amplification, propagation, and/or sequencing). In some embodiments, amplification may be performed using one or more of Polymerase Chain Reaction (PCR), Loop-mediated Isothermal Amplification (LAMP), Rolling Circle Amplification (RCA), or a similar known technique. In some embodiments, sequencing may be performed using one or more of Illumina, Next Generation Sequencing (NGS), nanopore sequencing, Pac Bio long read sequencing, or a similar known technique.

[0039] In some embodiments, a step of separating comprises purifying one or more barcoded payloads (*e.g.*, barcoded proteins) from a sample. In some embodiments, barcoded payloads (*e.g.*, barcoded proteins) are purified from a complex sample. In some embodiments, barcoded payloads (*e.g.*, barcoded proteins) are purified from a complex mixture. In some embodiments, barcoded payloads (*e.g.*, barcoded proteins) are purified using affinity purification methods (*e.g.*, FLAG IP, protein G/A) or protein precipitation methods.

[0040] In some embodiments, a method further comprises injecting a population of barcoded payloads into an animal. In some embodiments, a method further comprises injecting a population of barcoded payloads (*e.g.*, barcoded proteins) into an animal. In some embodiments, each barcode is bound to a specific binder expressed on a phage. In some embodiments, a method further comprises obtaining a sample from an animal to subject to an assessment.

[0041] In some embodiments, a method as described herein comprises determining relative amounts of each binder present in a sample, thereby identifying a subset of an injected population of barcoded payloads (*e.g.*, barcoded proteins) present in a sample. In some embodiments, a method as described herein comprises comparing relative amounts to a standard of known concentration to determine an absolute quantity of each binder present in a sample.

[0042] In some embodiments, a method as described herein comprises optionally, repeating steps one or more of method steps described herein using an identified subset of payloads (*e.g.*, proteins).

[0043] In some embodiments, a method as described herein comprises identifying one or more payloads (*e.g.*, proteins) as a therapeutic or a target to treat a disease, disorder, or condition.

[0044] In some embodiments, a method as described herein comprises removing any unassociated (*e.g.*, unbound) binders. In some embodiments, removing may be performed by washing.

[0045] In some embodiments, barcoded payloads (*e.g.*, barcoded proteins) are in a sample. In some embodiments, barcoded payloads (*e.g.*, barcoded proteins) are in a complex sample. In some embodiments, barcoded payloads (*e.g.*, barcoded proteins) are in a complex mixture. In some embodiments, barcoded payloads (*e.g.*, barcoded proteins) are in a purified sample.

[0046] In some embodiments, a sample is or comprises one or more of serum, blood, tissue, or a tumor. In some embodiments, a sample is a control (*e.g.*, positive control or negative control).

[0047] In some embodiments, a sample is a complex sample. In some embodiments, a complex sample is or comprises a tissue. In some embodiments, a complex sample is or comprises blood. In some embodiments, a complex sample is a complex mixture. In some embodiments, a complex sample is or comprises one or more of serum, blood, or tissue.

[0048] In some embodiments, a barcode is or comprises one or more amino acids. In some embodiments, a barcode is comprised in a Complementarity-Determining Regions (CDR) of a payload (*e.g.*, a protein). In some embodiments, a barcode is synthetic. In some embodiments, a barcode is 1-100, 5-50, 8-25, 9-25, or 9-15 amino acids in length. In some embodiments, a barcode is 10 amino acids in length. In some embodiments, a barcode has relatively no effect on payload (*e.g.*, a protein) function. In some embodiments, a barcode does not illicit an immune response. In some embodiments, barcodes are orthogonal to each other. In some embodiments, at least one barcode is linked with a polypeptide (*e.g.*, a polypeptide binder, a payload) of interest.

[0049] In some embodiments, a barcode is attached to a payload (*e.g.*, a protein). In some embodiments, a barcode is attached to a suitable position on a payload (*e.g.*, a protein). In some embodiments, a suitable position is a N-terminus or a C-terminus.

[0050] In some embodiments, a binder is or comprises a binding moiety displayed on a phage. In some embodiments, each binder of a set of binders is expressed on a phage. In some embodiments, a binder is expressed on a surface of a phage particle.

[0051] In some embodiments, a phage is selected from a group consisting of M13, T4, T7, Lambda, and filamentous phage. In some embodiments, a phage is M13.

[0052] The present disclosure provides, among other things, a nucleic acid whose nucleotide sequence is or comprises a sequence encoding a peptide barcode. In some embodiments, a peptide barcode has a length within a range of 1 to 100, 5 to 50, 8 to 25, 9 to 25, or 9 to 15 amino acids. In some embodiments, a peptide barcode has a length of 8 to 25 amino acids. In some embodiments, a peptide barcode has a length of 10 amino acids. In some embodiments, a peptide barcode has been determined to bind specifically to a particular group of polypeptide binders within a set of binders.

[0053] In some embodiments, a peptide barcode has an amino acid sequence selected from a group consisting of SEQ ID NOs: 5347-8398. In some embodiments, an encoding sequence is selected from a group consisting of SEQ ID NOs: 1148-4199.

[0054] The present disclosure provides a library comprising a plurality of nucleic acids. In some embodiments, a plurality of nucleic acids together encodes a collection of peptide barcodes. In some embodiments, each nucleic acid comprises, in order from 5' to 3' or 3' to 5', one or more of: a) a first invariant sequence (*e.g.*, a linker sequence or a payload sequence); b) a variant sequence that is at least 9 nucleotides long; and c) a second invariant sequence (*e.g.*, a linker sequence, a stop codon, or a payload sequence).

[0055] In some embodiments, a variant sequence is at least 15, 24, 27, 45, 150, or 300, nucleotides long.

[0056] In some embodiments, a library further comprises one or more of: d) sequence contains short helical motif; e) sequence contains a disordered motif; f) an invariant sequence which links sequence to protein of interest.

[0057] In some embodiments, each peptide barcode of a collection binds specifically to a particular group of polypeptide binders within a set of binders. In some embodiments, each peptide barcode of a collection binds specifically to one or more polypeptide binders within a set of binders.

[0058] The present disclosure provides a nucleic acid whose nucleotide sequence is or comprises a sequence encoding a polypeptide binder moiety. In some embodiments, a polypeptide binder moiety has a length within a range of 10 to 400 amino acids. In some embodiments, a polypeptide binder moiety has been determined to bind specifically to a particular group of peptide barcodes within a collection of barcodes.

[0059] In some embodiments, a polypeptide binder moiety has an amino acid sequence selected from a group consisting of SEQ ID NOs: 4200- 5346. In some embodiments, an encoding sequence is selected from a group consisting of SEQ ID NOs: 1-1147.

[0060] The present disclosure provides a library comprising a plurality of nucleic acids. In some embodiments, a plurality together encodes a set of polypeptide binder moieties. In some embodiments, each nucleic acid comprises, in order from 5' to 3' or 3' to 5': a) a first invariant sequence (*e.g.*, an antibody germline sequence (*e.g.*, IGHV/IGKV)); b) a first variant sequence that is at least 10 nucleotides long (*e.g.*, a CDR (*e.g.*, CDR3) sequence); and c) a second invariant sequence (*e.g.*, an antibody germline sequence (*e.g.*, IDHJ/IGKJ)).

[0061] In some embodiments, each nucleic acid further comprises one or more of: d) a stop codon (*e.g.*, after a second invariant sequence); e) a linker sequence; f) a third invariant sequence (*e.g.*, an antibody germline sequence (*e.g.*, IGHV/IGKV)); g) a second variant sequence that is at least 10 nucleotides long (*e.g.*, a CDR (*e.g.*, CDR3) sequence); and h) a fourth invariant sequence (*e.g.*, an antibody germline sequence (*e.g.*, IDHJ/IGKJ)).

[0062] The present disclosure provides, among other things, a library of phage particles, each phage particle comprising one or more nucleic acids as described herein.

[0063] In some embodiments, a phage is selected from a group consisting of M13, T4, T7, Lambda, and filamentous phage. In some embodiments, a phage is M13.

[0064] The present disclosure provides a set of barcode and binders. In some embodiments, each barcode is a peptide between 1 to 100, 5 to 50, 8 to 25, 9 to 25, or 9 to 15 amino acids in length that binds specifically to a particular group of binders among binders in a set. In some embodiments, each binder is a polypeptide that binds specifically to at least one barcode among barcodes in a set.

[0065] In some embodiments, specific binding is observed when binders are expressed on phage that are contacted with barcodes. In some embodiments, each binder is expressed on a phage.

[0066] The present disclosure provides a kit comprising a set of binders, each of which is a polypeptide that binds specifically to at least a particular peptide barcode in a collection barcodes. In some embodiments, each binder is provided as a polypeptide, a nucleic acid encoding a polypeptide, or both. In some embodiments, one or more of binders is provided as a phage particle, or collection thereof, engineered to express a binder. In some embodiments, one or more of binders is provided as a nucleic acid in a phagemid vector, or as an insert suitable for cloning into a phage vector.

[0067] In some embodiments, a kit further comprises information designating peptide barcodes for each binder. In some embodiments, each binder has been determined to bind specifically to at least a particular peptide barcode within a collection of barcodes that each bind specifically to at least one binder in a set.

[0068] In some embodiments, a kit further comprises a set of instructions to perform sequencing of one or more phage particles bound to one or more barcodes. In some embodiments, a kit further comprises a computer readable program for decoding sequencing data. In some embodiments, a kit further comprises reagents to express a binder on a phage particle.

[0069] In some embodiments, a kit comprises nucleic acids that encode one or more barcodes. In some embodiments, a kit comprises nucleic acids that encode one or more binders.

[0070] The present disclosure provides a method of pharmacokinetic screening. In some embodiments, a method comprises injecting a set of barcoded therapeutic candidate proteins into an animal. In some embodiments, each barcoded therapeutic candidate protein comprises a specific peptide barcode. In some embodiments, a method comprises obtaining a sample from an animal; purifying one or more barcoded therapeutic candidate proteins from a sample; contacting a sample with a set of binders (*e.g.*, binding agents with binders expressed on them) which includes at least one particular binder specific for each barcode in a sample; and determining relative amounts of each binder present in a sample to determine each barcoded therapeutic candidate proteins' pharmacokinetic properties or biodistribution.

[0071] In some embodiments, purified proteins may be a subset of barcoded therapeutic candidate proteins which are injected into an animal.

[0072] In some embodiments, multiple samples may be obtained from an animal.

[0073] In some embodiments, an animal is a mammal. In some embodiments, an animal is a human. In some embodiments, an animal is genetically modified to express barcoded payloads (*e.g.*, barcoded proteins).

[0074] In some embodiments, an animal is a model for a disease, disorder, or condition. In some embodiments, a disease, disorder, or condition is cancer, autoimmune, neurodegenerative, or a pathogenic (*e.g.*, viral/bacterial) disease, disorder, or condition.

[0075] In some embodiments, a step of determining comprises (i) sequencing nucleic acid from binding agents expressing a binder; (ii) decoding relative amounts of each barcode present thereby determining relative amounts of each therapeutic candidate protein; and/or (iii) performing one or more of FACS, or MACS (magnetic activated cell sorting), affinity based purification.

[0076] In some embodiments, a step of determining comprises quantifying number of binders that bind to a barcoded payload (*e.g.*, barcoded protein (*e.g.*, barcoded therapeutic protein)). In some embodiments, quantifying is performed by decoding a nucleotide sequence of each binder that binds to a barcoded payload (*e.g.*, barcoded protein).

[0077] In some embodiments, a number of nucleotide sequences provides a measure of

payload (*e.g.*, target protein) in a population of barcoded payloads (*e.g.*, barcoded proteins).

[0078] In some embodiments, a step of injecting comprises administering barcoded payloads (*e.g.*, barcoded proteins, barcoded therapeutic candidate proteins, etc.) orally or intravenously. In some embodiments, barcoded payloads (*e.g.*, barcoded proteins) are injected (*e.g.*, delivered) by viral delivery or mRNA delivery.

[0079] The present disclosure provides a method of characterizing a collection of peptide barcodes comprising: providing: (i) a library of phage particles, wherein each phage particle is designed to express a polypeptide binder, and wherein each binder binds to one or more peptide barcodes; (ii) a collection of peptide barcodes; contacting each phage particle with each barcode to form bound phage-barcode particles; determining an amount of binding between each phage particle and barcode; and identifying phage-barcode pairs that bind specifically to each other among barcodes in a collection and phages in a library.

[0080] The present disclosure provides a method of characterizing a collection of peptide barcodes comprising: providing: (i) a set of binders, wherein each binder is a polypeptide that binds to one or more peptide barcodes; (ii) a collection of peptide barcodes; contacting each binder with each barcode to form bound binder-barcode particles; determining a relative amount of binding between each polypeptide binder and peptide barcode; and identifying binder-barcode pairs that bind specifically to each other among barcodes in a collection and binders in a set.

[0081] The present disclosure provides a database of amino acid or encoding nucleic acid sequences for a collection of peptide barcodes, which database is embodied in a computer readable format. In some embodiments, each barcode sequence has a length within a range of 1 to 100, 5 to 50, 8 to 25, 9 to 25, or 9 to 15 amino acids. In some embodiments, each barcode sequence has been determined to bind specifically to one or more polypeptide binders within a set of binders that each bind specifically to one or more of barcodes in a collection.

[0082] In some embodiments, a binding pattern of one or more polypeptide binders to a barcode is used to identify a peptide barcode.

[0083] The present disclosure provides a database of amino acid or encoding nucleic acid sequences for a set of polypeptide binders. In some embodiments, a database is embodied in a computer readable format. In some embodiments, each binder sequence has a length within a

range of 10 to 400 amino acids. In some embodiments, each binder sequence has been determined to bind specifically to one or more peptide barcodes within a collection of barcodes that each bind specifically to one or more of binders in a set.

[0084] The present disclosure provides, among other things, a database of amino acid or encoding nucleic acid sequences for a set of barcode-binder associations, embodied in a computer readable format. In some embodiments, each barcode is a peptide between 1 to 100, 5 to 50, 8 to 25, 9 to 25, or 9 to 15 amino acids in length. In some embodiments, each binder is a polypeptide that binds specifically to one or more barcodes among barcodes in a set.

[0085] The present disclosure provides a set of barcode-binder association designations, embodied in a computer readable format. In some embodiments, each barcode is a peptide between 1 to 100, 5 to 50, 8 to 25, 9 to 25, or 9 to 15 amino acids in length. In some embodiments, each binder is a polypeptide that binds specifically to one or more barcodes among barcodes in a set.

[0086] In some embodiments, specific binding is observed when binders are expressed on a phage particle that are then contacted with barcodes.

[0087] The present disclosure provides a method of treatment using technologies described herein. In some embodiments, a method comprises administering a therapeutic protein that has been determined to satisfy an assessment. In some embodiments, satisfying an assessment may be by a process comprising steps of: a) subjecting a population of barcoded proteins to an assessment; b) separating those members of a population that satisfy an assessment from those that do not, so that either a positive population or a negative population, or both is identified; c) contacting a positive population, or a negative population, or each population separately from the other, with a set of binders which includes at least one particular binder specific for each barcode in a population; d) determining which binders bind to separated members, thereby determining which barcoded proteins are present in a contacted population(s); and e) identifying a therapeutic protein from barcoded proteins determined to be present in a contacted population(s).

[0088] The present disclosure provides a method of treatment comprising administering a therapeutic protein that has been determined to satisfy an assessment by a process comprising

steps of: a) contacting a set of binders either with a first population, with a second population, or separately with each of a first and second populations, of barcoded proteins; b) determining which binders of a set bind to a member of a first population, a second population, or both, thereby determining which barcoded proteins are present in a contacted population(s); and c) identifying a therapeutic protein from barcoded proteins determined to be present in a contacted population(s). In some embodiments, each binder binds specifically to one or more barcode relative to other barcodes. In some embodiments, a set of binders, collectively, includes a binder specific for each barcode in a first and second populations. In some embodiments, a first and second populations have been separated from one another based on performance in an assessment.

[0089] These, and other aspects encompassed by the present disclosure, are described in more detail below and in the claims.

BRIEF DESCRIPTION OF THE DRAWING

[0090] **FIG. 1A** is a schematic of barcoded payload as described herein, according to an illustrative embodiment. It illustrates a barcoded payload and the corresponding DNA encoding a barcoded payload. LN refers to "linker N terminus" and LC refers to "linker C terminus". In some embodiments, LN and LC sequences are constant and encode amino acids that connect the payload to the barcode. In some embodiments, LN and LC sequences are constant and are nucleic acid sequences used for modular cloning of barcodes with different payloads. In some embodiments, LN and LC sequences are flanked by Type IIS restriction site sequences.

[0091] **FIG. 1B** is a schematic of barcoded payload as described herein, according to an illustrative embodiment. It illustrates a nucleic acid sequence encoding a barcode and/or a barcoded payload. LN refers to "linker N terminus" and LC refers to "linker C terminus". In some embodiments, LN and LC sequences are constant and encode amino acids that connect the payload to the barcode. In some embodiments, LN and LC sequences are constant and are nucleic acid sequences used for modular cloning of barcodes with different payloads. In some embodiments, LN and LC sequences are flanked by Type IIS restriction site sequences.

[0092] **FIG. 2** is a schematic of a method to detect and/or quantify and/or characterize payloads (*e.g.*, proteins) in a pool using barcodes and binding agents as described herein, according to an illustrative embodiment. A library of barcoded payload proteins is contacted with a library of binding agents containing identifying DNA. A wash step is applied that removes binding agents that do not associate (*e.g.*, link (*e.g.*, form strong linkages)) to any of the barcoded payload proteins, while leaving only binding agents that associate with barcodes. Following the wash, a process of DNA sequencing is applied to associated binding agents. In some embodiments, sequencing may be performed using next-generation sequencing (NGS) (*e.g.*, as operated by an Illumina sequencer). The relative abundances of DNA sequences are reported as a computer file (*e.g.*, .fastq data). A computer algorithm is applied on the .fastq data combined with prior biophysical characterization of the binding agents to infer the abundance of each of barcoded payload proteins in a pool.

[0093] **FIG. 3A** is a schematic for capturing a barcode as described herein, so that it may be contacted by a binding agent as described herein, according to an illustrative embodiment. It illustrates a capture scaffold that may have a barcode associated with it (*e.g.*, immobilized on its surface), and a binding agent (*e.g.*, phage with binder expressed on its surface (*e.g.*, with binder DNA in phage)) is contacted to characterize biophysical interaction. In some embodiments, the biophysical characterization is a measure of dissociation constant (Kd) between the binding agent and the protein barcode.

[0094] **FIG. 3B** is a schematic for capturing a barcode as described herein, so that it may be contacted by a binding agent as described herein, according to an illustrative embodiment. It is a schematic of a barcode-binder platform as described herein, according to an illustrative embodiment. The schematic shows a magnetic bead with a bead binding domain conjugated to a universally tagged (*e.g.*, HALO, Chitin BD, Avitag (Strep), etc.) barcoded payload. To detect the captured barcoded payload, a binding agent (*e.g.*, phage expressing a binder on its surface (*e.g.*, phage with binder DNA/lib)) with known affinity to the barcode is bound to the immobilized payload. The DNA within the phage that encodes for the binder is then amplified and subjected to NGS to detect the payload.

[0095] **FIG. 3C** is a schematic for capturing a barcode as described herein, so that it may be contacted by a binding agent as described herein, according to an illustrative embodiment. It

is a schematic of a barcode-binder platform as described herein, according to an illustrative embodiment. The schematic shows a magnetic bead with an Fc / Protein A conjugated barcoded payload. To detect the captured barcoded payload, a binding agent (*e.g.*, phage expressing a binder on its surface (*e.g.*, phage with binder DNA/lib) with known affinity to the barcode is bound to the immobilized payload. The DNA within the phage that encodes for the binder is then amplified and subjected to NGS to detect the payload.

[0096] **FIG. 4** is a schematic of a method to learn the barcode fingerprint of a given barcode as described herein, according to an illustrative embodiment. A peptide barcode displayed on a capture scaffold is contacted with a library of binding agents containing identifying DNA. A wash step is applied that removes binding agents that do not associate (*e.g.*, link (*e.g.*, form strong linkages)) with any of the barcodes, while leaving only binding agents that do associate with barcodes. After the wash, a process of DNA sequencing is applied to associated binding agents. In some embodiments, sequencing may be performed using next-generation sequencing (NGS) (*e.g.*, as operated by an Illumina sequencer). The relative abundances of DNA sequences are reported as a computer file (*e.g.*, in .fastq format). A computer algorithm is applied on the .fastq data to computer a barcode fingerprint. This is a vector of the relative counts of the members of the binding agent library. The method of learning a barcode fingerprint can be repeated for any barcode to identify a unique fingerprint. In some embodiments, steps 1 – 4 of FIG. 4 may be repeated, each time starting with a focused binding agent library in order to improve the fingerprint, for a barcode with an existing fingerprint or a new barcode. In some embodiments, the focused binding agent library is made by oligonucleotide library synthesis.

[0097] **FIG. 5** is a schematic of a method to use a fingerprint matrix of a set of barcodes to determine the relative abundance of a mixture of barcodes, according to an illustrative embodiment. A set of barcodes for which individual fingerprints have been determined are combined together in a known ratio and displayed (*e.g.*, on a scaffold) for subsequent contact with a binding agent library. A binding agent library is contacted with the set of barcodes and non-specific binding agents are washed away. The specific binding agents are quantified by NGS and reported as a mixed measurement computer file (*e.g.*, in .fastq format). This data is provided to a computer algorithm that uses the mixed measurement to learn the relative scalings of

readouts relative to the original fingerprints, and assembles the scaled fingerprints together into a scaled matrix. This scaled fingerprint matrix can then be used in further applications of quantifying relative abundance of barcoded payloads using these barcodes in which the computer algorithm is applied to the NGS reads from contacting a sample with a binding agent library.

[0098] **FIGS. 6A-6C** show results of quantifying a complex mixture of barcodes. Up to 6 barcodes were pooled and then measured using the decoding method described herein. **FIG. 6A** shows the actual relative proportion of a given barcode (left panel) and the measured relative proportion of a given barcode (right panel). Rows are individual experimental conditions, columns are barcodes, color is measurements (100% barcode = white, 0% barcode = black). **FIG. 6B** shows a plot of measured concentration of barcodes against actual concentration of barcodes for all experiments compared across all barcodes. Across all experiments and mixtures, a pearson of 0.95 between measured and actual proportions was calculated. **FIG. 6C** shows a plot of NGS count values, normalized to counts per million, for each single barcode measurement as well as mixture that were used to predict the relative abundance of each barcode within the mixture. Rows are experiments, thus all values in a row are generated from a single .fastq file and columns are binding agents. **FIG. 6C** discloses SEQ ID NOS. 8400-8413, respectively, in order of appearance.

[0099] **FIGS. 7A-7B** show a schematic of a method and data obtained using the decoding method on payload proteins with barcodes contained within internal regions of the protein sequences (i.e. endogenous barcodes). The schematic shows results from a synthetic pooled barcode measurement assay. **FIG. 7A** shows two barcoded payloads (BC1 and BC2) were combined together at various known concentrations in different wells of a 96-well plate. Each mixture was subjected to contact with the same pool of binding agents and decoded as described herein. Each mixture was quantified and then compared to the known values of the barcoded payloads. **FIG. 7B** shows relative actual proportions (X axis) of each barcode correlate to relative measured proportions (Y axis) with a pearson of .96

[0100] **FIGS. 8A-8C** show a schematic of a method to detect protein payloads in serum using the barcode-binder platform as described herein, according to an illustrative embodiment. The payload proteins have barcodes contained within internal regions of the protein sequences (i.e. endogenous barcodes). **FIG. 8A** shows the barcoded therapeutic antibody agents of interest

(barcoded-mAbs) were mixed at known concentrations and then added to serum. The barcoded payloads were then purified, contacted with binding agents, and subjected to decoding. **FIG. 8B** shows the relative actual barcoded antibody proportion (left) and the relative measured antibody proportion (right) for 3 experimental conditions, with 3 replicates each. Rows correspond to experimental condition, columns to barcodes, and color of heat-map cell is a measure of the proportion of barcoded antibody present. **FIG. 8C** shows a scatterplot of all the data across all experimental conditions for all barcodes with a Spearman correlation of .926 across all experimental measurements.

[0101] **FIG. 9A** shows schematic of description of experiment provided in Examples 1, 2, and 8. Six unique barcodes (BC1, BC2, BC3, BC4, BC5, and BC6) were mixed at known proportions, contacted with binding agents, and subjected to decoding as described herein. Two barcodes were experimentally held out as negative controls, but prediction for these barcodes was allowed, thus allowing determination of background prediction.

[0102] **FIG. 9B** and **FIG. 9C** show data on accuracy of decoding procedure across a 10-fold range of concentrations for the 6 unique barcodes. **FIG. 9B** shows plot of actual data (input) and measured data obtained after decoding for one mixture of known barcode concentrations. Input known concentrations (left bar) are shown next to predictions/measured data (right bar) for each barcode across 3 replicates. **FIG. 9C** shows plots of actual data (input) and measured data obtained after decoding for five different mixtures (i.e. pools 1-5) of known barcode concentrations. Input known concentrations (left bar) are shown next to predictions/measured data (right bar) for each barcode across 3 replicates.

[0103] **FIGS. 10A-10C** show a method and data for determining the absolute concentration of a single test barcode as described herein. **FIG. 10A**shows a schematic of an experiment. A single test barcode was assayed at several concentrations, while a "spike-in" barcode (i.e. a reference barcode) was added to each assay mixture at a known concentration. The various concentrations of the test barcode were contacted with binding agents and decoding was performed as described herein. The prediction of the "spike-in" barcode was used to determine the absolute amount of the test barcode being measured. **FIG. 10B** shows a plot of the measured absolute quantities of the test barcode (right bar) compared to known input concentrations of the test barcode (left bar) for each titration of the test barcode. The Y-axis is

the logarithm of the test barcode concentration in nanograms per milliliter (ng/mL). **FIG. 10C** shows the results of determination of absolute concentration for 6 different barcodes. Plots show known input concentrations (left bar) and measured concentration (right bar) for six (6) different barcodes.

[0104] **FIG. 11** shows a method for determining the relative abundance of two proteins after injection *in vivo*, using the binder-barcode system described herein according to an illustrative embodiment. The figure shows a graphical depiction of experimental setup. In group 1 (top), mice were injected with 1 barcoded payload. In group 2 (middle), 2 barcoded payloads were injected. In group 3 (bottom), no barcoded payloads were injected. For each of the three groups, at 24 hours, a serum sample was taken; the barcoded payload(s) captured using binding agents as described herein, and subjected to decoding. The measured barcoded payload concentrations (right bar) compared to known input concentrations (left bar) for each group are shown.

[0105] **FIGS. 12A-12E** show determination of twenty-four (24) barcodes contained within a single mixture. **FIG. 12A** shows a graphical depiction of the experiment. Of 24 total barcodes the algorithm can predict, 10 were present within a mixture at equal concentrations. The rest were held out from the pool, but prediction was computationally allowed. Three (3) separate pools, which cover all possible barcodes were measured in replicate. **FIG. 12B** shows prediction for the first pool. Input concentration (left bar) and measured concentration (right bar) are displayed. **FIG. 12C** shows predictions across all three pools. As in B, input concentration is left bar and measured is right bar. **FIG. 12D** shows the barcode fingerprint for the 24 barcodes used to computationally determine the relative abundance of the barcodes within the 3 pools. Columns represent barcode fingerprints, and rows represent binding agent fingerprints. **FIG. 12D** discloses SEQ ID NOS. 8414, 8415, 8414, 8416, 8414, 8413, 8414, 8417, 8414, 8418, 8414, 8419, 8414, 8420-8425, 8422, 8426, 8427, 8426, 8428-8431, 8430, 8432, 8433, 8432, 8434, 8432, 8435, 8432, 8430, 8432, 8436-8453, 8413, 8453, 8454, 8453, 8455-8475, 8474, 8476-8480, 8479, 8481-8484, 8483, 8484-8493, 8472, 8494, 8472, 8495, 8472, 8496, 8472, 8497, 8472, 8498-8502, 8501, 8503-8505, 8504, 8506, 8504, 8507, 8504, 8508-8516, 8515, 8517, 8518, 8417, 8519, 8520, 8519, 8521-8532, 8403, 8533-8542, 8541, 8543-8545, 8544, 8546, 8544, 8547, 8544, 8548-8552, 8551, 8553, 8551, 8554-8562, respectively, in order of

appearance. **FIG. 12E** shows the binding agent counts from the three pools, used to computationally determine the proportion of the pools. Rows are the binding agent counts, columns are the pools, the cell is the binding agent count within a specific pool. **FIG. 12E** discloses SEQ ID NOS. 8414, 8415, 8414, 8416, 8414, 8413, 8414, 8417, 8414, 8418, 8414, 8419, 8414, 8420-8425, 8422, 8426, 8427, 8426, 8428-8431, 8430, 8432, 8433, 8432, 8434, 8432, 8435, 8432, 8430, 8432, 8436-8453, 8413, 8453, 8454, 8453, 8455-8475, 8474, 8476-8480, 8479, 8481-8484, 8483, 8484-8493, 8472, 8494, 8472, 8495, 8472, 8496, 8472, 8497, 8472, 8498-8502, 8501, 8503-8505, 8504, 8506, 8504, 8507, 8504, 8508-8516, 8515, 8517, 8518, 8417, 8519, 8520, 8519, 8521-8532, 8403, 8533-8542, 8541, 8543-8545, 8544, 8546, 8544, 8547, 8544, 8548-8552, 8551, 8553, 8551, 8554-8562, respectively, in order of appearance.

[0106] **FIG. 13A** is a schematic of a method to detect and/or quantify and/or characterize fourteen (14) exemplary payloads (*e.g.*, proteins) in a pool using a binder-barcode platform as described herein. A library of barcoded payload proteins was contacted with a library of binding agents containing identifying DNA ("binder-barcode particles"). Binder-barcode particles were injected as a pooled library into wild-type (wt) BALB/c mice (n=3 per timepoint) *in vivo*. Blood was collected from individual mice at timepoints 30 min, 6 hours, 24 hours, and 48 hours, (n=3 per timepoint), and serum was extracted. Binder-barcode particles were captured and subjected to a decoding procedure as described herein.

[0107] **FIG. 13B** depicts plots showing clearance of fourteen (14) exemplary binder-barcode particles injected into wild-type (wt) BALB/c mice (n=3 per timepoint) *in vivo*. Data was collected at time points 30 min, 6 hours, 24 hours, and 48 hours as measured by a decoding procedure described herein. Y-axis is normalized to 100% of injection volume for each exemplary binder-barcode particle. Plots shown in **FIG. 13B** were measured simultaneously. Each plot contains exemplary binder-barcode particles that were characterized as having certain measurable phenotypes. The left plot shows clearance (% injection) of clinical controls with known properties. The middle plot shows clearance (% injection) of exemplary binder-barcode particles that were characterized has having slow clearance properties. The right plot shows clearance (% injection) of exemplary binder-barcode particles that were characterized as having fast clearance properties.

[0108] **FIG. 14A** is a schematic of a method to detect and/or quantify and/or characterize thirty-six (36) payloads (*e.g.*, proteins) in a pool using a binder-barcode platform as described herein. A library of barcoded payload proteins was contacted with a library of binding agents containing identifying DNA ("binder-barcode particles"). Binder-barcode particles were injected as a pooled library into tumor bearing NSG mice, which had been previously implanted with two tumor cell lines ("Tumor 1", "Tumor 2"), (n=2-4 per timepoint) *in vivo*. Blood and tumor tissue was collected from individual mice at timepoints 30 min, 6 hours, 24 hours, and 48 hours, (n=3 per timepoint). Tissue was lysed using standard lysis buffer, and serum was separated from blood. Binder-barcode particles were captured and subjected to a decoding procedure as described herein.

[0109] **FIG. 14B** is a heat-map of data collected from thirty-six exemplary binder-barcode particles using a decoding procedure described herein. Rows identify each exemplary binder-barcode particle tested in the present example. Columns indicate data for a mouse across each time point for serum, Tumor 1, or Tumor 2. Color intensity indicates relative units of drug as measured via a decoding procedure described herein. Color intensity indicates a normalized readout of relative concentration as measured via next generation sequencing (NGS).

[0110] **FIG. 14C** depicts plots of binder-barcode particles described by **FIG. 14B** using a decoding procedure described herein. A diversity of properties was simultaneously measured. For example, binder-barcode particle P14_A5 was rapidly cleared from serum, with minimal accumulation in Tumor 1 or Tumor 2, while binder-barcode particle P17_A10 was more slowly cleared and maintained in tumor 1 over time.

[0111] **FIGS. 15A-15C** depict plots showing ELISA quantitation of two groups of payloads (Group 1: protein payload with no barcode; Group 2: a pool of eight (8) binder-barcode particles where each particle includes the same protein payload used in Group 1, and each particle is barcoded with a different barcode) (**FIG. 15A**), quantification of Group 2 using a decoding procedure described herein (**FIG. 15B**), and a comparison of half-life measurements for Group 1 and Group 2 quantified using ELISA and a decoding procedure described herein, respectively (**FIG. 15C**).

[0112] **FIG. 16A** is a schematic of a method to detect and/or quantify and/or characterize thirty-five (35) payloads (*e.g.*, proteins) in distinct pools with different number of barcoded payloads at different concentrations using a binder-barcode platform as described herein.

[0113] **FIG. 16B** depicts a plot showing measured barcode level (arbitrary units) versus expected barcoded-payload level (ng) generated by arraying ninety-six (96) distinct mixtures comprising 10-35 barcoded proteins with each barcoded protein at a known concentration between 1 pg and 1 µg. Each data point in FIG. 16B represents a comparison between a known concentration of a binder-barcode particle from one of the ninety-six (96) distinct mixtures and a concentration determined by a decoding procedure described herein.

DEFINITIONS

[0114] ***About:*** The term "about", when used herein in reference to a value, refers to a value that is similar, in context to the referenced value. In general, those skilled in the art, familiar with the context, will appreciate the relevant degree of variance encompassed by "about" in that context. For example, in some embodiments, the term "about" may encompass a range of values that within 25%, 20%, 19%, 18%, 17%, 16%, 15%, 14%, 13%, 12%, 11%, 10%, 9%, 8%, 7%, 6%, 5%, 4%, 3%, 2%, 1%, or less of the referred value.

[0115] ***Affinity:*** As is known in the art, "affinity" is a measure of the tightness with which two or more binding partners associate with one another. Those skilled in the art are aware of a variety of assays that can be used to assess affinity, and will furthermore be aware of appropriate controls for such assays. In some embodiments, affinity is assessed in a quantitative assay. In some embodiments, affinity is assessed over a plurality of concentrations (*e.g.*, of binding partner at a time). In some embodiments, affinity is assessed in the presence of one or more potential competitor entities (*e.g.*, that might be present in a relevant – *e.g.*, physiological – setting). In some embodiments, affinity is assessed relative to a reference (*e.g.*, that has a known affinity above a particular threshold [a "positive control" reference] or that has a known affinity below a particular threshold [a "negative control" reference"]. In some embodiments, affinity may be assessed relative to a contemporaneous reference; in some embodiments, affinity may be

assessed relative to a historical reference. Typically, when affinity is assessed relative to a reference, it is assessed under comparable conditions.

[0116] ***Agent*** : In general, the term "agent", as used herein, is used to refer to an entity (*e.g.*, for example, a lipid, metal, nucleic acid, polypeptide, polysaccharide, small molecule, etc, or complex, combination, mixture or system [*e.g.*, cell, tissue, organism] thereof), or phenomenon (*e.g.*, heat, electric current or field, magnetic force or field, etc.). In appropriate circumstances, as will be clear from context to those skilled in the art, the term may be utilized to refer to an entity that is or comprises a cell or organism, or a fraction, extract, or component thereof. Alternatively or additionally, as context will make clear, the term may be used to refer to a natural product in that it is found in and/or is obtained from nature. In some instances, again as will be clear from context, the term may be used to refer to one or more entities that is man-made in that it is designed, engineered, and/or produced through action of the hand of man and/or is not found in nature. In some embodiments, an agent may be utilized in isolated or pure form; in some embodiments, an agent may be utilized in crude form. In some embodiments, potential agents may be provided as collections or libraries, for example that may be screened to identify or characterize active agents within them. In some cases, the term "agent" may refer to a compound or entity that is or comprises a polymer; in some cases, the term may refer to a compound or entity that comprises one or more polymeric moieties. In some embodiments, the term "agent" may refer to a compound or entity that is not a polymer and/or is substantially free of any polymer and/or of one or more particular polymeric moieties. In some embodiments, the term may refer to a compound or entity that lacks or is substantially free of any polymeric moiety.

[0117] ***Amino acid:*** in its broadest sense, as used herein, refers to any compound and/or substance that can be incorporated into a polypeptide chain, *e.g.*, through formation of one or more peptide bonds. In some embodiments, an amino acid has the general structure H_2N–C(H)(R)–COOH. In some embodiments, an amino acid is a naturally-occurring amino acid. In some embodiments, an amino acid is a non-natural amino acid; in some embodiments, an amino acid is a D-amino acid; in some embodiments, an amino acid is an L-amino acid. "Standard amino acid" refers to any of the twenty standard L-amino acids commonly found in naturally occurring peptides. "Nonstandard amino acid" refers to any amino acid, other than the standard

amino acids, regardless of whether it is prepared synthetically or obtained from a natural source. In some embodiments, an amino acid, including a carboxy- and/or amino-terminal amino acid in a polypeptide, can contain a structural modification as compared with the general structure above. For example, in some embodiments, an amino acid may be modified by methylation, amidation, acetylation, pegylation, glycosylation, phosphorylation, and/or substitution (*e.g.*, of the amino group, the carboxylic acid group, one or more protons, and/or the hydroxyl group) as compared with the general structure. In some embodiments, such modification may, for example, alter the circulating half-life of a polypeptide containing the modified amino acid as compared with one containing an otherwise identical unmodified amino acid. In some embodiments, such modification does not significantly alter a relevant activity of a polypeptide containing the modified amino acid, as compared with one containing an otherwise identical unmodified amino acid. As will be clear from context, in some embodiments, the term "amino acid" may be used to refer to a free amino acid; in some embodiments it may be used to refer to an amino acid residue of a polypeptide.

[0118] ***Animal:*** as used herein refers to any member of the animal kingdom. In some embodiments, "*animal*" refers to humans, of either sex and at any stage of development. In some embodiments, "*animal*" refers to non-human animals, at any stage of development. In certain embodiments, the non-human animal is a mammal (*e.g.*, a rodent, a mouse, a rat, a rabbit, a monkey, a dog, a cat, a sheep, cattle, a primate, and/or a pig). In some embodiments, animals include, but are not limited to, mammals, birds, reptiles, amphibians, fish, insects, and/or worms. In some embodiments, an animal may be a transgenic animal, genetically engineered animal, and/or a clone.

[0119] ***Antibody:*** As used herein, the term "antibody" refers to a polypeptide that includes canonical immunoglobulin sequence elements sufficient to confer specific binding to a particular target antigen. As is known in the art, intact antibodies as produced in nature are approximately 150 kD tetrameric agents comprised of two identical heavy chain polypeptides (about 50 kD each) and two identical light chain polypeptides (about 25 kD each) that associate with each other into what is commonly referred to as a "Y-shaped" structure. Each heavy chain is comprised of at least four domains (each about 110 amino acids long)– an amino-terminal variable (VH) domain (located at the tips of the Y structure), followed by three constant

domains: CH1, CH2, and the carboxy-terminal CH3 (located at the base of the Y's stem). A short region, known as the "switch", connects the heavy chain variable and constant regions. The "hinge" connects CH2 and CH3 domains to the rest of the antibody. Two disulfide bonds in this hinge region connect the two heavy chain polypeptides to one another in an intact antibody. Each light chain is comprised of two domains – an amino-terminal variable (VL) domain, followed by a carboxy-terminal constant (CL) domain, separated from one another by another "switch". Intact antibody tetramers are comprised of two heavy chain-light chain dimers in which the heavy and light chains are linked to one another by a single disulfide bond; two other disulfide bonds connect the heavy chain hinge regions to one another, so that the dimers are connected to one another and the tetramer is formed. Naturally-produced antibodies are also glycosylated, typically on the CH2 domain. Each domain in a natural antibody has a structure characterized by an "immunoglobulin fold" formed from two beta sheets (*e.g.*, 3-, 4-, or 5-stranded sheets) packed against each other in a compressed antiparallel beta barrel. Each variable domain contains three hypervariable loops known as "complement determining regions" (CDR1, CDR2, and CDR3) and four somewhat invariant "framework" regions (FR1, FR2, FR3, and FR4). When natural antibodies fold, the FR regions form the beta sheets that provide the structural framework for the domains, and the CDR loop regions from both the heavy and light chains are brought together in three-dimensional space so that they create a single hypervariable antigen binding site located at the tip of the Y structure. The Fc region of naturally-occurring antibodies binds to elements of the complement system, and also to receptors on effector cells, including for example effector cells that mediate cytotoxicity. As is known in the art, affinity and/or other binding attributes of Fc regions for Fc receptors can be modulated through glycosylation or other modification. In some embodiments, antibodies produced and/or utilized in accordance with the present invention include glycosylated Fc domains, including Fc domains with modified or engineered such glycosylation. For purposes of the present invention, in certain embodiments, any polypeptide or complex of polypeptides that includes sufficient immunoglobulin domain sequences as found in natural antibodies can be referred to and/or used as an "antibody", whether such polypeptide is naturally produced (*e.g.*, generated by an organism reacting to an antigen), or produced by recombinant engineering, chemical synthesis, or other artificial system or methodology. In some embodiments, an antibody is polyclonal; in some

embodiments, an antibody is monoclonal. In some embodiments, an antibody has constant region sequences that are characteristic of mouse, rabbit, primate, or human antibodies. In some embodiments, antibody sequence elements are humanized, primatized, chimeric, etc, as is known in the art. Moreover, the term "antibody" as used herein, can refer in appropriate embodiments (unless otherwise stated or clear from context) to any of the art-known or developed constructs or formats for utilizing antibody structural and functional features in alternative presentation. For example, embodiments, an antibody utilized in accordance with the present invention is in a format selected from, but not limited to, intact IgA, IgG, IgE or IgM antibodies; bi- or multi-specific antibodies (*e.g.*, Zybodies®, etc); antibody fragments such as Fab fragments, Fab' fragments, F(ab')2 fragments, Fd' fragments, Fd fragments, and isolated CDRs or sets thereof; single chain Fvs; polypeptide-Fc fusions; single domain antibodies (*e.g.*, shark single domain antibodies such as IgNAR or fragments thereof); cameloid antibodies; masked antibodies (*e.g.*, Probodies®); Small Modular ImmunoPharmaceuticals ("SMIPs™"); single chain or Tandem diabodies (TandAb®); VHHs; Anticalins®; Nanobodies® minibodies; BiTE®s; ankyrin repeat proteins or DARPINs®; Avimers®; DARTs; TCR-like antibodies;, Adnectins®; Affilins®; Trans-bodies®; Affibodies®; TrimerX®; MicroProteins; Fynomers®, Centyrins®; and KALBITOR®s. In some embodiments, an antibody may lack a covalent modification (*e.g.*, attachment of a glycan) that it would have if produced naturally. In some embodiments, an antibody may contain a covalent modification (*e.g.*, attachment of a glycan, a payload [*e.g.*, a detectable moiety, a therapeutic moiety, a catalytic moiety, etc], or other pendant group [*e.g.*, poly-ethylene glycol, etc.]

[0120] ***Antibody agent***: As used herein, the term "antibody agent" refers to an agent that specifically binds to a particular antigen. In some embodiments, the term encompasses any polypeptide or polypeptide complex that includes immunoglobulin structural elements sufficient to confer specific binding. Exemplary antibody agents include, but are not limited to monoclonal antibodies or polyclonal antibodies. In some embodiments, an antibody agent may include one or more constant region sequences that are characteristic of mouse, rabbit, primate, or human antibodies. In some embodiments, an antibody agent may include one or more sequence elements are humanized, primatized, chimeric, etc, as is known in the art. In many embodiments, the term "antibody agent" is used to refer to one or more of the art-known or

developed constructs or formats for utilizing antibody structural and functional features in alternative presentation. For example, embodiments, an antibody agent utilized in accordance with the present invention is in a format selected from, but not limited to, intact IgA, IgG, IgE or IgM antibodies; bi- or multi- specific antibodies (*e.g.*, Zybodies®, etc); antibody fragments such as Fab fragments, Fab' fragments, F(ab')2 fragments, Fd' fragments, Fd fragments, and isolated CDRs or sets thereof; single chain Fvs; polypeptide-Fc fusions; single domain antibodies (*e.g.*, shark single domain antibodies such as IgNAR or fragments thereof); cameloid antibodies; masked antibodies (*e.g.*, Probodies®); Small Modular ImmunoPharmaceuticals ("SMIPs™"); single chain or Tandem diabodies (TandAb®); VHHs; Anticalins®; Nanobodies® minibodies; BiTE®s; ankyrin repeat proteins or DARPINs®; Avimers®; DARTs; TCR-like antibodies;, Adnectins®; Affilins®; Trans-bodies®; Affibodies®; TrimerX®; MicroProteins; Fynomers®, Centyrins®; and KALBITOR®s. In some embodiments, an antibody may lack a covalent modification (*e.g.*, attachment of a glycan) that it would have if produced naturally. In some embodiments, an antibody may contain a covalent modification (*e.g.*, attachment of a glycan, a payload [*e.g.*, a detectable moiety, a therapeutic moiety, a catalytic moiety, etc], or other pendant group [*e.g.*, poly-ethylene glycol, etc.]. In many embodiments, an antibody agent is or comprises a polypeptide whose amino acid sequence includes one or more structural elements recognized by those skilled in the art as a complementarity determining region (CDR); in some embodiments an antibody agent is or comprises a polypeptide whose amino acid sequence includes at least one CDR (*e.g.*, at least one heavy chain CDR and/or at least one light chain CDR) that is substantially identical to one found in a reference antibody. In some embodiments an included CDR is substantially identical to a reference CDR in that it is either identical in sequence or contains between 1-5 amino acid substitutions as compared with the reference CDR. In some embodiments an included CDR is substantially identical to a reference CDR in that it shows at least 85%, 86%, 87%, 88%, 89%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or 100% sequence identity with the reference CDR. In some embodiments an included CDR is substantially identical to a reference CDR in that it shows at least 96%, 96%, 97%, 98%, 99%, or 100% sequence identity with the reference CDR. In some embodiments an included CDR is substantially identical to a reference CDR in that at least one amino acid within the included CDR is deleted, added, or substituted as compared with the reference CDR but the

included CDR has an amino acid sequence that is otherwise identical with that of the reference CDR. In some embodiments an included CDR is substantially identical to a reference CDR in that 1-5 amino acids within the included CDR are deleted, added, or substituted as compared with the reference CDR but the included CDR has an amino acid sequence that is otherwise identical to the reference CDR. In some embodiments an included CDR is substantially identical to a reference CDR in that at least one amino acid within the included CDR is substituted as compared with the reference CDR but the included CDR has an amino acid sequence that is otherwise identical with that of the reference CDR. In some embodiments an included CDR is substantially identical to a reference CDR in that 1-5 amino acids within the included CDR are deleted, added, or substituted as compared with the reference CDR but the included CDR has an amino acid sequence that is otherwise identical to the reference CDR. In some embodiments, an antibody agent is or comprises a polypeptide whose amino acid sequence includes structural elements recognized by those skilled in the art as an immunoglobulin variable domain. In some embodiments, an antibody agent is a polypeptide protein having a binding domain which is homologous or largely homologous to an immunoglobulin-binding domain.

[0121] ***Associated:*** Two events or entities are "associated" with one another, as that term is used herein, if the presence, level, degree, type and/or form of one is correlated with that of the other. For example, a particular entity (*e.g.*, polypeptide, genetic signature, metabolite, microbe, etc) is considered to be associated with a particular disease, disorder, or condition, if its presence, level and/or form correlates with incidence of and/or susceptibility to the disease, disorder, or condition (*e.g.*, across a relevant population). In some embodiments, two or more entities are physically "associated" with one another if they interact, directly or indirectly, so that they are and/or remain in physical proximity with one another. In some embodiments, two or more entities that are physically associated with one another are covalently linked to one another; in some embodiments, two or more entities that are physically associated with one another are not covalently linked to one another but are non-covalently associated, for example by means of hydrogen bonds, van der Waals interaction, hydrophobic interactions, magnetism, and combinations thereof.

[0122] ***Barcode:*** As used herein, the term "barcode" refers to a peptide sequence, which associates with a binder with known specificity and affinity. In some embodiments, a barcode

binds to a specific antibody-agent. In some embodiments, a barcode may be contained within a specific payload of interest. In some embodiments, a barcode may be terminal to a specific payload of interest. In some embodiments, a barcode may be synthetic. In some embodiments, a barcode may be designed. For example, a barcode sequence may be ordered as a DNA polynucleotide and cloned into the payload of interest using methods of molecular cloning known to a person of ordinary skill in the art.

[0123] ***Binder:*** As used herein, the term "binder" or "binder moiety" refers to a polypeptide sequence, which associates with a barcode with known specificity and affinity. In some embodiments, a binder is or comprises an antibody agent. In some embodiments, a binder is expressed on a surface of a binding agent. In some embodiments, a binder may bind to one or more barcodes.

[0124] ***Binding***: It will be understood that the term "binding" or "bind", as used herein, typically refers to a non-covalent association between or among two or more entities. "Direct" binding involves physical contact between entities or moieties; indirect binding involves physical interaction by way of physical contact with one or more intermediate entities. Binding between two or more entities can typically be assessed in any of a variety of contexts – including where interacting entities or moieties are studied in isolation or in the context of more complex systems (*e.g.*, while covalently or otherwise associated with a carrier entity and/or in a biological system or cell).

[0125] ***Binding agent***: In general, the term "binding agent" is used herein to refer to any entity that binds to a target of interest as described herein (*e.g.*, a barcode, a barcoded target, etc.). In many embodiments, a binding agent of interest is one that binds specifically with its target in that it discriminates its target from other potential binding partners in a particular interaction contect. In general, a binding agent may be or comprise an entity of any chemical class (*e.g.*, polymer, non-polymer, small molecule, polypeptide, carbohydrate, lipid, nucleic acid, etc) or biological class (*e.g.*, bacteria, phage, ribosome, mRNA, DNA, etc.). In some embodiments, a binding agent is a single chemical entity. In some embodiments, a binding agent is a complex of two or more discrete chemical entities associated with one another under relevant conditions by non-covalent interactions. For example, those skilled in the art will appreciate that in some embodiments, a binding agent may comprise a "generic" binding moiety (*e.g.*, one of

biotin/avidin/streptavidin and/or a class-specific antibody) and a "specific" binding moiety (*e.g.*, an antibody or aptamers with a particular molecular target) that is linked to the partner of the generic biding moiety. In some embodiments, such an approach can permit modular assembly of multiple binding agents through linkage of different specific binding moieties with the same generic binding moiety partner. In some embodiments, binding agents are or comprise phages. In some embodiments, binding agents are or comprise polypeptides (including, *e.g.*, antibodies or antibody fragments). In some embodiments, binding agents are or comprise small molecules. In some embodiments, binding agents are or comprise nucleic acids. In some embodiments, binding agents are or comprise aptamers. In some embodiments, binding agents are polymers; in some embodiments, binding agents are not polymers. In some embodiments, binding agents are non-polymeric in that they lack polymeric moieties. In some embodiments, binding agents are or comprise carbohydrates. In some embodiments, binding agents are or comprise lectins. In some embodiments, binding agents are or comprise peptidomimetics. In some embodiments, binding agents are or comprise scaffold proteins. In some embodiments, binding agents are or comprise mimeotopes. In some embodiments, binding agents are or comprise stapled peptides. In certain embodiments, binding agents are or comprise nucleic acids, such as DNA or RNA.

[0126] ***Biological Sample***: As used herein, the term "biological sample" typically refers to a sample obtained or derived from a biological source (*e.g.*, a tissue or organism or cell culture) of interest, as described herein. In some embodiments, a source of interest comprises an organism, such as an animal or human. In some embodiments, a biological sample is or comprises biological tissue or fluid. In some embodiments, a biological sample may be or comprise bone marrow; blood; blood cells; ascites; tissue or fine needle biopsy samples; cell-containing body fluids; free floating nucleic acids; sputum; saliva; urine; cerebrospinal fluid, peritoneal fluid; pleural fluid; feces; lymph; gynecological fluids; skin swabs; vaginal swabs; oral swabs; nasal swabs; washings or lavages such as a ductal lavages or broncheoalveolar lavages; aspirates; scrapings; bone marrow specimens; tissue biopsy specimens; surgical specimens; feces, other body fluids, secretions, and/or excretions; and/or cells therefrom, *etc*. In some embodiments, a biological sample is or comprises cells obtained from an individual. In some embodiments, obtained cells are or include cells from an individual from whom the sample is obtained. In some embodiments, a sample is a "primary sample" obtained directly from a

source of interest by any appropriate means. For example, in some embodiments, a primary biological sample is obtained by methods selected from the group consisting of biopsy (*e.g.*, fine needle aspiration or tissue biopsy), surgery, collection of body fluid (*e.g.*, blood, lymph, feces *etc.*), *etc.* In some embodiments, as will be clear from context, the term "sample" refers to a preparation that is obtained by processing (*e.g.*, by removing one or more components of and/or by adding one or more agents to) a primary sample. For example, filtering using a semi-permeable membrane. Such a "processed sample" may comprise, for example nucleic acids or proteins extracted from a sample or obtained by subjecting a primary sample to techniques such as amplification or reverse transcription of mRNA, isolation and/or purification of certain components, *etc.*

[0127] ***CDR***: As used herein, "CDR" refers to a complementarity determining region within an antibody variable region. There are three CDRs in each of the variable regions of the heavy chain and the light chain, which are designated CDR1, CDR2 and CDR3, for each of the variable regions. A "*set of CDRs*" or "*CDR set*" refers to a group of three or six CDRs that occur in either a single variable region capable of binding the antigen or the CDRs of cognate heavy and light chain variable regions capable of binding the antigen. Certain systems have been established in the art for defining CDR boundaries (*e.g.*, Kabat, Chothia, etc.); those skilled in the art appreciate the differences between and among these systems and are capable of understanding CDR boundaries to the extent required to understand and to practice the claimed invention.

[0128] ***Comparable***: As used herein, the term "comparable" refers to two or more agents, entities, situations, sets of conditions, that may not be identical to one another but that are sufficiently similar to permit comparison there between so that one skilled in the art will appreciate that conclusions may reasonably be drawn based on differences or similarities observed. In some embodiments, comparable sets of conditions, circumstances, individuals, or populations are characterized by a plurality of substantially identical features and one or a small number of varied features. Those of ordinary skill in the art will understand, in context, what degree of identity is required in any given circumstance for two or more such agents, entities, situations, sets of conditions, to be considered comparable. For example, those of ordinary skill in the art will appreciate that sets of circumstances, individuals, or populations are comparable to

one another when characterized by a sufficient number and type of substantially identical features to warrant a reasonable conclusion that differences in results obtained or phenomena observed under or with different sets of circumstances, individuals, or populations are caused by or indicative of the variation in those features that are varied.

[0129] ***Comprising:*** A composition or method described herein as "comprising" one or more named elements or steps is open-ended, meaning that the named elements or steps are essential, but other elements or steps may be added within the scope of the composition or method. To avoid prolixity, it is also understood that any composition or method described as "comprising" (or which "comprises") one or more named elements or steps also describes the corresponding, more limited composition or method "consisting essentially of" (or which "consists essentially of") the same named elements or steps, meaning that the composition or method includes the named essential elements or steps and may also include additional elements or steps that do not materially affect the basic and novel characteristic(s) of the composition or method. It is also understood that any composition or method described herein as "comprising" or "consisting essentially of" one or more named elements or steps also describes the corresponding, more limited, and closed-ended composition or method "consisting of" (or "consists of") the named elements or steps to the exclusion of any other unnamed element or step. In any composition or method disclosed herein, known or disclosed equivalents of any named essential element or step may be substituted for that element or step.

[0130] ***Decoding*** : As used herein , the term “decoding”, refers to a laboratory and/or bioinformatics process of identifying and quantifying a unique set of amino acids within a barcode. In some embodiments, such identification and quantification is achieved using nucleic acid (*e.g.,* DNA) counts form a sequencing experiment and measuring an abundance of binder counts. In some embodiments, previously measured fingerprints (*e.g.,* binder fingerprint or barcode fingerprint) are used to determine the relationship between an unknown barcode mixture, which is being decoded, for example, by comparing to a previously known mixture’s binder counts, across binders with known and varying affinities to several barcodes within the pool.

[0131] ***Designed:*** As used herein, the term "designed" refers to an agent (i) whose structure is or was selected by the hand of man; (ii) that is produced by a process requiring the hand of man; and/or (iii) that is distinct from natural substances and other known agents.

[0132] ***Determine:*** Many methodologies described herein include a step of "determining". Those of ordinary skill in the art, reading the present specification, will appreciate that such "determining" can utilize or be accomplished through use of any of a variety of techniques available to those skilled in the art, including for example specific techniques explicitly referred to herein. In some embodiments, determining involves manipulation of a physical sample. In some embodiments, determining involves consideration and/or manipulation of data or information, for example utilizing a computer or other processing unit adapted to perform a relevant analysis. In some embodiments, determining involves receiving relevant information and/or materials from a source. In some embodiments, determining involves comparing one or more features of a sample or entity to a comparable reference.

[0133] ***Engineered:*** In general, the term "engineered" refers to the aspect of having been manipulated by the hand of man. For example, in some embodiments, a small molecule may be considered to be engineered if its structure and/or production is designed and/or implemented by the hand of man. Analogously, in some embodiments, a polynucleotide may be considered to be "engineered" when two or more sequences, that are not linked together in that order in nature, are manipulated by the hand of man to be directly linked to one another in the engineered polynucleotide. For example, in some embodiments of the present invention, an engineered polynucleotide comprises a regulatory sequence that is found in nature in operative association with a first sequence (*e.g.*, coding sequence) but not in operative association with a second sequence (*e.g.*, coding sequence), is linked by the hand of man so that it is operatively associated with the second sequence. Comparably, a cell or organism is considered to be "engineered" if it has been manipulated so that its genetic information is altered (*e.g.*, new genetic material not previously present has been introduced, for example by transformation, mating, somatic hybridization, transfection, transduction, or other mechanism, or previously present genetic material is altered or removed, for example by substitution or deletion mutation, or by mating protocols). As is common practice and is understood by those in the art, expression products of an engineered polynucleotide, and/or progeny of an engineered polynucleotide or cell are

typically still referred to as "engineered" even though the actual manipulation was performed on a prior entity.

[0134] ***Expression:*** As used herein, "expression" of a nucleic acid sequence refers to one or more of the following events: (1) production of an RNA template from a DNA sequence (*e.g.*, by transcription); (2) processing of an RNA transcript (*e.g.*, by splicing, editing, 5' cap formation, and/or 3' end formation); (3) translation of an RNA into a polypeptide or protein; and/or (4) post-translational modification of a polypeptide or protein.

[0135] ***Fingerprint***: As used herein, the term "fingerprint" refers to the counts of one or more unknown agents that a known agent may bind to or be associated with. In some embodiments, a fingerprint may be for a known barcode or barcode mixture. In some embodiments, a fingerprint may be for a known binder or binder mixture. For example, in some embodiments, a fingerprint (*e.g.*, barcode fingerprint) may refer to the counts of one or more binders (*e.g.*, determined through sequencing analysis) to bind specifically to a known barcode or barcode mixture. That is, in some embodiments, a fingerprint for a barcode refers to the counts of one or more binders, some of which may have high affinity for the barcode, and some of which may have low affinity for the barcode. In some embodiments, a fingerprint may be used in the decoding process, which process is used to determine the relative or absolute abundance of a given barcode within a pool of barcodes. As is understood to a person of ordinary skill in the art a fingerprint may be determined for a known barcode or barcode mixture, or for a known binder or binder mixture. For example, in some embodiments, a fingerprint (*e.g.*, binder fingerprint) may refer to the counts of one or more barcodes (*e.g.*, determined through sequencing analysis) that bind specifically to a known binder or binder mixture. That is, in some embodiments, a fingerprint for a binder refers to the counts of one or more barcodes, some of which may have high affinity for the binder, and some of which may have low affinity for the binder. Accordingly, a fingerprint may also be used in the decoding process, in some embodiments, to determine the relative or absolute abundance of a given binder within a pool of binders.

[0136] ***Fragment:*** A "fragment" of a material or entity as described herein has a structure that includes a discrete portion of the whole, but lacks one or more moieties found in the whole. In some embodiments, a fragment consists of such a discrete portion. In some embodiments, a fragment consists of or comprises a characteristic structural element or moiety

found in the whole. In some embodiments, a polymer fragment comprises or consists of at least 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 275, 300, 325, 350, 375, 400, 425, 450, 475, 500 or more monomeric units (*e.g.*, residues) as found in the whole polymer. In some embodiments, a polymer fragment comprises or consists of at least about 5%, 10%, 15%, 20%, 25%, 30%, 25%, 40%, 45%, 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or more of the monomeric units (*e.g.*, residues) found in the whole polymer. The whole material or entity may in some embodiments be referred to as the "parent" of the whole.

[0137] ***Human***: In some embodiments, a human is an embryo, a fetus, an infant, a child, a teenager, an adult, or a senior citizen.

[0138] ***"Improve," "increase", "inhibit"*** or ***"reduce":*** As used herein, the terms "improve", "increase", "inhibit', "reduce", or grammatical equivalents thereof, indicate values that are relative to a baseline or other reference measurement. In some embodiments, an appropriate reference measurement may be or comprise a measurement in a particular system (*e.g.*, in a single individual) under otherwise comparable conditions absent presence of (*e.g.*, prior to and/or after) a particular agent or treatment, or in presence of an appropriate comparable reference agent. In some embodiments, an appropriate reference measurement may be or comprise a measurement in comparable system known or expected to respond in a particular way, in presence of the relevant agent or treatment.

[0139] ***In vitro:*** The term "in vitro" as used herein refers to events that occur in an artificial environment, *e.g.*, in a test tube or reaction vessel, in cell culture, etc., rather than within a multi-cellular organism.

[0140] ***In vivo:*** as used herein refers to events that occur within a multi-cellular organism, such as a human and a non-human animal. In the context of cell-based systems, the term may be used to refer to events that occur within a living cell (as opposed to, for example, *in vitro* systems).

[0141] ***Library:*** The term "library" as used herein refers to a mixture of one or more distinct molecules. In some embodiments, all elements of a library share one or more common

components. In some embodiments, all elements of a library share no common components. In some embodiments, one or more elements of a library are distinguished by one or more unique components. In some embodiments, as may be apparent from the context, a library may refer to a mixture of binding agents. In some embodiments, a library may be a phage library. In some embodiments, for example, a phage library may consist of phage with distinct binders displayed on (*e.g.*, on a surface) of the phage and encapsulating DNA encoding for this binder within the phage. In some embodiments, a library may refer to a mixture of barcoded payload proteins. In some embodiments, a library may refer to a mixture of barcodes (*e.g.*, peptide barcodes).

[0142] ***Linker:*** as used herein, is used to refer to that portion of a multi-element agent that connects different elements to one another. For example, those of ordinary skill in the art appreciate that a polypeptide whose structure includes two or more functional or organizational domains often includes a stretch of amino acids between such domains that links them to one another. In some embodiments, a polypeptide comprising a linker element has an overall structure of the general form S1-L-S2, wherein S1 and S2 may be the same or different and represent two domains associated with one another by the linker. In some embodiments, a polyptide linker is at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100 or more amino acids in length. In some embodiments, a linker is characterized in that it tends not to adopt a rigid three-dimensional structure, but rather provides flexibility to the polypeptide. A variety of different linker elements that can appropriately be used when engineering polypeptides (*e.g.*, fusion polypeptides) known in the art (see *e.g.*, Holliger, P., et al. (1993) Proc. Natl. Acad. Sci. USA 90:6444-6448; Poljak, R. J., et al. (1994) Structure 2: 1 121-1123).

[0143] ***Nucleic acid***: As used herein, in its broadest sense, refers to any compound and/or substance that is or can be incorporated into an oligonucleotide chain. In some embodiments, a nucleic acid is a compound and/or substance that is or can be incorporated into an oligonucleotide chain via a phosphodiester linkage. As will be clear from context, in some embodiments, "*nucleic acid*" refers to an individual nucleic acid residue (*e.g.*, a nucleotide and/or nucleoside); in some embodiments, "*nucleic acid*" refers to an oligonucleotide chain comprising individual nucleic acid residues. In some embodiments, a "*nucleic acid*" is or comprises RNA; in some embodiments, a "*nucleic acid*" is or comprises DNA. In some embodiments, a nucleic

acid is, comprises, or consists of one or more natural nucleic acid residues. In some embodiments, a nucleic acid is, comprises, or consists of one or more nucleic acid analogs. In some embodiments, a nucleic acid analog differs from a nucleic acid in that it does not utilize a phosphodiester backbone. For example, in some embodiments, a nucleic acid is, comprises, or consists of one or more "*peptide nucleic acids*", which are known in the art and have peptide bonds instead of phosphodiester bonds in the backbone, are considered within the scope of the present invention. Alternatively or additionally, in some embodiments, a nucleic acid has one or more phosphorothioate and/or 5'-N-phosphoramidite linkages rather than phosphodiester bonds. In some embodiments, a nucleic acid is, comprises, or consists of one or more natural nucleosides (*e.g.*, adenosine, thymidine, guanosine, cytidine, uridine, deoxyadenosine, deoxythymidine, deoxy guanosine, and deoxycytidine). In some embodiments, a nucleic acid is, comprises, or consists of one or more nucleoside analogs (*e.g.*, 2-aminoadenosine, 2-thiothymidine, inosine, pyrrolo-pyrimidine, 3 -methyl adenosine, 5-methylcytidine, C-5 propynyl-cytidine, C-5 propynyl-uridine, 2-aminoadenosine, C5-bromouridine, C5-fluorouridine, C5-iodouridine, C5-propynyl-uridine, C5 -propynyl-cytidine, C5-methylcytidine, 2-aminoadenosine, 7-deazaadenosine, 7-deazaguanosine, 8-oxoadenosine, 8-oxoguanosine, 0(6)-methylguanine, 2-thiocytidine, methylated bases, intercalated bases, and combinations thereof). In some embodiments, a nucleic acid comprises one or more modified sugars (*e.g.*, 2'-fluororibose, ribose, 2'-deoxyribose, arabinose, and hexose) as compared with those in natural nucleic acids. In some embodiments, a nucleic acid has a nucleotide sequence that encodes a functional gene product such as an RNA or protein. In some embodiments, a nucleic acid includes one or more introns. In some embodiments, nucleic acids are prepared by one or more of isolation from a natural source, enzymatic synthesis by polymerization based on a complementary template (*in vivo* or *in vitro*), reproduction in a recombinant cell or system, and chemical synthesis. In some embodiments, a nucleic acid is at least 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 1 10, 120, 130, 140, 150, 160, 170, 180, 190, 20, 225, 250, 275, 300, 325, 350, 375, 400, 425, 450, 475, 500, 600, 700, 800, 900, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000 or more residues long. In some embodiments, a nucleic acid is partly or wholly single stranded; in some embodiments, a nucleic acid is partly or wholly double stranded. In some embodiments a nucleic acid has a nucleotide

sequence comprising at least one element that encodes, or is the complement of a sequence that encodes, a polypeptide. In some embodiments, a nucleic acid has enzymatic activity.

[0144] ***Payload:*** As used herein, the term "payload" refers to a protein sequence, which may be associated to a peptide barcode through at least one covalent bond. In some embodiments, a payload is a protein that is to be detected in a pool of proteins. In some embodiments, a payload is an unmodified protein that is to be detected in a pool of proteins without attaching a peptide barcode. In some embodiments, a payload is a modified protein that is to be detected in a pool of proteins. In some embodiments, a payload may be associated with a barcode (*e.g.*, peptide barcode). In some embodiments, a payload may not be associated with a barcode (*e.g.*, peptide barcode).

[0145] ***Peptide:*** The term "peptide" as used herein refers to a polypeptide that is typically relatively short, for example having a length of less than about 100 amino acids, less than about 50 amino acids, less than about 40 amino acids less than about 30 amino acids, less than about 25 amino acids, less than about 20 amino acids, less than about 15 amino acids, or less than 10 amino acids.

[0146] ***Polypeptide:*** As used herein refers to any polymeric chain of residues (*e.g.*, amino acids) that are typically linked by peptide bonds. In some embodiments, a polypeptide has an amino acid sequence that occurs in nature. In some embodiments, a polypeptide has an amino acid sequence that does not occur in nature. In some embodiments, a polypeptide has an amino acid sequence that is engineered in that it is designed and/or produced through action of the hand of man. In some embodiments, a polypeptide may comprise or consist of natural amino acids, non-natural amino acids, or both. In some embodiments, a polypeptide may comprise or consist of only natural amino acids or only non-natural amino acids. In some embodiments, a polypeptide may comprise D-amino acids, L-amino acids, or both. In some embodiments, a polypeptide may comprise only D-amino acids. In some embodiments, a polypeptide may comprise only L-amino acids. In some embodiments, a polypeptide may include one or more pendant groups or other modifications, *e.g.*, modifying or attached to one or more amino acid side chains, at the polypeptide's N-terminus, at the polypeptide's C-terminus, or any combination thereof. In some embodiments, such pendant groups or modifications may be selected from the group consisting of acetylation, amidation, lipidation, methylation, pegylation,

etc., including combinations thereof. In some embodiments, a polypeptide may be cyclic, and/or may comprise a cyclic portion. In some embodiments, a polypeptide is not cyclic and/or does not comprise any cyclic portion. In some embodiments, a polypeptide is linear. In some embodiments, a polypeptide may be or comprise a stapled polypeptide. In some embodiments, the term "polypeptide" may be appended to a name of a reference polypeptide, activity, or structure; in such instances it is used herein to refer to polypeptides that share the relevant activity or structure and thus can be considered to be members of the same class or family of polypeptides. For each such class, the present specification provides and/or those skilled in the art will be aware of exemplary polypeptides within the class whose amino acid sequences and/or functions are known; in some embodiments, such exemplary polypeptides are reference polypeptides for the polypeptide class or family. In some embodiments, a member of a polypeptide class or family shows significant sequence homology or identity with, shares a common sequence motif (*e.g.*, a characteristic sequence element) with, and/or shares a common activity (in some embodiments at a comparable level or within a designated range) with a reference polypeptide of the class; in some embodiments with all polypeptides within the class). For example, in some embodiments, a member polypeptide shows an overall degree of sequence homology or identity with a reference polypeptide that is at least about 30-40%, and is often greater than about 50%, 60%, 70%, 80%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99% or more and/or includes at least one region (*e.g.*, a conserved region that may in some embodiments be or comprise a characteristic sequence element) that shows very high sequence identity, often greater than 90% or even 95%, 96%, 97%, 98%, or 99%. Such a conserved region usually encompasses at least 3-4 and often up to 20 or more amino acids; in some embodiments, a conserved region encompasses at least one stretch of at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 or more contiguous amino acids. In some embodiments, a useful polypeptide may comprise or consist of a fragment of a parent polypeptide. In some embodiments, a useful polypeptide as may comprise or consist of a plurality of fragments, each of which is found in the same parent polypeptide in a different spatial arrangement relative to one another than is found in the polypeptide of interest (*e.g.*, fragments that are directly linked in the parent may be spatially separated in the polypeptide of interest or vice versa, and/or fragments may be present

in a different order in the polypeptide of interest than in the parent), so that the polypeptide of interest is a derivative of its parent polypeptide.

[0147] ***Protein***: As used herein, the term "protein" refers to a polypeptide (*i.e.*, a string of at least two amino acids linked to one another by peptide bonds). Proteins may include moieties other than amino acids (*e.g.*, may be glycoproteins, proteoglycans, *etc.*) and/or may be otherwise processed or modified. Those of ordinary skill in the art will appreciate that a "protein" can be a complete polypeptide chain as produced by a cell (with or without a signal sequence), or can be a characteristic portion thereof. Those of ordinary skill will appreciate that a protein can sometimes include more than one polypeptide chain, for example linked by one or more disulfide bonds or associated by other means. Polypeptides may contain l-amino acids, d-amino acids, or both and may contain any of a variety of amino acid modifications or analogs known in the art. Useful modifications include, *e.g.*, terminal acetylation, amidation, methylation, *etc.* In some embodiments, proteins may comprise natural amino acids, non-natural amino acids, synthetic amino acids, and combinations thereof. In some embodiments, proteins are antibodies, antibody fragments, biologically active portions thereof, and/or characteristic portions thereof.

[0148] ***Reference:*** As used herein describes a standard or control relative to which a comparison is performed. For example, in some embodiments, an agent, animal, individual, population, sample, sequence or value of interest is compared with a reference or control agent, animal, individual, population, sample, sequence or value. In some embodiments, a reference or control is tested and/or determined substantially simultaneously with the testing or determination of interest. In some embodiments, a reference or control is a historical reference or control, optionally embodied in a tangible medium. Typically, as would be understood by those skilled in the art, a reference or control is determined or characterized under comparable conditions or circumstances to those under assessment. Those skilled in the art will appreciate when sufficient similarities are present to justify reliance on and/or comparison to a particular possible reference or control.

[0149] ***Sample:*** As used herein, the term "sample" typically refers to an aliquot of material obtained or derived from a source of interest. In some embodiments, as would be appreciated from the context by a person of ordinary skill in the art, the term "sample" may be

used interchangeably with terms like "mixture", or "complex mixture", or "complex sample". In some embodiments, a source of interest is a biological or environmental source. In some embodiments, a source of interest may be or comprise a cell or an organism, such as a microbe, a plant, or an animal (*e.g.*, a human). In some embodiments, a source of interest is or comprises biological tissue or fluid. In some embodiments, a biological tissue or fluid may be or comprise cells, serum, extracellular matrix, CSF, and/or combinations or component(s) thereof. In some embodiments, a biological tissue or fluid may be or comprise amniotic fluid, aqueous humor, ascites, bile, bone marrow, blood, breast milk, cerebrospinal fluid, cerumen, chyle, chime, ejaculate, endolymph, exudate, feces, gastric acid, gastric juice, lymph, mucus, pericardial fluid, perilymph, peritoneal fluid, pleural fluid, pus, rheum, saliva, sebum, semen, serum, smegma, sputum, synovial fluid, sweat, tears, urine, vaginal secreations, vitreous humour, vomit, and/or combinations or component(s) thereof. In some embodiments, a biological fluid may be or comprise an intracellular fluid, an extracellular fluid, an intravascular fluid (blood plasma), an interstitial fluid, a lymphatic fluid, and/or a transcellular fluid. In some embodiments, a biological fluid may be or comprise a plant exudate. In some embodiments, a biological tissue or sample may be obtained, for example, by aspirate, biopsy (*e.g.*, fine needle or tissue biopsy), swab (*e.g.*, oral, nasal, skin, or vaginal swab), scraping, surgery, washing or lavage (*e.g.*, brocheoalvealar, ductal, nasal, ocular, oral, uterine, vaginal, or other washing or lavage). In some embodiments, a biological sample is or comprises cells obtained from an individual. In some embodiments, a sample is a "primary sample" obtained directly from a source of interest by any appropriate means. In some embodiments, as will be clear from context, the term "sample" refers to a preparation that is obtained by processing (*e.g.*, by removing one or more components of and/or by adding one or more agents to) a primary sample. For example, filtering using a semi-permeable membrane. Such a "processed sample" may comprise, for example nucleic acids or proteins extracted from a sample or obtained by subjecting a primary sample to one or more techniques such as amplification or reverse transcription of nucleic acid, isolation and/or purification of certain components, *etc.*

[0150] ***Specific:*** The term "specific", when used herein with reference to an agent having an activity, is understood by those skilled in the art to mean that the agent discriminates between potential target entities or states. For example, in some embodiments, an agent is said

to bind "specifically" to its target if it binds preferentially with that target in the presence of one or more competing alternative targets. In many embodiments, specific interaction is dependent upon the presence of a particular structural feature of the target entity (*e.g.*, an epitope, a cleft, a binding site). It is to be understood that specificity need not be absolute. In some embodiments, specificity may be evaluated relative to that of the binding agent for one or more other potential target entities (*e.g.*, competitors). In some embodiments, specificity is evaluated relative to that of a reference specific binding agent. In some embodiments specificity is evaluated relative to that of a reference non-specific binding agent. In some embodiments, the agent or entity does not detectably bind to the competing alternative target under conditions of binding to its target entity. In some embodiments, binding agent binds with higher on-rate, lower off-rate, increased affinity, decreased dissociation, and/or increased stability to its target entity as compared with the competing alternative target(s).

[0151] ***Subject:*** As used herein, the term "subject" refers to an organism, typically a mammal (*e.g.*, a human, in some embodiments including prenatal human forms). In some embodiments, a subject is suffering from a relevant disease, disorder or condition. In some embodiments, a subject is susceptible to a disease, disorder, or condition. In some embodiments, a subject displays one or more symptoms or characteristics of a disease, disorder or condition. In some embodiments, a subject does not display any symptom or characteristic of a disease, disorder, or condition. In some embodiments, a subject is someone with one or more features characteristic of susceptibility to or risk of a disease, disorder, or condition. In some embodiments, a subject is a patient. In some embodiments, a subject is an individual to whom diagnosis and/or therapy is and/or has been administered.

[0152] ***Substantially:*** As used herein, the term "substantially" refers to the qualitative condition of exhibiting total or near-total extent or degree of a characteristic or property of interest. One of ordinary skill in the biological arts will understand that biological and chemical phenomena rarely, if ever, go to completion and/or proceed to completeness or achieve or avoid an absolute result. The term "substantially" is therefore used herein to capture the potential lack of completeness inherent in many biological and chemical phenomena.

[0153] ***Therapeutic agent:*** As used herein, the phrase "therapeutic agent" in general refers to any agent that elicits a desired pharmacological effect when administered to an

organism. In some embodiments, an agent is considered to be a therapeutic agent if it demonstrates a statistically significant effect across an appropriate population. In some embodiments, the appropriate population may be a population of model organisms. In some embodiments, an appropriate population may be defined by various criteria, such as a certain age group, gender, genetic background, preexisting clinical conditions, etc. In some embodiments, a therapeutic agent is a substance that can be used to alleviate, ameliorate, relieve, inhibit, prevent, delay onset of, reduce severity of, and/or reduce incidence of one or more symptoms or features of a disease, disorder, and/or condition. In some embodiments, a "therapeutic agent" is an agent that has been or is required to be approved by a government agency before it can be marketed for administration to humans. In some embodiments, a "therapeutic agent" is an agent for which a medical prescription is required for administration to humans. In some embodiments, a therapeutic agent is a therapeutic protein.

DETAILED DESCRIPTION

I. Barcoded Payloads

[0154] Methods and systems to generate and use barcodes and barcoded payloads are described herein. In some embodiments, methods disclosed herein are used to detect and/or characterize payloads. In some embodiments, methods disclosed herein are used to detect and/or characterize proteins. In some embodiments, methods disclosed herein are used to detect and/or characterize therapeutic proteins. In some embodiments, methods disclosed herein are used to detect and/or characterize or non-therapeutic proteins. In some embodiments, methods disclosed herein are used to detect and/or characterize proteins by tagging them with barcodes (*e.g.*, barcoded proteins). In some embodiments, methods disclosed herein are used to detect and/or characterize proteins *in vitro*. In some embodiments, methods disclosed herein are used to detect and/or characterize proteins *in vivo*. In some embodiments, methods disclosed herein are used to detect and/or characterize a protein. In some embodiments, methods disclosed herein are used to detect and/or characterize multiple (*e.g.*, two or more, three or more, four or more, etc.) proteins.

Barcodes:

[0155] In some embodiments, a barcode is or comprises an amino acid sequence. In some embodiments, a barcode is or comprises an amino acid sequence that occurs in nature. In some embodiments, a barcode is or comprises an amino acid sequence that does not occur in nature. In some embodiments, a barcode is or comprises an amino acid sequence that is synthetic. In some embodiments, a barcode comprises naturally occurring amino acids. In some embodiments, a barcode comprises non-naturally occurring amino acids (*e.g.*, modified amino acids). In some embodiments, a barcode is or comprises a peptide barcode.

[0156] Barcodes of the present disclosure can be of varying lengths. For example, in some embodiments, a barcode may have a length ranging between 1 and 100 amino acids. In some embodiments, a barcode may have a length ranging between 5 and 50 amino acids. In some embodiments, a barcode may have a length ranging between 8 and 25 amino acids. In some embodiments, a barcode may have a length ranging between 9 and 25 amino acids. In some embodiments, a barcode may have a length ranging between 9 and 15 amino acids. In some embodiments, a barcode may have a length of 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25 amino acids. In some embodiments, a barcode may have a length of at least 5 amino acids. In some embodiments, a barcode may have a length of at most 100 amino acids.

[0157] Barcodes, as described herein may be available in a library in different formats. For example, in some embodiments a barcode as described herein may be described as a nucleic acid sequence. In other instance, a barcode as described herein may be described as an amino acid sequence. A person of ordinary skill in the art will appreciate that barcodes described in one format may be converted to another format using basic biological principles. Accordingly, barcodes described as nucleic acid sequences may be translated in to proteins, which may be used to detect the presence or absence of a payload (*e.g.*, protein) in a mixture. Such a translated barcode is referred to herein as a peptide barcode.

[0158] Accordingly, barcodes of the present disclosure when described using nucleic acids may have lengths different from amino acid sequence lengths disclosed in the paragraph above. For example, in some embodiments, a barcode may have a length ranging between 3 and 300 nucleotides. In some embodiments, a barcode may have a length ranging between 15 and 150 nucleotides. In some embodiments, a barcode may have a length ranging between 24 and 75

nucleotides. In some embodiments, a barcode may have a length ranging between 27 and 75 nucleotides. In some embodiments, a barcode may have a length ranging between 27 and 45 nucleotides. In some embodiments, a barcode may have a length of 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39 , 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, or 75 nucleotides. In some embodiments, a barcode may have a length of at least 15 nucleotides. In some embodiments, a barcode may have a length of at most 300 nucleotides.

[0159] Barcodes of the present disclosure may have one or more properties. In some embodiments, a barcode may be naturally occurring. In some embodiments, a barcode may not be naturally occurring (*e.g.*, synthetic). In some embodiments, a barcode may have relatively no effect on payload function. For example, in some embodiments, tagging a payload (*e.g.*, a protein) with a barcode as described herein does not alter or change relatively the function of the tagged payload. In some embodiments, a barcode may have an effect (*e.g.*, positive or negative) on payload function. For example, in some embodiments, tagging a payload (*e.g.*, a protein) with a barcode as described herein may alter or change relatively a function (*e.g.*, half-life (*e.g.*, longer half-life), enhance targeting to specific tissue, etc.) of the tagged payload. In some embodiments, a barcode may not illicit an immune response (*e.g.*, an IgG response, a complement response, etc.). In some embodiments, barcodes are orthogonal to each other. In some embodiments, barcodes are not orthogonal to each other.

[0160] Barcodes of the present disclosure may be attached to various positions of a payload. For example, in some embodiments, a barcode may be attached to a suitable position on a payload. In some embodiments, a barcode may be attached to a non-suitable position on a payload. In some embodiments, a barcode may be attached to a suitable position on a protein. For example, in some embodiments, a barcode may be attached to an N-terminus of a protein. In some embodiments, a barcode may be attached to a C-terminus of a protein. In some embodiments, a barcode may be attached to a non-terminal position on a protein (*e.g.*, side chain). In some embodiments, a barcode may be attached to a non-suitable position on a protein.

[0161] Among other things, barcodes (*e.g.*, peptide barcodes or nucleic acids encoding peptide barcodes) of the present disclosure may be flanked by additional sequences (*e.g.*, nucleic

acid sequences, amino acid sequences, etc.). In some embodiments, a barcode may be flanked by additional sequences on a barcode's 5' end. In some embodiments, a barcode may be flanked by additional sequences on a barcode's 3' end. In some embodiments, a barcode may be flanked by additional sequences on a barcode's 3' and 5' end. In some embodiments, an additional sequence may be a primer binding site, a restriction endonuclease recognition sequence, a restriction enzyme site (*e.g.*, a cleavage site), a sequence that encodes an amino acid sequence, a sequence that does not encode an amino acid sequence, an amino acid sequence, or a nucleic acid sequence. For example, in some embodiments, a barcode may be flanked by nucleic acid sequences encoding an amino acid sequence. In some embodiments, a barcode may be flanked by nucleic acid sequences that does not encode an amino acid sequence. In some embodiments, a barcode may be flanked by amino acid sequences. In some embodiments, a peptide barcode may be flanked by amino acid sequences (*e.g.*, Glycine - Serine (GS)). Analogously, in some embodiments, a nucleic acid encoding a peptide barcode of the present disclosure may be flanked by additional sequences (*e.g.*, nucleic acid sequences, amino acid sequences, etc.). In some embodiments, a nucleic acid encoding a peptide barcode may be flanked by nucleic acid sequences on a 5' end. In some embodiments, a nucleic acid encoding a peptide barcode may be flanked by nucleic acid sequences on a 3' end. In some embodiments, a nucleic acid encoding a peptide barcode may be flanked by nucleic acid sequences on a 3' and 5' end. In some embodiments, a nucleic acid encoding a peptide barcode may be flanked by nucleic acid sequences encoding an amino acid sequence comprising a Glycine - Serine (GS).

[0162] In some embodiments, a barcode may be flanked by restriction endonuclease recognition sequences. In some embodiments, a barcode may be flanked by restriction endonuclease recognition sequences on a barcode's 5' end. In some embodiments, a barcode may be flanked by restriction endonuclease recognition sequences on a barcode's 3' end. In some embodiments, barcode may be flanked by restriction endonuclease recognition sequences on a barcode's 3' and 5' end. In some embodiments, a nucleic acid encoding a peptide barcode may be flanked by restriction endonuclease recognition sequences. In some embodiments, a nucleic acid encoding a peptide barcode may be flanked by restriction endonuclease recognition sequences on a 5' end. In some embodiments, a nucleic acid encoding a peptide barcode may be flanked by restriction endonuclease recognition sequences on a 3' end. In some embodiments, a

nucleic acid encoding a peptide barcode may be flanked by restriction endonuclease recognition sequences on a 3' and 5' end. In some embodiments, a restriction endonuclease recognition sequence may be recognized by one or more restriction enzymes (*e.g.*, BsaI, BsmBI, BbsI, SapI, etc.). In some embodiments, restriction endonuclease recognition sequences are Type I, Type II, or Type IIs restriction endonuclease recognition sequences. Such recognition sequences, for example, may be used to produce universal overhangs that may be used in cloning peptide barcodes into different locations of various payload. Such flexibility allows a barcode to be used to detect different protein payloads in different experiments.

[0163] In some embodiments, a nucleic acid sequence encoding a barcode (*e.g.*, a peptide barcode) may be associated with (*e.g.*, attached to, linked to) a second nucleic acid sequence encoding a payload (*e.g.*, a protein payload of interest). Such nucleic acid sequences, for example, may be translated to form barcoded payloads (*e.g.*, barcoded proteins). In some embodiments, a nucleic acid sequence encoding a barcode (*e.g.*, a peptide barcode) is separate from a second nucleic acid sequence encoding a payload (*e.g.*, a protein payload of interest). For such nucleic acid sequences, for example, a nucleic acid sequence encoding a barcode may be translated separately from a second nucleic acid sequence encoding a payload, and subsequently attached using one or more methods known in the art to join distinct amino acid sequences (*e.g.*, using linkers).

[0164] Barcodes of the present disclosure may be associated (*e.g.*, directly or indirectly attached) to payloads so as to form barcoded payloads. For example, in some embodiments, each barcode sequence (*e.g.*, peptide barcode sequence) may be associated to only one payload of interest (*e.g.*, protein of interest) within a mixture. In some embodiments, each barcode sequence may be associated to more than one payload of interest (*e.g.*, payloads with different sequences) within a mixture. In some embodiments, multiple (*e.g.*, two or more, three or more, four or more, etc.) barcode sequences may be associated to one payload of interest within a mixture. For example, in some embodiments, one or more barcode sequences may be associated to various different positions on a given payload – such a setup may be useful in, for example, in studying and identifying the stability and/or cleavage of such barcoded payloads. In some embodiments, each payload in a mixture is a unique sequence (*e.g.*, each payload has a different sequence from

every other payload in the mixture). In some embodiments, each payload in a mixture is a non-unique sequence.

[0165] Various methods and parameters may be used to select suitable barcodes for a given payload. For example, stability of a barcoded payload is key in determining if a payload may be tagged by said barcode. In some embodiments, a barcode may be tagged to a specific payload across different experiments. In some embodiments, a barcode may be tagged to different payloads in different experiments. For example, in some embodiments, a barcode may be tagged to two or more, three or more, four or more, ten or more, 100 or more, 1000 or more, or 10,000 or more different payloads across different experiments.

[0166] In some embodiments, a barcode may be associated with only one payload in a given experiment. In some embodiments, a barcode may be associated with multiple payloads in a given experiment. For example, in some embodiments, one or more barcodes are associated with multiple payloads (i.e. a barcode is tagged to multiple payloads) in a mixture, such that each payload is associated with a unique set of barcodes within the mixture. That is, each payload may be associated with a unique "pattern" of barcodes in the mixture. Analogously, in some embodiments, several payloads may be associated with the same barcode.

[0167] Among other things, barcodes described herein are designed to have a distinct (i.e. unique) sequence. In some embodiments, a barcode is designed to have a distinct sequence (*e.g.*, distinct from another barcode). For example, each barcode is designed to be distinct (*e.g.*, unique) from every other barcode used in an experiment, such that each payload (*e.g.*, protein to be measured) is attached to at least one barcode, and each barcode (*e.g.*, barcode with a specific sequence) is only attached to one payload. As may be understood by a person of ordinary skill in the art, the diversity of barcodes contained within a pool is limited only by the possible diversity of amino acid sequences for a given barcode length. For example, for a barcode length 'N', there exists 20^N distinct amino acid barcode sequences of length N (if only unmodified/naturally occurring amino acids are used). That is, for a barcode length of 15, the theoretical limit is 20^{15}, or 3.2768×10^{19}.

[0168] Example of barcodes according to various embodiments of the present disclosure are listed in Table 1 and Table 2. In some embodiments, a barcode (*e.g.*, peptide barcode) is or

comprises an amino acid sequence selected from SEQ ID NOs: 5347-8398. In some embodiments, a barcode (*e.g.*, peptide barcode) is encoded by a sequence that is or comprises a nucleic acid sequence selected from SEQ ID NOs: 1148-4199.

Payload:

[0169] Methods and systems disclosed herein are may be used for detection of one or more payloads as described herein. In some embodiments, a payload is a protein of interest. In some embodiments, a payload is a protein that has a therapeutic function. In some embodiments, a payload is a protein that does not have a therapeutic function (*e.g.*, may aid another payload with a therapeutic function). For example, possible payloads are proteins which one may wish to screen as drugs, such as monoclonal antibodies, single domain antibodies, enzymes, bispecific antibodies or any other protein which may have therapeutic function.

[0170] In one aspect, systems and methods disclosed herein may be used for detecting a payload (*e.g.*, protein) in a mixture. Specifically, barcodes disclosed herein tagged to a payload (*e.g.*, barcoded payload (*e.g.*, barcoded protein)) in a mixture and used to detect said payload in the mixture. In some embodiments, each payload is different from every other payload in a mixture. In some embodiments, each payload in a mixture is different from every other payload in a mixture by at least one amino acid. In some embodiments, each payload in a mixture is different from every other payload in a mixture by two or more amino acids. In some embodiments, a payload (*e.g.*, in a mixture) may be tagged with a barcode. In some embodiments, each payload (*e.g.*, in a mixture) may be tagged with a same barcode. In some embodiments, each payload (*e.g.*, in a mixture) may be tagged with different barcode. In some embodiments, a payload (*e.g.*, in a mixture) may be tagged with a barcode that is different from every other barcode (*e.g.*, associated with other payloads) in a mixture by at least one amino acid. In some embodiments, a payload (*e.g.*, in a mixture) may be tagged with a barcode that is different from every other barcode (*e.g.*, associated with other payloads) in a mixture by two or more amino acids.

[0171] As discussed elsewhere in the specification, a payload may be tagged with different barcodes (*e.g.*, in different mixtures, different experiments, etc.). For example, as noted

above, in some embodiments, each barcode sequence may be attached to only one payload of interest within a mixture. In some embodiments, each barcode sequence may be attached to more than one payload of interest (*e.g.*, payloads with different sequences) within a mixture. In some embodiments, multiple (*e.g.*, two or more, three or more, four or more, etc.) barcode sequences may be attached to one payload of interest within a mixture. For example, in some embodiments, one or more barcode sequences may be attached to various different positions on a given payload – such a setup may be useful in, for example, in studying and identifying the stability of such barcoded payloads. In some embodiments, each payload in a mixture is a unique sequence (*e.g.*, each payload has a different sequence from every other payload in the mixture). In some embodiments, each payload in a mixture is a non-unique sequence.

[0172] In some embodiments, a payload may be tagged to a specific barcode across different experiments. In some embodiments, a payload may be tagged to different barcodes in different experiments. For example, in some embodiments, a payload may be tagged to two or more, three or more, four or more, ten or more, 100 or more, 1000 or more, or 10,000 or more different barcodes across different experiments.

[0173] In some embodiments, a payload may be associated with only one barcode in a given experiment. In some embodiments, a payload may be associated with multiple barcodes in a given experiment. For example, in some embodiments, one or more barcodes (*e.g.*, in a mixture) are associated with multiple payloads (i.e. a barcode is tagged to multiple payloads) in a mixture, such that each payload is associated with a unique set of barcodes within the mixture. That is, each payload may be associated with a unique "pattern" of barcodes in the mixture. In some embodiments, several payloads may be associated with the same barcode.

Linkers:

[0174] Among other things, systems and methods described herein may use linkers. In some embodiments, a payload as described herein and a barcode as described herein are separated by a linker. In some embodiments, linkers (L) provide distance between a payload (P) and a barcode (b). That is, structurally a barcoded payload, in some embodiments, may have a

sequence of P-L-b. This, for example, may contribute to folding characteristics, payload functionality, and/or payload stability.

[0175] In some embodiments, linkers may be nucleic acids. In some embodiments, linkers may be amino acids. Linkers as described herein may have varying lengths. For example, in some embodiments, a linker may have a length of at least 3 amino acids. In some embodiments, a linker may have a length of between 1 and 50 amino acids (*e.g.*, between 1 and 30 amino acids).

[0176] In some embodiments, linkers of the present invention may be cleaved upon treatment. For example, in some embodiments, a linker may comprise one or more motifs that may be cleaved upon treatment.

[0177] In some embodiments, linkers of the present invention may be resistant to cleavage. In some embodiments, linkers of the present invention may be resistant to cleavage in assays. In some embodiments, linkers of the present invention may be resistant to cleavage *in vivo*.

[0178] In one aspect, linkers may be used to tag barcodes. In some embodiments, each linker sequence is associated with a distinct barcode sequence. For example, in some embodiments, a linker sequence may be used as a unique tag associated with a distinct barcode sequence (*e.g.*, nucleic acid sequence) in a mixture. That is, in some embodiments, such a linker may be used to amplify an associated barcode sequence. For example, in some embodiments, such a linker may be used as a primer to amplify an associated barcode sequence. Subsequently, in some embodiments, an amplified linker may be used to isolate an associated barcode sequence, allowing for retrieval of the barcode sequence (*e.g.*, nucleic acid sequence) from a given linker-barcode pair. In some embodiments, a linker-barcode pair may be subject to DNA sequencing for identification of the barcode sequence.

[0179] In some embodiments, a nucleic acid sequence encoding for a linker-barcode pair may be used to associate (*e.g.*, link) the linker-barcode pair to a new payload.

II. Binders and Binding Agents

Binders:

[0180] In some embodiments, a binder (i.e. a binder moiety) is or comprises a nucleic acid sequence. In some embodiments, a binder is or comprises a nucleic acid sequence that occurs in nature. In some embodiments, a binder is or comprises a nucleic acid sequence that does not occur in nature. In some embodiments, a binder is or comprises a nucleic acid sequence that is synthetic. In some embodiments, a binder comprises naturally occurring nucleic acids. In some embodiments, a binder comprises non-naturally occurring nucleic acids (*e.g.*, modified nucleic acids).

[0181] In some embodiments, a binder nucleic acid sequence is or comprises a sequence that encodes for a polypeptide sequence. For example, in some embodiments, a binder nucleic acid sequence may contain a region, which encodes for a polypeptide sequence conferring high affinity and/or specificity for a given barcode (*e.g.*, peptide barcode). In some embodiments, a binder nucleic acid sequence is or comprises a sequence that encodes for an antibody. In some embodiments, a binder nucleic acid sequence is or comprises a sequence that encodes for a fragment of an antibody. In some embodiments, a binder nucleic acid sequence is or comprises a sequence that encodes for a single-chain variable Fragment (scFv). As maybe known to those of ordinary skill in the art, a scFv is a fusion protein of the variable regions of the heavy (V_H) and light chains (V_L) of immunoglobulins. In some embodiments, a V_H and V_L chain may be connected with a short linker peptide (*e.g.*, linker of about 5-50 amino acids in length, 10-25 amino acids in length, etc.).

[0182] In some embodiments, for example, a binder is generated to have known specificity and affinity for a given barcode. In some embodiments, a binder is generated to have known specificity and affinity for one barcode. In some embodiments, a binder is generated to have known specificity and affinity for multiple (*e.g.*, two or more, three or more, etc.) barcodes. In some embodiments, a binder is generated to have known specificity and affinity for at least one barcode. In some embodiments, a binder, for example, is expressed on the surface of a binding agent (*e.g.*, a phage, a ribosome, etc.) using methods known to those skilled in the art.

[0183] In some embodiments, a binder associates with a barcode (*e.g.*, with known specificity and affinity).

[0184] In some embodiments, a binder is or comprises a polypeptide sequence that occurs in nature. In some embodiments, a binder is or comprises a polypeptide sequence that does not occur in nature. In some embodiments, a binder is or comprises a polypeptide sequence that is synthetic. In some embodiments, a binder comprises naturally occurring amino acids. In some embodiments, a binder comprises non-naturally occurring amino acids (*e.g.*, modified amino acids).

[0185] Binders of the present invention may be of varying lengths. For example, in some embodiments, a binder may have a length ranging between 5 to 1000 amino acids. In some embodiments, a binder may have a length ranging between 5 to 800 amino acids. In some embodiments, a binder may have a length ranging between 6 to 500 amino acids. In some embodiments, a binder may have a length ranging between 10 to 400 amino acids. In some embodiments, a binder may have a length ranging between 5 to 500 amino acids. In some embodiments, a binder may have a length ranging between 5 to 1000 amino acids. In some embodiments, a binder may have a length of 10 amino acids. In some embodiments, a binder may have a length of at least 5 amino acids. In some embodiments, a binder may have a length of at most 1000 amino acids.

[0186] Binders, as described herein may be available in a library in different formats. For example, in some embodiments a binder as described herein may be described as a nucleic acid sequence. In other instance, a binder as described herein may be described as an amino acid sequence. A person of ordinary skill in the art will appreciate that binders described in one format may be converted to another format using basic biological principles. Accordingly, binders described as nucleic acid sequences may be translated in to proteins, which may be used to detect the presence or absence of a payload (*e.g.*, barcoded payload (*e.g.*, barcoded protein)) in a mixture. Such a translated binder is referred to herein as a polypeptide binder or polypeptide binder moiety.

[0187] Accordingly, binders of the present disclosure when described using nucleic acids may have lengths different from amino acid sequence lengths disclosed in the paragraph above. For example, in some embodiments, a binder may have a length ranging between 15 to 3000 nucleotides. In some embodiments, a binder may have a length ranging between 15 to 2400 nucleotides. In some embodiments, a binder may have a length ranging between 24 to 1500

nucleotides. In some embodiments, a binder may have a length ranging between 30 to 1200 nucleotides. In some embodiments, a binder may have a length of 30 nucleotides. In some embodiments, a binder may have a length of at least 15 nucleotides. In some embodiments, a binder may have a length of at most 3000 nucleotides.

[0188] Binders of the present disclosure may have one or more specific properties. In some embodiments, a binder may be naturally occurring. In some embodiments, a binder may not be naturally occurring (*e.g.*, synthetic). In some embodiments, a binder may not illicit an immune response (*e.g.*, an IgG response, a complement response, etc.).

[0189] Among other things, binders (*e.g.*, polypeptide binders, nucleic acids encoding binders) of the present disclosure, like barcodes discussed above, may be flanked by additional sequences (*e.g.*, nucleic acid sequences, amino acid sequences, etc.). In some embodiments, a binder may be flanked by additional sequences on a binder's 5' end. In some embodiments, a binder may be flanked by additional sequences on a binder's 3' end. In some embodiments, a binder may be flanked by additional sequences on a binder's 3' and 5' end. In some embodiments, an additional sequence may be a primer binding site, a restriction endonuclease recognition sequence, a restriction enzyme site (*e.g.*, a cleavage site), a sequence that encodes an amino acid sequence, a sequence that does not encode an amino acid sequence, an amino acid sequence, or a nucleic acid sequence.

[0190] In one aspect of the present invention, a binder nucleic acid sequence may be associated with (*e.g.*, attached to, linked to) another nucleic acid sequence. For example, in some embodiments, a binder nucleic acid sequence may be associated with a nucleic acid sequence encoding one or more genes. In some embodiments, a binder nucleic acid sequence may be associated with a nucleic acid sequence encoding one or more genes of a phage (*e.g.*, m13). In some embodiments, a binder nucleic acid sequence may be associated with a nucleic acid sequence encoding a polypeptide. In some embodiments, a binder nucleic acid sequence may be associated with a nucleic acid sequence encoding a polypeptide of a phage (*e.g.*, m13 gene3 protein). The binder-gene3 protein fusion can be expressed and incorporated into m13 phage.

[0191] Among other things, binders described herein are designed to have a distinct (i.e. unique) sequence. In some embodiments, a binder is designed to have a distinct sequence (*e.g.*,

distinct from another binder). For example, each binder is designed to be distinct (*e.g.*, unique) from every other binder used in an experiment.

[0192] In one aspect of the present invention, binders bind to barcodes or barcoded payloads, as described herein, with high specificity and high affinity. In some embodiments, a barcode or barcoded payload (*e.g.*, barcoded protein to be measured) binds to one binder, and each binder (*e.g.*, binder with a specific sequence) binds to one barcode or barcoded payload. In some embodiments, a barcode or barcoded payload (*e.g.*, barcoded protein to be measured) binds to at least one binder. In some embodiments, each binder (*e.g.*, binder with a specific sequence) binds to at least one barcode or barcoded payload. In some embodiments, multiple binders (*e.g.*, with different sequences (*e.g.*, polypeptide sequences)) bind to a single barcode. In some embodiments, multiple barcodes (*e.g.*, with different sequences (*e.g.*, peptide sequences)) bind to a single binder.

[0193] Example of binders according to various embodiments of the present disclosure are listed in Tables 1 and 2. In some embodiments, a binder (*e.g.*, polypeptide binder) is or comprises an amino acid sequence selected from SEQ ID NOs: 4200-5346. In some embodiments, a binder (*e.g.*, polypeptide binder) is encoded by a sequence that is or comprises a nucleic acid sequence selected from SEQ ID NOs: 1-1147.

Binding Agents:

[0194] Methods described herein relate to the detection of one or more barcodes using a binding agent. In some embodiments, a binding agent is associated with or comprises a detectable nucleic acid. In some embodiments, a binding agent expresses a detectable nucleic acid. In some embodiments, a binding agent expresses a detectable nucleic acid on its surface (*e.g.*, a binder). In some embodiments, a binding agent expresses an antibody on its surface.

[0195] In some embodiments, for example, to detect the presence of a specific (*e.g.*, distinct) barcode, the present invention envisions the association of a distinct detectable nucleic acid (*e.g.*, a DNA sequence, an RNA sequence, etc.) to a specific barcode. This is achieved through contacting a barcode with a binding agent. In some embodiments, one or more barcodes

may be contacted with a binding agent. In some embodiments, one or more binding agents may be contacted with a barcode.

[0196] In some embodiments, a binding agent may be or comprises a phage, a ribosome, mRNA, DNA etc. In some embodiments, a binding agent is a phage. In some embodiments, a binding agent is may be a M13 phage, T4 phage, T7 phage, Lambda phage, or filamentous phage. In some embodiments, a binding agent is may be a M13 phage.

[0197] Binders as disclosed herein may be expressed on binding agents using methods known in the art. For example, a person of ordinary skill in the art may be able to express a nucleic acid encoding a polypeptide binder on (*e.g.,* on a surface) of a phage using techniques and methods available in the art.

III. Production

Production of Barcodes:

[0198] Disclosed herein are methods and systems for the production of barcodes for use in systems and methods of the present disclosure. In some embodiments, barcodes, as described herein, may be generated rapidly (*e.g.,* in about a week, about 2 weeks, about 3 weeks, about 4 weeks, about 1 month, about 2 months, about 3 months, about 4 months, about 5 months, about 6 months, or about 1 year) . In some embodiments, for example, between about 100 to about 1,000 barcodes may be generated rapidly. In some embodiments, between about 10 to about 1000 barcodes may be generated rapidly. In some embodiments, between about 10 to about 10,000 barcodes may be generated rapidly. While large numbers of barcodes, as described herein, may be generated rapidly, such barcodes are also robust, in that barcodes generated using the methods disclosed herein may bind specifically and with different affinities to a known set of binders.

[0199] In accordance with various embodiments, barcodes as described herein may be synthesized using a nucleic acid (*e.g.,* oligonucleotide) array. In some embodiments, barcodes as described herein may be synthesized using a DNA array. In some embodiments, nucleic acids (*e.g.,* oligonucleotides) of a nucleic acid array are expressed in to barcodes. In some embodiments, barcodes as described herein may be synthesized using nucleic acid library. In

some embodiments, a nucleic acid library is synthesized using a nucleic acid array. In some embodiments, nucleic acids (*e.g.*, oligonucleotides) of a nucleic acid library are expressed in to barcodes.

[0200] In some embodiments, a barcode nucleic acid library comprises about 1 or more, about 2 or more, about 3 or more, about 4 or more, about 5 or more, about 10 or more, about 50 or more, about 100 or more, about 200 or more, about 300 or more, about 400 or more, about 500 or more, about 600 or more, about 700 or more, about 800 or more, about 900 or more, about 1000 or more, about 2000 or more, about 3000 or more, about 4000 or more, or about 5000 or more potential barcodes. In some embodiments, a nucleic acid library comprises one or more potential barcode sequences. Such potential barcode sequences may be screened for functionality as peptide barcodes (i.e. after translation of potential barcode nucleic acid sequences) using one or more methods described herein.

[0201] Barcodes of the present disclosure may be screened for one or more specific properties. In some embodiments, a barcode may be screened for specific binding (*e.g.*, specificity, binding affinity) to a binder. In some embodiments, a barcode may be screened for specific binding to one or more binders. In some embodiments, a barcode may be screened for specific binding to at least a binder. In some embodiments, a barcode may be screened for specific binding to at most a binder. In some embodiments, a barcode may be screened for specific binding to multiple binders.

[0202] As may be understood by a person of ordinary skill in the art, a barcode is designed to be distinct (i.e. unique (*e.g.*, have a unique sequence)) in a pool of barcodes. Such distinction may be achieved, in some embodiments, by changing one or more amino acids in a barcode. In some embodiments, a barcode is distinct from other barcodes in a pool of barcodes by 1 amino acid. In some embodiments, a barcode is distinct from other barcodes in a pool of barcodes by at least 1 amino acid. In some embodiments, a barcode is distinct from other barcodes in a pool of barcodes by at most 1 amino acid. In some embodiments, a barcode is distinct from other barcodes in a pool of barcodes by 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25 amino acids. In some embodiments, a barcode is distinct from other barcodes in a pool of barcodes by at least 2 amino acids. In some embodiments, a barcode is distinct from other barcodes in a pool of barcodes by at most 50 amino acids.

Production of Barcoded Payloads:

[0203] Barcoded payloads in accordance with the present invention may be produced in various ways. In some embodiments, payload-barcode nucleic acid sequence pairs may be inserted into a plasmid to allow for expression in different expression systems (*e.g.*, protein expression systems). In some embodiments, at least one payload-barcode nucleic acid sequence pair is inserted into a plasmid. In some embodiments, at least two payload-barcode nucleic acid sequence pairs are inserted into a plasmid. In some embodiments, at least three payload-barcode nucleic acid sequence pairs are inserted into a plasmid. In some embodiments, one or more payload-barcode nucleic acid sequence pairs are inserted into a plasmid.

[0204] In some embodiments, a payload-barcode nucleic acid sequence may comprise additional sequences. In some embodiments, a payload-barcode nucleic acid sequence may comprise additional nucleic acid sequences. In some embodiments, a payload-barcode nucleic acid sequence may comprise a universal motif sequence. In some embodiments, a payload-barcode nucleic acid sequence may comprise at least one universal motif sequence. In some embodiments, a payload-barcode nucleic acid sequence may comprise at least two universal motif sequences. In some embodiments, a payload-barcode nucleic acid sequence may comprise two or more universal motif sequences.

[0205] In some embodiments, at least one payload-barcode nucleic acid sequences in a pool of payload-barcode nucleic acid sequences may comprise a universal motif sequence. In some embodiments, all payload-barcode nucleic acid sequences in a pool of payload-barcode nucleic acid sequences may comprise a universal motif sequence.

[0206] Different plasmids may be used to produce technologies described herein. In some embodiments, a plasmid is a DNA plasmid. In some embodiments, a plasmid is an RNA plasmid. In some embodiments, a plasmid is a fertility F-plasmid. In some embodiments, a plasmid is a resistance plasmid. In some embodiments, a plasmid is a virulence plasmid. In some embodiments, a plasmid is a degradative plasmid. In some embodiments, a plasmid is a Col plasmid.

[0207] Different hosts (*e.g.*, host cell, host cell line, etc.) may be used to produce technologies described herein. In some embodiments, a host is a mammalian host. In some embodiments, a host is a non-mammalian host. In some embodiments, a host is an insect. In some embodiments, a host is a bacteria. In some embodiments, a host is *E. coli*.

[0208] In some embodiments, a payload-barcode pair is expressed *in vitro*. In some embodiments, a payload-barcode pair is expressed *in vivo*. In some embodiments, a payload-barcode pair is expressed from RNA. In some embodiments, a payload-barcode pair is expressed from transcribed RNA. In some embodiments, a payload-barcode pair is expressed from DNA. In some embodiments, a payload-barcode pair is expressed using protein components (*e.g.*, required for protein translation).

[0209] After expression of barcoded payload constructs, constructs may be purified from the pool. In some embodiments, purification may be performed using a universal motif. In some embodiments, purification may be performed using HIS tag, FLAG tag, HALO tag, SNAP tag, Avitag, Twin strep tag, or any other tag based method of protein purification known in the art.

Production of Binders:

[0210] Disclosed herein are methods and systems for the production of binders for use in systems and methods of the present disclosure. In some embodiments, binders, as described herein, may be generated rapidly (*e.g.*, in about a week, about 2 weeks, about 3 weeks, about 4 weeks, about 1 month, about 2 months, about 3 months, about 4 months, about 5 months, about 6 months, or about 1 year) . In some embodiments, for example, between about 100 to about 1000 binders may be generated rapidly. In some embodiments, between about 10 to about 1000 binders may be generated rapidly. In some embodiments, between about 10 to about 10,000 binders may be generated rapidly. While large numbers of binders, as described herein, may be generated rapidly, such binders are also robust, in that binders generated using the methods disclosed herein may bind specifically and with different affinities to a known set of barcodes.

[0211] In some embodiments, a binder nucleic acid library comprises about 1 or more, about 2 or more, about 3 or more, about 4 or more, about 5 or more, about 10 or more, about 50 or more, about 100 or more, about 200 or more, about 300 or more, about 400 or more, about

500 or more, about 600 or more, about 700 or more, about 800 or more, about 900 or more, about 1000 or more, about 2000 or more, about 3000 or more, about 4000 or more, or about 5000 or more potential binders. In some embodiments, a nucleic acid library comprises one or more potential binder sequences. Such potential binder sequences may be screened for functionality as polypeptide binders (i.e. after translation of potential nucleic acid binder sequences) using one or more methods described herein.

[0212] Binders in accordance with the present invention may be produced in various ways. In some embodiments, a binder nucleic acid sequence may be inserted into a plasmid to allow for expression in different expression systems. In some embodiments, at least one binder nucleic acid sequence is inserted into a plasmid. In some embodiments, at least two binder nucleic acid sequences are inserted into a plasmid. In some embodiments, at least three binder nucleic acid sequences are inserted into a plasmid. In some embodiments, one or more binder nucleic acid sequences are inserted into a plasmid.

[0213] In some embodiments, a binder nucleic acid sequence is attached to one or more genes. In some embodiments, a binder nucleic acid sequence is attached to one or more genes prior to insertion in to a plasmid. In some embodiments, a binder nucleic acid sequence is attached to one or more genes after insertion in to a plasmid. In some embodiments, a binder nucleic acid sequence is attached to a bacteriophage gene. In some embodiments, a binder nucleic acid sequence is attached to an m13 bacteriophage gene. In some embodiments, a binder nucleic acid sequence is attached to gene 3 (i.e. that encodes for gene 3 protein) of m13 bacteriophage.

[0214] In some embodiments, plasmids (*e.g.*, containing binder sequences, containing binder and bacteriophage sequences, etc.) may be transformed in to a host. In some embodiments, plasmids may be transformed in to a host and expressed. In some embodiments, plasmids are transformed in to a bacterium. In some embodiments, plasmids are transformed in to *E. coli*.

[0215] In some embodiments, expression of plasmids results in phage production. In some embodiments, expression of plasmids results in display of a binder on a surface of a phage. In some embodiments, expression of plasmids results in display of two binders on a surface of a

phage. In some embodiments, expression of plasmids results in display of at least one binder on a surface of a phage. In some embodiments, expression of plasmids results in display of one or more binders on a surface of a phage. In some embodiments, expression of plasmids results in display of one or more binders on one or more surfaces of a phage. In some embodiments, expression of plasmids results in display of at least one binder on one or more surfaces of a phage.

[0216] Following phage production, the resulting pool may be purified to determine the presence of one or more polypeptide binders. In some embodiments, purification may be performed using a universal motif. In some embodiments, purification may be performed using HIS tag, FLAG tag, HALO tag, SNAP tag, Avitag, Twin strep tag, or any other tag based method of protein purification known in the art.

[0217] In some embodiments, a purified binder pool may be highly diverse. In some embodiments, a purified binder pool may not be highly diverse. In some embodiments, a purified binder pool is subjected to screening methods to select binders of interest.

[0218] Binders of the present disclosure may be screened for one or more specific properties. In some embodiments, a binder may be screened for specific binding to a barcode. In some embodiments, a binder may be screened for specific binding to one or more barcodes. In some embodiments, a binder may be screened for specific binding to at least a barcode. In some embodiments, a binder may be screened for specific binding to at most a barcode. In some embodiments, a binder may be screened for specific binding to multiple barcodes.

[0219] As may be understood by a person of ordinary skill in the art, a binder is designed to be distinct (i.e. unique (*e.g.*, have a unique sequence)) in a pool of binders. Such distinction may be achieved, in some embodiments, by changing one or more amino acids in a binder. In some embodiments, a binder is distinct from other binders in a pool of binders by 1 amino acid. In some embodiments, a binder is distinct from other binder in a pool of binders by at least 1 amino acid. In some embodiments, a binder is distinct from other binder in a pool of binders by at most 1 amino acid. In some embodiments, a binder is distinct from other binder in a pool of binders by 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25 amino acids. In some embodiments, a binder is distinct from other binder in a pool of binders by

at least 2 amino acids. In some embodiments, a binder is distinct from other binder in a pool of binders by at most 1000 amino acids.

IV. Characterization

Samples:

[0220] As described elsewhere in the present disclosure, a sample may be a biological sample. In some embodiments, a sample may contain one or more barcoded payloads. In some embodiments, a sample may contain one or more barcoded proteins.

[0221] In some embodiments, a sample is derived from an organism. In some embodiments, a sample is derived from an animal. In some embodiments, a sample is derived from an animal model of disease. In some embodiments, a sample is derived from a non-mammal. In some embodiments, a sample is derived from a mammal (*e.g.*, a rodent, a mouse, a rat, a rabbit, a monkey, a dog, a cat, a sheep, cattle, a primate, and/or a pig). In some embodiments, a sample is derived from a mouse. In some embodiments, a sample is derived from a human. In some embodiments, a sample is derived from cells (*e.g., in vitro*). In some embodiments, a sample is a human cell line.

[0222] In some embodiments, a sample may be purified. In some embodiments, a sample may not be purified.

[0223] In some embodiments, a sample is obtained from cells that was treated with barcoded payloads. In some embodiments, a sample is obtained from cells that was not treated with barcoded payloads. In some embodiments, a sample is obtained from an animal that was treated with barcoded payloads. In some embodiments, a sample is obtained from an animal that was not treated with barcoded payloads. For example, in some embodiments, a sample is obtained from a human that was treated with barcoded proteins.

[0224] In some embodiments, a sample is obtained from cells that was genetically modified. In some embodiments, a sample is obtained from cells that was modified by gene therapy. In some embodiments, a sample is obtained from cells that was genetically modified to include one or more barcoded payloads. In some embodiments, a sample is obtained from cells

that was genetically modified to express a barcoded payloads. In some embodiments, a sample is obtained from cells that was genetically modified to include one or more barcodes. In some embodiments, a sample is obtained from cells that was genetically modified to express a barcodes. In some embodiments, a sample is obtained from cells that was genetically modified to include one or more binders. In some embodiments, a sample is obtained from cells that was genetically modified to express a binders.

[0225] In some embodiments, a sample is obtained from an animal that was genetically modified. In some embodiments, a sample is obtained from an animal that was modified by gene therapy. In some embodiments, a sample is obtained from an animal that was genetically modified to include one or more barcoded payloads. In some embodiments, a sample is obtained from an animal that was genetically modified to express a barcoded payloads. In some embodiments, a sample is obtained from an animal that was genetically modified to include one or more barcodes. In some embodiments, a sample is obtained from an animal that was genetically modified to express a barcodes. In some embodiments, a sample is obtained from an animal that was genetically modified to include one or more binders. In some embodiments, a sample is obtained from an animal that was genetically modified to express a binders.

Fingerprints:

[0226] Among other things, systems and methods described herein identify the advantages of nucleic acid sequencing techniques and apply them effectively to protein detection and measurement methods. For example, methods described herein may use several binders, with known binding specificities and affinities to different barcodes, that can be expressed on binding agents and mixed together in a single pool. Upon mixing with a pool of barcoded proteins (i.e. proteins, each associated with a barcode as described herein), each binder expressed on a binding agent binds to a one or more barcodes in the pool with known but varying affinities. Such a spectrum of affinities for a given barcode to one or more binders results in a distinct distribution of binder counts for a given barcode that can be determined through NGS, and is termed herein a 'Barcode Fingerprint'. In some embodiments, the collective barcode fingerprints for a set of barcodes is termed herein a 'Fingerprint Matrix'. Analogously, a spectrum of

affinities of a binder to various (*e.g.*, one or more) barcodes is termed herein as a 'Binder Fingerprint'. In some embodiments, using the provided technologies the presence of a barcoded protein(s) can be detected, for example, in a complex solution, by extracting and sequencing the associated nucleic acid (*e.g.*, detectable nucleic acid (*e.g.*, DNA sequence, RNA sequence, etc.)) of the population of binding agents (*e.g.*, phage) that bind to the barcoded protein(s). That is, for example, in some embodiments, the presence of a protein in a complex solution is determined not through a single binder, but through a specific combination of multiple binders that bind to a barcode associated with said protein in fixed, known proportions.

[0227] Fingerprints, as disclosed herein, have many advantages. In some embodiments, a fingerprint approach of detection allows for reduction of noise. For example, the use of multiple binders to detect a barcode in a complex solution introduces a redundancy into the detection methods that in turn reduces signal noise. Additionally, another advantage of the "fingerprint" approach is that partial non-specificities in the binders (*e.g.*, to barcodes other than the barcode of interest to be detected) can be tolerated and compensated for by the computational prediction methods.

[0228] In some embodiments, binder sequences may be modified in order to change a fingerprint. In some embodiments, binder sequences may be modified in order to improve a fingerprint.

[0229] A barcode fingerprint, as described herein, for a given barcode may include affinity information of a given barcode to one or more binders. In some embodiments, a barcode fingerprint may include affinity information of a given barcode to one binder. In some embodiments, a barcode fingerprint may include affinity information of a given barcode to at least one binder. In some embodiments, a barcode fingerprint may include affinity information of a given barcode to 2, 3, 4, 5, 10, 20, 25, 50, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000, or 10,000 or more binders. In some embodiments, a barcode fingerprint may include affinity information of a given barcode to at most 10,000 binders.

[0230] A binder fingerprint, as described herein, for a given binder may include affinity information of a given binder to one or more barcodes. In some embodiments, a binder

fingerprint may include affinity information of a given binder to one barcode. In some embodiments, a binder fingerprint may include affinity information of a given binder to at least one barcode. In some embodiments, a binder fingerprint may include affinity information of a given binder to 2, 3, 4, 5, 10, 20, 25, 50, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000, or 10,000 or more barcodes. In some embodiments, a binder fingerprint may include affinity information of a given binder to at most 10,000 barcodes.

[0231] As discussed herein, in some embodiments, multiple barcode fingerprints for a set of barcodes may be grouped together and is termed herein a 'Fingerprint Matrix'. In some embodiments, a fingerprint matrix may comprise one barcode fingerprint. In some embodiments, a fingerprint matrix may comprise at least one barcode fingerprint. In some embodiments, a fingerprint matrix may comprise 2, 3, 4, 5, 10, 20, 25, 50, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000, or 10,000 or more barcode fingerprints. In some embodiments, a fingerprint matrix may comprise at most 10,000 barcode fingerprints.

[0232] The technologies described herein allow for the generation and characterization of unique fingerprints for each barcode. This allows, for example, availability of methods of payload (i.e. target (*e.g.*, protein)) detection that may not require orthogonality between barcode-binder pairs. In some embodiments, barcode-binder pairs may be orthogonal. In some embodiments, barcode-binder pairs may not be orthogonal. As may be evident to a person of ordinary skill in the art, barcode-binder pairs as described herein provide the advantage of being more robust, as the availability of unique fingerprints makes non-specific binding less of a concern, a major advantage in complex environments (*e.g.*, serum, blood, etc.).

Decoding:

Analysis

[0233] A key component of the invention is the method used to deduce relative or absolute protein concentrations from the DNA sequencing of binders. In the invention, the DNA sequences are translated in silico into amino acid sequences corresponding to each binder and

tabulated to yield a table of binder counts. The binder count table measured for any given barcode in isolation is henceforth known as a "fingerprint" of a barcode. When applying the invention to an unknown mixture of barcoded payloads, the relative or absolute abundance of individual barcodes is determined by comparing the binder count table to the predetermined fingerprints of the individual barcodes and applying a computational prediction method described below. In some embodiments, the binder count table of a mixture of m unknown barcodes is assumed to be a linear combination of their respective fingerprints; the coefficients of the linear combination are inferred through least-squares fitting of the equation $A x = b$, where A is an n-by-m matrix of fingerprints, b is a length-n vector of binder counts, and x is an undetermined length-m vector of the abundances of each of the barcodes. In some embodiments, the abundances of each of the barcodes is inferred using a Bayesian method, whereby a suitable prior probability distribution over the barcode abundances is assumed, a likelihood ratio of the observed count table given barcode abundances is calculated from a model of the uncertainties in the experimental system, and a posterior probability distribution is inferred the product of the prior with the likelihood ratio. In some embodiments, the posterior distribution is estimated using Monte Carlo sampling methods. In some embodiments, the maximum of the posterior distribution is determined with a computational optimization procedure. In some embodiments, the binder count table is assumed to be a non-linear function of the abundances of various barcodes to account for saturation of particular barcode-binder interactions or competition between distinct barcodes or distinct binders.

[0234] In some embodiments, relative proportions of binder counts are compared directly in order to determine relative proportions of barcodes. In some embodiments, sequences of known abundance are mixed into the experiment, and utilized to determine the absolute abundance of a given binder, which is used to estimate an absolute concentration for a barcode.

V. Use

Assessing Payloads:

[0235] Technologies described herein may be used to detect, assess, and/or characterize payloads (*e.g.*, proteins). In some embodiments, provided technologies may be used, for

example, to assay payloads in complex environments (*e.g.*, serum, blood, tissue, etc.). In some embodiments, payloads may be proteins. In some embodiments, payloads may be therapeutic proteins.

[0236] As described herein, a payload may be associated with a barcode (i.e. a barcoded payload). In some embodiments, a barcoded payload may be assayed using binding agents (*e.g.*, phages with binders expressed on them) using methods as described herein. In some embodiments, a barcoded payload may be captured (*e.g.*, using affinity reagents) on a surface (*e.g.*, beads or plates). In some embodiments, a barcoded payload may be immobilized for barcode assaying. In some embodiments, a barcoded payload is contacted with one or more binders and subject to decoding as described herein.

[0237] In some embodiments, payloads may be detected, assessed, and/or characterized *in vitro*. In some embodiments, payloads may be detected, assessed, and/or characterized *in vivo*.

[0238] In some embodiments, methods described herein determine simultaneous *in vivo* assessment of phenotypes of payloads in multiple tissues. In some embodiments, a phenotype includes biodistribution information related to payloads. In some embodiments, a phenotype includes pharmacokinetic (clearance) information of payloads. In some embodiments, a phenotype includes half-life information of payloads. In some embodiments, a phenotype includes tissue-mediated drug disposition (TMDD) of payloads. In some embodiments, a phenotype includes properties related to *in vivo* stability of payloads. In some embodiments, multiple phenotypes of payloads may be determined simultaneously.

Kits:

[0239] Technologies as described herein may be provided in the form a composition. For example, in some embodiments, a composition may comprise one or more elements (*e.g.*, nucleic acid, amino acid, etc.) to produce or generate one or more barcodes and/or binders as described herein. In some embodiments, a composition may comprise one or more elements to produce or generate a set of barcodes. In some embodiments, a composition may comprise one or more elements to produce or generate a set of binders. In some embodiments, a composition may comprise one or more elements to produce or generate a pool of barcode-binder pairs. In some

embodiments, a composition may comprise one or more elements to produce or generate binding agents (*e.g.*, phage expressing binders). In some embodiments, a composition may be a barcode composition. In some embodiments, a composition may be a binder composition. In some embodiments, a composition may be a barcode-binder composition. In some embodiments, a composition may be a binding agent composition. In some embodiments, a composition may comprise one or more of barcodes, binders, binding agents, and/or components thereof. In some embodiments, a composition may comprise one or more sets/pools of barcodes, binders, binding agents, and/or components thereof.

[0240] Provided herein are compositions comprising barcodes, binders, binding agents, or components thereof. In some embodiments, a composition comprises barcodes, binders, binding agents, components thereof and/or combinations thereof, which have been assessed, identified, characterized or assayed using methods as described herein. In some embodiments, a composition provided herein comprises one or more, two or more, three or more, four or more, five or more, six or more, seven or more, eight or more, nine or more, or ten or more barcodes, binders, binding agents, components thereof and/or combinations thereof, which have been assessed, identified, characterized or assayed using methods as described herein.

[0241] In some embodiments, a composition provided herein comprises two or more, three or more, four or more, five or more, six or more, seven or more, eight or more, nine or more, or ten or more nucleic acid sequences or amino acid sequences as listed in Table 1 or Table 2.

[0242] A composition as described herein may be formulated in various forms. For example, in some embodiments, a composition as described herein may be formulated in a powder form (*e.g.*, lyophilized). In some embodiments, a composition as described herein may be formulated in a liquid form.

[0243] In some embodiments, compositions for use in accordance with the present disclosure are pharmaceutical compositions, *e.g.*, for administration (*e.g.*, topical, oral, subcutaneous, intravenous, intramuscular, intracerebral, intrathecal, rectal (*e.g.*, rectal intubation), opthalmical, intravitreal, or suprachoroidal administration) to a subject (*e.g.*, a mammal (*e.g.*, a human)). In some embodiments, such compositions are administered to a

subject to detect, characterize, and/or assess one or more attributes of one or more payloads administered or to be administered to the subject. Pharmaceutical compositions typically include an agent to be administered (*e.g.*, barcodes, binders, binding agents, and/or components thereof), and a pharmaceutically acceptable carrier. Certain exemplary pharmaceutically acceptable carriers include, for instance saline, solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. Pharmaceutical compositions are typically formulated to be compatible with its intended route of administration. Examples of routes of administration include topical, oral, subcutaneous, intravenous, intramuscular, intracerebral, intrathecal, rectal, (*e.g.*, rectal intubation), opthalmical, intravitreal, or suprachoroidal administration.

[0244] In some embodiments, pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of a pharmaceutical composition. In some particular embodiments, a pharmaceutical composition can contain, *e.g.*, any one or more of the following inactive ingredients, or compounds of a similar nature: a binder, an excipient, a lubricant, a glidant, or some similar such compound.

[0245] Compositions can be included in a kit, container, pack, or dispenser, together with instructions for administration (*e.g.*, to a subject) or for use in a method described herein. In some embodiments, instructions may include methods to reconstitute a powder form composition to a liquid form composition for further use. In some embodiments, a kit may include instructions that allows a user to generate new set of binders for a new set of barcodes. In some embodiments, a kit comprises a set of instructions to perform sequencing of one or more phage particles bound to one or more barcodes.

[0246] In some embodiments, a kit comprises information designating peptide barcodes for each binder. In some embodiments, a kit comprises a computer readable program for decoding sequencing data.

[0247] In some embodiments, a kit comprises reagents to express a binder on a phage particle. In some embodiments, a kit comprises nucleic acids that encode one or more barcodes. In some embodiments, a kit comprises nucleic acids that encode one or more binders.

[0248] Those skilled in the art, reading the present disclosure, will appreciate that, in some embodiments, a composition (*e.g.*, a binder composition, a barcode composition, a binding agent composition, etc.) as described herein may be or comprise one or more cells, tissues, or organisms (*e.g.*, plant or microbe cells, tissues, virus, or organisms) that produce (*e.g.*, have produced, and/or are producing) a relevant binder, barcode, and/or binding agent as described herein.

[0249] Those skilled in the art will appreciate that, in some embodiments, technologies for preparing compositions and/or preparations, and/or for preparing (and particularly for preparing pharmaceutical compositions) may include one or more steps of assessing or characterizing a compound, preparation, or composition, *e.g.*, as part of quality control. In some embodiments, if an assayed material does not meet pre-determined specifications for the relevant assessment, it is discarded. In some embodiments, if such assayed material does meet the pre-determined specifications, then it continues to be processed as described herein.

[0250] In some embodiments, a composition is tailored to a specific subject (*e.g.*, a specific mammal, *e.g.*, a patient). In some embodiments, a composition is specific for a payload to be assessed for an individual subject (*e.g.*, mammal (*e.g.*, human, mouse, etc.)). In some embodiments, a composition is specific for payloads to be assessed for an individual subject (*e.g.*, mammal (*e.g.*, human, mouse)). In some embodiments, a composition is specific for payloads of a population of subjects (*e.g.*, mammals (*e.g.*, humans, mice, etc.)). Populations of subjects can include, but are not limited to: families, subjects in the same regional location (*e.g.*, neighborhood, city, state, or country), subjects with the same disease or condition, subjects of a particular age or age range, subjects that consume a particular diet (*e.g.*, food, food source, or caloric intake).

EXEMPLIFICATION

Example 1: Identification of barcodes, corresponding binding agents, and determining fingerprints

[0251] The present Example demonstrates methods for identifying barcodes, corresponding binding agents (*e.g.*, binders expressed on binding agents), and determining

fingerprints (*e.g.*, barcode fingerprints) and using the information to determine the proportion of a barcode in a given mixture. The resulting materials can then be used to measure and quantify different payloads.

Design and synthesis of a barcode library:

[0252] Barcode sequences were designed which contain specific sequence motifs thought to fold into a given helical or loop structure. All sequences from the Protein Data Bank (PDB) were downloaded, along with their corresponding secondary structure predictions. Sequences were selected and subsetted from the full sequence if they met the criteria of: being a contiguous helix or loop sequence for a length of 8-25 amino acids. A random subset of 100,000 of the peptide sequences matching this criteria were then ordered as an oligo pool, containing constant overhangs and type IIS sites for cloning into a vector (see FIG. 1B).

Cloning barcode library into expression plasmid:

[0253] The designed pool of barcodes was cloned into a pET expression vector to yield a barcode attached to a payload protein. A plasmid was constructed containing 6xHIS-HALO-TEV-LN-IIS-LC, allowing for direct cloning of the oligo pool via golden gate assembly. LN and LC represent the constant overhangs in the oligo pool used for ligation (FIG. 1B). 1 µg of vector was predigested with BsaI at 37° C and purified. Oligo pools were amplified via Polymerase Chain Reaction (PCR). A 1:10 molar ratio of purified vector and insert were added to a golden gate assembly reaction using NEB golden gate assembly mix (Cat: E1601S), and incubated at 37°C for 1 hour, then heat killed at 70°C for 5 min. This material was then purified, drop dialyzed into pure H_20 for 60 min, and electroporated into electrocompetent BL21 bacteria (lucigen). Serial dilution were plated to recover individual colonies. Colonies were then picked, grown in media containing 1% glycerol and 100 µg/ml carbenicillin, and glycerol stocked in 20% glycerol at -80°C. After cloning, a construct is generated containing a barcode attached to a protein using a linker (FIG. 1A).

Expression of individual barcodes:

[0254] Expression was performed either using *in vitro* transcription translation (IVTT) or BL21 induction. For IVTT, PCR was performed directly from glycerol stock by adding primers specific for T7 and T7 terminator sequences in BL21. The resulting amplicon contains T7 and T7 terminator for expression, and makes the protein **8xHIS-HALO-TEV-LN-Barcode-LC**. 1 µL of PCR product, containing approximately 50 ng of DNA was added to a 10 µL IVTT reaction using NEBPure (cat no: E6800S) assembled according to the manufacturer's instructions. The reaction was then incubated for 4 hours at 37°C. For *escherichia coli* (*E. coli*) expression, cultures were grown to an OD of 0.5 at 37°C, then induced using Isopropyl β-d-1-thiogalactopyranoside (IPTG) and grown overnight at 25°C. Cells were lysed the next day using sonication in the lysis buffer, and the lysed material separated from the inclusion bodies via centrifugation, taking the supernatant containing protein. Supernatant was purified using affinity chromatography Ni-NTA resin, and stored for future use.

Capture of individual barcodes on HALO magnetic beads:

[0255] 10 µL of IVTT was diluted to 50 µL in PBS supplemented with BSA at 1mg/ml . To this mixture, 30 µL of Halo tag magnetic beads (cat: G7281) were added, and incubated with shaking at 400 rpm for 2 hours, then 4°C with shaking overnight. Beads were captured on magnetic stand, and the supernatant removed. The beads were then washed 2x with PBS-T with 0.1% Tween 20 (PBS-T). A schematic of a captured barcode is shown in FIG. 3B.

Construction of a phage display library containing binders with varying affinities to barcodes:

[0256] Binders with strong affinities to at least one barcode were generated via methods known to those skilled in the art (*e.g.*, phage display, hybridoma, etc.). These binders were then displayed on phage as scFv fragments fused to m13 gene 3 protein (g3). Briefly, oligos containing the scFv binding sequences were generated via DNA synthesis. The oligo were cloned into a plasmid containing the constant regions of the scFv connected to G3 via a G4S linker (SEQ ID NO.: 8399) and myc tag. 30 µg of the library was electroporated into TG1

(lucigen) and plated on several 25 mm plates containing carbenecllin at 100 µg/ml and glucose 1%. Dilutions of electroporation were plated for diversity analysis. The Q trays were scraped and glycerol stocked. To produce phage, a 2L culture was inoculated at ~ OD 0.05 and grown to OD 0.5 at 37˚C with 100 µg/ml carbenicillin and 1% glycerol. At OD 0.5, helper phage was added at a 10:1 phage:cell ratio, and incubated with shaking at 250 rpm. After 1 hour, shaking was reduced to 150 rpm and temperature to 30˚C, and incubated overnight. The next day, phage was prepared via PEG precipitation (Barbas et al. 2001), resuspended in 10 mL, and titered. Phage was stored at 4˚C until use.

Assessment of phage-binder-barcode interaction:

[0257] 10 µL of the phage library prepared using methods described above was added to the captured barcode and incubated at room temperature for 2 hours, to allow binding of the phage to the barcode (FIG. 3C). After incubation, the mixture was washed by successive transfers of the magnetic beads to fresh PBS-T 3 times. Phage were eluted from beads by resuspension in PBS containing TEV protease + 0.1% DTT and incubation at 37˚C for 30 min. Beads were collected on a magnetic stand, and the supernatant collected. To the supernatant, trypsin was added and further incubated for 30 min. To propagate phage, the supernatant was added to 50 mL of TG1 *E. coli* grown at 37˚C to an OD of 0.5 in 2xYT and incubated with shaking at 37˚C for 1 hour. Then 100 µg/ml carbenicillin and 1% glucose were added with incubation under the same conditions for 1 hr. Helper phage (cat: PH050L) was added and further incubated for 1 hour at 37˚C. The culture was centrifuged and placed into new media containing 100 µg/ml carbenicillin and 50 µg/ml kanamycin, and incubated overnight at 30˚C. Following this, centrifugation at 4000g for 20 minutes was performed, and the supernatant containing phage was collected.

Analysis and establishment of a fingerprint for a given barcode:

[0258] After selection was performed from the original phage pool against each barcode individually, phage-scfv (i.e. phage-binder) selectivity was analyzed via NGS. Phage were lysed via heating at 98˚C for 10 minutes, and the resulting genomes were PCRed using primers which

flank the CDR regions of both the heavy CDR3 (5 prime) and light chain CDR3 (3 prime). A second round of PCR was performed to add required illumina sequences (i5/i7, sequencing primer binding region) for NGS. The result DNA was pooled, quantified and subject to NGS using an Illumina instrument. This process is shown in FIG. 2 and FIGS. 3A-3C.

[0259] NGS reads are demultiplexed using the illumina software bcl-convert, such that each final .fastq contains the DNA sequences from a given phage CDR3 pair which correspond to the output from a given barcode well. The corresponding CDR3 sequences are then counted using a computer program, revealing the distribution of binders present for a given barcode. The fingerprint of a barcode corresponds to the vector of counts for each scFv binder within the given pool. Each fingerprint is the median of n=3 individual barcode replicates. The process and resulting fingerprint for a single barcode using the pool of phage binders is shown in FIG. 4.

Determination of proportion of barcodes in a given mixture using a fingerprint matrix:

[0260] Once the fingerprints of each barcode of a set of barcodes have been determined, the proportions of barcodes in an unknown sample were measured in the following manner. The binder-barcode interactions were assessed as described above, and the resulting NGS readout was fit to a linear combination of the known fingerprints via least squares. That is, the coefficients of the linear combination are chosen by minimizing the sum of squares of the differences between the measured NGS count and the expected NGS count for all binding species as described in Example 8. The expected NGS count is given by the matrix product of the fingerprint matrix with a set of barcode abundance coefficients. Once the coefficients have been obtained, they are normalized to sum to 1 to obtain proportions.

Decoding of equal proportion barcode mixture to asses fingerprint scaling:

[0261] In order to determine any scaling issues that may arise due to varying affinities between binders and barcodes, a scaling factor is generated via a measurement of barcodes mixed in equal proportions. Briefly, all barcodes validated are mixed at even concentrations after production. Phage binder interactions were assessed as described above, and the resulting phage

was subject to NGS. Using the fingerprints determined for individual barcodes above, the proportion of barcodes in the mixture was estimated via least squares regression as described in Example 8. The proportions predicted using the least squares form the basis for scaling factors (sf) where sf = 1/p , where p=proportion predicted. The process is described in FIG. 5.

Assessment of mixtures of barcodes of known proportions:

[0262] Barcodes produced above were mixed at known proportions and subject to assessment to determine their accuracy. Barcodes where mixed at different proportions (FIG. 6A), and then analysis of phage binder (i.e. binding agent) interactions was performed as described above. The NGS counts for each binder within the pool were counted. Least squares was used to determine the proportion of barcodes given the fingerprint constructed above using single barcodes. Predictions from the least squares analysis were then rescaled using the established scaling factor by p' = p*sf, where p' is the new prediction, p is the original prediction and sf is the established scaling factor. The new predictions are then re-normalized to sum to 1.

[0263] FIG. 6B shows the accuracy of proportion measurement for this method. Six (6) different barcodes were measured, normalized via a scaling factor, and relative barcode proportions were estimated with a global pearson correlation of .95 across all measurements made. Measurements were across a 100 fold gradient of barcodes. FIG. 6C shows a plot of NGS count values, normalized to counts per million, for each single barcode measurement as well as mixture that were used to predict the relative abundance of each barcode within the mixture. Rows are experiments, thus all values in a row are generated from a single .fastq file and columns are binding agents.

Example 2: *In vitro* detection of a payload in a mixture using binder-barcode platform

[0264] The present example demonstrates a method of measuring the presence or absence of a given payload in a mixture using a binder-barcode platform as described herein.

[0265] Barcodes generated in Example 1 were transferred onto a novel payload using DNA cloning. Briefly, barcodes were amplified out of the pET 6xHIS-HALO-TEV-LN-

Barcode-LC such that the LN-Barcode-LC part is amplified. The barcode insert was cloned using gibson into a new pET vector containing 6xHIS-Payload-LN-Barcode-LC, where payload was a novel protein of interest. Payload-barcodes were produced in *E. coli* as described above. Barcoded payload proteins are then purified via affinity chromatography using Ni NTA, washed in 500 mM NaCl, 50 mM Tris-HCl, 50 mM imidazole, and eluted using 500 mM imidazole. Barcoded payload proteins were then subject to decoding using the phage binder library described in Example 1. FIGS. 6, 9, and 12 show experimental setups to detect payload using barcodes previously generated in a different context, and results of such experiments thus showing these barcodes contain generalized detection properties across varying numbers of barcodes within a pool.

[0266] In the experiment described in FIG. 9, six unique barcodes (BC1, BC2, BC3, BC4, BC5, and BC6) were mixed at known proportions, contacted with binding agents, and subjected to decoding as described herein (FIG. 9A). Two barcodes were experimentally held out as negative controls, but prediction for these barcodes was allowed, thus allowing determination of background prediction. FIGS. 9B and 9C show data on accuracy of decoding procedure across a 10-fold range of concentrations for the 6 unique barcodes. FIG. 9B shows plot of actual data (input) and measured data obtained after decoding for one mixture of known barcode concentrations. Input known concentrations (left bar) are shown next to predictions/measured data (right bar) for each barcode across 3 replicates. FIG. 9C shows plots of actual data (input) and measured data obtained after decoding for five different mixtures (i.e. pools 1-5) of known barcode concentrations. Input known concentrations (left bar) are shown next to predictions/measured data (right bar) for each barcode across 3 replicates.

[0267] In the experiment described in FIG. 12, the quantification of twenty-four (24) barcodes contained within a single mixture was determined. FIG. 12A shows a graphical depiction of the experiment. Of 24 total barcodes the algorithm can predict, 10 were present within a mixture at equal concentrations. The rest were held out from the pool, but prediction was computationally allowed. Three (3) separate pools, which cover all possible barcodes were measured in replicate. These pools were mixed, then captured on HALO beads, described in Example 1. The immobilized barcoded payload was then contacted with a pool of binding agents (i.e. binding agents with binders expressed on them), and decoded to CDR3 sequence counts as

described in Example 1. The CDR3 sequence counts, determined via NGS, were then utilized to determine the presence and total concentration of each barcoded payload in the sample via decoding (see Example 8). FIG. 12B shows prediction for the first pool; the input concentration (left bar) and measured concentration (right bar) are plotted for each barcode in the pool. FIG. 12C plots predictions for each of the three pools. As in FIG. 12B, the bar graphs plot input concentration on the left and measured concentration on the right. FIG. 12D shows the barcode fingerprint for each of the 24 barcodes used to computationally determine the relative abundance of the barcodes within each of the 3 pools. Columns represent barcode fingerprints, and rows represent binding agent fingerprints. FIG. 12E shows the binding agent counts from the three pools, used to computationally determine the proportion of the pools. Rows are the binding agent counts, columns are the pools, and each cell is the binding agent count within a specific pool.

Example 3: *In vitro* assessment of payload stability within a pool of payloads using binder-barcode platform

[0268] The present example demonstrates a method to determine the general aggregative tendencies of several payloads in a pool using barcode decoding.

[0269] A purified pool of barcoded payloads is generated using the method described in Example 2. The purified pool is then subject to size exclusion chromatography using standard methods. Different fractions are collected - corresponding to monomeric vs aggregated payloads. The general presence or absence of a given barcoded payload within the purified pool is not known. The separated fractions, containing an unknown abundance of each barcoded payload, are then immobilized on beads or immunosorbent assay plates, contacted with a pool of binders (i.e. binding agents with binders expressed on them), and decoded to CDR3 sequence counts as described in Example 1. The CDR3 sequence counts, determined via NGS, are then utilized to determine the presence and total concentration of barcoded payloads in each fraction. The concentration of barcoded payloads in the different fractions are then compared to determine the percent of each barcoded payload which is monomeric vs aggregated within the purified pool.

Example 4: ***In vivo*** **assessment of payload pharmacokinetics within a pool of payloads using binder-barcode platform**

[0270] The present example demonstrates a method to determine the overall residence and clearance time of a given payload, contained within a pool of payloads, using a mouse model, as demonstrated in FIG. 11.

[0271] Three pools of barcoded payloads were injected into three different groups (pool 1 in to group 1; pool 2 in to group 2, and pool 3 in to group 3) of mice (n=3). Pool one contained a single barcoded antibody at 10mg/kg. Pool two contained two barcoded antibodies pooled at equal concentrations and injected at 20 mg/kg. Pool three contained PBS only. Injection volumes were held constant at 100μL per pool. At 24 hours after injection, blood was collected from each mouse and serum separated. 10μL of serum was diluted 1:10 in PBS and captured using anti-human IgG magnetic beads (Ray biotech cat# 801-101-1) by incubation overnight at 4°C with mixing at 700 rpm. The immobilized barcoded payloads were washed using PBS-T three (3x) times, to remove all serum proteins not associated with the affinity reagent. The immobilized barcoded payload was then contacted with a pool of binding agents (i.e. binding agents with binders expressed on them), and decoded to CDR3 sequence counts as described in Example 1. The CDR3 sequence counts, determined via NGS, were then utilized to determine the presence and total concentration of each barcoded payload in the sample via decoding (see Example 8). The proportion of barcoded payloads measured at 24 hours was compared to the injected concentration to determine the relative rate of clearance for each barcoded payload from the organism. In each of the groups, only the injected barcoded antibody was detected by decoding as evidenced by the graph plotted in FIG. 11, with high accuracy. In group 2 mice, which were injected with pool 2 that contains both antibodies at equal concentrations, slightly differing amounts are measured via decoding in the serum at 24 hours. It is hypothesized that this difference is due to differences in clearance rates between the two barcoded antibodies. As expected, the control group showed almost no antibody.

Example 5: ***In vivo*** **assessment of payload biodistribution using binder-barcode platform**

[0272] The present example demonstrates a method to determine the overall distribution of a barcoded payload across a diverse set of tissues using a mouse model.

[0273] A pool of purified payloads is injected intravenously into a BALB-6 mouse. After at least 24 hours, different tissue samples, such as liver, lung, and brain, are taken from the organism. The tissues are then processed into a single-cell suspension via vigorous shaking with beads. The suspension is then lysed using a lysis buffer to liberate the barcoded payloads (*e.g.*, barcoded proteins) contained within the tissues. The lysed suspension is then purified using a universal tag affinity reagent contained within the payloads to separate the barcoded payloads. Purified barcoded payloads are then immobilized, and barcode decoding is performed according to method described in Example 1. The CDR3 sequence counts, determined via NGS, are then utilized to determine the presence and total concentration of each barcoded payload in each sample. Payload abundance across different tissue samples is then compared, to determine the percent of each payload which is contained within each tissue. This data may then be used to select the best payload with specific biodistribution properties.

Example 6: ***In vitro*** **demonstration of recovering known mixture of unmodified antibodies**

[0274] The present example demonstrates how a known mixture of antibody proteins with no barcode attached was quantified using the protein quantitation invention described herein.

[0275] Briefly, scFv binders to the antibodies were generated using methods known to those skilled in the art. The binder were then cloned and displayed on phage as described in Example 1. The two antibodies of interest were expressed in CHO cells and purified from the media using Protein A affinity chromatography. Antibodies were mixed together in known proportions (FIG. 7A). Antibodies were then captured using 50 µL anti-Human Fc magnetic beads and incubated in PBS. The antibodies were then subject to phage assessment as described in Example 1, and the relative abundance of each antibody estimated using the algorithm described in Example 8. An accuracy of pearson .96 at determining the relative concentration of these two antibodies in varying proportion mixtures was calculated (FIG. 7B).

Example 7: ***In vitro*** **demonstration of recovering known mixture of antibodies in presence of serum**

[0276] The present example demonstrates how a known mixture of antibody proteins with barcodes contained within internal regions of the protein sequences was quantified in mouse serum using the protein quantitation technology described herein.

[0277] Briefly, antibodies were produced as described in example 6, and a similar experiment was performed, except after production, the antibodies were mixed with mouse serum, incubated at 37°C for 30 minutes, and then captured using anti-Fc magnetic beads (FIG. 8A). The immobilized barcoded antibodies were then contacted with a pool of binding agents (i.e.. binding agents with binders expressed on them), and decoded to CDR3 sequence counts as described in Example 1. The CDR3 sequence counts, determined via NGS, were then utilized to determine the presence and total concentration of each barcoded antibodies in the sample via decoding (Example 8). The relative concentration of three antibodies was estimated with a spearman of .926 across 3 mixtures of antibody concentration as shown in FIG. 8B and FIG. 8C. These results show the ability using technologies described herein to rank the antibodies present in a sample with high accuracy after incubation with serum i.e. in a complex environment.

Example 8: Detailed description of the decoding algorithm used to infer barcode abundance

Method of inferring barcode amounts:

[0278] Before decoding an unknown sample, a set of barcodes and its interaction with a binder pool (i.e. phage binder pool) must first be characterized. This is done by decoding a set of known samples under known conditions. The binder pool and experimental conditions is held fixed between all samples.

[0279] To characterize a set of barcodes, we measure a set of fingerprints, one for each barcode. A fingerprint represents the ideal readout of an individual barcode. Roughly speaking, it

is the spectrum of affinities between a given barcode and all the binder species in the pool. A fingerprint can be estimated by decoding multiple identical samples containing purely one barcode, averaging together the readouts of the replicates, and rescaling accordingly. Alternatively, fingerprints can be learned by decoding samples containing known mixtures of barcodes and deconvoluting appropriately to isolate individual fingerprints. Together, the fingerprints of a set of barcodes is known as a "fingerprint matrix".

[0280] Once the fingerprint matrix of a set of barcodes is determined, it can be used to infer the barcode composition in an unknown sample. The decoding algorithm accomplishes this by fitting the readout of the unknown sample to a linear combination of fingerprints. This is described in further detail in the algorithmic section described herein. A key assumption of the algorithm is that the decoding process is linear: if a sample contains two barcodes mixed in equal proportions, it is assumed that its readout is equal to the sum of the fingerprints of the two barcodes (plus noise). More generally, the readout of a mixture of barcodes is assumed to be the sum of the fingerprints of each barcode, appropriately weighted by its prevalence in the mixture. This assumption has empirically been found to be true.

[0281] The task of barcode quantification has varying levels of difficulty. From easiest to hardest, these include

- Binary classification: detecting the presence or absence of a barcode in a sample
- Rank-order quantification: ranking barcodes from most to least prevalent in a sample
- Relative quantification: determining the ratios between barcodes in a sample
- Absolute quantification: determining the absolute amount of each barcode in a sample

[0282] In this Example, absolute quantification is discussed in further detail.

Mathematical model of decoding:

[0283] The decoding process can be represented with the following mathematical model, where:

x is a length-n vector representing the input sample and each entry is the amount of a barcode species in units of ng; y is a length-m vector representing the bound binder fraction and each entry is the number of particles of a binder species in units of pfu; z is a length-m vector representing the NGS readout and each entry is the number of counts for a binder species.

[0284] The bound binder fraction is modelled as a linear combination of fingerprints, and the NGS readout is modelled as multiplying the bound binder fraction by a conversion factor:

$$y_j = \sum_{i=1}^{n} A_{ji} x_i + \epsilon_1$$

$$z_j = s_j y_j + \epsilon_2$$

where A_{ji} is the fingerprint matrix, an m by n matrix with units of pfu bound per ng of barcode. The 'ji' entry represents the propensity for barcode i to bind binder j in the binder pool; s_j is the conversion factor between pfu bound and number of NGS reads for binder species j; ε_1 is noise associated with the binding steps; ε_2 is noise associated with the post-binding steps.

[0285] The model assumes that binding between barcodes and binders is linear. In other words, if a sample contains a mixture of barcodes, its readout is assumed to be equal to the sum of the fingerprints of the individual barcodes, weighted by the relative barcode abundances. In Appendix A we provide a detailed biophysical model which justifies the linear assumption under one key condition: the amount of available binder cannot be significantly depleted by binding to the barcodes in the sample. Thus, as in typical immunoassays, the binding agent must be in excess and cannot be the limiting reagent.

Fingerprint matrix A_{ji}:

[0286] Each column of the mn-fingerprint matrix is a fingerprint. Each fingerprint represents the ideal, properly normalized readout of a pure barcode. The entry A_{ji} represents the contribution of the j'th binder to the fingerprint of barcode i.

[0287] The fingerprint of a barcode depends on the binding affinity to all the binders in the pool as well as the relative abundance of each binder species in the pool. Furthermore, the fingerprint is sensitive to the binding, equilibration, and elution steps. In the simplest case, the fingerprint matrix is given by

$$A_{ji} = d_j / K_{ji}$$

where d_j is the concentration of binder j in the binder pool, and K_{ji} is the dissociation constant of the complex between barcode i and binder j (see Appendix A). In more complicated cases, A_{ji} could also include effects of adhesion to surfaces, unbinding during washing steps, etc.

[0288] The matrix product of A with a barcode mixture x gives the composition of the ideal bound binder fraction (i.e. in absence of noise), in units of number of phage particles.

[0289] The fingerprint matrix can be determined from measuring the readout of multiple known samples. Multiple replicates are performed to average over noise. In addition, the fingerprints are properly scaled, either with respect to one another or to an absolute standard (see the Normalization section).

Conversion factors s_j:

[0290] The post-binding steps introduce a conversion factor between the number of bound phage particles to the number of NGS reads. This is represented by s_j. In the simplest case, s_j is identical for all binder species and represents an overall normalization,

$$s = C / \sum_{j=1}^{m} y_j$$

such that the total number of reads/counts is C. This models the situation where there is some sort of bottleneck in the processing, such as saturation of the propagation culture, such that the end result is a fixed number of reads, irrespective of the amount of bound phage. In a more

complicated case, s_j could depend on the binder species, reflecting amplification bias or differential phage fitness in propagation.

[0291] In the case where the conversion factor is identical for all binder species, it is a single number which must be determined on a sample-by-sample basis. This can be done by using a DNA sequence spiked in at some point of the process (as described herein).

Noise ε:

[0292] Noise sources are represented by the terms ε_1 and ε_2. In the absolute simplest case, ε_1 is absent and is ε_2 is Gaussian noise of fixed variance, in which case prediction can be done with ordinary least-squares regression. In reality, the noise arises from multiple, non-Gaussian sources, as detailed in the sections above. These include log-normal noise involved with exponential steps, such as phage propagation and PCR amplification, Poisson noise due to finite sequencing depth (and possibly stochasticity in binding/elution at low concentrations), and Gaussian noise from all sorts of other processes, such as sample degradation, etc.

Conversion from read counts to phage counts:

[0293] One feature of the NGS is that the readout is a relative measurement: it gives the ratio of abundances between different binder species, but not necessarily the absolute concentrations of binder species. To obtain an absolute readout, the raw readout must be divided by a conversion factor between the number of phage particles bound and the NGS read count.

[0294] Without knowing the conversion factor, it is only possible to determine the relative abundances of barcode in a sample (i.e. proportions). Absolute quantification requires a reference of known concentration (either barcode or binder) to be spiked into the process.

Methods of absolute quantification:

Spiking in a phage ladder in elute:

[0295] One method of normalizing is to add a unique binder species into the elute at a known concentration, $y_{spike\text{-}in}$. This reference species should be distinct from the existing binders in the pool. In the subsequent steps (where the eluted phage are propagated, DNA extracted, PCR'ed, and sequenced), the reference phage will be amplified by (ideally) the same factor as the other phage in the pool, i.e.

$$z_{spike-in} = s \cdot y_{spike-in}$$

[0296] The conversion factor can be estimated by dividing the number of reads corresponding to the reference phage by the (known) concentration at which it was added, i.e.

$$\hat{s} = y_{spike-in}/z_{spike-in}$$

[0297] A generalization is to spike multiple binder species into the elute. Each reference species can be spiked in at a different concentration. If the concentrations are evenly spaced, this forms a "phage ladder", in analogy with ladders used in gel electrophoresis. To estimate the conversion factor, the number of reads of each reference sequence can be compared to the (known) concentration at which it was added to the elute. Averaging across the species then yields a more precise estimate of the conversion factor.

Spiking in barcode into sample:

[0298] Alternatively, a reference barcode of known concentration can be added to the sample at the beginning of the decoding process. This reference barcode should be distinct from the existing barcodes in the sample. The decoding algorithm can use the raw readout to determine the proportions of all barcodes within the sample, including the reference and the sample barcodes. By dividing the reference barcode concentration by its predicted proportion, a barcode conversion factor can be determined. Multiplying all the predicted proportions by this factor then yields the absolute abundances of barcode.

[0299] Note that this method is only applicable for decoding an unknown sample after a set of properly normalized fingerprints has been determined.

Scaling fingerprints:

[0300] An important subtlety is that readouts have to be scaled even in the case of relative quantification. Specifically, the fingerprints of a set of barcodes must be properly scaled with respect to one another. Intuitively, this is because raw, unscaled fingerprints cannot be directly compared between barcodes; the read count of a binder has a different meaning in the context of a different barcode's fingerprint, because each barcode has a different conversion factor between bound binder count and read count. To ensure that fingerprints are measured in the same units, each unscaled fingerprint must each be scaled by (the inverse of) its conversion factor.

[0301] To illustrate this, consider a case with two barcodes. Suppose that, due to differences in binding affinity across the binder pool, the total amount of binder bound to 100ng of barcode A is 10 times greater than that bound to 100ng of barcode B. However, due to the nature of the method, the raw readouts end up having the same number of reads. In this example, one NGS read in barcode A's raw fingerprint corresponds to 10 reads in barcode B's raw fingerprint. The conversion factors are different. Now consider a sample containing a 1:1 mixture of the two barcodes. Due to the difference in affinity, the bound binder fraction in this sample is 10:1; consequently, the number of NGS reads corresponding to A and B would also be in a 10:1 ratio. In other words, the readout is proportional to $10a+b$, where a is the raw readout of A and b is the raw readout of B. On the basis of this, one would come to the incorrect conclusion that A and B are in a 10:1 ratio. To correct for this, the raw fingerprint of barcode A must be multiplied by a factor of 10, compared to B, to obtain a correctly scaled fingerprint, $a'=10a$ and $b'=b$. Now, when the two barcodes are mixed in equal proportions, the correct result is determined: the readout is an equally weighted mixture of the two correctly scaled fingerprints, $a'+b'$.

[0302] This example shows that the relative scaling factor between barcodes' raw fingerprints can be determined by measuring the readout of a known mixture of the barcodes. If

the barcodes are mixed in equal proportions, the composition of the mixture readout will be each raw fingerprint, weighted by their scaling relative to each other. (Note that this gives only the relative conversion factor between the barcodes and not an absolute conversion factor to absolute barcode quantities.)

The decoding algorithm:

[0303] There are two phases of the decoding algorithm:

- "Training phase": Learn the fingerprint matrix A_{ji} by measuring the readout of a number of known samples
- "Testing phase": Predict the barcode amounts in an unknown sample by measuring the readout and comparing it to A_{ji}

Training phase: learning the fingerprint matrix

[0304] In the training phase, the fingerprints of a set of barcodes are determined by measuring the readouts of a set of samples with known composition. The fingerprints must be correctly scaled with respect to one another. One method of measuring the fingerprint matrix is outlined below.

[0305] First, a set of samples, each containing purely a single barcode are prepared. Each sample is decoded. The fingerprint of each barcode is estimated by taking multiple replicates of a barcode and averaging together their readouts. The error is reduced if more replicates are averaged. This yields an unscaled fingerprint for each barcode.

[0306] Next, the fingerprints are correctly scaled with respect to each other. This is done by multiplying each of the unscaled fingerprints by a scaling factor. To determine the scaling factor of each barcode, a sample consisting of all barcodes mixed in equal proportion is decoded. Theoretically, this readout of this sample should be the sum of the normalized fingerprints of all the barcodes, weighted equally. However, if we fit this mixture readout to the set of unnormalized fingerprints determined from the previous step, the weights of the barcodes would

not be equal. The coefficients to the linear fit are precisely the factor by which each barcode's fingerprint should be multiplied by to obtain a correctly normalized fingerprint. By averaging together multiple replicates of this, a more precise estimate of the scaling factors can be determined.

[0307] This method is detailed further below. Let $\tilde{A}$ be the unscaled fingerprint matrix obtained from averaging multiple unscaled measurements of single barcodes. Each column should sum to a fixed number of reads, so the units of $\tilde{A}$ are counts per million. The correctly scaled fingerprint matrix A is obtained by multiplying each column of $\tilde{A}$ by a rescaling factor S, such that $A = \tilde{A}S$, where S is a $n \times n$ diagonal "rescaling matrix". Here S_{ii} is the scaling factor for the i'th barcode, with units of pfu eluted per count per million. Let y be the readout of a mixture of known composition x. One way to determine scaling factors is to use the unscaled fingerprint matrix to infer a set of "biased" predictions as $\tilde{x} = \tilde{A}^{+}y = SA^{+}y$, where $\tilde{A}^{+}$is the pseudoinverse of $\tilde{A}$ (see the prediction section below). The ratio of the "biased" prediction to the actual amount is an estimate of the scaling factor: $S_{ii} \approx \tilde{x}_i / x_i$. Multiplying each unscaled fingerprint by this scaling factor gives our best estimate of the properly scaled fingerprint $A = \tilde{A}S$.

[0308] Note that there are other methods for measuring the fingerprint matrix. This present method only uses the single-barcode samples to determine (unnormalized) fingerprints, and the mixture samples to determine the scaling factors. More sophisticated methods may use uneven mixtures to determine scaling factors and/or use the information in these samples to better estimate the fingerprint (beyond just learning its scaling factor).

Testing phase: predicting barcode amounts in unknown samples

[0309] In the testing phase we are supplied with the readout y of an unknown sample x and we aim to infer its composition, $\hat{x}$. This is done by fitting the readout to a linear combination of fingerprints, $y = A\hat{x}$, where A is the (properly scaled) fingerprint matrix learned from the training phase.

[0310] The fitting is done by choosing a set of coefficients x_j, which minimizes a loss function. The loss function measures the deviation between the expected and measured readout. The expected readout is the matrix product A_x, based on the determined fingerprints and proposed mixture coefficients. In the simplest case, the loss function is a sum of squared errors,

$$(\hat{x}) = \sum_{j=1}^{m}(\sum_{i=1}^{n} A_{ji}\hat{x}_i - y_j)^2 = ||A\hat{x} - y||_2^2$$

and the inferred mixture composition is the minimizer of this loss, $\hat{x} = argmin\ L(x)$. If the number of binders is greater than the number of barcodes, then A_x=y is an overdetermined system and there is a unique minimizer of the loss. The solution is given by

$$\hat{x} = A^{+}y$$

where $A^{+} \equiv (A^{T}A)^{-1}A^{T}$ is the Moore-Penrose inverse of the fingerprint matrix. If relative abundances (proportions) are desired, the coefficients can be normalized to sum to 1.

[0311] Note that the L2 loss function above is the simplest case. It is (proportional to) the negative log likelihood in the case where ε_1 is absent (no noise in binding) and ε_2 is Gaussian noise of fixed variance. To model more realistic forms of noise, other loss functions can be chosen.

Appendix A: Biophysical model of binding process

[0312] Let n be the number of barcoded protein species in a sample, and let $x_i, i = 1, \ldots, n$ be the concentrations of each barcode species added to the decoding well. Likewise, let m be the number of decoder species in the decoder pool, and let $d_j, j = 1, \ldots, m$ be the concentrations of each decoder species added to the decoding well. Suppose that any decoder can interact with any barcode in a one-to-one stoichiometry to form a bound complex. A total number of nm such complexes can be formed, one for each barcode-decoder pair. Let $c_{ij}, i = 1, \ldots, n, j = 1, \ldots, m$ be the concentration of a complex between barcode i and decoder j, and let K_{ij} be the equilibrium dissociation constant characterizing the affinity of this interaction, with $\Delta G_{binding} = -RT\ ln\ K_{ij}$.

[0313] For any decoder species, we assume that the amount which binds to the sample and subsequently eluted is given by $y_j \equiv \sum_{i=1}^{m} c_{ij}$, the bound complexes of that decoder summed over all possible barcode pairs.

[0314] In the simplest case, we assume that each species is an ideal solute in a dilute solution, and that the binding between barcodes and decoders is allowed to approach thermodynamic equilibrium. At equilibrium, some fraction of the decoders will bind to the barcodes, but there will still be remaining unbound barcodes, with concentrations $\tilde{x}_i, i = 1, \ldots n$, as well as unbound decoders, with concentrations $\tilde{d}_j, j = 1, \ldots m$.

[0315] The equilibrium state is given by minimizing the overall free energy of the system. This is shown to be equivalent to solving the following set of equations:

$$x_i = \tilde{x}_i + \sum_{j=1}^{m} c_{ij} \text{ for } i = 1, \ldots n$$

$$d_j = \tilde{d}_j + \sum_{i=1}^{n} c_{ij} \text{for } j = 1, \ldots m$$

$$K_{ij} = \tilde{x}_i \tilde{d}_j / c_{ij} \text{for } i = 1, \ldots, n, j = 1, \ldots, m$$

[0316] The first equation ensures the conservation of mass: the total amount of a barcode species is the unbound amount plus the amounts bound in complexes with all possible decoder partners. The second equation is an analogous statement for the decoders. The last equation is the definition of an equilibrium constant of a barcode-decoder pair.

[0317] The known values are the equilibrium constants K_{ij} and the x_i and d_j, representing the total concentration of each species of barcode and decoder, respectively, added to the well. The unknown variables are $\tilde{x}_i$, $\tilde{d}_j$, and c_{ij}. The values of the unknown variables are determined by solving the system of equations above.

A linear approximation

[0318] In the decoding process, a decoder pool with fixed values of K_{ij} and d_j is added to a sample of unknown barcode composition, x_i. The observable output of the binding process is the amount of each decoder species which binds to the sample, $y_j \equiv \sum_{i=1}^{m} c_{ij}$. A key question

of the binding process is how the input, the barcode concentrations x_i, affects the output, the bound decoder amounts y_j.

[0319] In general, the system of equations above is non-linear, but when certain conditions are met, the binding process can be well approximated by a set of linear equations. The decoding process is greatly simplified if the underlying equations are linear. A linear system implies that, at the least:

1) If the concentration of a barcode is doubled, the decoders bound to that barcode are all correspondingly doubled. (no saturation)
2) If two barcodes are mixed together, the decoders bound to the mixture are the sum of the decoders bound to each barcode alone. (no competition)

These two criteria can be thought of as linearity of single and multiple barcode detection, respectively. They are necessary, but not sufficient conditions.

[0320] To see how these criteria play in practice, consider the following binding situations which violate one or more of the criteria. Suppose that the decoder is the limiting reagent in a one-to-one stoichiometry of barcodes and decoders. Above a certain barcode concentration, all the available decoders would become saturated; an increase in x_i would not lead to a proportional increase in y_j. Thus, to avoid saturation, the barcode concentrations should be kept below the Kd of the interaction (or the decoder concentration, whichever is greater -- see below).

[0321] As another example, consider a situation where two barcodes A and B both have affinity for a certain decoder D, but barcode A has a much stronger affinity than barcode B. In the absence of A, the binding of barcode B has a certain binding curve. However, if there is enough A to deplete much of the available D, the binding of barcode B to the remaining D will be significantly altered. This is a situation where A and B compete for available decoder D. Note, however, that if the binding of A did not deplete the amount of D remaining in the pool, then the binding between B and D would not be altered by the presence of A. The competitive behavior occurs only in situations where the available D is significantly consumed by binding to

A -- if A is highly abundant and/or the A-D affinity is strong. In both examples of non-linear situations, one or more decoders in the pool is significantly depleted by binding to barcodes.

[0322] These examples indicate that the binding process is linear when a small fraction of the decoding pool is bound to the sample. Indeed, if this condition is met, the equations above can be simplified into a simple linear system. Under this assumption, the amount of unbound decoder $\tilde{d}_j$ is well approximated by the total amount of decoder, d_j. If we further assume that the bound complexes deplete a small fraction of the available barcodes, then the system of equations simplifies to

$$c_{ij} \simeq x_i d_j / K_{ij}$$

and the output can be represented with a simple matrix multiplication,

$$y_j = \sum_{i=1}^{n} A_{ji} x_i \text{ with } A_{ji} \equiv d_j / K_{ij}$$

Example 9: Assessment of absolute payload abundance of a single test barcode using a reference barcode (or spike-in barcode)

[0323] The present example demonstrates a method to determine absolute payload abundance of payloads in a pool using a reference barcode and barcode decoding.

[0324] FIG. 10A shows a schematic of an experiment. A single test barcode attached to payload was assayed at several concentrations, ranging from 0 ng/mL to 1250ng/mL. In the same sample, a "spike-in" barcode attached to a payload (i.e. a reference barcode) was added to each assay mixture at 250ng/mL. Various concentrations of a test barcoded payload were contacted with binding agents (i.e. binding agents with binders expressed on them) and decoding was performed as described herein. Prediction of a reference or "spike-in" barcode was used to determine an absolute amount of a test barcode, and by extension a barcoded payload, being measured (see Example 8). FIG. 10B shows a plot of measured absolute quantities of the test barcode (right bar) compared to known input concentrations of the test barcode (left bar) for each titration of the test barcode. The Y-axis is a logarithm of the test barcode concentration in nanograms per milliliter (ng/mL). FIG. 10C shows results of determination of absolute

concentration for 6 different barcoded payloads. The plots show known input concentrations (left bar) and measured concentration (right bar) for six (6) different barcoded payloads.

Example 10: Simultaneous *in vivo* assessment of phenotypes of payloads using binder-barcode platform

[0325] The present example demonstrates a method to determine simultaneous *in vivo* assessment of phenotypes of payloads using a binder-barcode platform described herein. In some embodiments, a phenotype includes pharmacokinetic (or clearance) data as described herein.

[0326] FIG. 13A is a schematic of a method to detect and/or quantify and/or characterize fourteen (14) exemplary payloads (*e.g.*, proteins) in a pool using a binder-barcode platform described herein. Fourteen (14) exemplary binder molecules were produced with different barcodes as described herein ("binder-barcode particles"). Binder-barcode particles were injected as a pool into wild-type (wt) BALB/c mice. At timepoints 30 min, 6 hours, 24 hours, and 48 hours, blood was collected from individual mice (n=3 per timepoint), and serum was extracted. Binder-barcode particles were captured and subjected to the decoding procedure as described.

[0327] FIG. 13B shows simultaneous *in vivo* assessment of clearance phenotypes of payloads using a binder-barcode platform described herein. In particular, FIG. 13B shows plots of clearance of multiple payloads, measured simultaneously and grouped by rate of clearance phenotype (e.g., slow vs. fast clearance). FIG. 13B (left) depicts controls with known properties that were measured. FIG. 13B (center) depicts payloads identified as having slow clearance properties over time. FIG. 13B (right) depicts payloads identified as having fast clearance properties over time. Data was normalized to 100% of injection volume for each binder-barcode particle.

[0328] Accordingly, the present example confirms that a binder-barcode platform described herein can be used for simultaneous characterization of phenotypes *in vivo*.

Example 11: Simultaneous *in vivo* assessment of phenotypes of payloads in multiple tissues using binder-barcode platform

[0329] Among other things, the present disclosure provides an insight that on-target, off-tumor toxicity is a biodistribution challenge. The present example demonstrates a method to determine simultaneous *in vivo* assessment of phenotypes of payloads in multiple tissues using a binder-barcode platform described herein. In some embodiments, a phenotype includes biodistribution data as described herein. In some embodiments, a phenotype includes pharmacokinetic (clearance) data as described herein. In some embodiments, a phenotype includes pharmacokinetic data and biodistribution data as described herein.

[0330] FIG. 14A is a schematic of a method to detect and/or quantify and/or characterize thirty-six (36) exemplary payloads (*e.g.*, proteins) in a pool using a binder-barcode platform described herein. Thirty-six (36) binder molecules were produced with different barcodes ("binder-barcode particles"). Binder-barcode particles were injected as a pool into tumor bearing NSG mice, which had been previously implanted with two tumor cell lines (Tumor 1, Tumor 2). At timepoints 30 min, 6 hours, 24 hours, and 48 hours, blood and tumor tissue was collected from individual mice (n=2-4 per timepoint). In some embodiments, other tissue can be harvested, including lung, liver, brain, etc. Tissue was lysed using standard lysis buffer. Serum was separated from blood. Binder-barcode particles were captured binder from each tissue and subjected to a decoding procedure as described herein.

[0331] FIG. 14B is a heat-map of all binder-barcode particle data collected as described herein. Rows indicate different binder constructs identifiers (IDs) that correlate to binder-barcode particles tested by the present example. Columns indicate data for a mouse across each time point for serum, Tumor 1, or Tumor 2. Color intensity indicates relative units of drug as measured via a decoding procedure described herein. Color intensity indicates a normalized readout of relative concentration as measured via next generation sequencing (NGS).

[0332] FIG. 14C depicts plots of binder-barcode particles described by FIG. 14B using a decoding procedure described herein. A diversity of properties was simultaneously measured. For example, binder-barcode particle P14_A5 was rapidly cleared from serum, with minimal

accumulation in Tumor 1 or Tumor 2, while binder-barcode particle P17_A10 was more slowly cleared and maintained in tumor 1 over time.

[0333] Accordingly, the present example confirms that a binder-barcode platform described herein can be used for simultaneous characterization of phenotypes of payloads across multiple tissue types *in vivo*.

Example 12: Simultaneous *in vivo* assessment of phenotypes of payloads using binder-barcode platform

[0334] The present example demonstrates a method to determine simultaneous *in vivo* assessment of phenotypes of payloads (*e.g.*, proteins) using a binder-barcode platform described herein. In some embodiments, a phenotype is a half-life measurement as described herein.

[0335] FIG. 15A depicts a plot showing ELISA quantitation of two groups of payloads (Group 1: protein payload with no barcode; Group 2: a pool of eight (8) binder-barcode particles where each particle includes the same protein payload used in Group 1, and each particle is barcoded with a different barcode). Group 1 was injected into a cohort of wild-type (wt) BALB/c mice. Group 2 was also injected into a cohort of wild-type (wt) BALB/c mice. At timepoints 6 hours, 24 hours, and 48 hours, blood was collected from individual mice (n=3 per timepoint), and serum was extracted. ELISA quantitation showed similar measurements between Group 1 and Group 2, confirming that barcode does not affect payload function. FIG. 15B shows a plot depicting simultaneous and individual assessment of eight (8) distinct entities in Group 2 using a decoding procedure described herein. FIG. 15C shows a comparison of half-life measurements for Group 1 and Group 2. Half-life measurements for Group 1 was quantified using ELISA (dashed line). Half-life measurements for Group 2 was quantified using a decoding procedure described herein (bars). As shown in FIG. 15C, variation in half-life measurements across different binder-barcode particles within a pool can be resolved using a binder-barcode platform described herein. Moreover, ELISA cannot perform simultaneous measurements of phenotypes in one experiment.

[0336] Accordingly, the present example confirms that a binder-barcode platform described herein can be used for simultaneous, accurate characterization of phenotypes *in vivo*.

Moreover, the present example confirms that attachment of a barcode to a payload using a method described herein does not disrupt *in vivo* properties of a payload. .

Example 13: Sensitivity and dynamic range of binder-barcode platform

[0337] The present example demonstrates a method to determine sensitivity and dynamic range of a binder-barcode platform described herein.

[0338] An array of ninety-six (96) mixtures comprising ten (10) to thirty-five (35) barcoded payloads (*e.g.*, proteins), with each barcoded payload having a known concentration between 1 picogram (pg) and 1 microgram (µg), was designed to determine sensitivity and dynamic range of a binder-barcode platform described herein (FIGS. 16A-16B). Each data point in FIG. 16B represents a comparison between a known concentration of a barcoded payload particle from one of the ninety-six (96) distinct mixtures and a concentration determined by a decoding procedure described herein. As shown in FIG. 16B, payloads were quantified across a 10,000-fold range of concentrations. FIG. 16B also shows payloads down to 0.1 nanograms (ng) were also quantified.

[0339] Accordingly, the present example confirms that a binder-barcode platform described herein can be used for simultaneous, sensitive characterization of barcoded payloads across a broad dynamic range of concentrations in diverse mixtures.

Example 14: Comparison of *in vitro* and *in vivo* assessment of phenotypes of payloads using binder-barcode platform

[0340] The present example provides an insight that *in vitro* models sometimes fail to accurately model *in vivo* environments. Among other things, the present disclosure provides an insight that certain *in vitro* systems can be limited (*e.g.*, with respect to their modeling of *in vivo* performance) by one or more of the following: two-dimensional monolayer of *in vitro* models versus complex three-dimensional architecture of *in vivo* environments, differences in target post translation modification or accessibility, differences in gene expression, absence of stromal cells

and/or extracellular matrix, lack of circulation and diffusion from vasculature, or off-target and antigen sink effects not modeled in *in vitro* models.

[0341] Binder-barcode particles tested in Example 11 were also tested in an *in vitro* T cell activation assay (data not shown). A binder-barcode particle that exhibited highest T cell activation *in vitro* exhibited poor tumor tissue accumulation and rapid clearance *in vivo*. Moreover, a binder-barcode particle that exhibited modest T cell activation *in vitro* exhibited high tumor accumulation and slow clearance *in vivo*. Accordingly, the present example confirms that a binder-barcode platform described herein can be used to identify binders with unexpected *in vivo* properties. Moreover, the present example confirms that a binder-barcode platform described herein can be used to select therapeutic candidates exhibiting desirable phenotypes *in vivo*.

Example 15: Barcode does not significantly affect payload properties

[0342] The present example confirms that a barcode has relatively no effect on payload (*e.g.*, protein) properties. In some embodiments, a property includes payload affinity as described herein. In some embodiments, a property includes payload production (or yield) as described herein.

[0343] Affinity and production (or yield) of a payload (*e.g.*, protein) with and without a barcode were assessed using biolayer interferometry (BLI). Ten different barcodes were tested. Affinity of a barcoded payload exhibited similar affinity of a payload without a barcode, as measured by BLI (data not shown). Moreover, payload production (or yield) of a barcoded payload exhibited similar payload production (or yield) of a payload without a barcode, as measured by BLI (data not shown).

[0344] Accordingly, the present example confirms that payload performance is not significantly impacted by a barcode. Moreover, the present example confirms that payload production is not significantly impacted by a barcode.

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OTHER EMBODIMENTS

[0354] It is to be appreciated by those skilled in the art that various alterations, modifications, and improvements to the present disclosure will readily occur to those skilled in the art. Such alterations, modifications, and improvements are intended to be part of the present disclosure, and are intended to be within the spirit and scope of the invention. Accordingly, the foregoing description and drawing are by way of example only and any invention described in the present disclosure if further described in detail by the claims that follow.

[0355] Those skilled in the art will appreciate typical standards of deviation or error attributable to values obtained in assays or other processes as described herein. The publications, websites and other reference materials referenced herein to describe the background of the invention and to provide additional detail regarding its practice, including those listed in the above References section, are hereby incorporated by reference in their entireties.

[0356] It is to be understood that while embodiments of the invention have been described in conjunction with the detailed description thereof, the foregoing description is intended to illustrate and not limit the scope of the invention, which is defined by the scope of the appended claims. Other aspects, advantages, and modifications are within the scope of the following claims.

EQUIVALENTS

[0357] Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. The scope of the present invention is not intended to be limited to the above Description, but rather is as set forth in the following claims:

Table 1: Table providing exemplary list of binder and barcode nucleic acid sequences

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1	dc-001	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGACCCATTAGACGAGTGGGACGCCTATCTGTT CGACGTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGAG GCGTGGGAGTCTGACACCCGTATTTTCGGTCAAGGTACCAAGGTGG AAATTAAA
SEQ ID NO. 2	dc-002	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGGTTCTACGTACGACGTTTGGGGTCAGTGGGG CCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTTCTT CTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTGCT GACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCGCC ACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAGCG TGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTACG GCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGCAG CGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGCCA GAAGATTTCGCCGTTTATTACTGTCAGGTTTGGGATAACAATGTGGT TTTTGGTCAAGGTACCAAAGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3	dc-003	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGGTTCTACGTACGACGTTTGGGGTCAGTGGGG CCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTTCTT CTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTGCT GACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCGCC ACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAGCG TGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTACG GCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGCAG CGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGCCA GAAGATTTCGCCGTTTATTACTGTCAGGTTTGGGATTCTAGCAGCGG TGTGGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 4	dc-004	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGCACGGTGGTACGAACTCTCGCGGCTGGAAAG CCTTAGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGT GTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTA GCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTT ATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTC AAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGG TCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCG GCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACG TTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTG TCAGGCCTGGGACTCTACCACCCCGACGGTTGTTTTCGGCCAAGGCA CCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 5	dc-005	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGGCGCCGGTTCTTCTGCCGCCTCTGGCTTTGCCAC GTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGACGTG GGGCGCCGCCTCTGGCGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 6	dc-006	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGAGGTTTGGATCGCCGCCTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAACCTGGGGC ACGGGCCACGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 7	dc-007	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCGCGGTGGTGACGTTGTTACCGCGGGTCG CGGCTTCGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAATATAATAATTGGCCACCAATCACGTTTGGTCAGGGCA CCAAGGTTGAGATTAAA
SEQ ID NO. 8	dc-008	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTCGCTGGGACTTCGACTCTTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGGTTTGGGATTCTAGCAGC GACAAACCATACGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 9	dc-009	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAGCCTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACTCTTCTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA
SEQ ID NO. 10	dc-010	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAGCCTACGGTAGCGCGTCTGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACTCTTCTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 11	dc-011	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAACGTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACGGTGGTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 12	dc-012	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAACGTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACAACGGTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 13	dc-013	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAACGTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACTCTATCAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 14	dc-014	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAACGTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACTCTTCTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 15	dc-015	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAACGTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACACGAACACCGATCATTGGTTATTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 16	dc-016	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACCGCTACTCTTACGGTGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTGCGGCCTGGGATGATTT AAGCGGTTGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 17	dc-017	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAATGGTCGCTCTTCTGCCTACTTCAATCATTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAACAGC TTCCCATACACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 18	dc-018	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCCGAACTCTAACTCTCCATCTTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCACATGTGGAATGCCAGCC GTAACCATTGGGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 19	dc-019	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCCGAACTCTAACTCTCCATCTTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCACGTGTGGGACAGCAGCG GTGATCACTGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 20	dc-020	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCAACGTTTACCAACAAACGTGGGCGTTTGA CCCATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCATGCA GGGTGAACGCTGGCCATTAGCGTTTGGCCAAGGTACGAAGGTGGAG ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 21	dc-021	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCCGCGGTGCCAACACGTGGGACTATTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAGAATATTCTT TTCCAGTTACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 22	dc-022	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTCCACCGCGCCTACGGTATGGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAA CAGCTTCCCACCAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 23	dc-023	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTCTCGCGACTACGGTGCGGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAACCTG GGGTAACACGCATCTGGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 24	dc-024	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCACGCGGTGACGCCTTCGATATTTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATCACACC ACGCCACCAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 25	dc-025	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACTCTGGTTACGGCCTGCGCTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGTCTTA TGACCACAACAGCGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 26	dc-026	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCACGTCTCGCGCCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGGT GATACGCACTTAGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 27	dc-027	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACACGGGTTTCGGTTCTTTCGATTATTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGCT CTTCTACGTGGGGCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 28	dc-028	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACACGTCTTCTGGTGCCATGGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTAGCTCTTTTGGCGGTA ATGACAACTTAATTTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 29	dc-029	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGTTCAATACCGCTTCGACCCGTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTGGCCAAAATAAACAAT TTCCATGGACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 30	dc-030	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTGGTGGGGTGCCTTCGACGTTTGGGGTCA GTGGGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGC CGTTCTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAAT CGTGCTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAA CGCGCCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTAC TTAGCGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGA TCTACGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGC GGCAGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGG AGCCAGAAGATTTCGCCGTTTATTACTGTCAGCAATTTAACAGCCTG GGTTGGATTTTCGGTCAAGGCACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 31	dc-031	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGGAGGGTTCTTCTCCGATCACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 32	dc-032	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTACGACACGACGCCGCCACTGAC CTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 33	dc-033	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTACGGTTCTTCTCCGATCACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 34	dc-034	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGAGCTACGACTTCGGTCTGGGTATTATG GTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 35	dc-035	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGAGCTACGACATCTCTAATTTAAGCCAT GTGGTTTTCGGTCAGGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 36	dc-036	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCAGCAGCTACACGTCTTCTAGCAAGGTGTTT GGCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 37	dc-037	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTGGGGTGGTTCTTGGTTCGGTATGGACCC GTGGGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGC GGCAGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGG CGGTGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGC CCGGGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTC TTCTTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCAC GTTTATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCC CGTTTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAG CCGCTTAGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATA ATTCTAGCTCTATCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 38	dc-038	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTGGGGTGGTTCTTGGTTCGGTATGGACCC GTGGGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGC GGCAGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGG CGGTGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGC CCGGGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTC TTCTTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCAC GTTTATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCC CGTTTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAG CCGCTTAGAACCGGAGGACTTCGCGGTTTACTATTGTCAGTCTTATG ATTCTAGCAACGCCGTTTTTGGCCAGGGTACGAAGGTTGAAATCAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 39	dc-039	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTGGTTAGGTACGACGGGTATGGACGTGTG GGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGC AGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGG TGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCG GGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTC TTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTT TATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGT TTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCG CTTAGAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATA GCTCTAGCGCCCCATTCTATGTGTTTGGTCAAGGTACGAAAGTTGAA ATTAAA
SEQ ID NO. 40	dc-040	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTGGTTAGGTACGACGGGTATGGACGTGTG GGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGC AGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGG TGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCG GGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTC TTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTT TATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGT TTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCG CTTAGAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATA GCTCTAGCGGTCCATTAAAAGTGTTTGGTCAAGGTACGAAAGTTGA AATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 41	dc-041	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTACTACGGTATCGACGTTTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAAGCTACGATAGCTCTCT GTCTTCTCCAAATGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTA AA
SEQ ID NO. 42	dc-042	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTCGGTGTTGGTTACGACACGCATTATATGTA CTTCGATCACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT CAGCAATTCCACAGCTTTCCGTTAACGTTCGGTCAGGGTACCAAAGT GGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 43	dc-043	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGACTTCTTATTCCGCTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGCGTGGGACAGCAGCA CGCCGTTCTACGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 44	dc-044	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGACTCTTCTGGTTGGGACTACTTTGATCA CTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTC TAATTCTCCACCACCGATTACCTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 45	dc-045	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGGTGCCTCTATCGGTGTTTTTGATGTTTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGGTA CCGGTATGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 46	dc-046	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGGTTCTGTTGACATCGCCTATGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCAACTCTTTTCCGCTGACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 47	dc-047	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTAATCATGACGCCAGGTTACCTGGATTA CTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTG GGGTACCGGTGGTTTAGTGTTTGGCCAAGGTACGAAGGTGGAGATT AAA
SEQ ID NO. 48	dc-048	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCCAGGTTACTCTTACGCCGCGATGGATGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGA CTATTCTTTCCCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 49	dc-049	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCCACGCTTCGGTGAGTTACCGTTTGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAA GCTACTCTAACACCACCTGGCTGTTCGGTCAAGGTACCAAGGTGGA AATTAAA
SEQ ID NO. 50	dc-050	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACTTAGCCTCTTCTAGCGCGCACGG TGGCTACTATGCGCTGGACTACTGGGGTCAGTGGGGCCAGGGCACG TTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTAGCG GCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCAATC TCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTATCTT GCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTACCAA CAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGAGCA GCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTCTGGT ACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATTTCGC GGTTTACTACTGCCAGCAGGCCTACTCTCCACCGATCAGCTTTGGCC AAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 51	dc-051	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACTTAGCCTCTTCTAGCGCGCACGG TGGCTACTATGCGCTGGACTACTGGGGTCAGTGGGGCCAGGGCACG TTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTAGCG GCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCAATC TCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTATCTT GCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTACCAA CAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGAGCA GCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTCTGGT ACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATTTCGC GGTTTACTACTGCCAGCAGGCCTACTCTCCACCGATCACCTTTGGCC AAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 52	dc-052	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACCGCAACTTATCTTATGATGACGA CGATTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGCCTGGGATAGCAGCACGGGTGTTGTTTTTGGTCAGGGCA CCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 53	dc-053	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTCTGTTTCTACGGGTATCGCGTTTTACTAC TGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGTG GTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGGC GGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCTC CGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTAG CTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCCA CGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGGC GCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCAGCTCTTA TACGTCTTCTAGCAGCCTGGTTTTCGGTCAAGGCACGAAAGTGGAA ATCAAA
SEQ ID NO. 54	dc-054	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGACTTCTCTACGGGTGCCTATGATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCATGCAAGGCGCGCG CTGGCCGTTAGCCTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 55	dc-055	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTAGGTTACAAGGGTTTCGCCTATCTGGGTTCT TATTCTAGCTATGCGTTCGACTTATGGGGCCAGTGGGGCCAGGGTAC GTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAGCAGCG GCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACGCAAAG CCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGTTAAGC TGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGGTACCA GCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCGCGAGC TCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGGTTCTGG CACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAAGACTTT GCCGTTTACTATTGCCAGCAATCTAACTCTCCGCCAATTACCTTTGG TCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 56	dc-056	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTATCTGGTACGTACTACTACGCGATGGATGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTC TGATCGCTTACCACTGACCTTTGGTCAAGGTACGAAAGTTGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 57	dc-057	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTATACCACACGGCCTACCGCTATACCTACTA CTTTGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC ACGTTTGGGACAGCAGCGATGTTGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA
SEQ ID NO. 58	dc-058	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCGCTGGGGTATCTACCGCGGTAAGCTGAG CGTTTACATGGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTG ACCGTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGG CGGTAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCG ACCTTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGC CTCTCAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAG CCGGGTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGC CACCGGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATT TTACGTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTAT TATTGTCAGTCTTACGACAGCAGCCTGTCTGGTGTTTTCGGCCAAGG CACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 59	dc-059	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGTCTCGCTACGGTGCCTTCGACCTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATAATAACT GGCCGTTAACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 60	dc-060	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCACCACTCTGACTTCGACCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGAGTATAATGCCTA TCCAACGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 61	dc-061	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCACCACTCTGACTTCGACCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAACCGTGACGC CGCCATTCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 62	dc-062	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCACCACTCTGACTTCGACCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATGGCTCTAG CCCACGCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 63	dc-063	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCACCACTCTGACTTCGACCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATTATTCTAC CCCACGCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 64	dc-064	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCGGTACGGGTGACTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATAAC GGCTCTGACCACCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 65	dc-065	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCGGTACGGGTGACTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACCACCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 66	dc-066	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGACTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGATTCT AGCTTATTATCTAGCAGCCTGGTTGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 67	dc-067	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGACTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATAC GAGCACGTCTTCTCATGTGGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA
SEQ ID NO. 68	dc-068	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGACTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCGCCTCTCCACATGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 69	dc-069	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGACTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACGGTCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 70	dc-070	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGAGTTAAAACCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATACG AGCGGTAACCACCCGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 71	dc-071	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGAGTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATGCC AGCTCTGACCCATTTGTGGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA
SEQ ID NO. 72	dc-072	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGAGTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACCACCATGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 73	dc-073	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGAGTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTCCAGTTGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTAA A
SEQ ID NO. 74	dc-074	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTGGAACGACTTCGACTACTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGCGCTATGAGAGCAGCCCA CGTACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 75	dc-075	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCCATTACCAAACGTTGGTTACGGCATGGATGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTG GGACAGCTCTTTATTACTGAGCTATGTTTTCGGTCAAGGCACGAAAG TGGAAATCAAA
SEQ ID NO. 76	dc-076	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCAAGGTTGGTTAGCCACGACGCGCGGCATGGA TTTATGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGC GGCGGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGG TGGCGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTG TCTCCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGT TTCTAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGC CACGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCG GCGCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCA TCTCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCG GGTGATCGCACGACGGGCCAGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 77	dc-077	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCAAAAGTTACGCGGTGACGGTTTTGATACGTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCATTACGGC GGTCCATTCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 78	dc-078	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTGGTAACTCTTACGGTCAATTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGGTA CCGGTCACGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 79	dc-079	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTGGTCAATACGGTGGTTACTTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGAGTATT CTTTCCCAGTGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 80	dc-080	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGCCGCCTACGTTTTAGGTCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAAGCTATTCTAT TCCATTCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 81	dc-081	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGCCGCCTACGTTTTAGGTCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAAGCTATTCTAT TCCATTAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 82	dc-082	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGCGCATCGGTTACTCTCACCATGCGGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCTATTCTTA TGTTGGTTCTAGCACCTGGGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 83	dc-083	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTGCCGCCGCCTTCGATATTTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCCTGGACAGC ATCTTACGCAGCTGGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 84	dc-084	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCATCTCTTTTCCGCTGACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 85	dc-085	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCAACTCTTTTCCGATTACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA
SEQ ID NO. 86	dc-086	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCAACTCTTTTCCGCTGACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 87	dc-087	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCAACTCTTTTCCGCCGACGTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 88	dc-088	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCTACTCTTTTCCGCCGACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 89	dc-089	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG GTATCAACTGGCCGCTGACCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA
SEQ ID NO. 90	dc-090	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAACCTG GGGTTCTGGTATTGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 91	dc-091	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTGGAACATCGCCATCGTTGGTGCCGCGCCGGT TCCAGTGATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAAGCCAATAGCTTTCCATTAACGTTCGGCCAAGGCAC CAAAGTTGAGATCAAA
SEQ ID NO. 92	dc-092	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTGGAACATCGCCATCGTTGGTGCCGCGCCGGT TCCAGTGATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAAGCCAATAGCTTTCCAGTTTCTTTCGGCCAAGGCACC AAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 93	dc-093	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTGGAACATCGCCATCGTTGGTGCCGCGCCGGT TCCAGTGATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAAGCCAATAGCTTTCCAGTTACGTTCGGCCAAGGCAC CAAAGTTGAGATCAAA
SEQ ID NO. 94	dc-094	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACGGTTCTAACTACCGCTACTTTGATCGCTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTATGCAGGGCTCT CATTGGCCATGGGCCTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 95	dc-095	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGCCGGTCCAGACGACGACTTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCACGGGTGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 96	dc-096	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGCCGGTCCAGACGACGACTTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCACGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 97	dc-097	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCCCAAAGTACGGTGACTTCTACTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGCACTAT GCCATCCCACTGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 98	dc-098	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCAACGACTGGTGGGGTCACTGGGGTCAATGGG GTCAGGGCACGTTAGTGACGGTGAGCAGCGGTGGTTCTAGCCGTAG CAGCTCTTCTGGTGGTGGTGGCTCTGGTGGCGGCGGCGAGATTGTGT TAACCCAGAGCCCAGCGACCTTAAGCCTGAGCCCGGGCGAACGTGC GACGTTAAGCTGTCGCGCGAGCCAGTCTGTGTCTTCTTCTTATTTAG CCTGGTACCAGCAAAAACCAGGCCAAGCGCCGCGCTTACTGATCTA TGGTGCCAGCAGCCGTGCCACCGGTATCCCAGCGCGCTTCTCTGGTA GCGGCAGCGGTACCGATTTTACGCTGACCATTTCTCGCCTGGAACCG GAGGACTTTGCGGTTTACTACTGCCAAGTTTGGGATTCTCAGTCTAA TAGCTGGGTTTTTGGTCAAGGTACCAAAGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 99	dc-099	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCTACGACGTTTTAACGGGTTTCGAATATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAACCTGGGGCAC GGGCATCCGCGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 100	dc-100	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCTACTTAGGTGGTATCGTTGGTGCGAGCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAG AATACACGGCCCCGGTGACCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 101	dc-101	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTTCTGGCGGTGAGTTAGCCCGCGGTTTCGATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCGTTACC ATCCCACGCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 102	dc-102	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTCACTCTGGTTGGTTATTCCCATCTGCGTTTGAC GTTTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCG GTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGC GGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTAT CTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTT AGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCC CACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCG GCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGA TCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGAAC TGGGGCACGGGTGTTGGCGGCTTTGGTCAAGGTACGAAAGTTGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 103	dc-103	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGACCCATTAGACGAGTGGGACGCCTATCTGTT CGACGTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGAG GCGTGGGAGTCTGACACCCGTATTTTCGGTCAAGGTACCAAGGTGG AAATTAAA
SEQ ID NO. 104	dc-104	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGGTTCTACGTACGACGTTTGGGGTCAGTGGGG CCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTTCTT CTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTGCT GACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCGCC ACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAGCG TGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTACG GCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGCAG CGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGCCA GAAGATTTCGCCGTTTATTACTGTCAGGTTTGGGATAACAATGTGGT TTTTGGTCAAGGTACCAAAGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 105	dc-105	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGGTTCTACGTACGACGTTTGGGGTCAGTGGGG CCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTTCTT CTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTGCT GACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCGCC ACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAGCG TGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTACG GCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGCAG CGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGCCA GAAGATTTCGCCGTTTATTACTGTCAGGTTTGGGATTCTAGCAGCGG TGTGGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 106	dc-106	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGCACGGTGGTACGAACTCTCGCGGCTGGAAAG CCTTAGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGT GTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTA GCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTT ATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTC AAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGG TCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCG GCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACG TTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTG TCAGGCCTGGGACTCTACCACCCCGACGGTTGTTTTCGGCCAAGGCA CCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 107	dc-107	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGGCGCCGGTTCTTCTGCCGCCTCTGGCTTTGCCAC GTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGACGTG GGGCGCCGCCTCTGGCGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 108	dc-108	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGAGGTTTGGATCGCCGCCTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAACCTGGGGC ACGGGCCACGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 109	dc-109	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCGCGGTGGTGACGTTGTTACCGCGGGTCG CGGCTTCGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAATATAATAATTGGCCACCAATCACGTTTGGTCAGGGCA CCAAGGTTGAGATTAAA
SEQ ID NO. 110	dc-110	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTCGCTGGGACTTCGACTCTTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGGTTTGGGATTCTAGCAGC GACAAACCATACGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 111	dc-111	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAGCCTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACTCTTCTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA
SEQ ID NO. 112	dc-112	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAGCCTACGGTAGCGCGTCTGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACTCTTCTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 113	dc-113	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAACGTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACGGTGGTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 114	dc-114	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAACGTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACAACGGTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 115	dc-115	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAACGTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACTCTATCAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 116	dc-116	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAACGTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACTCTTCTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 117	dc-117	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACGACATCTTAACGTACGGTAGCGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACACGAACACCGATCATTGGTTATTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 118	dc-118	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACCGCTACTCTTACGGTGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTGCGGCCTGGGATGATTT AAGCGGTTGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 119	dc-119	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAATGGTCGCTCTTCTGCCTACTTCAATCATTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAACAGC TTCCCATACACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 120	dc-120	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCCGAACTCTAACTCTCCATCTTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCACATGTGGAATGCCAGCC GTAACCATTGGGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 121	dc-121	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCCGAACTCTAACTCTCCATCTTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCACGTGTGGGACAGCAGCG GTGATCACTGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 122	dc-122	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCAACGTTTACCAACAAACGTGGGCGTTTGA CCCATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCATGCA GGGTGAACGCTGGCCATTAGCGTTTGGCCAAGGTACGAAGGTGGAG ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 123	dc-123	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCCGCGGTGCCAACACGTGGGACTATTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAGAATATTCTT TTCCAGTTACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 124	dc-124	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTCCACCGCGCCTACGGTATGGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAA CAGCTTCCCACCAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 125	dc-125	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTCTCGCGACTACGGTGCGGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAACCTG GGGTAACACGCATCTGGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 126	dc-126	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCACGCGGTGACGCCTTCGATATTTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATCACACC ACGCCACCAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 127	dc-127	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCACGTCTCGCGCCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGGT GATACGCACTTAGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 128	dc-128	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACACGGGTTTCGGTTCTTTCGATTATTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGCT CTTCTACGTGGGGCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 129	dc-129	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACACGTCTTCTGGTGCCATGGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTAGCTCTTTTGGCGGTA ATGACAACTTAATTTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 130	dc-130	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGTTCAATACCGCTTCGACCCGTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTGGCCAAAATAAACAAT TTCCATGGACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 131	dc-131	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGGAGGGTTCTTCTCCGATCACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 132	dc-132	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTACGACACGACGCCGCCACTGAC CTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 133	dc-133	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTACGGTTCTTCTCCGATCACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 134	dc-134	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGAGCTACGACTTCGGTCTGGGTATTATG GTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 135	dc-135	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGAGCTACGACATCTCTAATTTAAGCCAT GTGGTTTTCGGTCAGGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 136	dc-136	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGGTGACTACGGTAGCGGCTACTA CCTGCCAAATTATGGCATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCAGCAGCTACACGTCTTCTAGCAAGGTGTTT GGCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 137	dc-137	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTGGGGTGGTTCTTGGTTCGGTATGGACCC GTGGGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGC GGCAGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGG CGGTGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGC CCGGGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTC TTCTTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCAC GTTTATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCC CGTTTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAG CCGCTTAGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATA ATTCTAGCTCTATCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 138	dc-138	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTGGGGTGGTTCTTGGTTCGGTATGGACCC GTGGGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGC GGCAGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGG CGGTGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGC CCGGGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTC TTCTTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCAC GTTTATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCC CGTTTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAG CCGCTTAGAACCGGAGGACTTCGCGGTTTACTATTGTCAGTCTTATG ATTCTAGCAACGCCGTTTTTGGCCAGGGTACGAAGGTTGAAATCAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 139	dc-139	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTGGTTAGGTACGACGGGTATGGACGTGTG GGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGC AGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGG TGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCG GGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTC TTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTT TATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGT TTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCG CTTAGAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATA GCTCTAGCGCCCCATTCTATGTGTTTGGTCAAGGTACGAAAGTTGAA ATTAAA
SEQ ID NO. 140	dc-140	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTGGTTAGGTACGACGGGTATGGACGTGTG GGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGC AGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGG TGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCG GGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTC TTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTT TATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGT TTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCG CTTAGAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATA GCTCTAGCGGTCCATTAAAAGTGTTTGGTCAAGGTACGAAAGTTGA AATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 141	dc-141	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTACTACGGTATCGACGTTTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAAGCTACGATAGCTCTCT GTCTTCTCCAAATGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTA AA
SEQ ID NO. 142	dc-142	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTCGGTGTTGGTTACGACACGCATTATATGTA CTTCGATCACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT CAGCAATTCCACAGCTTTCCGTTAACGTTCGGTCAGGGTACCAAAGT GGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 143	dc-143	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGACTTCTTATTCCGCTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGCGTGGGACAGCAGCA CGCCGTTCTACGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 144	dc-144	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGACTCTTCTGGTTGGGACTACTTTGATCA CTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTC TAATTCTCCACCACCGATTACCTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 145	dc-145	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGGTGCCTCTATCGGTGTTTTTGATGTTTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGGTA CCGGTATGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 146	dc-146	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTAATCATGACGCCAGGTTACCTGGATTA CTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTG GGGTACCGGTGGTTTAGTGTTTGGCCAAGGTACGAAGGTGGAGATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 147	dc-147	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCCAGGTTACTCTTACGCCGCGATGGATGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGA CTATTCTTTCCCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 148	dc-148	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCCACGCTTCGGTGAGTTACCGTTTGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAA GCTACTCTAACACCACCTGGCTGTTCGGTCAAGGTACCAAGGTGGA AATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 149	dc-149	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACTTAGCCTCTTCTAGCGCGCACGG TGGCTACTATGCGCTGGACTACTGGGGTCAGTGGGGCCAGGGCACG TTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTAGCG GCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCAATC TCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTATCTT GCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTACCAA CAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGAGCA GCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTCTGGT ACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATTTCGC GGTTTACTACTGCCAGCAGGCCTACTCTCCACCGATCAGCTTTGGCC AAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 150	dc-150	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACTTAGCCTCTTCTAGCGCGCACGG TGGCTACTATGCGCTGGACTACTGGGGTCAGTGGGGCCAGGGCACG TTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTAGCG GCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCAATC TCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTATCTT GCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTACCAA CAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGAGCA GCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTCTGGT ACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATTTCGC GGTTTACTACTGCCAGCAGGCCTACTCTCCACCGATCACCTTTGGCC AAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 151	dc-151	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACCGCAACTTATCTTATGATGACGA CGATTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGCCTGGGATAGCAGCACGGGTGTTGTTTTTGGTCAGGGCA CCAAGGTTGAGATTAAA
SEQ ID NO. 152	dc-152	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTCTGTTTCTACGGGTATCGCGTTTTACTAC TGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGTG GTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGGC GGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCTC CGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTAG CTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCCA CGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGGC GCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCAGCTCTTA TACGTCTTCTAGCAGCCTGGTTTTCGGTCAAGGCACGAAAGTGGAA ATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 153	dc-153	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGACTTCTCTACGGGTGCCTATGATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCATGCAAGGCGCGCG CTGGCCGTTAGCCTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 154	dc-154	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTAGGTTACAAGGGTTTCGCCTATCTGGGTTCT TATTCTAGCTATGCGTTCGACTTATGGGGCCAGTGGGGCCAGGGTAC GTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAGCAGCG GCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACGCAAAG CCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGTTAAGC TGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGGTACCA GCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCGCGAGC TCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGGTTCTGG CACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAAGACTTT GCCGTTTACTATTGCCAGCAATCTAACTCTCCGCCAATTACCTTTGG TCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 155	dc-155	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTATCTGGTACGTACTACTACGCGATGGATGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTC TGATCGCTTACCACTGACCTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 156	dc-156	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTATACCACACGGCCTACCGCTATACCTACTA CTTTGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC ACGTTTGGGACAGCAGCGATGTTGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 157	dc-157	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCGCTGGGGTATCTACCGCGGTAAGCTGAG CGTTTACATGGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTG ACCGTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGG CGGTAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCG ACCTTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGC CTCTCAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAG CCGGGTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGC CACCGGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATT TTACGTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTAT TATTGTCAGTCTTACGACAGCAGCCTGTCTGGTGTTTTCGGCCAAGG CACCAAAGTTGAGATCAAA
SEQ ID NO. 158	dc-158	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGTCTCGCTACGGTGCCTTCGACCTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATAATAACT GGCCGTTAACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 159	dc-159	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCACCACTCTGACTTCGACCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGAGTATAATGCCTA TCCAACGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 160	dc-160	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCACCACTCTGACTTCGACCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAACCGTGACGC CGCCATTCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 161	dc-161	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCACCACTCTGACTTCGACCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATGGCTCTAG CCCACGCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 162	dc-162	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCACCACTCTGACTTCGACCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATTATTCTAC CCCACGCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 163	dc-163	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCGGTACGGGTGACTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATAAC GGCTCTGACCACCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 164	dc-164	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCGGTACGGGTGACTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACCACCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 165	dc-165	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGACTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGATTCT AGCTTATTATCTAGCAGCCTGGTTGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA
SEQ ID NO. 166	dc-166	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGACTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATAC GAGCACGTCTTCTCATGTGGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 167	dc-167	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGACTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCGCCTCTCCACATGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 168	dc-168	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGACTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACGGTCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 169	dc-169	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGAGTTAAAACCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATACG AGCGGTAACCACCCGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 170	dc-170	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGAGTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATGCC AGCTCTGACCCATTTGTGGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 171	dc-171	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGAGTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACCACCATGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 172	dc-172	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGAGTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTCCAGTTGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 173	dc-173	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTGGAACGACTTCGACTACTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGCGCTATGAGAGCAGCCCA CGTACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 174	dc-174	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCCATTACCAAACGTTGGTTACGGCATGGATGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTG GGACAGCTCTTTATTACTGAGCTATGTTTTCGGTCAAGGCACGAAAG TGGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 175	dc-175	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCAAGGTTGGTTAGCCACGACGCGCGGCATGGA TTTATGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGC GGCGGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGG TGGCGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTG TCTCCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGT TTCTAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGC CACGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCG GCGCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCA TCTCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCG GGTGATCGCACGACGGGCCAGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA
SEQ ID NO. 176	dc-176	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCAAAAGTTACGCGGTGACGGTTTTGATACGTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCATTACGGC GGTCCATTCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 177	dc-177	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTGGTCAATACGGTGGTTACTTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGAGTATT CTTTCCCAGTGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 178	dc-178	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGCCGCCTACGTTTTAGGTCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAAGCTATTCTAT TCCATTCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 179	dc-179	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGCCGCCTACGTTTTAGGTCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAAGCTATTCTAT TCCATTAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 180	dc-180	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGCGCATCGGTTACTCTCACCATGCGGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCTATTCTTA TGTTGGTTCTAGCACCTGGGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 181	dc-181	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCATCTCTTTTCCGCTGACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA
SEQ ID NO. 182	dc-182	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCAACTCTTTTCCGATTACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 183	dc-183	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCAACTCTTTTCCGCTGACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA
SEQ ID NO. 184	dc-184	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCAACTCTTTTCCGCCGACGTTCGGTCAAGGCACGAAAGTGGAAAT CAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 185	dc-185	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCTACTCTTTTCCGCCGACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA
SEQ ID NO. 186	dc-186	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG GTATCAACTGGCCGCTGACCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 187	dc-187	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAACCTG GGGTTCTGGTATTGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 188	dc-188	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTGGAACATCGCCATCGTTGGTGCCGCGCCGGT TCCAGTGATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAAGCCAATAGCTTTCCATTAACGTTCGGCCAAGGCAC CAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 189	dc-189	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTGGAACATCGCCATCGTTGGTGCCGCGCCGGT TCCAGTGATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAAGCCAATAGCTTTCCAGTTTCTTTCGGCCAAGGCACC AAAGTTGAGATCAAA
SEQ ID NO. 190	dc-190	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTGGAACATCGCCATCGTTGGTGCCGCGCCGGT TCCAGTGATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAAGCCAATAGCTTTCCAGTTACGTTCGGCCAAGGCAC CAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 191	dc-191	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACGGTTCTAACTACCGCTACTTTGATCGCTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTATGCAGGGCTCT CATTGGCCATGGGCCTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 192	dc-192	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGCCGGTCCAGACGACGACTTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCACGGGTGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 193	dc-193	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGCCGGTCCAGACGACGACTTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCACGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 194	dc-194	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCCCAAAGTACGGTGACTTCTACTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGCACTAT GCCATCCCACTGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 195	dc-195	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCAACGACTGGTGGGGTCACTGGGGTCAATGGG GTCAGGGCACGTTAGTGACGGTGAGCAGCGGTGGTTCTAGCCGTAG CAGCTCTTCTGGTGGTGGTGGCTCTGGTGGCGGCGGCGAGATTGTGT TAACCCAGAGCCCAGCGACCTTAAGCCTGAGCCCGGGCGAACGTGC GACGTTAAGCTGTCGCGCGAGCCAGTCTGTGTCTTCTTCTTATTTAG CCTGGTACCAGCAAAAACCAGGCCAAGCGCCGCGCTTACTGATCTA TGGTGCCAGCAGCCGTGCCACCGGTATCCCAGCGCGCTTCTCTGGTA GCGGCAGCGGTACCGATTTTACGCTGACCATTTCTCGCCTGGAACCG GAGGACTTTGCGGTTTACTACTGCCAAGTTTGGGATTCTCAGTCTAA TAGCTGGGTTTTTGGTCAAGGTACCAAAGTGGAGATCAAA
SEQ ID NO. 196	dc-196	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCTACTTAGGTGGTATCGTTGGTGCGAGCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAG AATACACGGCCCCGGTGACCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 197	dc-197	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTCACTCTGGTTGGTTATTCCCATCTGCGTTTGAC GTTTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCG GTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGC GGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTAT CTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTT AGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCC CACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCG GCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGA TCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGAAC TGGGGCACGGGTGTTGGCGGCTTTGGTCAAGGTACGAAAGTTGAAA TTAAA
SEQ ID NO. 198	dc-198	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGCCAAGAACGGTGCCTCTTTAGGCGTGAACTT ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGTCTTA TGACTCTTCTCTGAGCGGCTCTCCAGTTGTTTTTGGTCAGGGCACCA AGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 199	dc-199	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTGCCGCGTGGGACAATTCTCTGAGCGCC GTGGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 200	dc-200	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTTTAAGCTGGGACAGCTCTCTGAGCGCC GAAGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 201	dc-201	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTCAAGCGTGGGACAGCTCTACCCGTGGT GTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA
SEQ ID NO. 202	dc-202	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTCAACAGTACTATTCTGTGCCGTGGACG TTTGGTCAAGGTACCAAAGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 203	dc-203	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTCAAAGCTGGGACGCGGGTACCAATCGC GTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA
SEQ ID NO. 204	dc-204	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTCAAGTGTGGGACAGCTCTAGCGATCAC CCGGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 205	dc-205	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATAACGGTCCAGACTACTGGGGTCAATGGGGCC AGGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCT TCTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGAC CCAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACG CTGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTG GTATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGT GCGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCG GCTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAG GATTTTGCCGTTTACTATTGTCAAGTGTGGGACAGCTCTAGCGATCA CTGGGTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA
SEQ ID NO. 206	dc-206	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATACGGCCTACTCTTTACCAGTTGATTTTTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCCAACATTATGACAATT GGCCACCAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 207	dc-207	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGGCGACTCTTCTTCTTCTATGCCATACTTTGATTAC TGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCG GTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGC GGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTC CAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCT AGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCAC GCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCG CGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTC TCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGACG GCACGCCACCACGTACCTTTGGTCAAGGTACGAAAGTTGAAATTAA A
SEQ ID NO. 208	dc-208	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGGCGGTGGTAACTACGGTCAATTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGGACAG CCCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 209	dc-209	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGGCGGTGGTAACTACGGTCAATTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAACAG CCCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 210	dc-210	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGGCGGTGGTAACTACGGTCAATTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCTACAG CCCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 211	dc-211	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGGCGTTGGTCGCATCTTCCCATACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAACAGTCTTATAGCACGCC GTTCACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 212	dc-212	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGGCGTTGGTCGCATCTTCCCATACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAACAGACGTATATGACCC CACTGACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 213	dc-213	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCATCGCTTAGCCAACTACACGCGCGTGGATCGCTA CTATGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGTTTGGCACAGCGGCGATAACCGCTGGGTTTTCGGCCAAGGCAC CAAAGTTGAGATCAAA
SEQ ID NO. 214	dc-214	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCATTCTCGCTCTATCTCTCCATACTATTTTGACTAC TGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGTG GTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGGC GGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCTC CGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTAG CTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCCA CGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGGC GCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TAACTCTTACTATAGCGGCGCCTTCGGTCAAGGCACGAAAGTGGAA ATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 215	dc-215	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGCCTTATACGGTGGTTTAGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAAGCTATTCTAC CACGTTCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 216	dc-216	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGCCCCATTCTGGCCACGCTCTTACACCTATTT CGACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAG TGTGGGACTCTTCTCATCATAGCCGCGTTTTCGGTCAGGGTACCAAA GTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 217	dc-217	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGCCGTTGCCTTAGGTTGGGCCTTCGATCGTTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGAT TCTAGCTTATCTGCCGGCGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA
SEQ ID NO. 218	dc-218	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGCCCCATCTGGTTACTTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATAACAAT TGGCCACGCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 219	dc-219	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTCCGCGGTGGTGGTTCTTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACGAT AACTTATTATGGACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 220	dc-220	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTCCGCGGTGGTGGTTCTTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACAAT TCTTACTTATGGACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 221	dc-221	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGCCGTTACGTACGGTGCGCTGGGTGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGCGT GGGACATCTCTAGCACCTATGTTTTCGGTCAAGGCACGAAAGTGGA AATCAAA
SEQ ID NO. 222	dc-222	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGCCGTTAACTTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAACCAGCGGTACC CAAGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 223	dc-223	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCTGCTGTCTTAT TCTTCTGTTCGTGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 224	dc-224	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACGGC TCTTCTCCAGCGTGGACCTTTGGTCAAGGTACGAAAGTTGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 225	dc-225	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGAT TCTGGTTTACGTGGCAAAGTTTTCGGTCAAGGCACGAAAGTGGAAA TCAAA
SEQ ID NO. 226	dc-226	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGAT TCTTCTCGCAGCGGCTATGTTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 227	dc-227	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGAC AATTCTTCTGACCCGCATTATGTTTTCGGTCAAGGCACGAAAGTGGA AATCAAA
SEQ ID NO. 228	dc-228	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTTTATACCGCTACTTTTATTACTA CAAAGTTGGCGATGCGTTCGACTACTGGGGCCAGTGGGGCCAGGGT ACGTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAGCAG CGGCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACGCAA AGCCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGTTAA GCTGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGGTAC CAGCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCGCGA GCTCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGGTTCT GGCACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAAGACT TTGCCGTTTACTATTGCCAGTCTGCCGACTCTAGCGGTACCTATCCG TGGGTTTTCGGTCAGGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 229	dc-229	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTGCCGCCTGGGATGATAGCTTAATCGACCCAGTGTTCGGCCAG GGCACGAAGGTTGAAATCAAA
SEQ ID NO. 230	dc-230	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTGCCGCCTGGGATGATAGCTTAAACGCCGTTGTGTTCGGCCAG GGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 231	dc-231	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTGCCGCCTGGGATGATAGCCCAAACGGTCGCGTGTTCGGCCA GGGCACGAAGGTTGAAATCAAA
SEQ ID NO. 232	dc-232	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTGCCGGTTGGGATGATAGCTTATCTGGTTGGGTTTTTGGTCAG GGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 233	dc-233	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTGCCTCTTGGGATGATAGCTTAAACGGTCGCGTGTTCGGCCAG GGCACGAAGGTTGAAATCAAA
SEQ ID NO. 234	dc-234	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTGGTGTTTGGGATAGCAGCGTTGGTGGTTGGGTTTTTGGTCAG GGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 235	dc-235	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTCAAGCCTGGGATAGCAATACGGCCGTTTTCGGCCAAGGCAC CAAAGTTGAGATCAAA
SEQ ID NO. 236	dc-236	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTCAACAAAGCTATAGCCCACCACCAACGTTTGGTCAGGGCAC CAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 237	dc-237	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTCAATCTTATGATAGCTCTTTATTACCAGGCGTTGTGTTTGGCC AAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 238	dc-238	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTCAAACGTGGGATAGCTTTGGTCAAGTTTTCGGCCAAGGCACC AAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 239	dc-239	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCGCTCTGCCGCCATCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGC TCTTCTTCTCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTAA A
SEQ ID NO. 240	dc-240	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCACTCTGCCTACCGCGGTGGCTTTTACTC TTATACGTTTGATTATTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTCAAGCGTGGGATAGCACGGACCACGTTGTGTTCGGCCAGGGC ACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 241	dc-241	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCACACGATGTTAGGTTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGAT TCTAGCCGCGGTTCTGGCGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA
SEQ ID NO. 242	dc-242	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCACACGATGTTAGGTTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATGGT AGCCGCTCTCCAGTGTGGAGCTTTGGTCAAGGTACGAAAGTTGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 243	dc-243	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCACACGATGTTAGGTTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTCTGTATTAC GGCGGTGGTGACCGTCTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 244	dc-244	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACATCTGGTACTACTTCGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAAGCTGGGCCAAAAG CGGTGGCAACCGCGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 245	dc-245	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAGGTACGGGTTTCATGCAAGGCTATTG GGCCTTAGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACC GTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGG TAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACC TTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCT CAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGG GTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACC GGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTAC GTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATT GTAATTCTCGCGACAGCCGTGGCAACAACTTATGGGTTTTTGGTCAG GGCACCAAGGTTGAGATTAAA
SEQ ID NO. 246	dc-246	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCGGTTCTTCTTTCGATTATTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCCAAACCTGGGATATCG GCACGTACGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 247	dc-247	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCCCATTAGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 248	dc-248	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT ACCTCTTTAGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 249	dc-249	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACATTTTGGTAGC TCTCCAAAGCTGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 250	dc-250	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCTACAG CCCACCACCAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 251	dc-251	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATAACAGC TTCCCATTAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 252	dc-252	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAAGCTATGACAGC TCTTTATCTGGCGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 253	dc-253	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAAGCTATGACAGC TCTTTATCTAGCCTGGTGGTTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 254	dc-254	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAACCTGGGATTCT TTTGGTCAAGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 255	dc-255	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACCAAGGCGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 256	dc-256	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTACCAGGTACGATGTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCGTTCT AATTGGCCATGGACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 257	dc-257	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTACGCTTCTCTGGTGTTTTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGACC GTTCTTCTGACCAGTATGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 258	dc-258	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTACGCTGGAACAACGTTAACAATGATTC TTACGGCATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAAGCCTGGGACAGCAGCGGCGCCGTTGTTTTCGGCCAAGG CACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 259	dc-259	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGAAACCGGTGAT TCTAACAACCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTA AA
SEQ ID NO. 260	dc-260	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTTCTCCATATGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 261	dc-261	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CACCTCTACGTGGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 262	dc-262	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGCGCAA AAACAACCCACGTACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 263	dc-263	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGCGCAG CAACTGGCCACCACTGACCTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 264	dc-264	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTAGC TCTTTCTCTCCGTATACCTTCGGTCAAGGTACCAAGGTGGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 265	dc-265	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTTAT TCTCCACCAATTACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 266	dc-266	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTTAT TCTCCACCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 267	dc-267	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTTAT TCTACGTTATATACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 268	dc-268	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACGAT TCTACGTTATGGACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 269	dc-269	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACGGC TCTTCTCCACTGATTAGCTTCGGTCAAGGTACCAAGGTGGAAATTAA A
SEQ ID NO. 270	dc-270	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACAAT GGTTTACGCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 271	dc-271	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACAAT TCTTTCCCACTGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 272	dc-272	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGAC AGCTTCGGTCAAGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 273	dc-273	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGAC AGCTCTGACTCTGATCATGTGGTTTTCGGTCAAGGCACGAAAGTGGA AATCAAA
SEQ ID NO. 274	dc-274	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGAC AGCTCTTCTGGTGATCAGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 275	dc-275	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGTATTACGGC TCTTACCCACTGTATGCGTTCGGTCAAGGTACCAAGGTGGAAATTAA A
SEQ ID NO. 276	dc-276	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTACAGC GGTTCTTCTACCTTTTGGGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 277	dc-277	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAGTTACGGGTTCTTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCTACATT ACGCCATGGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 278	dc-278	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAGTTGTTGGTGCCTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAACAG CTTCCCATGGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 279	dc-279	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAGTTGTTGGTGCCTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCATAAGAG CTACCCACACTTTACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 280	dc-280	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAGTTGTTGGTGCCTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATAAGAG CCACTCTACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 281	dc-281	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTATACGCCATCTCTTTATTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGAC AGCCGCACGTGGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 282	dc-282	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCAAGAGGGTTACCGCGCCTATGGCTACA ACGGCATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGAC CGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTG GCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGAC GTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCT CTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCA GGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGAC CGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCA CGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTAC TGCGGTACGTGGGACAGCAGCCTGTCTGGTAACTGGGTTTTTGGTCA GGGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 283	dc-283	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCAAGAGGGTTACCGCGCCTATGGCTACA ACGGCATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGAC CGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTG GCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGAC GTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCT CTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCA GGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGAC CGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCA CGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTAC TGCATGCAAGGTGCCCATTGGCCGTGGGCGTTCGGTCAAGGTACCA AGGTGGAAATTAAA
SEQ ID NO. 284	dc-284	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCGCCGCCACACGCGCGGTACCTGGGGCC AATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTC TCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAA ATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTG AGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCT TATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTACCTCTTATACCTCTAG CTCTGAGTTATATGCGTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 285	dc-285	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCGCTCTGTTGTTCCAACGTATTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGC GCTCTAACTGGCCGCCGAGCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA
SEQ ID NO. 286	dc-286	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTCTGGTACGCACGGTACGTTTGATATCTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTTAGAT TCTATCTTACGTAGCTGGGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 287	dc-287	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGAGGAGTGGGACGATAGCCTGAAGGGTCAAGTTTTTGGTCA GGGCACCAAGGTTGAGATTAAA
SEQ ID NO. 288	dc-288	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGGTACGTGGGACAGCAGCCTGTTAGGTGCCGGTGTGTTCGG CCAGGGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 289	dc-289	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGGTACGTGGGACAGCAGCCTGCGCGCCGTTGTTTTTGGTCAG GGCACCAAGGTTGAGATTAAA
SEQ ID NO. 290	dc-290	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGGTGTTTGGGACAGCAGCGGCGCCGTTGTTGTTTTTGGTCAG GGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 291	dc-291	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCTTACAACACAATAGCTATCCATGGACGTTCGGTCAGGGTACC AAAGTGGAGATCAAA
SEQ ID NO. 292	dc-292	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAAGCCTGGGACAGCAGCAGCGACCACGTTGTTTTTGGTCA GGGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 293	dc-293	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAAGCCTGGGACAGCAGCACCTCTCACGTTGTTTTTGGTCAG GGCACCAAGGTTGAGATTAAA
SEQ ID NO. 294	dc-294	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAATCTGATAGCAATCCATACTCTTTCGGCCAAGGCACC AAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 295	dc-295	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAATCTTATAGCCCGCCACCAACGTTCGGCCAAGGCAC CAAAGTTGAGATCAAA
SEQ ID NO. 296	dc-296	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAATACGGCAGCAGCCCACGCACGTTCGGCCAAGGCAC CAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 297	dc-297	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAATACAAACGTCCGTTAACGTTCGGTCAGGGTACCAA AGTGGAGATCAAA
SEQ ID NO. 298	dc-298	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAAGTTTGGGACAGCAGCAGCTCTTCTTTACCAGTGGTTTTT GGCCAGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 299	dc-299	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGATGTACTGGCAATCTTACTTAGACTATTG GGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGC AGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGG TGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCG GGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTC TTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTT TATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGT TTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCG CTTAGAACCGGAGGACTTCGCGGTTTACTATTGTAATGCCTGGGATA GCACGCTGCGCCAAGTTGTGTTTGGCCAAGGTACGAAGGTGGAGAT TAAA
SEQ ID NO. 300	dc-300	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGCGCCGCTACGCCGGTCACAGCGTGGACT ACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGG TGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCG GCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATC TCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGGCACGTG GGATTCTTCTTTAAGCGGCCTGTCTTACGTTTTCGGCCAAGGCACCA AAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 301	dc-301	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGTCTGTTTCTGGTTCTCGCCTGGGCTGGTT CGACCCGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAG TGTGGGACTCTTCTAGCGATGGCTACGTTTTCGGTCAGGGTACCAAA GTGGAGATCAAA
SEQ ID NO. 302	dc-302	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGACGACGGGTATCGGTGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTACGGCCAGCGTGGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 303	dc-303	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGACGACGGGTATCGGTGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCTGTGGGGT ACCGGTGGTGACCTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 304	dc-304	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGACGACGGGTATCGGTGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTACAGC TCTTCTTCTAGCATTGCGTGGATCTTCGGTCAAGGCACGAAAGTGGA AATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 305	dc-305	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATTCAACCCAGTTGGTGGTTTCGATGTGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGATTCT AGCTTATTATCTGCGTGGGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA
SEQ ID NO. 306	dc-306	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTGGTTGGGCCTACATCTTCGACTATTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATAGC TCTAGCTCTTCTGCCGTGTTTGGCCAAGGTACGAAGGTGGAGATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 307	dc-307	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTGGTTACGGTCACTCTGGTTATGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGGTACCTT AGACTCTAGCCTGAGCTTATGGGTTTTCGGTCAGGGTACCAAAGTGG AGATCAAA
SEQ ID NO. 308	dc-308	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTCACTCTTCTACGTACGTTATTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTACGACGGGCTATGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 309	dc-309	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTATCCCATTACAATACACGTATGGCAACGA CCGTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACCACCACTGGCCGCTGACCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA
SEQ ID NO. 310	dc-310	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTTATCTTGGGCCGGTTCTTACGGCTATGTT ATCGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGT CTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGC GGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTAT CTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAA AGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTC AAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGC ATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTT AACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTC AGCAATACTACAGCACCCCGCCAGCCACGTTCGGCCAAGGCACCAA AGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 311	dc-311	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTTATGGGGTGCCTTCGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAGCGTGGGACAGCCG TACGCCGTACGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 312	dc-312	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTCGCGGTTGGAAGGGTTTAGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTGGCTCTTATGGCTCTA CCTCTGGTTTATATGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 313	dc-313	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTCGCGGTTGGAAGGGTTTAGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGGCCTGGGATAGC TCTAGCTTAGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 314	dc-314	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTCGCGGTTGGAAGGGTTTAGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGTCTTATGATTCTA GCTTATCTTCTCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 315	dc-315	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTCGCGGTTGGAAGGGTTTAGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGTCTTATGATTCTA GCTTATCTTCTAGCCTGGTGGTTTTCGGTCAAGGCACGAAAGTGGAA ATCAAA
SEQ ID NO. 316	dc-316	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTCGCGGTTGGAAGGGTTTAGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGTCTTATGATTCTA GCTCTGGTCCACTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 317	dc-317	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTCGCGGTTGGAAGGGTTTAGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGGTTTGGGATAGC ACGACCGACTTAAACTATGTGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA
SEQ ID NO. 318	dc-318	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTACGCAATACCGCGCCTGGTGGTCTGTGCG TGGTTACATGGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTG ACCGTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGG CGGTAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCG ACCTTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGC CTCTCAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAG CCGGGTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGC CACCGGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATT TTACGTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTAT TATTGTCTGTCTTACACGAGCACCCATAACTGGGTTTTCGGTCAGGG TACCAAAGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 319	dc-319	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTACGACGCGCTTAGGTGACAATTGGGGCC AATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTC TCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAA ATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTG AGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCT TATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATAGCT CTCTGGGTGCCCGCTATGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 320	dc-320	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTACGACGCGCTTAGGTGACAATTGGGGCC AATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTC TCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAA ATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTG AGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCT TATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATAGCT CTAGCTCTCCAGACTATGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 321	dc-321	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTGGGGTTACCGCGGTGACATCTATGGCTA CTTCGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT AGCGCCTACACGAGCAGCAGCACGGTTTTCGGTCAGGGTACCAAAG TGGAGATCAAA
SEQ ID NO. 322	dc-322	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTACGGTCCAGCCAACGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTGGGAC AGCTCTGACCACTTTGTGTTTGGTCAAGGTACGAAAGTTGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 323	dc-323	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTACGGTCCAGCCAACGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTATGCAGGGCTCT CGTTGGCCATTAGCCTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 324	dc-324	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTACGGTCCAGCCAACGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTTAT TCTACGTTATATACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 325	dc-325	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTACGGTCCAGCCAACGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACAAT TCTGCCGACCCGTATACCTTCGGTCAAGGTACCAAGGTGGAAATTA AA
SEQ ID NO. 326	dc-326	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTACGGTCCAGCCAACGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTGGGA CAGCAACACGGTTATGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 327	dc-327	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACACGGTGACGTTGACACGATGGCCGTGCCGTT CCACAGCTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGGTA CCTGGGACTCTTCTCTGCTGAGCTACGTTTTCGGTCAGGGTACCAAA GTGGAGATCAAA
SEQ ID NO. 328	dc-328	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACACTCTCCATCTGAGTCTTGGCCACTGGATCA CTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCAGCTG GGAGAGCAACGTTAACCGTTTTTATGTTTTCGGTCAAGGCACGAAA GTGGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 329	dc-329	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACACACGATCTCTGAGCGCCCATTTAAACCATG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGGTAAT ACGCCAGGTCAGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 330	dc-330	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAATCTGGCGCCGCTACTTCGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGGCCTATAGCTT CCCGCCAACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 331	dc-331	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATTACGCGTTTCTCGCGACTGGTCTACCAATTA CCAATGGAATCCATATTTTGATATCTGGGGTCAATGGGGCCAGGGC ACCTTAGTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTC TGGCGGCGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAG TCTCCAGCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTAT CTTGTCGTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTAT CAACAAAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCA GCAGCCGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGC GGTACGGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTT TGCCGTGTACTACTGTAGCAGCTATACGTCTTCTTCTACCTGGGTTTT TGGCCAGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 332	dc-332	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACTACGGTGGTTCTTTAGACAATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTATGCAGGCCACCTGGCC GCCACAGACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 333	dc-333	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAAACTACGGTGGTTCTTTAGACAATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATGATAACCC GCCACCAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 334	dc-334	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACGCCACGACGCCTTATGGGCCTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTGCGTGGGAT TCTAATCACTTACGCATTTTTGGCCAAGGTACGAAGGTGGAGATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 335	dc-335	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACGCCACGACGCCTTATGGGCCTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCGTTCT AATTGGCCACCATACACCTTTGGCCAAGGTACGAAGGTGGAGATTA AA
SEQ ID NO. 336	dc-336	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACGCCACGACGCCTTATGGGCCTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGAT TCTAGCTCTTCTCACCATGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 337	dc-337	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTGGTAAGTACCGCCGCTTCGGCATTTACCC AGATTACATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTGGTG ACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGG CGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCC ACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCG CCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAA GCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTG CGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGA CTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGT ACTATTGTCAACAAAGCAATATTTTACCAATCACGTTTGGTCAGGGC ACCAAGGTTGAGATTAAA
SEQ ID NO. 338	dc-338	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTGGTAAGTACCGCCGCTTCGGCATTTACCC AGATTACATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTGGTG ACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGG CGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCC ACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCG CCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAA GCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTG CGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGA CTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGT ACTATTGTCAACAAAGCTATAGCCAACCAATCACGTTTGGTCAGGG CACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 339	dc-339	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTAAGACGTACCGCACGGGTACCCCGCCAG CCCCGGCCATGGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGT GACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTG GCGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGC CACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGC GCCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGA AGCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGT GCGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCG ACTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTG TACTATTGTTCTTCTTATATTAGCTCTGGTACGTACGTGTTCGGCCAG GGCACGAAGGTTGAAATCAAA
SEQ ID NO. 340	dc-340	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTTTATGGGGTGGTTTCGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAGCGTGGGACAATAA TTCTGGCGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 341	dc-341	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTTTATGGGGTGGTTTCGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAGCGTGGGACAGCAG CTCTAGCGCCGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 342	dc-342	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTTTATGGGGTGGTTTCGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAGCGTGGGACAGCAG CACGGTGGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 343	dc-343	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTTTATACGGTGGTATGGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAACCTGGGACAGCCG TTTAAATTCTGCCGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 344	dc-344	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTTCTTTAATGGTTCGCGGTGACATGGTGCC GCACTTCGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACC GTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGG TAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACC TTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCT CAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGG GTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACC GGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTAC GTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATT GTCAGGCCTGGGACTCTAGCAGCATTGTTGTTTTCGGTCAGGGTACC AAAGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 345	dc-345	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGTTATCCCAGAGAAGGTTGCCGGCCTGGACCA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGTTATG GGATGACACGAACACCCAGGTGTTATTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 346	dc-346	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGTTATCCCAGAGAAGGTTGCCGGCCTGGACTC TTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGCCTG GGATTCTTCTTCTGCGCATCTGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 347	dc-347	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGTTTCTGCCGGTGTTGGTGCCTTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACACCC ACCGCGGTGTGGAAGTGTTCGGTCAAGGTACCAAGGTGGAAATTAA A
SEQ ID NO. 348	dc-348	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATACTCTGCCCCAGGTTACGCCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGC TCTTCTTCTCTGGGCGTGTTCGGTCAAGGTACCAAGGTGGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 349	dc-349	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCTGGGTTCTTACTGGACGGGTCCATGGAAGGATTA TTGGGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGC GGCTCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGG TGGCGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGC CCAGGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTC TTCTAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCG CGCTTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGC GCGTTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTT CTCGCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGG GATTCTAGCACGGACCAATGGGTGTTTGGCCAAGGTACGAAGGTGG AGATTAAA
SEQ ID NO. 350	dc-350	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAATCACAAGCCATACGGTTTCGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATAGCT CTAGCTCTCCAAACGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 351	dc-351	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCCGTACGCCGACTACTTCGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAACAGTACAATAGCTACA GCCAATACTCTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 352	dc-352	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCCGTACGCCGACTACTTCGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAAGCCAAGATAGCTCTG GCGACTTCCGCGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 353	dc-353	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCCGTACGCCGACTACTTCGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAGCAGCT CTGATGACTACGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 354	dc-354	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCCGTACGCCGACTACTTCGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAGCAGCT CTGATCACGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 355	dc-355	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCCGTACGCCGACTACTTCGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCTCTAGCTACACCAGCTCTAG CACGGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 356	dc-356	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCGGTGGTGTTCCACGCGGTTATGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGCGT GGGACTCTTCTACCGGCGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 357	dc-357	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCGGTCGCTCTCGCGGTTGGTACGGCTTTGA CTTATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGC CAGCGACTCTTCTAGCGTGGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA
SEQ ID NO. 358	dc-358	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCGGTGTTGGTGCCACGCCAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCATGCAAGCGCTGCAA ACCCCATTAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 359	dc-359	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCGGTGTTGGTGCCACGCCAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCATGCAAGCGCGTCAA AGCCCATTAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 360	dc-360	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCTTAACGTGGAACTACCCATTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAAAATATTAC AGCGCCCCACGCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 361	dc-361	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCCAAGGTGTTTTAACGCGCGAAAGCTACTA CGGCGGTATGGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTG ACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGG CGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCC ACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCG CCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAA GCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTG CGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGA CTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGT ACTATTGTCAACAAGAAAATAGCCCACCAATCACGTTTGGTCAGGG CACCAAGGTTGAGATTAAA
SEQ ID NO. 362	dc-362	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCCGCGTTGGTGCCACGCCAACCCATGCCTT CGATATCTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCT TCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCG GCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATC TCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAA GCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCA AGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCA TTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTA ACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTCG TGTTTGGGACTCTAGCAGCACCTGGGTTTTCGGTCAAGGCACGAAA GTGGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 363	dc-363	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCACGCGCTACTTCGACTGGCAATATCGTTA CGGTATGGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACC GTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGG TAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACC TTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCT CAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGG GTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACC GGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTAC GTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATT GTAGCTCTTACTCTAGCACCAGCACGCCATACGTTTTTGGTCAGGGC ACCAAGGTTGAGATTAAA
SEQ ID NO. 364	dc-364	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCACGCGCTACTTCGACTGGCAATATCGTTA CGGTATGGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACC GTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGG TAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACC TTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCT CAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGG GTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACC GGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTAC GTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATT GTAGCTCTTACACGAGCAGCAGCTCTGTTTACGTTTTTGGTCAGGGC ACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 365	dc-365	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGCCGCCTACGGTGACGTTGTGCGTCCAGC CTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCG ACGTTGCCGTGACCGATGGTCGCTGGGTTTTCGGCCAAGGCACCAA AGTTGAGATCAAA
SEQ ID NO. 366	dc-366	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGCCGCCTACGGTGACGTTGTGCGTCCAGC CTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGCCTGGGACAGCAATCCGGCCGTTGTTTTCGGCCAAGGCACCAA AGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 367	dc-367	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGCCGCCTACGGTGACGTTGTGCGTCCAGC CTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCT CTGCCGTTGGCGGCAGCGCCCGCTGGGTTTTCGGCCAAGGCACCAA AGTTGAGATCAAA
SEQ ID NO. 368	dc-368	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGCCTTCCGCTACGACCCACGTGGCGAGTA CGGCTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAACGTGGGGCAATACCCACTTAGTTTTCGGCCAAGGCACCA AAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 369	dc-369	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGCCCGCTACGTTCCAGACGATGGCTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCACGTACGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 370	dc-370	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGCCCGCTACGTTCCAGACGATGGCTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGGGCGACAG CTCTACGGTTCTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 371	dc-371	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGACTCTTACCGCGGTCCACTGCATGGTTA CTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGCCTGGGACAGCAGCACCTTAGTTGTTTTCGGCCAAGGCACCAA AGTTGAGATCAAA
SEQ ID NO. 372	dc-372	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGACTCTTACCGCGGTCCACTGCATGGTTA CTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAACGTGGGACAGCTTTGGCCAAGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 373	dc-373	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGACTCTTACCGCGGTCCACTGCATGGTTA CTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAACGTACGATGATAATCGCTCTGCCGTTGTGTTCGGCCAGGGCAC GAAGGTTGAAATCAAA
SEQ ID NO. 374	dc-374	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTGCCTCTGGTGACTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCTGAACACC TACCCACCATGGACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 375	dc-375	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTGGTGGTGACTACGGTTTTGATCCATG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACGAT CGCTTACCACTGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 376	dc-376	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTGGTACGGCCGCCTTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGC TCTTCTCCACTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 377	dc-377	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTGGTTACCGCCGCACGAATTATTGGTT CGACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCAACA GCCGCGACTCTGATAGCCATCAAGCCGTTTTCGGCCAAGGCACCAA AGTTGAGATCAAA
SEQ ID NO. 378	dc-378	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTCGCGCCCCAGCCTCTGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGC TCTTCTGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 379	dc-379	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAT GTACTATTCTAGCTATATGGATTACTGGGGTCAATGGGGCCAGGGC ACCTTAGTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTC TGGCGGCGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAG TCTCCAGCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTAT CTTGTCGTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTAT CAACAAAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCA GCAGCCGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGC GGTACGGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTT TGCCGTGTACTACTGTCAGAGCTATGACTCTTCTTTAAGCGGTGATG TGGTGTTCGGTCAAGGCACGAAGGTGGAGATTAAA
SEQ ID NO. 380	dc-380	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATAACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTCTTACTCTCCACCGCCAACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 381	dc-381	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCGCGGCGTGGGACGACTCTTCTCTGTCTGGC TATGTGTTCGGTCAAGGCACGAAGGTGGAGATTAAA
SEQ ID NO. 382	dc-382	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGGCCAACCGCTTCCCGTTCACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 383	dc-383	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTCTGACACGCCAATGTATACGTTT GGCCAGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 384	dc-384	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTCTTACTCTCCACCGGCCTATACC TTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 385	dc-385	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTCTTACTCTCCACCGCCAACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 386	dc-386	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTACTACTCTTACCCGCAAACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 387	dc-387	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGAGCTACGACTCTTCTCTGTCTGGCTGG CTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 388	dc-388	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGACCTGGGACTCTTTCGGTCAGGTTTTT GGCCAGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 389	dc-389	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGGTGTGGGACTCTAACTCTAGCCCACGT GTGGTGTTCGGTCAAGGCACGAAGGTGGAGATTAAA
SEQ ID NO. 390	dc-390	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGGTGTGGGACTCTTCTTCTGATTTACAG GGCGTGTTCGGTCAAGGCACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 391	dc-391	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCAGCAGCTACACGTCTTCTAGCACGCGTGGC TTTGGTCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 392	dc-392	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACATCGGTTCTGGTGCCTTCGATATTTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCTACAG CCCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 393	dc-393	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACAAGGAGGCCTACCGCTCTAGCAATTCTTA CTGGTATGGTATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTG GTGACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGG TGGCGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCG GCCACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTC GCGCCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAG AAGCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCG TGCGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACC GACTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGT GTACTATTGTGGTACGTGGGATAGCAGCTCTGGTGCCGGTGTGTTCG GCCAGGGCACGAAGGTTGAAATCAAA
SEQ ID NO. 394	dc-394	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACAAGGGTGCCGACACGCCATTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCTGCAGTACCAT GCCTTCGCCAGCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 395	dc-395	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACAAGGGTGGTATGGTTCCATTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATGAC AGCGTTCCATTAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 396	dc-396	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACAAGGGTGGTATGTACGGTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATGAC AGCTTACCATTAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 397	dc-397	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACAAGTCTGGTTACCGCTCTGGCCATATCGG TATTTACGGCGGCCTGGGTATGGACGTTTGGGGCCAGTGGGGCCAG GGTACGTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAG CAGCGGCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACG CAAAGCCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGT TAAGCTGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGG TACCAGCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCG CGAGCTCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGG TTCTGGCACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAA GACTTTGCCGTTTACTATTGCCAGGTTTGGGACTCTTCTAGCTTCTGG GTGTTTGGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 398	dc-398	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTATTCGCCTACCGCCACGTGGGCTACGG TTGCTTCGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTGGTACGTGGGATAGCCGTTTATTATCTGGTGGCATGTTCGGCC AGGGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 399	dc-399	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTAGGTAACTACCGCTCTAAACAGGTTTA CTTTAACGCGTTTGATATCTGGGGTCAATGGGGCCAGGGCACCTTAG TTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGGCGGC GGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCTCCAG CGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTTGTCGT GCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAACAAA AACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCAGCCG TGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGTACGG ATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGCCGTG TACTACTGTCAGGCGTGGGATTCTCGCTCTGCCAATGTTGCGTTTGG CCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 400	dc-400	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTACGCGGTGCCTGGGGTCCAGGCGGCTT CGACGTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAC AGTACTACTACACCCCGCTGACGTTCGGTCAAGGCACGAAAGTGGA AATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 401	dc-401	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTACGCGGTATCGCCGTTGCGGCGAACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGAT ATCTCTTTAAGCGCGCTGGTTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 402	dc-402	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTACGCGGTTACCGCGGTGGCGGCACGTA CGATGCCTTTGATGTGTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTGGTACCTGGGATAGCTCTTTATTACGCGCGTCTTGGGTGTTTG GCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 403	dc-403	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTACGCGGTTACCGCGGTGGCGGCACGTA CGATGCCTTTGATGTGTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTGGTACCTGGGATAGCTCTACGACGGCCGGCGTTTTTGGCCAGG GTACGAAGGTGGAGATCAAA
SEQ ID NO. 404	dc-404	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTAACGGGTTACCGCTCTCGTAGCTACCA ATGGGATGGTATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTG GTGACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGG TGGCGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCG GCCACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTC GCGCCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAG AAGCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCG TGCGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACC GACTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGT GTACTATTGTATGCAAGCCCTGACCCCGACGATCTCTTTCGGCCAAG GCACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 405	dc-405	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTAACGGGTTACCGCTCTCGTAGCTACCA ATGGGATGGTATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTG GTGACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGG TGGCGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCG GCCACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTC GCGCCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAG AAGCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCG TGCGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACC GACTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGT GTACTATTGTCAATCTTATGATAGCTCTTTATCTGCCTATGTTTTTGG CCAGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 406	dc-406	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTAACGGGTTACCGCTCTCGTAGCTACCA ATGGGATGGTATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTG GTGACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGG TGGCGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCG GCCACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTC GCGCCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAG AAGCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCG TGCGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACC GACTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGT GTACTATTGTCAATCTTATGATAGCTCTTTATCTGGTTATGTTTTTGG CCAGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 407	dc-407	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACAACGGTGCCGGTGCCTTCGGCGTGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCTGAACAG CAACCCACCATGGACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 408	dc-408	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACAACTTAGGTTACCGCGGTACCCATTCTGG TTATGCCATGGATAGCTGGGGCCAATGGGGTCAAGGCACCCTGGTG ACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGG CGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCC ACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCG CCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAA GCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTG CGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGA CTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGT ACTATTGTCAAGTTTGGGATAGCAGCACGTCTGTTGTTTTTGGTCAG GGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 409	dc-409	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACAACCAATACGGTGCCGACGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGACCTACACC TTACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 410	dc-410	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCAGCCTTATACTCTGGTATGGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGAGACCTGGGG CCGCGATACGCGCGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 411	dc-411	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCAGACTCTTACCGCTCTAGCGGCACGTA CTATTTCGATGTGTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAATATGATAGCCCACCATGGACGTTCGGCCAAGGCACC AAAGTTGAGATCAAA
SEQ ID NO. 412	dc-412	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCACACGGTGTTATGGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAACCTGGGGTACCGG CGAGGTGGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 413	dc-413	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCATTAGGTTACTTAGACGTGTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGACGTGGGGCACCG GTATTCACGGTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 414	dc-414	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCAATGGCCACGCGCTACTACTATTATGG TATGGACGTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTG AGCTCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTC TGGCGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTG TCTTTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCA ATCTGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCC AAGCCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGC ATTCCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTT AACGATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCC AAGCGTGGGACTCTTCTGGCCTGGGCGTTTTCGGTCAAGGCACGAA AGTGGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 415	dc-415	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCATCTGGTTCTTTAGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGACGTGGGGCACCG GTACCGTTGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 416	dc-416	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCATCTGGTTCTTTAGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGTTTGGGATTATTC TAGCGACTTACACGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 417	dc-417	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCATCTGGTTCTTCTGGTCTGGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGAC AGCTCTGCCCACGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 418	dc-418	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCATCTGGTTCTTCTGGTCTGGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGATT CTTCTTTAAGCGGCCCGAACTGGGTTTTCGGTCAGGGTACCAAAGTG GAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 419	dc-419	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCAACGGGTTACCGCTTAAGCAGCTTATA CTATTACGCGGGCTTTGCCTACGGTATGGATCTGTGGGGCCAGTGGG GTCAAGGTACGTTAGTGACGGTTAGCAGCGGCGGTAGCAGCCGCAG CAGCAGCTCTGGCGGCGGTGGCAGCGGCGGCGGCGGCGAAATTGTT TTAACCCAATCTCCGGCGACCTTAAGCTTATCTCCAGGCGAGCGCGC CACCTTAAGCTGTCGTGCCAGCCAGTCTGTTAGCTCTAGCTACTTAG CGTGGTATCAGCAAAAACCAGGTCAAGCGCCACGCTTATTAATTTAT GGCGCCAGCAGCCGTGCCACCGGCATTCCAGCCCGTTTTAGCGGTTC TGGCAGCGGTACGGACTTTACGTTAACCATCAGCCGCCTGGAACCA GAAGACTTCGCCGTGTATTATTGTCAAGCCTGGGACAGCTCTACCTA TGTGTTCGGTCAAGGCACGAAGGTGGAGATTAAA
SEQ ID NO. 420	dc-420	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCAACGGGTTACCGCTTAAGCAGCTTATA CTATTACGCGGGCTTTGCCTACGGTATGGATGTGTGGGGCCAGTGGG GTCAAGGTACGTTAGTGACGGTTAGCAGCGGCGGTAGCAGCCGCAG CAGCAGCTCTGGCGGCGGTGGCAGCGGCGGCGGCGGCGAAATTGTT TTAACCCAATCTCCGGCGACCTTAAGCTTATCTCCAGGCGAGCGCGC CACCTTAAGCTGTCGTGCCAGCCAGTCTGTTAGCTCTAGCTACTTAG CGTGGTATCAGCAAAAACCAGGTCAAGCGCCACGCTTATTAATTTAT GGCGCCAGCAGCCGTGCCACCGGCATTCCAGCCCGTTTTAGCGGTTC TGGCAGCGGTACGGACTTTACGTTAACCATCAGCCGCCTGGAACCA GAAGACTTCGCCGTGTATTATTGTATGCAAGAGACGCATTGGCCAC ATACCTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 421	dc-421	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCAACGCGCCGCTTCGACCTGTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGCCTGGGATAGCA CGCCGGGTGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 422	dc-422	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCAACGCGGTTACGGTATGGACGTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGGCCTGGGATAGC TCTCCGTCTGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 423	dc-423	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCAAACGTACTACGACTCTAGCCTGTCTTA CGGCTACGCGTTTGATATCTGGGGTCAATGGGGCCAGGGCACCTTA GTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGGCGG CGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCTCCA GCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTTGTC GTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAACA AAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCAGC CGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGTAC GGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGCCG TGTACTACTGTGAAACCTGGGGCTCTAACACGCGCGTGTTCGGCCAG GGCACGAAGGTTGAAATCAAA
SEQ ID NO. 424	dc-424	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTGGTTTAGTTTTCGATCTGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCAAGGCGTGGGATTCT AGCACGTCTGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 425	dc-425	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTGGTCGCGACGGTTATGGCATGGA CGTTTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA AAGCGACTCTCCACCGCTGACCTTCGGTCAAGGTACCAAGGTGGAA ATTAAA
SEQ ID NO. 426	dc-426	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACCGCGGTTACTATGCGGGTAA CTGGTTTGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCGGTACGTGGGACAGCAGCCTGGCCGCCCGCTGGGTTTTTGGTCA GGGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 427	dc-427	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACCGCGGTTACTATGCGGGTAA CTGGTTTGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCGGTACGTGGGACAGCAGCAATTCTGCCTGGGTTTTCGGCCAAGG CACCAAAGTTGAGATCAAA
SEQ ID NO. 428	dc-428	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACCGCGGTTACTATGCGGGTAA CTGGTTTGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCCAACAATCTTATAGCCCGCCACCAACGTTCGGCCAAGGCACCAA AGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 429	dc-429	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACCGCGGTTACTATGCGGGTAA CTGGTTTGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCCAAACGTTCGATCGTAGCTTATCTGGTGCCGTGTTCGGCCAGGGC ACGAAGGTTGAAATCAAA
SEQ ID NO. 430	dc-430	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACCGCGGTTACTATGCGGGTAA CTGGTTTGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCCAAACGTGGGACAGCTTTGGCCAAGTTTTCGGTCAGGGTACCAA AGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 431	dc-431	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACCGCTCTCGCGAACTGTTCTG GCAATTTGACTTTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCCAAGCCTGGGACAGCCGTACCTCTGCCGTTTTCGGCCAAGGCAC CAAAGTTGAGATCAAA
SEQ ID NO. 432	dc-432	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGAAACCTGGGA CAGCTACACGCACACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 433	dc-433	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCGCGTGGGA CAGCTCTTTATTAAGCGCGGCGGGTGTTTTCGGTCAGGGTACCAAAG TGGAGATCAAA
SEQ ID NO. 434	dc-434	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTGGGAC AGCCGCTTATTAAGCGGCGGCATGTTCGGTCAAGGTACCAAGGTGG AAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 435	dc-435	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCCGCACGGGTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 436	dc-436	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTTCTACGGATGTGGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 437	dc-437	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACTAT TCTTCTCCATATACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 438	dc-438	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGTGAT TCTTTCGGTCAGGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 439	dc-439	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGAC AGCTTCGGTCAAGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 440	dc-440	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGAC AGCTCTTCTGACCATTGGGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 441	dc-441	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCAAGGACTTCCGCATGGACGTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTGCGGAGTGGGCGGAT TCTCTGTCTGGTGGTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAA A
SEQ ID NO. 442	dc-442	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT CGTACGGTTATCTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 443	dc-443	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCTCTACGGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 444	dc-444	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCACGGGTGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 445	dc-445	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCACGCCAGACGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 446	dc-446	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCACGGTTATCTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 447	dc-447	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCACGGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 448	dc-448	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT ACCGCCGGTACGGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 449	dc-449	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT ACCACGGCCGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 450	dc-450	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCGGTGACCAAGCGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 451	dc-451	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACCAAGGCGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 452	dc-452	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCGAAACCTGGGACTCTTTCAACCATTTAGTG TTTGGCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 453	dc-453	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCATGCAGGCGACGCAATTCCCACGTACGTTT GGCCAGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 454	dc-454	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCATTACGACTCTACGCCGATCACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 455	dc-455	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTACGGTTCTTCTAGCCCAGATTAT ACCTTCGGTCAAGGCACGAAGGTGGAGATTAAA
SEQ ID NO. 456	dc-456	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGAGCTACGACTCTTCTAATCACGTGGTG TTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 457	dc-457	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGACCTGGGACTCTTTCGGTCAGGTTTTT GGCCAGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 458	dc-458	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCAGCGCGTGGGACTCTTCTCGCAGCGCCGGC GTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 459	dc-459	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTACGTTCTCTACGGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGC TCTTCTACGCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTAA A
SEQ ID NO. 460	dc-460	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTTTATACCGCGGTGGTGGCTATTTATA CTATGCCAGCTGGTGGATGGATCTGTGGGGTCAATGGGGTCAGGGC ACCCTGGTTACGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAG CGGTGGCGGCGGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAG AGCCCAGCCACCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGT CTTGTCGCGCGTCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTAC CAGCAAAAGCCGGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCT CTAGCCGTGCGACGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGC GGCACGGACTTTACCTTAACGATCAGCCGCTTAGAACCAGAAGACT TTGCGGTTTATTACTGTGGTACCTGGGATAATTCTTTATCTGACGGC CACTATGTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 461	dc-461	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTTCTAACTGGTTCGGTATCGATCATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAAGCGCGGA CAGCTCTGGTGCCATTTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 462	dc-462	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACACGGGTTACCGCGGTACGAGCATGCTGAT CGACCATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCATGC AAGGCTTACAAGGTCCGACCTTTGGTCAAGGTACGAAAGTTGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 463	dc-463	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACACGGGTTACCGCGGTACGAGCATGCTGAT CGACCATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCATGC AAGGCACGCACGGTCGTCCGAGCACGTTCGGTCAAGGCACGAAAGT GGAAATCAAA
SEQ ID NO. 464	dc-464	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGTTTTCCCATACTGGTTCGACAGCTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGTCTTATGCGGGTC GTCACGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 465	dc-465	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGTTGGTCGCGGTCGCGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAAGCTATTCTCC GCCAATCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 466	dc-466	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGTTATCGTTGTTGGTTCTTGGACCTATGCC TTCGGCTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGT CTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGC GGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTAT CTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAA AGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTC AAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGC ATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTT AACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTG GCACGTGGGACTCTAGCCTGACCGGTTTATCTGGTGTGTTCGGCCAG GGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 467	dc-467	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGTTAAGAACTACCGCGCCTATGAATTACA CAGCTTAAATTTTATGGATGTTTGGGGTCAATGGGGCCAGGGCACCT TAGTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGGC GGCGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCTC CAGCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTTG TCGTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAAC AAAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCAG CCGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGTA CGGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGCC GTGTACTACTGTCAGGTGTGGGATTCTTCTTCTTCTGATCGCGTGGT GTTTGGTCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 468	dc-468	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGTTTCTGGTGACGGTTTCGATTTTTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCCAAAGCTATGACAGCT CTTTATTAGGCCCGTATGTTGTTTTCGGTCAGGGTACCAAAGTGGAG ATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 469	dc-469	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGGCCGTTTCTCCATACTCTAATAGCCCACG CGCGGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTT TCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGCCTGGGACAGCACCCCGGGTGTTGTTTTCGGCCAAGGCACCAA AGTTGAGATCAAA
SEQ ID NO. 470	dc-470	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGGGTGGTTTCGGTGCCTCTGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAACAG CCCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 471	dc-471	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGGGTGGTCGCTTAGGTTTCGATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGATTCT AGCGCCCCAGCCGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 472	dc-472	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGGGTCGCCGCGGTATGGACGTTTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGGAGGATAGCCC ACCGATCACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 473	dc-473	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGGGTTCTGGTTACGAGTCTGATAGCTCTTC TCGTGTTGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAAGCGTATAGCCCACCAGTTACGTTTGGTCAGGGCACCA AGGTTGAGATTAAA
SEQ ID NO. 474	dc-474	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGGGTTACCGCTGTGCCTCTTGCGGCGCCTT CGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCT TCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCG GCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATC TCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAA GCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCA AGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCA TTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTA ACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTGG CACGTGGGACTCTAGCCTGAGCGGTGTTTTCGGTCAGGGTACCAAA GTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 475	dc-475	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGAACTTATGGTCTGCCTCTGGTGGCGCGCC ATCTATGGATCCATGGGGCCAGTGGGGCCAAGGTACGCTGGTGACC GTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGG TAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACC TTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCT CAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGG GTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACC GGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTAC GTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATT GTACCCAATCTTTACAGCCGCCGATCGTTTTCGGTCAGGGTACCAAA GTGGAGATCAAA
SEQ ID NO. 476	dc-476	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCCATACCGCGTTCGCTTATTTCGTTACAT GGACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAA GCTACGACTCTCGTCTGAGCGGTTTCTACGTTTTTGGTCAGGGCACC AAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 477	dc-477	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGCCGGTTACGGTGTTTGGAGCGCGAC GCGCATGGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACC GTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGG TAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACC TTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCT CAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGG GTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACC GGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTAC GTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATT GTCAGCAAGCCTACAGCCCGCCGGTTACGTTCGGTCAGGGTACCAA AGTGGAGATCAAA
SEQ ID NO. 478	dc-478	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCG CCTCTTGGGACGATAGCCTGAACGGTCGCGTTTTTGGTCAGGGCACC AAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 479	dc-479	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCG GTACGTGGGACAGCAGCCTGTCTGCCGGTGGTGTGTTCGGCCAGGG CACGAAGGTTGAAATCAAA
SEQ ID NO. 480	dc-480	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAAGCCTATAGCCCGCCAGTTACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 481	dc-481	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAAGAGGATAGCCCGCCAATCACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA
SEQ ID NO. 482	dc-482	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAATCTGATAGCCCGCCAATCACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 483	dc-483	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAATCTAATAGCCCGCCAATCACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA
SEQ ID NO. 484	dc-484	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAATCTTATAGCCCGCCAATCACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 485	dc-485	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAATCTTATAGCCCGCCACCAACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA
SEQ ID NO. 486	dc-486	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AATCTTACGATGATACCGGTCCATTATTCGGCCAAGGCACCAAAGTT GAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 487	dc-487	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTTCTGGTGAGTACGCGGTGGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAA GCGACTCTCCACCGATTACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 488	dc-488	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGGTTGGTCGCGCCTCTCGCCATTATTTCATC TATGGTATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTCAACAATATTATAGCCCACCAATCACGTTTGGTCAGGGCACC AAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 489	dc-489	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTGGCGCGGTTTCCCATACTACTATTATGC CTCTTGGATGGATCCATGGGGCCAGTGGGGCCAAGGTACGCTGGTG ACCGTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGG CGGTAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCG ACCTTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGC CTCTCAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAG CCGGGTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGC CACCGGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATT TTACGTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTAT TATTGTCAGGCCTGGGACTCTAGCACCTATGTTTTCGGTCAAGGCAC GAAAGTGGAAATCAAA
SEQ ID NO. 490	dc-490	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTCGGTCAAGACACGTTACGCTATGCGTACGG TATGGATCCATGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT CAGCAATACGACAATCTGCCGATCACGTTCGGTCAGGGTACCAAAG TGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 491	dc-491	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTCGGTCAAGACACGTTACGCTATGCGTACGG TATGGATCCATGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT CAGCAATACGACAGCCTGCCGATCACGTTCGGTCAGGGTACCAAAG TGGAGATCAAA
SEQ ID NO. 492	dc-492	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTCTCTGGTCGCTACAACGGTGATTTTGACTAC TGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGTG GTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGGC GGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCTC CGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTAG CTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCCA CGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGGC GCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGTTTG GGATTCTGGTTCTCTGCATCCGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 493	dc-493	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTCTACGGTCGCGTTGGTTACTATTATGGTATG GACGTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCT CTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGC GGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTT AAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTG TGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCC CCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCC GGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGA TTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAG TACGACTTACCGCCGATTTCTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 494	dc-494	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGCCGACTTAACGTACTGGGGTCAGTGGGG CCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTTCTT CTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTGCT GACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCGCC ACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAGCG TGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTACG GCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGCAG CGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGCCA GAAGATTTCGCCGTTTATTACTGTCAGCAATATGGTAGCAGCTCTCC GGGTTACTCTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 495	dc-495	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGCCTCTTCTTCTTACTGGGAGCCGGATAA CTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGCGGC CTGGGATTCTTCTTTAAATCTGCTGTACGTTTTCGGTCAGGGTACCA AAGTGGAGATCAAA
SEQ ID NO. 496	dc-496	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGCCTACCGCCGCGTTCCAAAAATGTTTGA CATCTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA ATATTACTCTGCCCCGTATACCTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 497	dc-497	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGCCTACCGCCGCGTTCCAAAAATGTTTGA CATCTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA ATATTACTCTCCACCGCATACCTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 498	dc-498	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGACTACAACGCCTTCGACCGTTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTGAAACGTGGGATAGCT TCAATCACTTAGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 499	dc-499	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGACTACCGCGTTACGGGTAGCACCACGTA CTTTGACCATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AATCTTACGATAGCAGCTTATCTGGTGGTGGCGTTTTTGGCCAGGGT ACGAAGGTGGAGATCAAA
SEQ ID NO. 500	dc-500	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGGTTCTCCATCTGACCACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAACAGTACTATGATGGTCG TCGCACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 501	dc-501	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGGTTACTCTTCTTCTTACTATTGGTATGGT ATGGACCTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGA GCTCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCT GGCGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGT CTTTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAA TCTGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCA AGCCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCA TTCCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTA ACGATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCA ACAGGCCTTACAAGCGCCGATTACGTTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 502	dc-502	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTAAGGCCTGGGGTTGGTTCGACCCATGGGG CCAGTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGC AGCCGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGA GATTGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGC GAGCGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTC TTACCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTG TTAATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTT TAGCGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTT TAGAGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGTTCGATAG CATCCCGTGGACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 503	dc-503	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTAAGGCCTGGGGTTGGTTCGACCCATGGGG CCAGTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGC AGCCGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGA GATTGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGC GAGCGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTC TTACCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTG TTAATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTT TAGCGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTT TAGAGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGTACTATAG CTTCCCGTGGACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 504	dc-504	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTAAGCGCGCCTCTGGTGACGCGTTTGGTCC ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGGCACGTG GGATTCTTCTTTAAGCGGCCTGTCTTACGTTTTCGGCCAAGGCACCA AAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 505	dc-505	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTACGCGGTTACCGCGGTGGCGGCACGTA CGATGCCTTTGATGTGTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTGGTACCTGGGATAGCTCTTTATCTGACCAGGGTTGGGTGTTTG GCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 506	dc-506	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTACGCGGTTACCGCGGTGGCGGCACGTA CGATGCCTTTGATGTGTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTGGTACCTGGGATAGCTCTTCTTCTCCACGTTGGGTTTTTGGCC AGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 507	dc-507	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTACGCGGTTACCGCGGTGGCGGCACGTA CGATGCCTTTGATGTGTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTCAACAGACCAGCGACTTCCCATACACCTTCGGCCAGGGCACG AAGGTTGAAATCAAA
SEQ ID NO. 508	dc-508	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTACGCGGTTACCGCGGTGGCGGCACGTA CGATGCCTTTGATGTGTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTCAACAGTATAATTCTTACTCTTGGACGTTTGGTCAGGGCACCA AGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 509	dc-509	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTATACCGCGGTTTCGGTGTGGGCTTCGA CATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACAACTCTTATAGCCCGGTTACGTTCGGTCAGGGTACCAAAGTGGA GATCAAA
SEQ ID NO. 510	dc-510	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCCAGGTGGTATGTCTGGTTGGATCGGCTA TTGGGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGC GGCTCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGG TGGCGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGC CCAGGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTC TTCTAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCG CGCTTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGC GCGTTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTT CTCGCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGG GATTCTAGCTTATCTTCTCTGGATTATGTTTTCGGTCAAGGCACGAA AGTGGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 511	dc-511	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCCATACCGCCGCTCTTACTTTAGCTACGG TATGGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT GGCACGTGGGGTTCTACCGGCATTGTTTTCGGTCAAGGCACGAAAG TGGAAATCAAA
SEQ ID NO. 512	dc-512	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCCATACCGCCGCTCTTACTTTAGCTACGG TATGGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT CAGCAAGAGGACAATCTGCCGCCAACGTTCGGTCAGGGTACCAAAG TGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 513	dc-513	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCAAGGTCCATACTTACCATATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGCCTGGGATAGCA CGCCGAAGGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 514	dc-514	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCGCCTACCGCTCTGCCCCGGCGGCCTA CTGGATGGATATCTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACC GTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGG TAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACC TTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCT CAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGG GTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACC GGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTAC GTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATT GTGGCACGTGGGACTCTAGCCTGAATGTTGTTGTTTTCGGCCAAGGC ACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 515	dc-515	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCGGTATCTACTACTCTGGCGGCTCTCG CAGCTTATGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCT TCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCG GCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATC TCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAA GCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCA AGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCA TTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTA ACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTGG CACGTGGGACTCTAGCCTGGGCGCCGCCTGGATCTTCGGCCAAGGC ACCAAAGTTGAGATCAAA
SEQ ID NO. 516	dc-516	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCGGTGTTATCGTTGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTAATTCTTGGGATAGCCG CGGCGGTCACTTAGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 517	dc-517	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCGGTGTTATCGTTGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGCCTGGGATAGCTC TCCGTCTGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 518	dc-518	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCGGTGTTTCTTACTACGGCCTGGACAT GTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTG GGACAGCTCTTTATCTAGCCTGGATTACGTTTTCGGTCAGGGTACCA AAGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 519	dc-519	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTCTCGCATGGACGTTTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGTCTAGCGACAATGCGACG GATATCACGCAACCGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 520	dc-520	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACGACATCTTAACGCGTTATGGTTA CTATTTCGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAATATTATAGCCCAATCTTCATGTTCGGCCAAGGCACCA AAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 521	dc-521	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACTTAGCCTCTTCTAGCGCGCACGG TGGCTACTATGCGCTGGACTACTGGGGTCAGTGGGGCCAGGGCACG TTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTAGCG GCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCAATC TCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTATCTT GCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTACCAA CAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGAGCA GCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTCTGGT ACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATTTCGC GGTTTACTACTGCCAGCAGGCCTACTCTCCACCGATCAGCTTTGGCC AAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 522	dc-522	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACTCTGGTCGCACGGGCTATTCTTA CTGGCTGCACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCGCCGCCTGGGACGATAGCCTGAACGGTCCAGTTGTGTTCGGCCA GGGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 523	dc-523	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACTACGACTCTTCTCCGCCGTACGG TTATGCCTTTGATATTTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTCAACAGAGCTATTCTCCACCAATCACCTTCGGCCAGGGCACG AAGGTTGAAATCAAA
SEQ ID NO. 524	dc-524	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTCTGCCGCCCACGGTTACCATTTTGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGGCACGTG GGATTCTTCTTCTAGCCTGGCGGTTGTTTTCGGTCAGGGTACCAAAG TGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 525	dc-525	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTCTGGTAAGCGCGGTTCTGGCGTGGACCA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGGCACGTG GGATTCTTCTTTAAGCGGCCTGTCTTACGTTTTCGGCCAAGGCACCA AAGTTGAGATCAAA
SEQ ID NO. 526	dc-526	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTCTTACGCCTCTATCTTAGATGTGTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCGTTCTAATT GGCCATCTCCAGGCTTTACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 527	dc-527	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTCTTACCGCACGTCTTCTAGCAAACAATA CCTGGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTT TCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCG CCGCCTGGGACGATCGTCTGAACGGTTACGTTTTTGGTCAGGGCACC AAGGTTGAGATTAAA
SEQ ID NO. 528	dc-528	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTCTTACCGCACGTCTTCTAGCAAACAATA CCTGGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTT TCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCT CTTCTTACGATAGCAGCTCTGGTTCTTTAGTGTTCGGCCAGGGCACG AAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 529	dc-529	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTCTTACCGCACGTCTTCTAGCAAACAATA CCTGGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTT TCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCT CTTCTTACACCAGCAGCTCTCCAGTTTTCGGCCAAGGCACCAAAGTT GAGATCAAA
SEQ ID NO. 530	dc-530	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGCCTGGGATAGCAGCGACGCCGTTTTCGGCCAAGGCACC AAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 531	dc-531	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGCCTGGGATAGCAGCTCTACGTACGTTGTGTTCGGCCAGG GCACGAAGGTTGAAATCAAA
SEQ ID NO. 532	dc-532	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGCCTGGGATAGCACCCCACGCGCCGTTTTTGGTCAGGGCA CCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 533	dc-533	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAACGTAGCAATTGGCCATTAACGTTCGGCCAAGGCACC AAAGTTGAGATCAAA
SEQ ID NO. 534	dc-534	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAACGTAGCAATTGGTGGCCACCATTCACGTTTGGTCAGG GCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 535	dc-535	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAAAGCTATAGCCCACCACCAACGTTTGGTCAGGGCACC AAGGTTGAGATTAAA
SEQ ID NO. 536	dc-536	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAATATAATAATTGGCCAACGTTCGGTCAGGGTACCAAA GTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 537	dc-537	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAATCTTATGATAGCTCTTTATCTGGTAGCGTTTTTGGCCAGGG TACGAAGGTGGAGATCAAA
SEQ ID NO. 538	dc-538	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAATCTTATGATAGCTCTTCTTTAGGTGCGGTTGTGTTTGGCCA AGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 539	dc-539	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAACGTGGGATAGCTTTGGTCAAGTTTTCGGCCAAGGCACCA AAGTTGAGATCAAA
SEQ ID NO. 540	dc-540	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGTTTGGGATAGCAGCTCTGCCCACGTTGTGTTCGGCCAGG GCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 541	dc-541	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGTTTGGGATAGCAGCTCTGACCACTCTGTGGTTTTTGGCC AGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 542	dc-542	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTACTCTTACCGCTCTATGTACCGTGATTAC TTCGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGT CTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGC GGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTAT CTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAA AGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTC AAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGC ATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTT AACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTC AGCAATACTACAGCAATACCCCATACACGTTCGGCCAAGGCACCAA AGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 543	dc-543	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTACTACCGCACGGCCAACTATCTGTACGG TATGGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT AGCTCTTACACGAGCAGCAGCCACTTAGCCTTCGGCCAAGGCACCA AAGTTGAGATCAAA
SEQ ID NO. 544	dc-544	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGCCGACTTCGAGCAACAACTGGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCATGCAAA GCCGCCAATTACCGCTGACCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 545	dc-545	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGCCGGTTTAATCTCTATCGCGGCGTTAGA CGAATGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAAGCT GGTTCCCACACGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTAA A
SEQ ID NO. 546	dc-546	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGCCGGTTTAATCTCTATCGCGGCGTTAGA CGAATGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAACCTG GGACTCTGGTAGCGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 547	dc-547	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGCCGGTTTACGCGGTTACAGCTATGGTTA CAATTCTACCCCGCCGCGCCCAAACTGGTTTGATCCGTGGGGCCAAT GGGGTCAAGGTACGCTGGTTACGGTGAGCAGCGGTGGCAGCTCTCG TAGCAGCTCTAGCGGCGGTGGCGGCAGCGGCGGCGGCGGCGAAATC GTTCTGACGCAAAGCCCGGCGACGCTGTCTTTATCTCCGGGTGAGCG CGCGACGCTGTCTTGCCGCGCGAGCCAATCTGTGTCTAGCTCTTACC TGGCGTGGTATCAACAGAAGCCAGGTCAGGCCCCACGCTTACTGAT TTATGGTGCGAGCAGCCGCGCGACCGGCATCCCAGCGCGTTTTTCTG GTAGCGGCTCTGGTACGGATTTCACGCTGACGATTTCTCGTCTGGAG CCGGAGGACTTCGCGGTGTATTACTGTCAAACGTGGGGCACGGGCG AAGTGGTTTTCGGTCAGGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 548	dc-548	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTGCCCGCCGCCACTTACTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGAC AGCTTCGGTCAAGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 549	dc-549	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTGGTGGTACGTCTTCTGGCCCGGACGG TTATGACTATGCGATGGATGTTTGGGGTCAATGGGGCCAGGGCACC TTAGTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGG CGGCGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCT CCAGCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTT GTCGTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAA CAAAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCA GCCGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGT ACGGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGC CGTGTACTACTGTCAGCAGCATAACTCTTACCCACTGACGTTTGGCC AGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 550	dc-550	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTGGTTTATTAGACGCCTTTGATATCTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACGAT TACTTAGTTAGCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 551	dc-551	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTAAGATCGGTCCAAACGCGTTTGACAT CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TGACTCTTACCCGCCGACCTTCGGTCAAGGTACCAAGGTGGAAATTA AA
SEQ ID NO. 552	dc-552	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTTTAAACTGGAACGTTATGGACTTTGC GTTCGACATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTG AGCTCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTC TGGCGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTG TCTTTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCA ATCTGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCC AAGCCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGC ATTCCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTT AACGATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCC AACAGTACGACTCTCCGCCGGTGACGTTCGGTCAAGGCACGAAAGT GGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 553	dc-553	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTCGCGAGTTAATCCCACAGTTTGACCA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGCGGCCTG GGATGACTCTTTAAATATTGGCTGGGTTTTCGGTCAAGGCACGAAAG TGGAAATCAAA
SEQ ID NO. 554	dc-554	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTCGCGAGTTAATCCCACAGTTTGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGCGGCCTG GGATGACGGTCGCAGCGGCCCGAACTGGGTTTTCGGTCAGGGTACC AAAGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 555	dc-555	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTTCTTTAGCCGGTCGCGCGTTTGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TGACAACCCACCGGTGACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 556	dc-556	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTGTTTTAGACTTCGCCATGGATGTGTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCATTCT AGCCCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 557	dc-557	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCACCCATCTGCCGCCGGTGCGTTTGACAT CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAA GCTACTCTACGCCGCCGTGGACCTTCGGTCAAGGTACCAAGGTGGA AATTAAA
SEQ ID NO. 558	dc-558	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACATCCGCGGTGGTATGAACGTTTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGTACTATAGCCC ACCGATCACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 559	dc-559	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCCACGCCACATCACGGCCAGCAAACCATA CACCGGTGGCGGCAGCCAATACTGGGGTCAGTGGGGCCAGGGCACG TTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTAGCG GCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCAATC TCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTATCTT GCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTACCAA CAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGAGCA GCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTCTGGT ACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATTTCGC GGTTTACTACTGCCAGGTGTGGGACTCTTCTACGAATCACTGGGTGT TTGGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 560	dc-560	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCGCCGGTTACCACATCGATGGCTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCCCATTAGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 561	dc-561	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCTTCTCTGGTTCTCAATATGCGTTCTTC GATCCATGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCTT CTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCGG CGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATCT CTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAAG CGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCAA GCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCAT TCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTAA CCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTAGC TCTTACACGAGCAGCAGCACGTTAGTTGTTTTTGGTCAGGGCACCAA GGTTGAGATTAAA
SEQ ID NO. 562	dc-562	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCGGTTCTACGTTATACGAAAATTACAT GGACGTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAC AGCACGAGTACTGGCCGCTGACCTTCGGTCAAGGTACCAAGGTGGA AATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 563	dc-563	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCGGTGTTGCCGGTTACTATGCGTACTT CGATCCATGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCT TCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCG GCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATC TCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAA GCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCA AGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCA TTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTA ACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTAG CTCTTACACGAGCAGCAGCACGTTAGTTGTTTTTGGTCAGGGCACCA AGGTTGAGATTAAA
SEQ ID NO. 564	dc-564	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCCGCTTCCGCGGTTCTGATTATTACTCT TATAACTATCCGATGGATGTTTGGGGTCAATGGGGCCAGGGCACCTT AGTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGGCG GCGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCTCC AGCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTTGT CGTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAAC AAAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCAG CCGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGTA CGGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGCC GTGTACTACTGTCAGGTGTGGGATTCTTCTGCCTTAGTGGTTTTTGGC CAGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 565	dc-565	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCTCTCAAGGTTACTTCGATCTGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGATTCT AGCTTACGCTCTCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA
SEQ ID NO. 566	dc-566	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCTCTCAAGGTTACTTCGATCTGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCACGTTCGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 567	dc-567	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCACGTCTGCCGGTAAGATTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTGGGAC AGCTCTGCCCCAGCGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 568	dc-568	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCACGTCTGCCGGTAAGATTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTGGGAC AGCTCTTTATTACCGGGCTATGTTTTCGGTCAAGGCACGAAAGTGGA AATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 569	dc-569	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCACGTCTGCCGGTAAGATTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTGGGAC AGCTCTTTACGCGTGAGCTATGTTTTCGGTCAAGGCACGAAAGTGGA AATCAAA
SEQ ID NO. 570	dc-570	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCACGTCTGCCGGTAAGATTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTACGTTCGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 571	dc-571	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCACGTCTGCCGGTAAGATTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTACGTACGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 572	dc-572	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCACGTCTGCCGGTAAGATTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCACGTCTTTAGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 573	dc-573	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCACGTCTGCCGGTAAGATTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCACGACGTTAGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 574	dc-574	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACTCTGGTGGTTCTTTACGCGGCATGGATGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTG GGACATTGGTACGTACGTGGTGTTTGGTCAAGGTACGAAAGTTGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 575	dc-575	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACTCTTCTTACTACGGTAACTTTGATCCATGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGCGGCGTGGGAC GATTCTTTAAACGGCTATGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA
SEQ ID NO. 576	dc-576	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACACGGGTGCCATCTACTTCGCGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACAAT AACTGGCCACCATGGACCTTTGGCCAAGGTACGAAGGTGGAGATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 577	dc-577	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACACGGGTGACTCTCGCGTTGGCGTGATCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGCGT GGGACTCTTCTACCTATGTGGTTTTCGGTCAAGGCACGAAAGTGGAA ATCAAA
SEQ ID NO. 578	dc-578	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGTTATCACGGGTTCTTACGGCCAGGGTCC ATTTGACGATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGCCTGGGACAGCAGCAGCACGCACGTTGTTTTTGGTCAGGGCAC CAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 579	dc-579	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACTGGGGTTTCCGCTACTTCGACTTTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTGGCGCCTATACCCGCG CGAACCCACAAACCCTGTATGTTTTCGGTCAAGGCACGAAAGTGGA AATCAAA
SEQ ID NO. 580	dc-580	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACTACTCTCGCACGTCTGCCCCGTATTACAA CGCGGTTGATGTGTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAAAGCTATAGCCCACCATTAACGTTTGGTCAGGGCACCA AGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 581	dc-581	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATCAACCGCGTTCGCACGTTCGATATTTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAACAG CTTCCCACCAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 582	dc-582	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTAGGTTACAAGGGTTTCGCCTATCTGGGTTCT TATTCTAGCTATGCGTTCGACTTATGGGGCCAGTGGGGCCAGGGTAC GTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAGCAGCG GCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACGCAAAG CCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGTTAAGC TGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGGTACCA GCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCGCGAGC TCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGGTTCTGG CACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAAGACTTT GCCGTTTACTATTGCCAGCAATCTAACTCTCCGCCAATTACCTTTGG TCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 583	dc-583	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTAAACCGCTTATTCGCCTTAGATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAACCTGGGATTCT AGCGGTGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 584	dc-584	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTACCAGCCGGTATCGACGCCGGCTTTGACTT ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGAATCTTG GGATGACAAGGCCTATTGGGTGTTTGGTCAAGGTACGAAAGTTGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 585	dc-585	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTACCAGGTGCCACGTCTAAGAGCTGGTATTA CACGCGTGGTTTTGATTATTGGGGTCAATGGGGTCAGGGCACCCTGG TTACGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGC GGCGGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAG CCACCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGC GCGTCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAA GCCGGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTG CGACGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGA CTTTACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTT ATTACTGTCAAACCTGGGGCACCGGTTCTTTAGTTTTTGGTCAGGGC ACCAAGGTTGAGATTAAA
SEQ ID NO. 586	dc-586	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTACGCGGTTCTTACGACTACGAAGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACAACAACTGGCCGCGTTATACGTTCGGTCAAGGCACGAAAGTGGA AATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 587	dc-587	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTACGCGGTTCTTACTACCGCAATTGGTTTGAC CCATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCG GTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGC GGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTAT CTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTT AGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCC CACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCG GCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGA TCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGCGTCT TTTGACTTAGACGCGCTGTGGGTGTTCGGTCAAGGTACCAAGGTGG AAATTAAA
SEQ ID NO. 588	dc-588	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTAACGCCAGGTTTCGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAGCCGTG CCGATCACTGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 589	dc-589	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGGGTACGATCCCACGCCACCACTTTGATTA CTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTA CGATAACCCACCAGTGAGCTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 590	dc-590	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCAACGCTACGGTATGGACGTTTGGGGTCA GTGGGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGC CGTTCTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAAT CGTGCTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAA CGCGCCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTAC TTAGCGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGA TCTACGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGC GGCAGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGG AGCCAGAAGATTTCGCCGTTTATTACTGTGGCACGTGGGATTCTAGC CTGAACCCGGTTGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 591	dc-591	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCAACGCTACGGTATGGACGTTTGGGGTCA GTGGGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGC CGTTCTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAAT CGTGCTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAA CGCGCCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTAC TTAGCGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGA TCTACGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGC GGCAGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGG AGCCAGAAGATTTCGCCGTTTATTACTGTGGCACGTGGGATTCTAGC CTGTCTGCGGTTGCCGTTTTTGGCCAGGGTACGAAGGTTGAAATCAA A
SEQ ID NO. 592	dc-592	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCAACGCTACGGTATGGACGTTTGGGGTCA GTGGGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGC CGTTCTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAAT CGTGCTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAA CGCGCCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTAC TTAGCGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGA TCTACGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGC GGCAGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGG AGCCAGAAGATTTCGCCGTTTATTACTGTGGCACGTGGGATTCTAGC AGCTCTCATTTAAAGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 593	dc-593	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCAACGCTACGGTATGGACGTTTGGGGTCA GTGGGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGC CGTTCTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAAT CGTGCTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAA CGCGCCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTAC TTAGCGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGA TCTACGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGC GGCAGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGG AGCCAGAAGATTTCGCCGTTTATTACTGTCAGACGTGGGGCACGGT GGTGTTCGGCCAAGGTACGAAAGTGGAAATCAAA
SEQ ID NO. 594	dc-594	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCGCCCAGAGTTAGACTACTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGACGTGGGATTCTAGCACC GTTGTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 595	dc-595	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCGCCGCTCTTCTTACTTCGACTATTGGGGC CAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCT CTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTAGCTCTTATACCTCTA GCTCTTCTTTATGGGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 596	dc-596	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCGCTCTGGTGGTTGGTTCGACTACTGGGG CCAGTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGC AGCCGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGA GATTGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGC GAGCGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTC TTACCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTG TTAATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTT TAGCGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTT TAGAGCCGGAAGACTTCGCCGTGTACTACTGCCAAGCGTGGGACAG CAGCCCAAGCGTTGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 597	dc-597	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCGCTCTGGTGGTTGGTTCGACTACTGGGG CCAGTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGC AGCCGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGA GATTGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGC GAGCGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTC TTACCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTG TTAATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTT TAGCGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTT TAGAGCCGGAAGACTTCGCCGTGTACTACTGCCAAACCTGGGCCAG CAGCGGTTGGGTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA
SEQ ID NO. 598	dc-598	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGTCTGCCGGTGGTAAGTTAGACTATTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGTCTGTGGATTCTA GCGGTACGTGGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 599	dc-599	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACGGTCGCACGGTTACGAAGGGCATGGATGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGT TAATTCTTTCCCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 600	dc-600	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACGGTCGCACGGTTACGAAGGGCATGGATGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTA CGATTCTTCTCCACCGATTACCTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 601	dc-601	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCGGTTGGACGGGTTCTTTCGATCTGTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCAA CAGCCCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 602	dc-602	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCCGCTTATCTCCAGGTGGCGGCTTCGA CATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGTC TGACTCTCCGCCGATTACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 603	dc-603	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCCGCTTATCTCCAGGTGGCGGCTTCGA CATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGTC TTACTCTCCGCCGCCGACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA
SEQ ID NO. 604	dc-604	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTCAAGGTGACTTAAATCCGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGATGTT AGCTCTGACCCAGCGTGGGTGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 605	dc-605	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTGGTTGGTACGGTGTTTCTTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAGCAG CTCTGATCAATGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 606	dc-606	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACTCTTCTGGTTACTACTCTTATTGGGGCCAA TGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCTC GCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAAT TGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGAG CGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTTA TTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATTA ATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTAG CGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTAG AACCGGAGGACTTCGCGGTTTACTATTGTCAGACGTGGGGCACCGG TATTCGCATCTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 607	dc-607	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCCAAAGCGCACGGTTTTAGGTAGCACCCGCTT CGATATCTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCT TCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCG GCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATC TCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAA GCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCA AGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCA TTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTA ACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTGG CGCCTGGGACTCTAGCGATAATGCCCGCGTTTTCGGCCAAGGCACC AAAGTTGAGATCAAA
SEQ ID NO. 608	dc-608	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCGCCCCAGGTTACTCTTCTGGCATTGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGACGTG GGGCACGGGTATCCGTGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 609	dc-609	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCGCCGTTGGTTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACCACCAGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 610	dc-610	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCGACCCAGGTACGTGGCAATTCGATCCGTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCATGTCTTATACC CACGCGAACACGGTTGTGGCGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 611	dc-611	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCGACTACTCTAACTCTTACTATTATTACTAC GGCATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCG TTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGC AGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGT TAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCT CAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGG TCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCG GCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACG CTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTG CTCTTCTTACACCAGCAATGCCATGCGCATCTTCGGCCAAGGCACCA AAGTTGAGATCAAA
SEQ ID NO. 612	dc-612	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCGGTGGTGGTCACGACGGTTTTGATGTTTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGAC ACCTCTATCCCACATGTGGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 613	dc-613	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCTTAGTTTCTTCTGACTCTCCGTATTTCGAC TATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCTG GTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGGC GGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAAG CCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTGT CTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGAGAATT GGGACTCTAACACCCGTGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA
SEQ ID NO. 614	dc-614	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCATGTCTGGTATCGACTACTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTAAACAATATAACAATCTGCCA ATTACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 615	dc-615	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCATGTCTGGTATCGACTACTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGCAATATGACAATCTGCCA CTGACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 616	dc-616	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCATGTCTGGTATCGACTACTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGCAATATAACAATTGGCCG TTAACCTTCGGTCAAGGCACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 617	dc-617	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCATGTCTGGTATCGACTACTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGCAATATAACCGTTTTCCA CTGATCTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 618	dc-618	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCATGTCTGGTATCGACTACTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGCAATATAACAGCTTTCCA CTGACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 619	dc-619	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCAACATGTTACGCTTAGGTCGCGCGTTTGA CTCTTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGAC GTGGGGCACGGGTATCCGTGTGTTTGGTCAAGGTACGAAAGTTGAA ATTAAA
SEQ ID NO. 620	dc-620	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCCCAACGTACGGTGTTCCAATGGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGAT TCTAGCTTATCTGCCGTGGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 621	dc-621	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCCGCATCGGTTCTTTCTCTCTGGGCCCATTC GATCCATGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCTT CTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCGG CGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATCT CTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAAG CGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCAA GCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCAT TCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTAA CCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTAGC TCTTACGGTGGCTATAATAACTACGTTTTCGGCCAAGGCACCAAAGT TGAGATCAAA
SEQ ID NO. 622	dc-622	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTGGTGTTCACTACCGCGCCGTGGGCGGTTC TGCGCGCCTGACCGATTACATGGACGTTTGGGGCCAGTGGGGCCAG GGTACGTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAG CAGCGGCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACG CAAAGCCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGT TAAGCTGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGG TACCAGCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCG CGAGCTCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGG TTCTGGCACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAA GACTTTGCCGTTTACTATTGCCAGCACTACGACAACTGGCCGCCAAC CTTTGGCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 623	dc-623	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTCACGGTCACTTCGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAACAGTACAATAATTTCCC GTTAACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 624	dc-624	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTATCGCCGCCGCCTACGCCTTTGATATCTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGAACTATT CTACGCCACCGTGGACCTTTGGTCAAGGTACGAAAGTTGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 625	dc-625	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTAAGTACCACTACTACGGTCTGAGCAACGT TACCTACGGCGCGGGCTTCGACTACTGGGGCCAGTGGGGCCAGGGT ACGTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAGCAG CGGCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACGCAA AGCCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGTTAA GCTGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGGTAC CAGCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCGCGA GCTCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGGTTCT GGCACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAAGACT TTGCCGTTTACTATTGCCAGCAATACAACCCACCGCCAGTGACCTTT GGTCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 626	dc-626	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTCCAGGTTTACGCGGTAACGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTAGCTATGGTGCG GTTGGTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 627	dc-627	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTCAACCACGCCCACGCTACAATTATGGTAA GTTTGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGTTTGGGACAGCAGCACCCGCGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA
SEQ ID NO. 628	dc-628	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTCGCTTAGGTGACGCCTTCGATATTTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATGACAAT TTACCATTAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 629	dc-629	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTACGTTCTACTACGGTTCTGGCCGTCCATAC AGCGCCTGGTTTGATCCGTGGGGTCAATGGGGTCAGGGCACCCTGG TTACGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGC GGCGGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAG CCACCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGC GCGTCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAA GCCGGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTG CGACGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGA CTTTACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTT ATTACTGTCAAACCTGGGATAGCCGCAAGACGGTTGTGTTCGGCCA GGGCACGAAGGTTGAAATCAAA
SEQ ID NO. 630	dc-630	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGGTGGTTCTTCTGGTGGTTTTGCGTTATAC GGCTTCGGCATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACGG TTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGGC AGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACGC TGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCAG CCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCCA GGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGAC CGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTCA CCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTAT TGTCAAGTTTGGGATAGCAGCTCTGACTTACCAGTGGTTTTTGGCCA GGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 631	dc-631	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGTTACCACGCGCCGGTGCCTTTGATATCTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGCCAAT TCTTTCCCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 632	dc-632	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGTTACCACGCGCCGGTGCCTTTGATATCTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGCCTAT TCTCCACCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 633	dc-633	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGTTACCACGCGCCGGTGCCTTTGATATCTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTAAT TCTCCACCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 634	dc-634	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGCGCGGTTTATACTTCGGTCCGTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATAGCT CTCTGTTATCTTCTAGCCTGGTGGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 635	dc-635	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGCGCGGTTTATACTTCGGTCCGTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTAATTCTTGGGATAGCCG CGGCGGTCACTTAGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 636	dc-636	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGCGCGGTTTATACTTCGGTCCGTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGTTTGGGATTATTC TAGCGACTTACACGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 637	dc-637	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGCGCGGTTCTTACTTCGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGCCTGGGATAGCA CGCCGTCTGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 638	dc-638	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGTCTTCTGGTTCTACGGCCGCGCCGATCGG TTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGCCGCGTG GGACGACTCTGGCGGCAGCCCAGTTTTCGGTCAGGGTACCAAAGTG GAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 639	dc-639	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGGTTGGTCCATACGGTCGCACCTATTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGG CCAACTCTCCGCCGATTACGTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 640	dc-640	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTGCCCGCGGTGGTTACAAGACCGCGGACTT ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCTGGTTTG GGATTCTTCTTCTGATCATGTGATCTTCGGTCAAGGCACGAAAGTGG AAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 641	dc-641	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTGCCCGCGGTGGTTACAAGACCGCGGACTT ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TTACGGTAACCCGCATACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 642	dc-642	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTGCCCGCGGTGGTTACAAGACCGCGGACTT ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGTCTTA TGACAACTCTCTGCGTGGCTCTAAGGTTTTCGGCCAAGGCACCAAAG TTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 643	dc-643	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTGCCCGCGGTTCTTACACGAGCTGGGTGGA CTCTCCGTACCCGGCGAGCGCCCGCTACTATATGGATGTGTGGGGCC AATGGGGTCAAGGTACGCTGGTTACGGTGAGCAGCGGTGGCAGCTC TCGTAGCAGCTCTAGCGGCGGTGGCGGCAGCGGCGGCGGCGGCGAA ATCGTTCTGACGCAAAGCCCGGCGACGCTGTCTTTATCTCCGGGTGA GCGCGCGACGCTGTCTTGCCGCGCGAGCCAATCTGTGTCTAGCTCTT ACCTGGCGTGGTATCAACAGAAGCCAGGTCAGGCCCCACGCTTACT GATTTATGGTGCGAGCAGCCGCGCGACCGGCATCCCAGCGCGTTTTT CTGGTAGCGGCTCTGGTACGGATTTCACGCTGACGATTTCTCGTCTG GAGCCGGAGGACTTCGCGGTGTATTACTGTCAAACGTGGGGCACGG GCATTCGTGTTTTCGGTCAGGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 644	dc-644	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTGGTTGGAACGGTGGTAACCACGGCGCGTT CGACATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCGCC AGGCCATGCGCTGGCCAGTGGCGTTTGGTCAAGGTACGAAAGTTGA AATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 645	dc-645	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTGGTTGGGTTTCTGCCCCAGAGGCGCTGGC CACGACCCCACTGGATTATTGGGGTCAATGGGGTCAGGGCACCCTG GTTACGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGG CGGCGGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCA GCCACCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCG CGCGTCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAA AGCCGGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGT GCGACGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGG ACTTTACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTT TATTACTGTATGCAAGCGCTGCAGCCACCAATCACGTTTGGTCAGGG CACCAAGGTTGAGATTAAA
SEQ ID NO. 646	dc-646	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTGGTTACGCCTCTGCCGGTTATCAGATCGA CCATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGGTACCTG GGACTCTTCTGCGAGCCCGTACGTTTTCGGTCAGGGTACCAAAGTGG AGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 647	dc-647	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTTTACCAATGAAGTTATTACGCGGCGAATT CTACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGGTA CCTGGGACTCTTCTGCGGGCGTGTTCGGTCAAGGTACCAAGGTGGA AATTAAA
SEQ ID NO. 648	dc-648	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTCCAGGTCGCACGCGCTACTTTGATTCTTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTAAT TCTTTCCCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 649	dc-649	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTCGCTCTGGTTACTCTTCTAGCCAGCCAGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGTTACCTG GGACTCTTCTCTGAGCGTGTACGTTTTCGGTCAGGGTACCAAAGTGG AGATCAAA
SEQ ID NO. 650	dc-650	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTACGTCTCGCGACGGTTACGGCATGGGCGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTA CACCTCTTCTTCTACCCTGGTGGCCTTCGGTCAAGGCACGAAAGTGG AAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 651	dc-651	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTGGGGTGACTCTGAGGTTGGTAACGCGTTTGA CATCTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA ATATAACTCTTACCCGCCGACCTTCGGTCAAGGTACCAAGGTGGAA ATTAAA
SEQ ID NO. 652	dc-652	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGCGGCCTA TGACGACTCTCTGCTGAATCCAGGTAAGATCTTTGGTCAGGGCACCA AGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 653	dc-653	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGCCTG GGATCGCTCTTCTCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 654	dc-654	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGCCTG GGATTCTTCTTCTAGCGTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 655	dc-655	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAA GCTACTCTCCACCGCCGACCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA
SEQ ID NO. 656	dc-656	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TGGTTCTTCTCCGCGTACCTTCGGTCAAGGTACCAAGGTGGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 657	dc-657	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TTACTCTGCCCCGCCGTATACGTTCGGTCAAGGCACGAAAGTGGAA ATCAAA
SEQ ID NO. 658	dc-658	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGTCTTA TGACTCTTCTCTGCTGAGCGGTCACGAGGTTTTTGGTCAGGGCACCA AGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 659	dc-659	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGACGTG GGATTCTTTCGGTCAGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 660	dc-660	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGACGGTGGTGGTTACCGCTCTTATGGCCAATC TATGTATTACATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTG GTGACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGG TGGCGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCG GCCACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTC GCGCCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAG AAGCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCG TGCGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACC GACTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGT GTACTATTGTGGTGCCTGGGATAGCCGTTCTAACGTTTACGTGTTCG GCCAGGGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 661	dc-661	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGAGGGTTACCGCACGGACCGCAAATATTGGTT AGACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGGTA CCTGGGACTCTTCTAATCTGAGCGCCGGTGTTTTCGGCCAAGGCACC AAAGTTGAGATCAAA
SEQ ID NO. 662	dc-662	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGAGGGTTACCGCACGGACCGCAAATATTGGTT AGACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAG CGTGGGACTCTTCTAGCGATCATACGGTTTTCGGTCAGGGTACCAAA GTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 663	dc-663	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCTTATTAGACTACGGTGAGACGGGCTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT CGTTCTGACCACTGGGTGTTTGGCCAAGGTACGAAGGTGGAGATTA AA
SEQ ID NO. 664	dc-664	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCTCTATCGCCGCCCGCCGCTACGGCTATGGTAT GGACGTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAC AGTCTGACTCTCCGCCGATTACGTTCGGTCAAGGCACGAAAGTGGA AATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 665	dc-665	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCACGGGTGTTAACTACCGCCGCCGTGCGTTCGA CATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAAGCC ACACGTCTCGTACCCAGGTTGTTTTCGGTCAGGGTACCAAAGTGGAG ATCAAA
SEQ ID NO. 666	dc-666	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGTTCCACGCACGTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTGGTACCTGGGACGATTCTAGCGGCGGT CGTGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 667	dc-667	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGAGCAACCAAACGGTGGTTGGCCACTGGATTC TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTA CACCTCTTCTTCTACCCTGGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 668	dc-668	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTGGTTACCGCGACTCTTCTGGCTATATGGA CTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGC CTGGGATTCTTCTACGGCGGAAGTGTTCGGTCAAGGTACCAAGGTG GAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 669	dc-669	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTGGTTACCGCGGTGTTTTAGCGGGCGTTGC CTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCG GTACGGGTGATGGCAGCTTATCTGGTGTTGTGTTCGGCCAGGGCACG AAGGTTGAAATCAAA
SEQ ID NO. 670	dc-670	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTGGTTACCGCGGTGTTTTAGCGGGCGTTGC CTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGCCTGGGACAGCACCAATACGGGTGTTTTCGGCCAAGGCACCAA AGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 671	dc-671	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTATCTCTGTTGCCGGTAAGTATTATTACTA CTATATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCCGCCAAGGTAAACATGGCCCATGGAAGTTCGGTCAGGGTACCAA AGTGGAGATCAAA
SEQ ID NO. 672	dc-672	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTGGTTGGCCAGTTCACTGGGGTCAGTG GGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTT CTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTG CTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCG CCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAG CGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTA CGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGC AGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGC CAGAAGATTTCGCCGTTTATTACTGTCAGGTTTGGGATTCTAGCAGC GACCATGTTTTATTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 673	dc-673	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGTC TTACTCTCCGCCGCCGACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA
SEQ ID NO. 674	dc-674	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACGGTTCTAGCCCGAGCTACTCTTTCGGTCAGGGTACCAAAGTGGA GATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 675	dc-675	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACGGTTCTAGCAGCCCGACGTTCACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA
SEQ ID NO. 676	dc-676	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACGGTACGAGCCCGAATACGTTCGGTCAAGGCACGAAAGTGGAAAT CAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 677	dc-677	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACAACAACCCGAGCTGGACCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA
SEQ ID NO. 678	dc-678	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACGACTCTACCGGCAATTACGTTTTCGGTCAGGGTACCAAAGTG GAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 679	dc-679	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCCCACAAGTTTCTGGTTTAAACTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGAT TCTTCTTTAAGCGGCCCGCACGTTGTTTTCGGCCAAGGCACCAAAGT TGAGATCAAA
SEQ ID NO. 680	dc-680	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCCCACAAGTTTCTGGTTTAAACTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGGC GGTTCTTCTCCGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 681	dc-681	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTTTAGATAACGAGTCTGACTTCTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTGGTAGCTGGGACAGCGGTCTGCAGGAC TTTGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 682	dc-682	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTATGCGCCATTACTCTTCTGGTCCACGCGCCGTGGATTCT TGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCG GTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGC GGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTC CAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCT AGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCAC GCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCG CGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTC TCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTT ATTCTCCACCAATTACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 683	dc-683	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTCGCACCGACAAGCGCATGGACTACTGGGGTCAATGGG GCCAGGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAG CTCTTCTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTC TGACCCAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGC CACGCTGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAG CCTGGTATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTA CGGTGCGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGC AGCGGCTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACC AGAGGATTTTGCCGTTTACTATTGTCAAGCGTGGGACAGCTCTACCA GCTCTTGGGTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA
SEQ ID NO. 684	dc-684	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTTCTAAAGGTCACTCTACGATGCAATACTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCATGCAAGCGGG CCAATGGCCGCGCACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 685	dc-685	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTTCTCGTGACCGCCCAGTTTACTCTGACGTGTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGTTTGGGATAGCTC TGGCGACGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 686	dc-686	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTTCTACCGGTCGCGCCCGCGTTGTTGACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGCGTGGGACAGCAGCG CCCATGTTGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 687	dc-687	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTGGTTTAGGTTGGAAGATCGAGCCATGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAGCGTGGGACAGCAG CCCAAGCGTTGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 688	dc-688	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTGGTTTAGGTTGGAAGATCGAGCCATGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAGCGTGGGACAGCAC CCCAGCGGTTGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 689	dc-689	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTGGTTTAGGTTGGAAGATCGAGCCATGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAACCTGGGGTACCGG CATCCAGGTTGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 690	dc-690	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTCACGTTTCTTGGTACGGTGACTCTGCGATTTA CTACTATTACTATGGCCAGCCATACGGTATGGATTATTGGGGCCAGT GGGGTCAAGGTACGTTAGTGACGGTTAGCAGCGGCGGTAGCAGCCG CAGCAGCAGCTCTGGCGGCGGTGGCAGCGGCGGCGGCGGCGAAATT GTTTTAACCCAATCTCCGGCGACCTTAAGCTTATCTCCAGGCGAGCG CGCCACCTTAAGCTGTCGTGCCAGCCAGTCTGTTAGCTCTAGCTACT TAGCGTGGTATCAGCAAAAACCAGGTCAAGCGCCACGCTTATTAAT TTATGGCGCCAGCAGCCGTGCCACCGGCATTCCAGCCCGTTTTAGCG GTTCTGGCAGCGGTACGGACTTTACGTTAACCATCAGCCGCCTGGAA CCAGAAGACTTCGCCGTGTATTATTGTCAAGCCTGGGACACCTCTCA TGTGGTGTTCGGTCAAGGCACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 691	dc-691	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGACCGCCCGCTACCGCGGTTCTTCTTGGCCGAGCAA CATGCACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTG AGCTCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTC TGGCGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTG TCTTTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCA ATCTGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCC AAGCCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGC ATTCCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTT AACGATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCG GTACCTGGGACTCTTCTAGCCTGACCTCTGGTGTTTTCGGCCAAGGC ACCAAAGTTGAGATCAAA
SEQ ID NO. 692	dc-692	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGACCGGTGCCTTCGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTCAAGTGTGGGACAGCTCTAGCGATCAC CTGGTTGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 693	dc-693	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTGGCGACCACGGTTTCGTTCACCACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCTCTAGCTACACCAGCTCTAG CTCTGAGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 694	dc-694	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTAAAGACCAACGCCAAACGTGGTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTCAGTATTAC AGCTCTCAAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 695	dc-695	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTAAAAAGCACCGCCCACCAGTTAACGGCGCGTCTTA CCTGGGTAGCTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTT TCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGTTTGGGACAGCAGCAGCGACCACTGGGTTTTCGGCCAAGGCAC CAAAGTTGAGATCAAA
SEQ ID NO. 696	dc-696	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTAATAACAACACGGGTTGGGCCTTCGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAAGCAATTCTC CGCCAATCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 697	dc-697	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATGGTA GCTCTTCTCCAATGTATACCTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 698	dc-698	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATAACA GCTACCCATGGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 699	dc-699	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATAACA CCTACCCATGGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 700	dc-700	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATTACA ATTACCCATGGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 701	dc-701	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATTACA GCTCTCCACCAGTGAGCTTTGGTCAAGGTACGAAAGTTGAAATTAA A
SEQ ID NO. 702	dc-702	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAAGCCCGGAC AGCTCTGGTAACTGGGTGTTTGGCCAAGGTACGAAGGTGGAGATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 703	dc-703	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGACCGCAACTACTACCGCTCTTATTGGAAAGG TGACGTGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTG ACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGG CGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCC ACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCG CCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAA GCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTG CGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGA CTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGT ACTATTGTAACTCTAGCGATAGCTACGGTGGTAACACCGTTGTGTTT GGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 704	dc-704	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGACTCTGGTGGTTACCGCGACCAGCCGGGTTA CTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAATATGATTTTACGCCACCAACGTTTGGTCAGGGCACCA AGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 705	dc-705	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGACTACGACTACTCTCAAGTTGGCCATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT ACCACGGACCGCGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 706	dc-706	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGAGGGTTTCTCTGGTACGTGGACGGCGTTTGA CATCTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA AGAAGACTCTCCACCGATTACCTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 707	dc-707	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTCACGCCTTCTTCTACGGTTACTATCAGGACGA CGCGTTCGATGTGTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTGGTACGTGGGATAGCAGCCGCTTACCAGCCTATGTTTTTGGCC AGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 708	dc-708	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTATCTTATTCGGTTTCAAGGGTATGGATGTGTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATC GCAGCACGGACTTAGTGGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 709	dc-709	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTAAGGGTCGCTCTGTTCGCGGTGCGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGAC AGCTCTTCTGACCATTGGGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA
SEQ ID NO. 710	dc-710	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTTTAGGTACGGCCGTTAACACGAGCCTGTTCGA CATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGA ACGACACGAGCCCGCGTACGTTCGGTCAAGGCACGAAAGTGGAAAT CAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 711	dc-711	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTATGCAACGCTACGGTATGGACGTTTGGGGTCA GTGGGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGC CGTTCTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAAT CGTGCTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAA CGCGCCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTAC TTAGCGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGA TCTACGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGC GGCAGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGG AGCCAGAAGATTTCGCCGTTTATTACTGTGGCACGTGGGATTCTAGC AGCTCTCATTTAAAGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAA A
SEQ ID NO. 712	dc-712	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTAACCGCGGTTGGCAACAATTCGACTATTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGTCTCTGGATTCTG GCTTAAAGTCTTGGGTGTTTGGCCAAGGTACGAAGGTGGAGATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 713	dc-713	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTCCATTATCTTGGGGTGCCTACTACCGTGCGTTA GACGATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCT CTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGC GGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTT AAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTG TGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCC CCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCC GGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGA TTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAG TACTACTCTCCGCTGCCGACGTTCGGTCAAGGCACGAAAGTGGAAA TCAAA
SEQ ID NO. 714	dc-714	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTCGCCCACGCTGGTTCGACTCTGCCTATTATGCC CCATTTGAGAATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCG TTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGC AGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGT TAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCT CAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGG TCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCG GCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACG CTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTG CGAGACGTGGGACAGCCGTCGTAACGCCGTTGTTTTTGGTCAGGGC ACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 715	dc-715	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTCGCCCACGCTGGTTCGACTCTGCCTATTATGCC CCATTTGAGAATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCG TTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGC AGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGT TAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCT CAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGG TCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCG GCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACG CTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTG CCAACAACGCAGCAAATGGCCGTTAATCTTCGGTCAGGGTACCAAA GTGGAGATCAAA
SEQ ID NO. 716	dc-716	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTACCGACTCTTACACGGCCACGGCCCCGGATCACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGACTAT TCTCCACCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 717	dc-717	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGCCAAGAACGGTGCCTCTTTAGGCGTGAACTT ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGGCACGTG GGATTCTTCTTCTCCGAGCGGCTACGTTTTCGGTCAGGGTACCAAAG TGGAGATCAAA
SEQ ID NO. 718	dc-718	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGCCAAGAACGGTGCCTCTTTAGGCGTGAACTT ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGTCTTA TGACCGCTCTCGTCGTGGCGTTGTTTTCGGTCAGGGTACCAAAGTGG AGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 719	dc-719	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGCCAAGAACGGTGCCTCTTTAGGCGTGAACTT ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGACGTG GGATACGTCTACGGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 720	dc-720	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGCGGCCAAGAACGGTGCCTCTTTAGGCGTGAACTT ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGACGTG GGGCCCAGGTATCCATGTGGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 721	dc-721	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTGCCGCGTGGGACGATTCTAATAATGAC CCGGTTTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 722	dc-722	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTCACCAGTACGATTCTAGCCCGGAGACC TTCGGTCAAGGCACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 723	dc-723	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTCAACAGTACGGCACGGCGCCGATCGCG TTCGGTCAAGGCACCAAAGTTGAGATCAAA
SEQ ID NO. 724	dc-724	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTTACAGCTGGGACAGCACGGATACCGTT GTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 725	dc-725	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATACGGCCTACTCTTTACCAGGTGATATTTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACCACTGGGTGTTTGGCCAAGGTACGAAGGTGGAGATTA AA
SEQ ID NO. 726	dc-726	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATACGGCCTACTCTTTACCAGGTGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATAAC AATTCTGACTTATGGGTGTTTGGCCAAGGTACGAAGGTGGAGATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 727	dc-727	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGGCGTTGGTCGCATCTTCCCATACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAACAGTCTTATAGCACGCC GTTAACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 728	dc-728	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGCCGGTGCCGTTTGGTTAGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCGGTACCTGGGACGGCGG CCGCGGCACGGGTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 729	dc-729	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTTCTAAGGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 730	dc-730	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTACGACGCCGTTTTGGGTGTTCGGTCAAGGTACCAAGGTGG AAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 731	dc-731	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGAC AGCTTCGGTCAAGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 732	dc-732	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTGCCGCCCGTGATGATTCTTTAAACGGTCCGTGGGTTTTTGGC CAGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 733	dc-733	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTCAACAATATTATAGCCCACCACCATACACCTTCGGCCAGGGC ACGAAGGTTGAAATCAAA
SEQ ID NO. 734	dc-734	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTCAATCTTATGATAGCTCTTTATCTGGTAGCGTTTTTGGCCAGG GTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 735	dc-735	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCACACGATGTTAGGTTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCTAC AGCCCAACGTTATGGACCTTTGGCCAAGGTACGAAGGTGGAGATTA AA
SEQ ID NO. 736	dc-736	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACATCTCTTCTTGGTACAAGTCTGGCGCGTT CGGTTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCACG CGTGGGACTCTTTCACCGCGAGCGTTTTCGGTCAAGGCACGAAAGT GGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 737	dc-737	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAGGTACGGGTTTCATGCAAGGCTATTG GGCCTTAGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACC GTGTCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGG TAGCGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACC TTATCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCT CAAAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGG GTCAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACC GGCATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTAC GTTAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATT GTCAGCAACGCTCTAATTGGCCGCTGACGTTCGGTCAAGGCACGAA AGTGGAAATCAAA
SEQ ID NO. 738	dc-738	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTACGCTTCTCTGGTGTTTTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTTATT CTACGCCACGTACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 739	dc-739	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTACGCTTCTCTGGTGTTTTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGACA GCTCTTCTTTACATCGTGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 740	dc-740	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTACGCTTAGTTCGCGTTCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGAAACCTGGAC GAATACGTACACGCGTTATGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 741	dc-741	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGCGGCGTGGGA CGATTCTTTAAACCCGTATGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 742	dc-742	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTGGGAC AGCTCTTTATTAAGCCTGCTGGTTGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 743	dc-743	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCAAGACGGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 744	dc-744	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACTAT TCTCCACCACCGTATACCTTCGGTCAAGGTACCAAGGTGGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 745	dc-745	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCGCCGAT TCTTCTGCCGGCTTTGTGGTTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 746	dc-746	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGGGTACGTGGACGTTAGATCTGTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCGTTCT AATTGGCCACCATACACCTTTGGCCAAGGTACGAAGGTGGAGATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 747	dc-747	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCCATCTCAAAAGTACTACTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACTAT AACTGGCCACAAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 748	dc-748	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCGCCCAGGTCCAGCCTGTAATCGTTACCA CAATTACGGCTGCAATGTTTGGGGTCAATGGGGCCAGGGCACCTTA GTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGGCGG CGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCTCCA GCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTTGTC GTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAACA AAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCAGC CGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGTAC GGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGCCG TGTACTACTGTCAGGTGTGGAATTCTTCTTCTGACCATTGGGTTTTTG GCCAGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 749	dc-749	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCGCCGCGGTGCCGGTTACTATTATTTCGA CCATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACTACTCTACCCCGCTGACGTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 750	dc-750	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCGCCGCAACTGGCCACGCGGTTATTTTGA CTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGC CTGGGATTCTTCTACGGTGGTGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 751	dc-751	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCGCCGCAACTGGCCACGCGGTTATTTTGA CTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGTC TTATACGGGTGGTAGCAGCTATGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 752	dc-752	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGAGACGTGGGACAGCGATACCTACGTTTTCGGTCAGGGTAC CAAAGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 753	dc-753	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGGTGCCTGGGACAATAGCCGTCACCCAGAGGTTTTTGGTCA GGGCACCAAGGTTGAGATTAAA
SEQ ID NO. 754	dc-754	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAAGCCTGGGACAGCAGCAGCACGTTCGTTTTCGGCCAAGG CACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 755	dc-755	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAATCTGATAGCCCGCCAATCACGTTCGGCCAAGGCAC CAAAGTTGAGATCAAA
SEQ ID NO. 756	dc-756	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAATCTTATAGCCCGCCAATCACGTTCGGCCAAGGCAC CAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 757	dc-757	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAATCTTACGATACCCATTTATCTGGTCCAATTTTCGGCCAG GGCACGAAGGTTGAAATCAAA
SEQ ID NO. 758	dc-758	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGTTGCCTGGGACGATAGCCTGAACGGTTACGTTTTTGGTCAG GGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 759	dc-759	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGACGACGGGTATCGGTGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTTAT TCTCCACCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 760	dc-760	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGACGACGGGTATCGGTGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTACACC TCTTCTTCTACCCCGTATGTTGTTTTCGGTCAGGGTACCAAAGTGGA GATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 761	dc-761	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTTCTTATCTTCTGCCTTAGATTATTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCTG TGAAGGAGCAAGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTAA A
SEQ ID NO. 762	dc-762	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTAAGGACTACTTCACGACGGGCTATCAAG ACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTC TGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCG GCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTA AGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGT GTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCC CGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCG GCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGAT TAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACTACTCTGCGACCCCGCCAACGTTCGGTCAGGGTACCAAAGTGGA GATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 763	dc-763	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTCTACGTTAGGTGGTTCTTTTGATAACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGGCCTAT TCTCCACCAATTACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 764	dc-764	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAATCTGGCGCCGCTACTTCGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGGCCAATAGCTT CCCGCCAACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 765	dc-765	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACGCCACGACGCCTTATGGGCCTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCAACAGCCGTGAC AGCACGGACAACCATCAGGCGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA
SEQ ID NO. 766	dc-766	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTGGTTCTATCTGGTACTACTTCGATTATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATT CTAATACGGCCAACTGGGTGTTTGGCCAAGGTACGAAGGTGGAGAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 767	dc-767	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTAACGCCGCCACGGGTGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTTAT TCTGCCCCAATTACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 768	dc-768	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGTTATCCCAGAGAAGGTTGCCGGCCTGGACTC TTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGTTTG GGATTCTTCTACGAATCATGTGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 769	dc-769	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGTTAACATCGGTTTATACGGTGTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTACACC CGCCGCAACACCTATGTGTTCGGTCAAGGTACCAAGGTGGAAATTA AA
SEQ ID NO. 770	dc-770	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCTGGAGAAGCAAGCCCCAGGTGCCCCGGGCATGG ACTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAG CGGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTG GCGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTT ATCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCT GTTAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGG CCCCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATT CCGGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGA CGATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAG CAATATGACACGTTACCGATTACCTTCGGTCAAGGTACCAAGGTGG AAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 771	dc-771	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAATTACCACTGGGACGACTCTTCTGACGGCCGTAT CTTCGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT CAGACGTGGGGTTCTTGGGTGTTTGGCCAAGGTACGAAGGTGGAGA TTAAA
SEQ ID NO. 772	dc-772	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCGGTGGTTCTGGTTCTTTCTATCGTTTATTC GATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCTT CTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCGG CGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATCT CTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAAG CGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCAA GCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCAT TCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTAA CCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTCTG CAACACAACAGCTATCCGTTCACGTTCGGTCAGGGTACCAAAGTGG AGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 773	dc-773	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCAACTACGGTTTCGACTACGGCAGCACGTA CTATTCTGGCAATGGCTTCGACTACTGGGGCCAGTGGGGCCAGGGT ACGTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAGCAG CGGCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACGCAA AGCCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGTTAA GCTGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGGTAC CAGCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCGCGA GCTCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGGTTCT GGCACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAAGACT TTGCCGTTTACTATTGCCAGCAATCTTACTCTACCCGCTATACCTTTG GTCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 774	dc-774	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCTCTGCCGACGACTACTGGGGTCAGTGGGG CCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTTCTT CTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTGCT GACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCGCC ACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAGCG TGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTACG GCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGCAG CGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGCCA GAAGATTTCGCCGTTTATTACTGTGAAACGTGGGATTCTTTTCATAC GGTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 775	dc-775	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGCCGCCTACGGTGACGTTGTGCGTCCAGC CTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCT TACAACACAATAGCTATCCATTAACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA
SEQ ID NO. 776	dc-776	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGCCGGTTCTGGTTTAGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGCCTGGGATAGCTC TCCGGGTTTCGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 777	dc-777	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGCCACGATCTTAGGTTTAGATGCGCACGG TCATGGTTTTGATCATTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTCAACAGTATGGCTCTTGGCCACCATCTTTTACGTTTGGCCAGG GTACGAAGGTGGAGATCAAA
SEQ ID NO. 778	dc-778	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGACTCTTACCGCGGTCCACTGCATGGTTA CTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAATCTTATAGCCCGCCACCAACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 779	dc-779	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTGGTGACGTTATGCCATTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCAAGCAGTATGAC AGCTTCCCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 780	dc-780	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTGGTGTTGCCGCCGTTGATGATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGC TCTTCTACGCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 781	dc-781	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTTAAAGGGTTACTTCGGCCATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGC TCTTCTTCTGGCCTGGTGGTTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 782	dc-782	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTCTACGACGGGTATCAGCTGGGGCTA CGGTCTGGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCGTTGGTTGGGACGGCAGCCTGTCTGGTGAGGTTTTTGGTCAGGGC ACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 783	dc-783	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATAACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGAGCTACGACTCTATCAATCGCGATGTG GTGTTCGGTCAAGGCACGAAGGTGGAGATTAAA
SEQ ID NO. 784	dc-784	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCGGCGCGTGGGACTCTCGCTCTAATGTTTAT GTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 785	dc-785	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCGGCACCTGGGACTCTTCTTTAAGCGCCGGC GTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 786	dc-786	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGGCGTGGGACTCTCGCACGGTGGTTTTT GGCCAGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 787	dc-787	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACAAGGGTGGTATGTACGGTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCAAGCAGTATGAC AGCTTCCCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 788	dc-788	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTAGGTGGTCGCTTCACGTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAACATAGCTCTCC GCCAATCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 789	dc-789	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTACCAGGTTACTTAACGTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGCGCAG CAACTCTCCAGGCGTGACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 790	dc-790	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTACGCGGTGCCTGGGGTCCAGGCGGCTT CGACGTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAC AGTACTACACGACCCCGGTGACGTTCGGTCAAGGCACGAAAGTGGA AATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 791	dc-791	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTAACGGGTTACCGCTCTCGTAGCTACCA ATGGGATGGTATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTG GTGACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGG TGGCGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCG GCCACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTC GCGCCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAG AAGCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCG TGCGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACC GACTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGT GTACTATTGTGCCTCTTGGGATGATAGCTTAAACTCTGGTTGGGTGT TCGGCCAGGGCACGAAGGTTGAAATCAAA
SEQ ID NO. 792	dc-792	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTATACGCCATCGGTGCCGGCATGGATCC ATGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTG GGACAGCTTCGGTCAAGTGTTTGGCCAAGGTACGAAGGTGGAGATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 793	dc-793	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACATGGCCGGTTACAACTGGATCGACTTTTG GGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGC AGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGG TGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCG GGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTC TTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTT TATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGT TTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCG CTTAGAACCGGAGGACTTCGCGGTTTACTATTGTGCGGCCTGGGATG ATTCTCTGAACTTACCAGTGTTTGGCCAAGGTACGAAGGTGGAGATT AAA
SEQ ID NO. 794	dc-794	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCACGCGGTTGGGGTTACGCCTATGGCGA CTTCTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGCGGC CTGGGATTCTTCTTCTGGCCGTCGTTGGGTTTTCGGTCAAGGCACGA AAGTGGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 795	dc-795	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCATCTGGTCACGGTATGGACGTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAAGCTATTCTC TGCCACGCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 796	dc-796	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCAAGGTTACTACGGTGGTAGCCGTGCCTC TGAATACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCT TCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCG GCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATC TCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAA GCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCA AGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCA TTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTA ACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTCA GCAATACTACAATCCGCCGCAAACGTTCGGTCAGGGTACCAAAGTG GAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 797	dc-797	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGCCGGTGACGGTATGGACGGCTGGG GCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAG CTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTG AAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGG TGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTT CTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTT ATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTT TTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGC TTAGAACCGGAGGACTTCGCGGTTTACTATTGTCAGTCTTATGATTC TAGCTTAAACCCATATGTGGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA
SEQ ID NO. 798	dc-798	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTGGTCGCGACGGTTATGGCATGGA CGTTTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA AGCGGACAACTTCCCGCTGACCTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 799	dc-799	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTGGTCGCGACGGTTATGGCATGGA CGTTTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA AGAAGACAACTACCCGCTGACCTTCGGTCAAGGTACCAAGGTGGAA ATTAAA
SEQ ID NO. 800	dc-800	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTGGTCGCGACGGTTATGGCATGGA CGTTTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA AGAAGACTCTCCACCGCTGACCTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 801	dc-801	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTGGTCGCGACGGTTATGGCATGGA CGTTTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA AAGCTACTCTCCACCGCCGACCTTCGGTCAAGGTACCAAGGTGGAA ATTAAA
SEQ ID NO. 802	dc-802	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTACGTTCCCATTATTTGATTCTTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCAGCTACGCGG ACGGTCGCTATGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 803	dc-803	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACCGCGGTTACTATGCGGGTAA CTGGTTTGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCCAAGCCTGGGACAGCAGCACCAACCACGTTGTTTTTGGTCAGGG CACCAAGGTTGAGATTAAA
SEQ ID NO. 804	dc-804	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACCGCGGTTACTATGCGGGTAA CTGGTTTGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCCAACAATCTGATAGCCCGCCAATCACGTTCGGCCAAGGCACCAA AGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 805	dc-805	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGCGAGCTACACC CCATCTCGCAATACCTATGTTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 806	dc-806	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCCGCACGGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 807	dc-807	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTATCTGGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 808	dc-808	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTACGGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 809	dc-809	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTGGGA CAGCTTCGGTCAAGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 810	dc-810	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGAT TCTATGTCTGGTTGGATTTTTGGCCAAGGTACGAAGGTGGAGATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 811	dc-811	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGAC AGCTTCGGTTTAGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 812	dc-812	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCCATGGATGTACCCAGACTTATGGGG CCAGTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGC AGCCGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGA GATTGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGC GAGCGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTC TTACCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTG TTAATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTT TAGCGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTT TAGAGCCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAG CAGCTCTGATCACTGGGTTTTCGGCCAGGGCACGAAGGTTGAGATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 813	dc-813	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT CTGACGGCCGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 814	dc-814	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCACGGGTATCACGGGTTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTGCCACGGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 815	dc-815	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTCTTACTCTCCACCGCCAACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 816	dc-816	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTACAACAACTGGCCACCGCCACG TACCTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 817	dc-817	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTCACTACTACGGTATGGACGTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTAGCTCTTTTACCCCAA GCTCTACGTTCGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 818	dc-818	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTAAGGGTTACTTAGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAGAAGATTCTCC GCCAATCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 819	dc-819	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGTTGGTGTTGGTGCCACGGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCTACAG CCCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 820	dc-820	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGGCCGGTTACTACGGTATGGACGTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATGATTCTC CGCCATTAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 821	dc-821	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGGGTGCCACGGGTACGTTACAGGGCGCCG CCCAGTACGGCATGGATGTGTGGGGTCAATGGGGTCAGGGCACCCT GGTTACGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTG GCGGCGGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCC AGCCACCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTC GCGCGTCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAA AAGCCGGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCG TGCGACGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACG GACTTTACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGT TTATTACTGTCAACAGTATAATAACCCACCAGTTACCTTCGGCCAGG GCACGAAGGTTGAAATCAAA
SEQ ID NO. 822	dc-822	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGATCGGTAACGTTTACTACGGCTTTGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAA GCGACTCTCCACCGATTACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 823	dc-823	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCG GTACGTGGGACAGCCGTCTGTTATCTGGTGGTATGTTTGGTCAGGGC ACCAAGGTTGAGATTAAA
SEQ ID NO. 824	dc-824	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCG GTACGTGGGACAGCAGCCTGTTATCTGCCTGGGTTTTTGGTCAGGGC ACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 825	dc-825	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGCCTGGGACAGCCGTACCGGTGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA
SEQ ID NO. 826	dc-826	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGCCTGGGACAGCAGCACCGTTGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 827	dc-827	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAATCTGATAGCCCGCCATTAACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA
SEQ ID NO. 828	dc-828	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTTCCAAACGATCTCTTATACCACGGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGTTTGGGACAGCAGCAGCGACCACGACCACGTGGTTTTTGGCCA GGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 829	dc-829	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCGGTGTTACGCGCCCATTTTATTACTC TGGCTACGGCATGGATGTGTGGGGTCAATGGGGTCAGGGCACCCTG GTTACGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGG CGGCGGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCA GCCACCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCG CGCGTCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAA AGCCGGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGT GCGACGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGG ACTTTACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTT TATTACTGTCAACAGTATGCGTCTCCACCAGTTAGCTTCGGCCAGGG CACGAAGGTTGAAATCAAA
SEQ ID NO. 830	dc-830	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCGCTACAACTACTCTCGCGGCAAATTAGG TATTCCAGCGATGGATATTTGGGGTCAATGGGGTCAGGGCACCCTG GTTACGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGG CGGCGGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCA GCCACCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCG CGCGTCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAA AGCCGGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGT GCGACGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGG ACTTTACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTT TATTACTGTCAACAGTATGATAACTTACCAATCACCTTCGGCCAGGG CACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 831	dc-831	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGTGGGGTGGTTCTTGGTTCGGTATGGACCC GTGGGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGC GGCAGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGG CGGTGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGC CCGGGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTC TTCTTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCAC GTTTATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCC CGTTTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAG CCGCTTAGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAGCGT ATTCTCCGCCAGTTACGTTTGGCCAGGGTACGAAGGTTGAAATCAA A
SEQ ID NO. 832	dc-832	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTCCGCTCTTCTAACCGCGGTTTTGATGTTTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTATGCAGGGCACGC ATTGGCCACCAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 833	dc-833	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGGTTACCGCGACTGGTTAAAGCAGAGCTA CTACTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCG TTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGC AGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGT TAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCT CAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGG TCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCG GCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACG CTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTG CCAAACGTGGGACAGCCGTCTGAACTCTGCCGTTTTTGGTCAGGGCA CCAAGGTTGAGATTAAA
SEQ ID NO. 834	dc-834	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTAAGGCCTGGGGTTGGTTCGACCCATGGGG CCAGTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGC AGCCGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGA GATTGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGC GAGCGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTC TTACCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTG TTAATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTT TAGCGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTT TAGAGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGTACGATAG CACGCCGTACACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 835	dc-835	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTAAGGCCTGGGGTTGGTTCGACCCATGGGG CCAGTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGC AGCCGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGA GATTGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGC GAGCGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTC TTACCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTG TTAATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTT TAGCGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTT TAGAGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGTACAATAA TTGGCCATATACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 836	dc-836	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTAAGTCTTTAGGTGCCTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCTACAG CCCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 837	dc-837	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTACGCGGTTACCGCGGTGGCGGCACGTA CGATGCCTTTGATGTGTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTCAAGCGTGGGATAGCTCTTCTGCCTACGTGTTCGGCCAGGGCA CGAAGGTTGAAATCAAA
SEQ ID NO. 838	dc-838	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCCATACCGCCGCTCTTACTTTAGCTACGG TATGGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT CAGCAAGACAACAATCTGCCGATCACGTTCGGTCAGGGTACCAAAG TGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 839	dc-839	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCCATACCGCCGCTCTTACTTTAGCTACGG TATGGATGTTTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT CAGCAAGAGAACAGCCCGCCGGTTACGTTCGGTCAGGGTACCAAAG TGGAGATCAAA
SEQ ID NO. 840	dc-840	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTCTGTTTACTACTACCAGCCGTTCGA CCTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACTACTCTACCCCGTTTACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 841	dc-841	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGCCTGGGATAGCAGCACGCACCGCGTTTTTGGTCAGGGC ACCAAGGTTGAGATTAAA
SEQ ID NO. 842	dc-842	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAATATAATACCTACGGTACGTTCGGCCAAGGCACCAAA GTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 843	dc-843	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTTCTTCTTATATTAGCGGTACGACGCACGTGATCTTTGGCCAGG GTACGAAGGTGGAGATCAAA
SEQ ID NO. 844	dc-844	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGTTGGTGCCCGCTCTTCTAATCTGGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCGTCAAGG CGCCCACTGGCCATGGGCGTTTGGCCAAGGTACGAAGGTGGAGATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 845	dc-845	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGCCGCCGACTACTCTTTCAGCTATCCATA CGCGTCTTATATGGATCCGTGGGGTCAATGGGGTCAGGGCACCCTG GTTACGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGG CGGCGGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCA GCCACCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCG CGCGTCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAA AGCCGGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGT GCGACGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGG ACTTTACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTT TATTACTGTCAAGCGTGGGATAGCTCTTCTATCGTTGTGTTCGGCCA GGGCACGAAGGTTGAAATCAAA
SEQ ID NO. 846	dc-846	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTGACTACTACGACTCTAGCGGCCGCGT TGGCTACTATGGCGCGTTCGACATCTGGGGCCAGTGGGGCCAGGGT ACGTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAGCAG CGGCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACGCAA AGCCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGTTAA GCTGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGGTAC CAGCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCGCGA GCTCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGGTTCT GGCACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAAGACT TTGCCGTTTACTATTGCCAGCAAGCCAACTCTCCGCCAATTACCTTT GGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 847	dc-847	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTATCGCCTTACCAACGGCGATGGATTA CTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTA CGATAACCCACCAGTGACCTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 848	dc-848	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGGTGTTTCTGGTTCTTCTTATGGCGCCTTC GATATCTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCTT CTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCGG CGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATCT CTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAAG CGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCAA GCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCAT TCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTAA CCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTCAG GCCTGGGACTCTAGCAGCATTGTTGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 849	dc-849	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCACTACCGCTCTTCTACGCGTAGCCACGG TTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAATCTGATAATAATCCAATCACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA
SEQ ID NO. 850	dc-850	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCACTACTACGGTTCTGGTTTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACGATA ACCCACCAGTGAGCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 851	dc-851	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACATCCGCGGTGGTATGAACGTTTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCGGTACCTGGGACAGCAG CTCTAGCCCAGGTGGTGTGTTTGGCCAAGGTACGAAGGTGGAGATT AAA
SEQ ID NO. 852	dc-852	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCAAACGGACCGCTTATCTAGCGGCTACTA CTATCCAGTGTATATGGATTTATGGGGTCAATGGGGCCAGGGCACCT TAGTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGGC GGCGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCTC CAGCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTTG TCGTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAAC AAAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCAG CCGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGTA CGGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGCC GTGTACTACTGTCAGACCTGGGATTCTTCTACGGGTGTGTTCGGCCA GGGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 853	dc-853	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCGGTGGTGGTTACGGTCATTATATGGA CGTTTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGAC GTGGGATTCTTCTACGGCGGTGTTTGGTCAAGGTACGAAAGTTGAA ATTAAA
SEQ ID NO. 854	dc-854	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACGTTACGTTATCTTCTTGGTACAGCATTGAC TACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCG GTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGC GGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTAT CTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTT AGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCC CACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCG GCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGA TCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGGCACG TGGGATTCTTCTGCCCTGCTGGAAGTTTTCGGTCAAGGCACGAAAGT GGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 855	dc-855	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACTACTCTTCTTCTCCAGCCGGCGATTTCTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGCGACCTGGGACG ATTCTTTAAACGGCCCGGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 856	dc-856	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACTACTCTGTTATGTGGGACAAGCCAGTGTA TATGGACTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTG AGCAGCGGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAG CGGTGGCGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTG AGCTTATCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCC AATCTGTTAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGT CAGGCCCCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGG TATTCCGGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCC TGACGATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGC CAGACGTGGGATTCTACGACGCATGTGGTGTTCGGTCAAGGTACCA AGGTGGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 857	dc-857	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATCCGCTACTGGTCTTACCAAGACCCGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGGTTTGGGATTATT CTCGTAACAACTGGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAA A
SEQ ID NO. 858	dc-858	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAAGTTCGTTGGTGCCTCTTCTACCTTTGACTCT TGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGTG GTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGGC GGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCTC CGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTAG CTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCCA CGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGGC GCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAA GCTACTCTACGCCGCCGTGGACCTTCGGTCAAGGTACCAAGGTGGA AATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 859	dc-859	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTAGGTGGTCGCGACGGTTACTTTATTCGCAA GGGCGCCTTTGATATTTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTCAACATTATAATAACTGGCCACCAACGTTTGGTCAGGGCACCA AGGTTGAGATTAAA
SEQ ID NO. 860	dc-860	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTAGGTTCTTGGTACGCCGGTTACGGCGCGAT GGACTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGC AGCGGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGG TGGCGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGC TTATCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATC TGTTAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAG GCCCCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTAT TCCGGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGA CGATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAG GCCTGGGATTCTTCTGCCGCGGTGGTGTTCGGTCAAGGTACCAAGGT GGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 861	dc-861	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTATTATCTACGTCTAACTGGTTCGATCCGTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTTTGGTG GCAACAACAACTGGATTTTTGGCCAAGGTACGAAGGTGGAGATTAA A
SEQ ID NO. 862	dc-862	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTATTATGGTCTCGCACGGGTCACCGTTTTGAC TCTTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCG GTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGC GGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTAT CTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTT AGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCC CACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCG GCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGA TCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAA CGTTCTAACCCACCGGGCTATACGTTCGGTCAAGGCACGAAAGTGG AAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 863	dc-863	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTACGCGGTTCTTACTACCGCAATTGGTTTGAC CCATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCG GTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGC GGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTAT CTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTT AGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCC CACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCG GCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGA TCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGGCACG TGGGATTCTTCTGGTCTGCCGTATGTTTTCGGTCAAGGCACGAAAGT GGAAATCAAA
SEQ ID NO. 864	dc-864	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTAACGCGCGCCCAACAATCTAGCAGCGCCTA CCGTTTACGTAGCAGCTACTACATGGACCCGTGGGGCCAGTGGGGC CAAGGTACGTTAGTTACCGTTTCTAGCGGCGGCTCTAGCCGTTCTAG CAGCAGCGGTGGCGGCGGTAGCGGCGGCGGCGGCGAAATTGTGTTA ACGCAGTCTCCAGCGACCCTGTCTCTGTCTCCAGGTGAACGCGCCAC GCTGTCTTGCCGCGCGTCTCAGAGCGTTTCTAGCTCTTATTTAGCCT GGTATCAGCAGAAGCCGGGTCAAGCCCCGCGCTTATTAATCTATGG CGCGTCTAGCCGTGCGACGGGCATTCCGGCCCGCTTTAGCGGCTCTG GTAGCGGCACGGACTTCACCTTAACGATTTCTCGTTTAGAACCGGAG GATTTCGCCGTTTATTATTGCCAACAATTAGACCGTTACCCGCCGAC CTTCGGTCAAGGCACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 865	dc-865	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTAACGTCTGACCACTCTTACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGTTTGGCATAGCGG TGATAACCGCTGGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 866	dc-866	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGGACCGCGTTGGTTCTCGCGGTTATACCTA CTACAGCACGCTGGGCAGCTACGCCATGGACATTTGGGGCCAGTGG GGCCAAGGTACGTTAGTTACCGTTTCTAGCGGCGGCTCTAGCCGTTC TAGCAGCAGCGGTGGCGGCGGTAGCGGCGGCGGCGGCGAAATTGTG TTAACGCAGTCTCCAGCGACCCTGTCTCTGTCTCCAGGTGAACGCGC CACGCTGTCTTGCCGCGCGTCTCAGAGCGTTTCTAGCTCTTATTTAG CCTGGTATCAGCAGAAGCCGGGTCAAGCCCCGCGCTTATTAATCTAT GGCGCGTCTAGCCGTGCGACGGGCATTCCGGCCCGCTTTAGCGGCT CTGGTAGCGGCACGGACTTCACCTTAACGATTTCTCGTTTAGAACCG GAGGATTTCGCCGTTTATTATTGCCAACAAGCCTACAGCCCACCGAT TACCTTCGGTCAAGGCACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 867	dc-867	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGGGTGGTGGTAACGACTCTGGTGCGTTTGA CTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA ATATGACTCTCCACCGGTGACCTTCGGTCAAGGTACCAAGGTGGAA ATTAAA
SEQ ID NO. 868	dc-868	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGGGTCAACACTCTTACGGTAAGAATAGCTT CGCCGTGTACATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTG GTGACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGG TGGCGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCG GCCACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTC GCGCCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAG AAGCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCG TGCGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACC GACTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGT GTACTATTGTCAACAATTTGATGATTTACCAATCACGTTTGGTCAGG GCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 869	dc-869	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGAAGACGCGCAAGGACTGGTTCGACCCGTG GGGCCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGC AGCTCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGG TGAAATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCG GGTGAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTC TTCTTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTT TATTAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGT TTTAGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCG CTTAGAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATA GCTCTCTGCCATCTGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATT AAA
SEQ ID NO. 870	dc-870	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCAACGCTACGGTATGGACGTTTGGGGTCA GTGGGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGC CGTTCTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAAT CGTGCTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAA CGCGCCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTAC TTAGCGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGA TCTACGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGC GGCAGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGG AGCCAGAAGATTTCGCCGTTTATTACTGTGCGTCTTATTCTACCGGC TCTACCTTATACGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 871	dc-871	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATGCAACGCTACGGTATGGACGTTTGGGGTCA GTGGGGCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGC CGTTCTTCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAAT CGTGCTGACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAA CGCGCCACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTAC TTAGCGTGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGA TCTACGGCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGC GGCAGCGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGG AGCCAGAAGATTTCGCCGTTTATTACTGTCAGACGTGGGATTCTTTT GGCCAAGTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA
SEQ ID NO. 872	dc-872	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACGGTCGCACGGTTACGAAGGGCATGGATGT TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTC TTATTCTCCACCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 873	dc-873	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACGGTTCTTTAGGTTTCGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAGCGTATTCTCC GCCAATCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 874	dc-874	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCGGTTGGACGGGTTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAA CAGCTTCCCACCAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 875	dc-875	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCAACTACTCTGCCGGTTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACGGC TCTTCTCCAATGATTACCTTTGGTCAAGGTACGAAAGTTGAAATTAA A
SEQ ID NO. 876	dc-876	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCGTTCCAAAGTACCCAATGGATGTGTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAATGTGGGAT AGCTCTAGCGACCACTCTGTGTTTGGCCAAGGTACGAAGGTGGAGA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 877	dc-877	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACCGCGTTCCAAAGTACCCAATGGATGTGTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGAT TCTAGCTCTGACCACGTGGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA
SEQ ID NO. 878	dc-878	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCAATACATCTCTGGTGGTTACAGCTATTCTTCT CGTTTAAGCTATGGCATGGACCCATGGGGTCAGTGGGGCCAGGGCA CGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTAGC GGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCAAT CTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTATCT TGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTACCA ACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGAGC AGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTCTG GTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATTTC GCGGTTTACTACTGCCAGCAGGCCAACTCTCCACCGATCACCTTTGG CCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 879	dc-879	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCAATACATCTCTGGTGGTTACAGCTATTCTTCT CGTTTAAGCTATGGCATGGACCCATGGGGTCAGTGGGGCCAGGGCA CGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTAGC GGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCAAT CTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTATCT TGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTACCA ACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGAGC AGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTCTG GTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATTTC GCGGTTTACTACTGCCAGCAGTCTTACTCTCCACCGGTTACCTTTGG CCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 880	dc-880	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCTTAGTTTCTTCTGACTCTCCGTATTTCGAC TATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCTG GTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGGC GGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAAG CCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTGT CTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGCGT GGGACTCTTCTAGCAGCACCCGCGTTTTCGGTCAGGGTACCAAAGTG GAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 881	dc-881	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCCCAGCCCGCTCTTCTCAAGGCCGTCCAAT CGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCT TCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCG GCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATC TCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAA GCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCA AGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCA TTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTA ACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTCA GGTTTGGGACTCTAGCAGCGATCACTGGGTTTTCGGTCAGGGTACCA AAGTGGAGATCAAA
SEQ ID NO. 882	dc-882	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTGGTCAATACGCCGGTTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAACAG CTTCCCATTAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 883	dc-883	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTTTAAACGGTGGTGCCGGTGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGTACAG CCCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 884	dc-884	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTCCACGCCCACACGGTGGTCCGTATTTAGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGTC TTACTCTACCCCGTGGACCTTCGGTCAAGGTACCAAGGTGGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 885	dc-885	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTTCTGGTTCTTACCGCCCATTTGATTCTTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACTATG ACTGGCCACCAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 886	dc-886	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTTCTGGTTCTTACCGCCCATTTGATTCTTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACTATT CTACGCCACCGTATACCTTCGGTCAAGGTACCAAGGTGGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 887	dc-887	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTTACGTTTACCGCATCGGTACCTGGAGCTA CGACGTGTACCTGGGCGATGTTTGGGGTCAATGGGGCCAGGGCACC TTAGTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGG CGGCGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCT CCAGCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTT GTCGTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAA CAAAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCA GCCGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGT ACGGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGC CGTGTACTACTGTCAGGTGTGGGATTCTTCTTCTTCTGATCAAAATT ATGTGTTCGGTCAAGGCACGAAGGTGGAGATTAAA
SEQ ID NO. 888	dc-888	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGCGCTACCCATACTCTATGGACGTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATAGC TCTCTGCGCTCTGGTTTTTTTGGCCAAGGTACGAAGGTGGAGATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 889	dc-889	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGTCTTCTGGTTCTACGGCCGCGCCGATCGG TTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGAGGCGT GGGACGACAACCTGAGCCGTCGCGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA
SEQ ID NO. 890	dc-890	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTGCCCGCGGTGGTTACAAGACCGCGGACTT ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCTGCAAGG CGACGGTTTACCGCGTACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 891	dc-891	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTGCCTCTTCTTCTGCCGGTGGCGTGGACTAC TGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGTG GTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGGC GGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCTC CGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTAG CTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCCA CGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGGC GCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TAACAACTGGCCAGCGCTGACCTTCGGTCAAGGTACCAAGGTGGAA ATTAAA
SEQ ID NO. 892	dc-892	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTGGTTACGGTGACTACGGTGGCATTGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCAGCTCTTA TACGTCTTCTGCGCTGGAATTCGGTCAAGGTACCAAGGTGGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 893	dc-893	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTAACTACCGCTACTTAGCCGGCTTTGACCC ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAA CCAACTCTTTCCCGCCGACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 894	dc-894	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTCCACGCGACTTAGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAGCAGCA TCAGCCACTGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 895	dc-895	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTCCACGCGACTTAGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAGCAGCT CTGATCACTGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 896	dc-896	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTCCACGCGGTGGTGACAAGTTTGATCCATG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGCAC AGCGGTGACAACCGTTGGGTGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 897	dc-897	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTCGCGGTGGTTGGTCTGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGGCCTATAGCCC ACCGATCACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 898	dc-898	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTTCTCACGGTTACCGCTCTATGGATAATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCGTTCT AATGGTTGGCCACCATGGACCTTTGGCCAAGGTACGAAGGTGGAGA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 899	dc-899	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACCGCCGCCGCGGTGACTTAACCCGTCGCTA CCCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAACGAGCGGCACCGGTATCCCAGTTTTTGGTCAGGGCACCA AGGTTGAGATTAAA
SEQ ID NO. 900	dc-900	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TAACTCTACGCCGCTGACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 901	dc-901	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGACGGTGCCAAGTACTACTTAAGCTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGC TCTTCTACGCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTAA A
SEQ ID NO. 902	dc-902	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGGTGGTTTATACAAGTCTGGTCAGTTTGACTC TTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TTACTCTATCCCGCGTACCTTCGGTCAAGGTACCAAGGTGGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 903	dc-903	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCCACGACTCTTCTGGTTACTACGATTGGATTGA CTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGC CTGGGATTCTTCTACGTATACCGTGTTCGGTCAAGGTACCAAGGTGG AAATTAAA
SEQ ID NO. 904	dc-904	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCCACGACTCTTCTGGTTACTACGATTGGATTGA CTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGAT CTGGGATTCTTCTTCTTATGTGGTGTTCGGTCAAGGTACCAAGGTGG AAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 905	dc-905	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCAAGACGCCAGAGTGGGAGGGTGCCCCGTTTC AATGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGG CGGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTG GCGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTC TCCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTT CTAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCC ACGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGG CGCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCAT CTCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGT GGGACTATTCTCGCAACAATTGGGTGTTTGGTCAAGGTACGAAAGTT GAAATTAAA
SEQ ID NO. 906	dc-906	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCCAATACTCTTCTGGTTGGCCACCAGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCATGCAAGCGATT CCACATTTACGCTTAACCTTTGGCCAAGGTACGAAGGTGGAGATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 907	dc-907	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCCGCGGTCGCGGTCAACAAGTTGGCAAAAACT GGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGG TTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCG GCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCC AGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTA GCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACG CCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGC GTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCT CGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGA CTATTCTCGCAACAATTGGGTGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA
SEQ ID NO. 908	dc-908	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCTGGCGCAAGGGTTACTACTACGGTCGTGATGG TTACCCGGACAATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCCAAGTTTGGCACAGCGGCGATAACCGCTGGGTTTTCGGCCAAGG CACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 909	dc-909	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGAGCAACCAAACGGTGGTTGGCCACTGGATTC TTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTA CACCTCTTCTTCTACCCTGGCGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 910	dc-910	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACTCTGGTAGCGATCATTGGGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 911	dc-911	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACTCTTACAATGATCATGTTGTTTTCGGTCAGGGTACCAAAGTGG AGATCAAA
SEQ ID NO. 912	dc-912	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCTCTAGCTA CGCCTCTAGCGGCACCTGGGTTTTCGGTCAAGGCACGAAAGTGGAA ATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 913	dc-913	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCTATTCTGGTGTTTACGAGCGCTTCTTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGACGCAG ACGTTCCCACCGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 914	dc-914	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGGTAAAGGTGGTTTCTGGCACCCATCTTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAGCCG TTCTGATCACTGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 915	dc-915	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGGTCGTGCCGACTACCCATTCGACATCTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAGCAGCG GTGATGACTGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 916	dc-916	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTTCTCGTGAGCGCCCAGTTGGTTCTTACTATAGCGGTTTA GGCTACCCGAAAGATTCTTGGGGTCAATGGGGCCAGGGCACCTTAG TTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGGCGGC GGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCTCCAG CGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTTGTCGT GCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAACAAA AACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCAGCCG TGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGTACGG ATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGCCGTG TACTACTGTCGTGTGTGGGATTCTTCTAACGACCATTGGGTTTTTGG CCAGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 917	dc-917	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTTCTCGTAAGTACTACCACCCAAACTACGGCTATTCTTCT GATAACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCTT CTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCGG CGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATCT CTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAAG CGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCAA GCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCAT TCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTAA CCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTCAG GTTTGGGACTACAGCCGTAATAACTGGGTTTTCGGTCAGGGTACCAA AGTGGAGATCAAA
SEQ ID NO. 918	dc-918	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTGACCACTGGTACTCTTTAGACGCCTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGGAGGATAGCCC ACCGATCACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 919	dc-919	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTGAGAACGCCTACGTTTCTTTCGATGCGGTTGA CTTTGGTATGGATCATTGGGGCCAATGGGGTCAAGGCACCCTGGTG ACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGG CGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCC ACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCG CCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAA GCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTG CGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGA CTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGT ACTATTGTCAACAAAGCTATAGCCCACCAATCACGTTTGGTCAGGGC ACCAAGGTTGAGATTAAA
SEQ ID NO. 920	dc-920	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTGGTGGTGCCCGCTACGCCTTAAATAGCTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATTACAGC CCACCAATCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 921	dc-921	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTGGTGGTGCCACGGACTACTGGGGTCAGTGGG GCCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTTCT TCTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTGCT GACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCGCC ACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAGCG TGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTACG GCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGCAG CGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGCCA GAAGATTTCGCCGTTTATTACTGTCAGCAATATGGTAGCAGCCCAAA AACGTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 922	dc-922	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTCACGTTTCTTGGTACGGTGACTCTGCGATTTA CTACTATTACTATGGCCAGCCATACGGTATGGATTATTGGGGCCAGT GGGGTCAAGGTACGTTAGTGACGGTTAGCAGCGGCGGTAGCAGCCG CAGCAGCAGCTCTGGCGGCGGTGGCAGCGGCGGCGGCGGCGAAATT GTTTTAACCCAATCTCCGGCGACCTTAAGCTTATCTCCAGGCGAGCG CGCCACCTTAAGCTGTCGTGCCAGCCAGTCTGTTAGCTCTAGCTACT TAGCGTGGTATCAGCAAAAACCAGGTCAAGCGCCACGCTTATTAAT TTATGGCGCCAGCAGCCGTGCCACCGGCATTCCAGCCCGTTTTAGCG GTTCTGGCAGCGGTACGGACTTTACGTTAACCATCAGCCGCCTGGAA CCAGAAGACTTCGCCGTGTATTATTGTCAAGCCTGGGACAGCAACC CGATGGTGGTGTTCGGTCAAGGCACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 923	dc-923	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTCACGTTTCTTGGTACGGTGACTCTGCGATTTA CTACTATTACTATGGCCAGCCATACGGTATGGATTATTGGGGCCAGT GGGGTCAAGGTACGTTAGTGACGGTTAGCAGCGGCGGTAGCAGCCG CAGCAGCAGCTCTGGCGGCGGTGGCAGCGGCGGCGGCGGCGAAATT GTTTTAACCCAATCTCCGGCGACCTTAAGCTTATCTCCAGGCGAGCG CGCCACCTTAAGCTGTCGTGCCAGCCAGTCTGTTAGCTCTAGCTACT TAGCGTGGTATCAGCAAAAACCAGGTCAAGCGCCACGCTTATTAAT TTATGGCGCCAGCAGCCGTGCCACCGGCATTCCAGCCCGTTTTAGCG GTTCTGGCAGCGGTACGGACTTTACGTTAACCATCAGCCGCCTGGAA CCAGAAGACTTCGCCGTGTATTATTGTCAAGGTTGGGACAGCTCTGC GCATGTGGTTTTCGGTCAGGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 924	dc-924	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTCAATGGGAGGCCCAAGCCCCATTCGATTTTTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGAAT TCTAGCTTATCTGCCGGCGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 925	dc-925	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTAAAAAGGTTGCCGGTTCTTACCCATATGATATCTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTACGGACCATGTGCTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA
SEQ ID NO. 926	dc-926	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTAATAACAACACGGGTTGGGCCTTCGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAAGCTATTCTC CGCCACCAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 927	dc-927	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGCCAGCTGGGATG ACAGCTTAAACGGTCGTGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA
SEQ ID NO. 928	dc-928	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGATT CTAGCTTATCTCGCGGCTGGGTGTTTGGTCAAGGTACGAAAGTTGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 929	dc-929	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCTTACAGTATTACA CCCCAGCCCGCGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 930	dc-930	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCATGCAAGGCGCGC ACTGGCCGTGGGCCTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 931	dc-931	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGCGAAC AGCTTCCCACGCACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 932	dc-932	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCTACA GCACGCCATGGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 933	dc-933	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATGGTC GTTCTATGTGGACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 934	dc-934	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATAACA ATTACCCATGGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 935	dc-935	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATTACA GCACGCCACAATGGACCTTTGGCCAAGGTACGAAGGTGGAGATTAA A
SEQ ID NO. 936	dc-936	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATTACA GCACGCCAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 937	dc-937	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATT CTAGCTCTGACCACTGGGTGTTTGGCCAAGGTACGAAGGTGGAGAT TAAA
SEQ ID NO. 938	dc-938	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATGCCA CCTCTCGCCCAAAATTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 939	dc-939	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGA GCTCTTCTACGCCGTATGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 940	dc-940	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGACTCTACGTACTACGGTTTAGATATTTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGACCG CCGCCACGCTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 941	dc-941	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGACTCTGTTGGTTACCGCGACCAGCCGGGTTA CTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGCCTGGGATAGCCGTACGGGTGTTTTCGGCCAAGGCACC AAAGTTGAGATCAAA
SEQ ID NO. 942	dc-942	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGAGGGTTTCTCTGGTACGTGGACGGCGTTTGA CATCTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA AAGCTACTCTCCACCGCCGACCTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 943	dc-943	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTCACTCTACGGTTCCAGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAACAGTACGATAGCCCAC CGTTAACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 944	dc-944	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCACACGATGTTAGGTTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGAT TCTAGCTCTACGGACGTGGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 945	dc-945	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCACACGATGTTAGGTTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCGTGCC AATTGGCCATTAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 946	dc-946	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGGTGGGTAG CACGCCATACACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 947	dc-947	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAAGCTATGACAGC TCTTTATTAAGCCCGCTGGTTGTTTTCGGTCAGGGTACCAAAGTGGA GATCAAA
SEQ ID NO. 948	dc-948	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAGC TCTTCTAACGCGGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 949	dc-949	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCACCAATCTAGCCGTTTTCCAATCACGTTCGGCCAAGGCACC AAAGTTGAGATCAAA
SEQ ID NO. 950	dc-950	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAATACTATAGCACCCCACCAATGTACTCTTTTGGTCAG GGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 951	dc-951	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAAGTTTTAGATAGCAGCGACGACCACCCAGTGGTTTTTGGC CAGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 952	dc-952	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGACGACGGGTATCGGTGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGCGAGCTGGGA CGATTCTTTATCTGGCTGGGTGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 953	dc-953	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTGGTTACGGTCACTCTGGTTATGCGTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGCCGTGTG GGACGACTCTCTGAGCGGCTACGTTTTCGGTCAGGGTACCAAAGTG GAGATCAAA
SEQ ID NO. 954	dc-954	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTTAATCGACCGCTACACGCGTACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAG CGAACTCTTTCCCGGTGACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 955	dc-955	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTGACGAGTACCGCGCCGTTGGCCCGTACGA CTATTGGTCTTATGCGGCGTTCGACTACTGGGGCCAGTGGGGCCAGG GTACGTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAGC AGCGGCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACGC AAAGCCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGTT AAGCTGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGGT ACCAGCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCGC GAGCTCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGGT TCTGGCACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAAG ACTTTGCCGTTTACTATTGCCAGTCTTGGGGTGACGCCTATTACGTG TTTGGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 956	dc-956	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGTTTTATCTGGTACGCGCGCCACCCTGGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGCCTG GGATTCTACGTTACATGGCGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 957	dc-957	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCAGCGCGGACGCCGGTGACAATAACCTGCT GTTTGGTCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 958	dc-958	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCAGGTTACCGCAACGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAGAAGATTCTC GTCCACGCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 959	dc-959	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTACTTCTCTACGCCGTCTTTTGGC CAGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 960	dc-960	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACACGGACGGTTACCGCTCTAGCTTTTACTC TACCGCCTATTGGATGGATCCGTGGGGTCAATGGGGTCAGGGCACC CTGGTTACGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGG TGGCGGCGGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGC CCAGCCACCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTG TCGCGCGTCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGC AAAAGCCGGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAG CCGTGCGACGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGC ACGGACTTTACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGC GGTTTATTACTGTTCTAGCTATACCTCTTCTTCTACGCTGGTTTTTGG CCAGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 961	dc-961	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTCCGCATGTCTTCTGACGTTTACTATAATCCA GCCTATATGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGA CCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGT GGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGA CGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCC TCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACC AGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGA CCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTC ACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTA CTGCTCTTCTTACACCCATAATACGACGTGGGTTTTCGGCCAAGGCA CCAAAGTTGAGATCAAA
SEQ ID NO. 962	dc-962	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCACTACCGCCGCACGGGTGAAGGCATGG ACTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAG CGGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTG GCGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTT ATCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCT GTTAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGG CCCCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATT CCGGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGA CGATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAG CAATATAACAACTGGACGCCGCCGTATACGTTCGGTCAAGGCACGA AAGTGGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 963	dc-963	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAATCTTATGATAGCTCTTCTTCTCACGTGGTTTTTGGCCAGGG TACGAAGGTGGAGATCAAA
SEQ ID NO. 964	dc-964	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCAGCTCTTA TACGTCTTCTACCACCCAGGTTTTCGGTCAAGGCACGAAAGTGGAA ATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 965	dc-965	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTGGTTACCGCGGTGTTTTAGCGGGCGTTGC CTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGTTTGGGACAGCAGCACCTCTGAGGTTTTCGGCCAAGGCACCAA AGTTGAGATCAAA
SEQ ID NO. 966	dc-966	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTTCTAAAGGTCACTCTACGATGCAATACTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTTTGCC GATTCTCGCTACATTTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 967	dc-967	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTGCCGCGTGGGACGATTCTAGCGGCCGC TGGGTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA
SEQ ID NO. 968	dc-968	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTCAACAGTACTATTCTACCACCCCATATA CGTTCGGTCAGGGCACCAAGGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 969	dc-969	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCGATTTACAATACGACTACTGGGGTCAATGGGGCCA GGGTACGCTGGTTACCGTGAGCTCTGGTGGTAGCAGCCGTAGCTCTT CTTCTGGTGGTGGCGGTTCTGGCGGCGGCGGTGAAATTGTTCTGACC CAGTCTCCGGCGACGCTGAGCCTGAGCCCGGGCGAACGTGCCACGC TGTCTTGTCGTGCGAGCCAAAGCGTTTCTTCTAGCTACTTAGCCTGG TATCAACAGAAGCCGGGTCAGGCGCCACGCCTGTTAATTTACGGTG CGAGCAGCCGCGCGACGGGTATCCCGGCCCGCTTCTCTGGCAGCGG CTCTGGCACCGATTTCACCCTGACCATCTCTCGTCTGGAACCAGAGG ATTTTGCCGTTTACTATTGTCAAGTGTGGGACAGCTCTGATGGCGTT GTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA
SEQ ID NO. 970	dc-970	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCATCGCTTATGGACGACGGGTTGGGGTCGCGATGC GTTCGACATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTG AGCTCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTC TGGCGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTG TCTTTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCA ATCTGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCC AAGCCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGC ATTCCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTT AACGATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCC AAACCTGGACGACGGGTCATTGGGTGTTTGGTCAAGGTACGAAAGT TGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 971	dc-971	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGCCATCGACGCCTTAGCCGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGAC AGCTCTTCTTCTCATCATCTGGTTGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA
SEQ ID NO. 972	dc-972	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGCCATCGACGCCTTAGCCGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGAC AGCTCTTCTTCTCTGAGCGTGGTTTTCGGTCAAGGCACGAAAGTGGA AATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 973	dc-973	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTCCGCGGTGGTGGTTCTTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACGGC TCTTCTTCTCCGCGTTGGACCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA
SEQ ID NO. 974	dc-974	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTCCGCGGTGGTGGTTCTTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGAT TCTTCTTTAAGCGGCTGGGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 975	dc-975	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTATGCAGGGCAA GCAGTGGCCAAAGGCCTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 976	dc-976	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTACGACGGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 977	dc-977	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTGGTGGTGTTTACACGCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTACACC TCTTCTTCTATTCGTCGTGTTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 978	dc-978	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTCAACAACGTGGCAATTGGCCACGCTTATTCAGCTTCGGCCAG GGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 979	dc-979	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTCAAGTTTGGGATAGCAGCTCTGGTCACCGCGTGGTTTTTGGC CAGGGTACGAAGGTGGAGATCAAA
SEQ ID NO. 980	dc-980	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACGGTCACTGGTACCGCGGTTACTATGGCTC TTACTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGA CGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGC GGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCA CGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCC AGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGC CAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCG ACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTT CACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACT ATTGTCAAGTTTGGGATAGCAGCTCTAACGTTGTTTTTGGTCAGGGC ACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 981	dc-981	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCACACGATGTTAGGTTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGAT TCTAGCATGGGTACGTGGGTTTTTGGCCAGGGTACGAAGGTTGAAA TCAAA
SEQ ID NO. 982	dc-982	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCACACGATGTTAGGTTCTTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCAAGCATCATAAC AGCGACCGCTGGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 983	dc-983	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACATCTCTTCTTGGTACAAGTCTGGCGCGTT CGGTTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAC AGTACCACAACCGTCCGCTGTGGACGTTCGGTCAAGGCACGAAAGT GGAAATCAAA
SEQ ID NO. 984	dc-984	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACATCTCTTCTTGGTACAAGTCTGGCGCGTT CGGTTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAA GCGCCGCCTCTAGCGGCAGCGTTGTTTTCGGTCAGGGTACCAAAGTG GAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 985	dc-985	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAGGTTTCACGCGCGGTTTTGATCCATG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGAT TCTTCTTCTGATTGGGTGTTTGGTCAAGGTACGAAAGTTGAAATTAA A
SEQ ID NO. 986	dc-986	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAGGTTGGTACCGCGGTTACGGCCATGC CGGTGCGGTTGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTG ACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGG CGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCC ACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCG CCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAA GCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTG CGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGA CTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGT ACTATTGTGCCGCCTGGGATGATAGCTTATCTTCTGGTGGCGTTTTT GGCCAGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 987	dc-987	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCGCCGAATGGGCGGA CAGCTTATCTGGTGGCGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 988	dc-988	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCTGCGCGGC TACCCATTAACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 989	dc-989	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGAGCGACAG CACGTTATCTTGGAGCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 990	dc-990	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAATCTACACGGCCCAAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTCAGGGCGCCAAT TGGCCATGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 991	dc-991	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTACGCTTCTCTGGTGTTTTTGATTACTGG GGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGTT CTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGGC GAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCAG GCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAGC TCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGCC TGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCGT TTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTCG TCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGATT CTTCTGGTCCGGGCTGGGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 992	dc-992	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGCGACCGGTGAT GACTCTCGCAATGGCGTGGTTTTCGGTCAAGGCACGAAAGTGGAAA TCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 993	dc-993	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGAAGCGTGGGA CGATTCTTCTATCGGCTGGGTGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA
SEQ ID NO. 994	dc-994	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTATGCAGAGCATC CAGCCAGGTTGGACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 995	dc-995	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTGGGA CAGCTCTCCAGACGATGTGTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 996	dc-996	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGCGTACGAT TCTGGTAACATTGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 997	dc-997	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGAATGGGA CAGCTCTATCGGTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 998	dc-998	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCCGTACGAT TCTTCTTCTAGCGGCCCGTACGTTTTCGGTCAGGGTACCAAAGTGGA GATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 999	dc-999	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTCTTAT ACGCCAACGTATACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 1000	dc-1000	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACAAT AACTGGCCACCATATACCTTTGGTCAAGGTACGAAAGTTGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1001	dc-1001	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGAT AACACGTTACGTGGCAGCATCTTCGGTCAAGGCACGAAAGTGGAAA TCAAA
SEQ ID NO. 1002	dc-1002	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGAT TCTTCTTTAAGCGCGTATGTTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1003	dc-1003	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGAGCTACGAT ACGTCTCGCGGCATTAAAGTTTTCGGTCAAGGCACGAAAGTGGAAA TCAAA
SEQ ID NO. 1004	dc-1004	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGAC AGCTCTACGGGTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1005	dc-1005	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGAC AGCTCTTCTGACCATCCGAGCTGGGTTTTCGGTCAAGGCACGAAAGT GGAAATCAAA
SEQ ID NO. 1006	dc-1006	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGTTCGCCCGCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTACACC TCTTCTTCTACCGAAGGCGTTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1007	dc-1007	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAACGCAATTATACTTCGCGTTTGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGACGTG GGGCACGGGTACGTGGGGCTGGGTGTTTGGTCAAGGTACGAAAGTT GAAATTAAA
SEQ ID NO. 1008	dc-1008	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTTAGTTACGGGTTCTTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCGTTCTAAT TGGCCACCACCAGCGTTTACCTTCGGTCAAGGTACCAAGGTGGAAA TTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1009	dc-1009	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCAAGAGGGTTACCGCGCCTATGGCTACA ACGGCATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGAC CGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTG GCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGAC GTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCT CTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCA GGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGAC CGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCA CGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTAC TGCCAACAAGCCAATAGCACCCCATTAACGTTCGGCCAAGGCACCA AAGTTGAGATCAAA
SEQ ID NO. 1010	dc-1010	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCAAGAGGGTTACCGCGCCTATGGCTACA ACGGCATGGACGTGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGAC CGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTG GCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGAC GTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCT CTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCA GGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGAC CGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCA CGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTAC TGCCAATCTTACGATGCGAATAACGTTGTTTTCGGCCAAGGCACCAA AGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1011	dc-1011	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCAATCTGGTACGATCGCCCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTACACC TCTTCTTCTCCGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTAA A
SEQ ID NO. 1012	dc-1012	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACCGCCGCGGTGCCGGTTACTATTATTTCGA CCATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACTACGGTAGCCCGCTGACGTTCGGTCAAGGCACGAAAGTGGAAAT CAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1013	dc-1013	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTCTGCCGCCGCCGCCGCCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAAT ACGAACACGCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTA AA
SEQ ID NO. 1014	dc-1014	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACACGTCTCGCTACTCTTTAGCGTTTGGTTTC GGCGACTTTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTTC TTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAGC GGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTAA GCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCAG TCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTCA GGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGCA TCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCTG ACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCTC TTCTTACACCAGCAGCTCTCCATACGTTGTGTTCGGCCAGGGCACGA AGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1015	dc-1015	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGCCGCCTGGGACGATAGCCTGAACGGTCACTACGTGTTCGG CCAGGGCACGAAGGTTGAAATCAAA
SEQ ID NO. 1016	dc-1016	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGCCGAGTGGGCCGATAGCCTGTCTGGTGGTGTTTTTGGTCAG GGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1017	dc-1017	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGAGGCCTGGGACGATAGCCTGTCTGGTTACGTTGTGTTCGGC CAGGGCACGAAGGTTGAAATCAAA
SEQ ID NO. 1018	dc-1018	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCGAGTCTTACGATAGCAGCCGCAACGTTGTTTTTGGTCAGGGC ACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1019	dc-1019	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAAGCCTGGGACAGCAATCCGGCCGTTGTTTTCGGCCAAGG CACCAAAGTTGAGATCAAA
SEQ ID NO. 1020	dc-1020	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAATACAATAATCCGTTATTCACGTTCGGCCAAGGCAC CAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1021	dc-1021	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAACAATACAATAGCAGCTTATGGACGTTCGGTCAGGGTAC CAAAGTGGAGATCAAA
SEQ ID NO. 1022	dc-1022	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCCAAACGTGGGACAGCTTTGGCCAAGTTTTCGGTCAGGGTAC CAAAGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1023	dc-1023	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCTCTTCTTACGCGAGCAATACGCACGTTAAGTTTGGTCAGGGC ACCAAGGTTGAGATTAAA
SEQ ID NO. 1024	dc-1024	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGACTGGGGTTGGTACCGCGGTTACGGTCATGC GGGTGCCGTGGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTG ACCGTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGG TGGCAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCG ACGTTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGC CTCTCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAAC CAGGTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCG ACCGGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTT CACGCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATT ACTGCTCTTCTTACACCAGCAGCTCTACGCACGTTGTGTTCGGCCAG GGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1025	dc-1025	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGACGACGGGTATCGGTGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGCGCAG CAACTGGTGGCCAGCCATTACCTTTGGTCAAGGTACGAAAGTTGAA ATTAAA
SEQ ID NO. 1026	dc-1026	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGAGACGACGGGTATCGGTGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTGGGAC AGCTCTTCTCACCATTGGGTGTTTGGTCAAGGTACGAAAGTTGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1027	dc-1027	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTTCTTATCTTCTGCCTTAGATTATTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCCAACATTATCACAATT CTGTTCCAGTGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 1028	dc-1028	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTTCTTATCTTCTGCCTTAGATTATTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCGTTCTAATT GGCCACCAGCCTTTAATTTTGGTCAAGGTACGAAAGTTGAAATTAA A

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1029	dc-1029	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTTCTTATCTTCTGCCTTAGATTATTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATGGTAGCC CATCTGGTCTGACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 1030	dc-1030	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTGGTTGGGCCTACATCTTCGACTATTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATAGC TCTAGCGGTGACGGTGCGGGCGTGTTCGGTCAAGGTACCAAGGTGG AAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1031	dc-1031	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTCACTCTTCTACGTACGTTATTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTGGCACCTGGGAC AGCTCTTTATCTAGCGCGGCGGTTTTCGGTCAAGGCACGAAAGTGG AAATCAAA
SEQ ID NO. 1032	dc-1032	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTCTCCATCTGGTTTATACAGCCTGGACTT CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TAACAACGGTCCGATTACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1033	dc-1033	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAGGTTACGGTCCAGCCAACGCCTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTACACC TCTTCTTCTAGCCATCTGGTTTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 1034	dc-1034	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAAATGGACTCTTACTACGCCTACGGTCTGGATTT CTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTAGCAGCTA CACCTCTACGAACACCCTGGTGTTCGGTCAAGGTACCAAGGTGGAA ATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1035	dc-1035	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACAAAACGCCATCTCTTTAGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTATGCAGGGTACCCATTG GCACCTGGCCTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 1036	dc-1036	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACAAAACGCCATCTCTTTAGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTACCACGTGGGATAGCTT AAATGGTGAGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1037	dc-1037	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACGCGCCAACGGTCACACGACGTTTGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGACCTGGGGT ACCGGTATCCGCGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 1038	dc-1038	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACGCCACGACGCCTTATGGGCCTTCGATTATTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCGGTACCTGGGAT TCTCGTATGGGTGCCTGGGTTTTTGGCCAGGGTACGAAGGTTGAAAT CAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1039	dc-1039	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAACGCCCACCAATCTCTTGGGGTCCAGCGTTTGA CTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGC CTGGGATTCTTCTTTAAATAATCTGTGGGTTTTCGGTCAAGGCACGA AAGTGGAAATCAAA
SEQ ID NO. 1040	dc-1040	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTGACGAGTACCGCGCCGTTGGCCCGTACGA CTATTGGTCTTATGCGGCGTTCGACTACTGGGGCCAGTGGGGCCAGG GTACGTTAGTTACGGTGTCTTCTGGCGGCAGCTCTCGTAGCTCTAGC AGCGGCGGTGGCGGCTCTGGCGGCGGCGGCGAAATTGTGCTGACGC AAAGCCCAGCCACCCTGAGCTTAAGCCCAGGTGAGCGTGCCACGTT AAGCTGTCGTGCCAGCCAAAGCGTGTCTTCTAGCTACCTGGCCTGGT ACCAGCAGAAACCAGGCCAAGCCCCACGTTTATTAATCTACGGCGC GAGCTCTCGTGCGACCGGTATTCCGGCGCGCTTCAGCGGCAGCGGT TCTGGCACCGACTTCACGCTGACGATCAGCCGCCTGGAGCCGGAAG ACTTTGCCGTTTACTATTGCCAGTCTTACGACTCTAGCTTAAGCGGC AGCTACGTTTTCGGCCAAGGTACCAAGGTGGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1041	dc-1041	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTATCGGTTGGATCGGTTTAGACTATTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAATATAGCTCTA GCTTAGTTGCCTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 1042	dc-1042	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATCTTTATGGGGTGGTTTCGACTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGAGAGCAG CAACCATTTAGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1043	dc-1043	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAAATACGTTTACTACGGTTCTTACCTGCGTTACGC CATGGATCCATGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTG TCTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAG CGGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTA TCTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCA AAGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGT CAAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGG CATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGT TAACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGT GCGGCCTCTGACGATAGCCTGAACTCTTGGGTTTTCGGCCAAGGCAC CAAAGTTGAGATCAAA
SEQ ID NO. 1044	dc-1044	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCGGTGGTTCTGGTTCTTTCTATCGTTTATTC GATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCTT CTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCGG CGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATCT CTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAAG CGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCAA GCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCAT TCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTAA CCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTCAG CAATCTTACGGCATTCCGTTAACGTTCGGTCAGGGTACCAAAGTGGA GATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1045	dc-1045	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCTCTGCCGACGACTACTGGGGTCAGTGGGG CCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTTCTT CTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTGCT GACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCGCC ACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAGCG TGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTACG GCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGCAG CGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGCCA GAAGATTTCGCCGTTTATTACTGTAGCTCTTATACGAGCAGCTCTCT GCGCGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 1046	dc-1046	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGCCTACACGGGTCGCTCTGGTCTGGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACTAT TCTACGCCATTTCCGTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1047	dc-1047	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGCCCGCTACGTTCCAGACGATGGCTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCTCTGACCACGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA
SEQ ID NO. 1048	dc-1048	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGACTCTTACCGCGGTCCACTGCATGGTTA CTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCG GTGCCTGGGAGACCAGCCTGTCTGGTGGTGTTTTTGGTCAGGGCACC AAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1049	dc-1049	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGACTCTTACCGCGGTCCACTGCATGGTTA CTTTGACTATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGTTTGGGACAGCAGCAGCGACCACGGTGTTTTTGGTCAGGGCAC CAAGGTTGAGATTAAA
SEQ ID NO. 1050	dc-1050	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTTAGGTTACCGCAACCTGTTTGGTTC TCATGTTAGCCGTTGGTTTGACGTTTGGGGTCAGTGGGGCCAGGGCA CGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTAGC GGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCAAT CTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTATCT TGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTACCA ACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGAGC AGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTCTG GTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATTTC GCGGTTTACTACTGCCAGAGCTACGACTCTTCTCTGTCTGATGTGGT GTTCGGTCAAGGCACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1051	dc-1051	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGGCGTGGGACTCTCGCTCTCTGGTTGTG TTTGGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 1052	dc-1052	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGGCCAAGTCTTTCCCGTTAACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1053	dc-1053	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTACTGTGCCTCTCCGCAAACCTTT GGCCAAGGTACGAAAGTTGAGATTAAA
SEQ ID NO. 1054	dc-1054	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTACGGTTCTTGGCCACTGGCCGTG ACCTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1055	dc-1055	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACGGTTACTTCTACCGCCGCAATGTGACGAC GTATTACAGCAGCTATATGGACTACTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGGTGTGGGACTCTTCTACGGATTTAGTG GTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 1056	dc-1056	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCACCGCTTAGTTCCAGTTGCGGCGCAATT ATATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGTC TTACTCTCCGCCGATTACGTTCGGTCAAGGCACGAAAGTGGAAATC AAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1057	dc-1057	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTACACTACTACGTTGCCATGGATGTGTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCATGCAAGGCACC CACCCGCCACCAACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 1058	dc-1058	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTTACGCGGTTACCGCGGTGGCGGCACGTA CGATGCCTTTGATGTGTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTGGTACCTGGGATAGCTCTTTATCTGCCGGCGTTTTTGGCCAGG GTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1059	dc-1059	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCATCTGGTCACGGTATGGACGTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGGCCTGGGATAGC ACGAGCCCATGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 1060	dc-1060	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCATCTGGTTCTTTAGACTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGTTTGGCAGGGCA CGAATTCTTTAGTTGTGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1061	dc-1061	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCCAACGGGTTACCGCTTAAGCAGCTTATA CTATTACGCGGGCTTTGCCTACGGTATGGATGTGTGGGGCCAGTGGG GTCAAGGTACGTTAGTGACGGTTAGCAGCGGCGGTAGCAGCCGCAG CAGCAGCTCTGGCGGCGGTGGCAGCGGCGGCGGCGGCGAAATTGTT TTAACCCAATCTCCGGCGACCTTAAGCTTATCTCCAGGCGAGCGCGC CACCTTAAGCTGTCGTGCCAGCCAGTCTGTTAGCTCTAGCTACTTAG CGTGGTATCAGCAAAAACCAGGTCAAGCGCCACGCTTATTAATTTAT GGCGCCAGCAGCCGTGCCACCGGCATTCCAGCCCGTTTTAGCGGTTC TGGCAGCGGTACGGACTTTACGTTAACCATCAGCCGCCTGGAACCA GAAGACTTCGCCGTGTATTATTGTGAGACGTGGGACAGCAACACCC AGGTGTTCGGTCAAGGCACGAAGGTGGAGATTAAA
SEQ ID NO. 1062	dc-1062	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCAAACGTACTACGACTCTAGCCTGTCTTA CGGCTACGCGTTTGATATCTGGGGTCAATGGGGCCAGGGCACCTTA GTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGGCGG CGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCTCCA GCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTTGTC GTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAACA AAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCAGC CGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGTAC GGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGCCG TGTACTACTGTGAAACCTGGGATTCTAACACGCGCGTGTTCGGCCAG GGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1063	dc-1063	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACCGCGGTTACTATGCGGGTAA CTGGTTTGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCGGTACGTGGGACAGCAGCCTGTCTTCTGGTGTTTTTGGTCAGGGC ACCAAGGTTGAGATTAAA
SEQ ID NO. 1064	dc-1064	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCGGTTACCGCGGTTACTATGCGGGTAA CTGGTTTGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACC GTTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGG CAGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACG TTAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTC TCAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAG GTCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACC GGCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCAC GCTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACT GCGGTGTTTGGGACAGCAGCAGCGACCACTCTGTTGTGTTCGGCCA GGGCACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1065	dc-1065	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGCGCTAT TCTCCAAACTTTACCTTTGGTCAAGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 1066	dc-1066	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCATCGTTCCAGCCGGTAGCGATTACTG GGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGCGGT TCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGGCGG CGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCTCCA GGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTCTAG CTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCACGC CTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGCGCG TTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATCTCTC GTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGCAGTACTAT CGCGCCTCTCAGAGCTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1067	dc-1067	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCAAGGACTTCCGCATGGACGTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTGGCACGTGGGATAAT TCTCTGAACACGGGTGGCGTGTTTGGTCAAGGTACGAAAGTTGAAA TTAAA
SEQ ID NO. 1068	dc-1068	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCAAGTCTACGCCACCAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATGACAGC TCTTCTGGTAATAAAGTGTTCGGTCAAGGTACCAAGGTGGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1069	dc-1069	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGTGGGATTCT AGCGACGTTGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 1070	dc-1070	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACCGCCGCGACTTAACGTTAGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGTGTGGGATTCT AGCCACGACGGTGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1071	dc-1071	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCTCTCCGGTGTACTA CGATTACTATTATCGTGAGTCTGACCGTTATGGCATGGATGTTTGGG GTCAATGGGGTCAAGGCACGTTAGTGACCGTGTCTAGCGGCGGTAG CAGCCGTTCTAGCAGCTCTGGCGGCGGCGGCAGCGGCGGCGGCGGT GAGATTGTTTTAACCCAGAGCCCAGCGACGTTATCTCTGTCTCCAGG TGAACGCGCGACGCTGTCTTGCCGTGCCTCTCAGTCTGTGTCTTCTA GCTATCTGGCCTGGTATCAACAAAAGCCGGGTCAAGCCCCACGTCT GCTGATCTATGGCGCGTCTAGCCGTGCGACGGGTATTCCGGCGCGCT TCAGCGGCTCTGGTTCTGGCACGGACTTTACGCTGACGATTAGCCGC CTGGAGCCAGAGGATTTTGCGGTTTACTACTGTCAGCAAGCGCTGA GCTCTTCTCCATGGACCTTCGGTCAGGGTACCAAAGTGGAGATCAA A
SEQ ID NO. 1072	dc-1072	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCGAAGCGTGGCACGACTCTGGTAGCGGTTTT GTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1073	dc-1073	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGCAGTCTTACTCTACGCCGCGCCCGACC TTTGGTCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 1074	dc-1074	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGGTGTGGGACCGCTCTTCTAGCCACGTG GTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1075	dc-1075	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTGGTGGTTACCGCACGAGCGGCCCATA CTTTCAAGGCTATGCGATGGACGTTTGGGGTCAGTGGGGCCAGGGC ACGTTAGTTACGGTTAGCTCTGGTGGCAGCAGCCGCAGCAGCTCTA GCGGCGGCGGTGGCAGCGGTGGCGGCGGCGAAATTGTGCTGACCCA ATCTCCGGCCACGCTGAGCCTGTCTCCGGGTGAGCGCGCGACGTTAT CTTGCCGCGCGTCTCAGTCTGTGAGCTCTTCTTATTTAGCGTGGTAC CAACAGAAACCGGGTCAGGCCCCACGCCTGTTAATCTACGGTGCGA GCAGCCGCGCGACCGGCATCCCGGCGCGTTTCTCTGGCAGCGGCTC TGGTACCGATTTCACGTTAACCATCTCTCGTTTAGAACCAGAAGATT TCGCGGTTTACTACTGCCAGGTGTGGGACTCTTCTTCTGATCACCCG GTGTTTGGTCAAGGTACCAAGGTTGAAATCAAA
SEQ ID NO. 1076	dc-1076	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGACTCTACGATCTACTCTACGGATGTGTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCTCTAGCTATACGAAT ACGAACACGCTGGTGGTGTTCGGTCAAGGTACCAAGGTGGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1077	dc-1077	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCCATACCGCGTTCGCTTATTTCGTTACAT GGACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAG CGTGGGACTCTTCTGATCATTATGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 1078	dc-1078	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGAGCAATACTACTCTTCTTCTGGCGCGTTAGC CTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCT CTTCTTACACCAGCAGCACGGTTGTTTTCGGCCAAGGCACCAAAGTT GAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1079	dc-1079	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGCCTACCGCCGCGTTCCAAAAATGTTTGA CATCTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCA ATATGGTTCTTCTCCGATTACCTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 1080	dc-1080	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGACTACCGCGTTACGGGTAGCACCACGTA CTTTGACCATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAATACTATAGCAGCACGCCACGCTTAAGCTTCGGCCAGGGCAC GAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1081	dc-1081	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTGGTTCTTGGGGTTACTGGATGGACTACTG GGGCCAGTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGC AGCAGCCGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGG CGAGATTGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCG GGCGAGCGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCT CTTCTTACCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCG CCTGTTAATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCC GCTTTAGCGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGC CGTTTAGAGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGCGCA GCAATCCACCGTCTTTCACGTTTGGCCAGGGTACGAAGGTTGAAATC AAA
SEQ ID NO. 1082	dc-1082	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTAAGGCCTGGGGTTGGTTCGACCCATGGGG CCAGTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGC AGCCGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGA GATTGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGC GAGCGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTC TTACCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTG TTAATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTT TAGCGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTT TAGAGCCGGAAGACTTCGCCGTGTACTACTGCGAGACCTGGGACAG CAATTCTTGGGTGTTCGGTCAAGGCACCAAAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1083	dc-1083	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTACGCGGTTACCGCGGTGGCGGCACGTA CGATGCCTTTGATGTGTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTGGTACCTGGGATAGCTCTTTATCTGACTGGGTGTTCGGCCAGG GCACGAAGGTTGAAATCAAA
SEQ ID NO. 1084	dc-1084	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTACGCGGTTACCGCGGTGGCGGCACGTA CGATGCCTTTGATGTGTGGGGTCAATGGGGTCAGGGCACCCTGGTTA CGGTTTCTTCTGGCGGTTCTAGCCGTAGCTCTAGCAGCGGTGGCGGC GGCTCTGGCGGCGGTGGCGAAATTGTGCTGACCCAGAGCCCAGCCA CCTTATCTCTGAGCCCGGGTGAACGCGCCACGCTGTCTTGTCGCGCG TCTCAGTCTGTGTCTAGCAGCTACTTAGCGTGGTACCAGCAAAAGCC GGGCCAGGCCCCGCGCTTATTAATTTACGGTGCCTCTAGCCGTGCGA CGGGCATTCCGGCCCGTTTTAGCGGTTCTGGCAGCGGCACGGACTTT ACCTTAACGATCAGCCGCTTAGAACCAGAAGACTTTGCGGTTTATTA CTGTCAAGTGTGGGATAGCTCTTCTGACCACCTGTACGTGTTTGGCC AAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1085	dc-1085	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTACGCTGGGGTGCCTTCGACATTTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGCAAAGCTATTCTC CGCCAATCTCTTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 1086	dc-1086	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTATACCGCGGTTTCGGTGTGGGCTTCGA CATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCATGCAAG GCGCCAACGGTCCGCCGGTGTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1087	dc-1087	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTTATACCGCGGTTTCGGTGTGGGCTTCGA CATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACTACTCTACCACCGCGTTAACGTTCGGTCAGGGTACCAAAGTGGA GATCAAA
SEQ ID NO. 1088	dc-1088	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCCAGAGGACATGTTATCTTTCGATGTGTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAAGCGCTGGAC AGCTCTACGGGTGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1089	dc-1089	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCGACTCTGGTTCTTTCATTATTGACTAC TGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGTG GTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGGC GGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCTC CGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTAG CTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCCA CGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGGC GCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGCCTG GGATTCTTACTCTACCCATGTGTTCGGTCAAGGTACCAAGGTGGAAA TTAAA
SEQ ID NO. 1090	dc-1090	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCCAAGGTTTCGCCTCTGGCGGCGTTGA CCTGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGTGTG GGACCGCAACAGCGATCGTGTTTTCGGTCAAGGCACGAAAGTGGAA ATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1091	dc-1091	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTCGCTACCGCGGTTTCGGTGTGGGCTTCGA CATTTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAGCGT GGGACTCTAACAGCGCGGTGGTTTTCGGTCAAGGCACGAAAGTGGA AATCAAA
SEQ ID NO. 1092	dc-1092	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTCTTACCGCACGTCTTCTAGCAAACAATA CCTGGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTT TCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AATCTTACGATAGCAATTTATCTGGTCCAGTGTTCGGCCAGGGCACG AAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1093	dc-1093	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTTCTTACCGCACGTCTTCTAGCAAACAATA CCTGGACCCGTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTT TCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAACGTACGATAATGGCTTACGCGGTTCTATTTTCGGCCAGGGCACG AAGGTTGAAATCAAA
SEQ ID NO. 1094	dc-1094	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTAACTCTTATGCGGGCTCTGGTTACGTTTTTGGTCAGGGCACCA AGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1095	dc-1095	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGCCTGGGATAGCAGCACGGGTTACGTTTTTGGTCAGGGCA CCAAGGTTGAGATTAAA
SEQ ID NO. 1096	dc-1096	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAATATCATAATACGCCAACGTTCGGCCAAGGCACCAAA GTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1097	dc-1097	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAATATAATAGCTTCCCACCAACGTTTGGTCAGGGCACCA AGGTTGAGATTAAA
SEQ ID NO. 1098	dc-1098	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGGTACGAACTCTTACCGCCGCCTGGTGTACGA CGCGTTCGATATTTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAAGTTTGGGATAGCGGCTCTACGCGCTTAGGCGTTTTTGGCC AGGGTACGAAGGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1099	dc-1099	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCACCCATCTGCCGCCGGTGCGTTTGACAT CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAA ATTACTCTACGCCGTGGACCTTTGGTCAAGGTACGAAAGTTGAAATT AAA
SEQ ID NO. 1100	dc-1100	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCCATTATACCGCAACGCCGCGGATGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGTTTG GGATTACTCTCGCAATAATTGGGTGTTCGGTCAAGGTACCAAGGTG GAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1101	dc-1101	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCGGTCCAGCCGCCGGTCGTTTTGACCC ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGAAACGT GGGATGGTTCTTTAAGCACCGTGGTTTTCGGTCAAGGCACGAAAGT GGAAATCAAA
SEQ ID NO. 1102	dc-1102	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCGGTCCAGCCGCCGGTCGTTTTGACCC ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGCCTG GGATGGTTCTTCTGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1103	dc-1103	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCACCGCGGTCCAGCCGCCGGTCGTTTTGACCC ATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAATA TGGTTCTTCTACCTATACCTTCGGTCAAGGTACCAAGGTGGAAATTA AA
SEQ ID NO. 1104	dc-1104	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTATCCCAAACCGCTCTCACGGTGGCTGGTTTGA CCCATGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGGCAC GTGGGATTCTTCTTTAAGCGCGAATGTTTTCGGTCAAGGCACGAAAG TGGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1105	dc-1105	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAAGGAGTACCGCACGTTCGACAGCCCGTACAC GCTGTACCGTAGCAGCGCCTACTTCGATTATTGGGGCCAGTGGGGTC AAGGTACGTTAGTGACGGTTAGCAGCGGCGGTAGCAGCCGCAGCAG CAGCTCTGGCGGCGGTGGCAGCGGCGGCGGCGGCGAAATTGTTTTA ACCCAATCTCCGGCGACCTTAAGCTTATCTCCAGGCGAGCGCGCCA CCTTAAGCTGTCGTGCCAGCCAGTCTGTTAGCTCTAGCTACTTAGCG TGGTATCAGCAAAAACCAGGTCAAGCGCCACGCTTATTAATTTATG GCGCCAGCAGCCGTGCCACCGGCATTCCAGCCCGTTTTAGCGGTTCT GGCAGCGGTACGGACTTTACGTTAACCATCAGCCGCCTGGAACCAG AAGACTTCGCCGTGTATTATTGTCAATCTGCCGATTCTAGCGGCCCG GTTTTCGGTCAGGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 1106	dc-1106	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAAGCGCCCACGCCCACCATACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAGCAGCT CTGATCACCAAGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1107	dc-1107	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTAGGTCCACACTACGGTATGGACGTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTCAGACGTGGGGCACC GGTGATGTTGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 1108	dc-1108	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTTACACTTACGCGGTTCTATCGGCCTGCCACC AGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGTCT TCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGCG GCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTATC TCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAAA GCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTCA AGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGCA TTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTTA ACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTCA GCAATACAAGCGTAATCCGCGCACGTTCGGTCAGGGTACCAAAGTG GAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1109	dc-1109	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTAACGCCGTTGCCGGTACGTGGTTAAGCAGCTT CGACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAAG TGTTAGACTCTAGCAGCGATGACGTTGTTTTCGGCCAAGGCACCAAA GTTGAGATCAAA
SEQ ID NO. 1110	dc-1110	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCAATACTCTTCTGGTTGGCCATGGTTCGATCC GTGGGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGC GGCTCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGG TGGCGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGC CCAGGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTC TTCTAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCG CGCTTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGC GCGTTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTT CTCGCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTAT GGTAGCTCTCCATTCACCTTTGGCCAAGGTACGAAGGTGGAGATTA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1111	dc-1111	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCGACCCAGGTACGTGGCAATTCGATCCGTG GGGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGC TCTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGG CGAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCA GGTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTC TAGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGC TTACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCG TTTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTC GCCTGGAACCAGAGGACTTTGCCGTTTATTACTGCATGCAAGCGCGT CAAACCCCAGTTACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 1112	dc-1112	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCGACTCTGGTAACATGTACGGTTATTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTGCGGCCTGGGATAGC CGCAGCCGCTTATACATGTTTGGCCAGGGTACGAAGGTTGAAATCA AA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1113	dc-1113	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCATCCGCGCCAACTCTCGCTATAGCCCAGA CCCGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGGTACCTG GGACTCTCGCCTGAGCACCGGTATGTTCGGTCAAGGCACGAAAGTG GAAATCAAA
SEQ ID NO. 1114	dc-1114	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCATCCGCGCCAACTCTCGCTATAGCCCAGA CCCGTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACTACGACCCGCCGTGGACCTTCGGTCAAGGTACCAAGGTGGAAAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1115	dc-1115	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCTTACGCGGTCGCGCCATGGAGACCGATTA CTGGGGTCAGTGGGGTCAGGGCACCTTAGTTACGGTGAGCAGCGGC GGTTCTTCTCGCTCTAGCTCTTCTGGCGGCGGCGGTAGCGGCGGTGG CGGCGAAATCGTGCTGACGCAGAGCCCGGCGACCCTGAGCCTGTCT CCAGGCGAGCGCGCGACCCTGTCTTGCCGCGCCTCTCAGTCTGTTTC TAGCTCTTATTTAGCGTGGTACCAGCAGAAGCCAGGCCAAGCGCCA CGCCTGCTGATTTACGGCGCCTCTTCTCGTGCCACGGGTATCCCGGC GCGTTTCAGCGGCAGCGGTAGCGGCACCGACTTCACCCTGACCATC TCTCGTCTGGAGCCAGAGGATTTCGCCGTGTACTATTGTCAGGTGTG GGACAGCCGCCACGACCATTGGGTGTTTGGTCAAGGTACGAAAGTT GAAATTAAA
SEQ ID NO. 1116	dc-1116	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTCGCTCTGGTTCTGGTTGGTTACACTATTATAAG GACTATTACATGGATGTGTGGGGCCAATGGGGTCAAGGCACCCTGG TGACGGTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGT GGCGGCAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGG CCACGCTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGC GCCAGCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGA AGCCAGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGT GCGACCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCG ACTTCACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTG TACTATTGTCAACAACGTAGCAATTGGCCACGCATGATCACGTTTGG TCAGGGCACCAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1117	dc-1117	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTCGCGCCGGTTACCGCGTTGATTATTTAGCC TGGAGCGGTCTGTTTGATTACTGGGGTCAATGGGGCCAGGGCACCTT AGTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGGCG GCGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCTCC AGCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTTGT CGTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAAC AAAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCAG CCGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGTA CGGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGCC GTGTACTACTGTAGCACCTATGACAACTCTCAACGTAACGGCGGCA GCGTTTTCGGTCAGGGTACGAAAGTTGAAATTAAA
SEQ ID NO. 1118	dc-1118	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTCTTACGTTTACCGCATCGGTACCTGGAGCTA CGACGTGTACCTGGGCGATGTTTGGGGTCAATGGGGCCAGGGCACC TTAGTTACGGTTTCTAGCGGTGGTAGCAGCCGTTCTAGCAGCTCTGG CGGCGGCGGTAGCGGCGGTGGCGGCGAAATTGTGCTGACCCAGTCT CCAGCGACGTTAAGCCTGAGCCCAGGCGAGCGCGCCACCTTATCTT GTCGTGCCAGCCAAAGCGTTAGCAGCTCTTACCTGGCCTGGTATCAA CAAAAACCGGGCCAAGCGCCACGCTTACTGATCTACGGTGCCAGCA GCCGTGCCACCGGCATTCCAGCGCGTTTTTCTGGTAGCGGCAGCGGT ACGGATTTTACGTTAACGATTTCTCGCCTGGAGCCGGAGGATTTTGC CGTGTACTACTGTCAGGTGTGGGATTCTTCTTCTGACCATTACGTGT TTGGCCAAGGTACGAAAGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1119	dc-1119	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGATGCGCGGTCAATTAGGTTACTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAACAGCGCAGCAATTG GCCAGGCCCATTCACGTTTGGCCAGGGTACGAAGGTTGAAATCAAA
SEQ ID NO. 1120	dc-1120	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTACGCGCTACCCATACTCTATGGACGTGTGGGG CCAATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGC TCTCGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGA AATTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGT GAGCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTC TTATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTAT TAATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTT AGCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTT AGAACCGGAGGACTTCGCGGTTTACTATTGTAGCTCTTATGATTCTA GCTCTGGTTTCGTGGTGTTTGGTCAAGGTACGAAAGTTGAAATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1121	dc-1121	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTTTATCTTCTCGCTCTTGGGGTAGCGGCTAC TTCGATTACTGGGGCCAGTGGGGCCAAGGTACGCTGGTGACCGTGT CTTCTGGTGGTTCTAGCCGCTCTAGCAGCAGCGGTGGCGGCGGTAGC GGCGGCGGTGGCGAAATCGTGCTGACCCAGAGCCCGGCGACCTTAT CTCTGTCTCCAGGCGAACGTGCCACCTTATCTTGTCGTGCCTCTCAA AGCGTTAGCTCTAGCTACCTGGCGTGGTACCAACAGAAGCCGGGTC AAGCGCCGCGTTTACTGATCTACGGTGCGTCTTCTCGCGCCACCGGC ATTCCAGCGCGTTTTTCTGGCAGCGGCTCTGGTACCGATTTTACGTT AACCATTTCTCGCTTAGAACCAGAGGATTTCGCGGTTTATTATTGTC AGCACAAGAACAGCTATCCGTTAATCTTCGGTCAGGGTACCAAAGT GGAGATCAAA
SEQ ID NO. 1122	dc-1122	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTGTTTCTTACGGTGGTTTAGGTAGCCTGGACTTC TATTTCCAGCATTGGGGCCAATGGGGTCAAGGCACCCTGGTGACGG TTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGGC AGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACGC TGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCAG CCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCCA GGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGAC CGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTCA CCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTAT TGTCAAGCCTGGGATAGCAGCGGTGTTGTTTTCGGCCAAGGCACCA AAGTTGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1123	dc-1123	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACACGTGGATCGGTTTCGACATCTGGGGCCA GTGGGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGC CGCTCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGAT TGTGCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAG CGCGCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTA CCTGGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTA ATCTATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAG CGGCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAG AGCCGGAAGACTTCGCCGTGTACTACTGCCAACATTACTATACCGTT CCGTTCACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 1124	dc-1124	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCGCGGCCCG TGACGACAACCTGGATGGCTGGGTTTTCGGTCAAGGCACGAAAGTG GAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1125	dc-1125	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCCGTTACTACGACCCAACGGGTTACCTGACCGACTA CTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGCGGT GGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGGCGG CGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTATCT CCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGTTA GCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCCCC ACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCCGG CGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACGATC AGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGCAAC ATTACTCTACGCCGCGTACCTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 1126	dc-1126	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGAGGGTTACCGCACGGACCGCAAATATTGGTT AGACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCGGTA CCTGGGACTCTGGTAGCAGCGCGGGTATCTTCGGTCAGGGTACCAA AGTGGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1127	dc-1127	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCAGCGAGGGTTACCGCACGGACCGCAAATATTGGTT AGACTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGC TCTGGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGG CGGCGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCT TTAAGCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATC TGTGTCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAG CCCCGCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATT CCGGCCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAAC GATTAGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCATGC AAGGCGCCCCACGCCCGTTTACCTTCGGTCAAGGTACCAAGGTGGA AATTAAA
SEQ ID NO. 1128	dc-1128	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTGGTTACCGCGACTCTTCTGGCTATATGGA CTACTGGGGCCAATGGGGCCAGGGCACGTTAGTTACCGTGAGCAGC GGTGGTTCTTCTCGCAGCTCTTCTAGCGGCGGCGGTGGCAGCGGTGG CGGCGGCGAGATTGTGTTAACCCAGAGCCCGGCGACCCTGAGCTTA TCTCCGGGTGAGCGTGCGACCTTAAGCTGTCGCGCCAGCCAATCTGT TAGCTCTAGCTACCTGGCCTGGTATCAGCAAAAGCCGGGTCAGGCC CCACGTCTGCTGATCTATGGTGCCTCTAGCCGCGCCACGGGTATTCC GGCGCGCTTTAGCGGCTCTGGCAGCGGCACGGACTTTACCCTGACG ATCAGCCGTTTAGAGCCAGAAGACTTCGCGGTTTATTACTGCCAGGT TTGGGATTCTTCTTCTGATCATGTGGTTTTCGGTCAAGGCACGAAAG TGGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1129	dc-1129	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTGGTTACCGCGGTGTTTTAGCGGGCGTTGC CTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCG CCGCCTGGGACGATAGCCTGTCTGGTTTCTACGTGTTCGGCCAGGGC ACGAAGGTTGAAATCAAA
SEQ ID NO. 1130	dc-1130	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTGGTTACCGCGGTGTTTTAGCGGGCGTTGC CTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCT TATTATCTTATAGCGGCGCCCGCCACGTTTTTGGTCAGGGCACCAAG GTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1131	dc-1131	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTGGTTACCGCGGTGTTTTAGCGGGCGTTGC CTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AACAATACGAAAATTATCCATTAACGTTCGGCCAAGGCACCAAAGT TGAGATCAAA
SEQ ID NO. 1132	dc-1132	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTGGTTACCGCGGTGTTTTAGCGGGCGTTGC CTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGTTTGGGACAGCAGCAGCTCTCACTTAGTTGTGTTCGGCCAGGGC ACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1133	dc-1133	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTGGTTACCGCGGTGTTTTAGCGGGCGTTGC CTTTGACATTTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCGTTT CTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGCAG CGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGTTA AGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCTCA GTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGGTC AGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCGGC ATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACGCT GACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTGCC AAGTTTGGGACAGCAGCACCGCCGTTTTCGGTCAGGGTACCAAAGT GGAGATCAAA
SEQ ID NO. 1134	dc-1134	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCAACAGCC GCGACTCTCGTGGCGAACACGTTATCTTCGGCCAAGGCACCAAAGT TGAGATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1135	dc-1135	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACGACGACCTGCCGATTACGTTCGGTCAAGGCACGAAAGTGGAAAT CAAA
SEQ ID NO. 1136	dc-1136	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCGGTTCTTACCGCAAGTACGCCGGCGGCTTCGA CTATTGGGGTCAGTGGGGCCAGGGTACGTTAGTGACCGTGAGCTCT GGTGGTTCTTCTCGTTCTTCTAGCAGCGGCGGTGGCGGCTCTGGCGG CGGCGGTGAAATTGTTCTGACCCAGAGCCCGGCGACCCTGTCTTTAA GCCCAGGTGAACGTGCGACGCTGTCTTGTCGCGCGTCTCAATCTGTG TCTAGCTCTTATTTAGCGTGGTATCAACAAAAACCAGGCCAAGCCCC GCGTCTGTTAATTTACGGTGCCAGCTCTCGCGCCACGGGCATTCCGG CCCGTTTTAGCGGTAGCGGCAGCGGTACGGATTTTACCTTAACGATT AGCCGCTTAGAGCCGGAGGACTTTGCCGTGTACTATTGCCAACAGT ACGGTTCTAGCCCGAAAACGTTCGGTCAAGGCACGAAAGTGGAAAT CAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1137	dc-1137	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGCCACCTTAGGTCCAAACGACCACTGGGGTCAGTGGGG CCAAGGTACCTTAGTGACCGTGTCTTCTGGTGGCAGCAGCCGTTCTT CTTCTTCTGGTGGCGGTGGTAGCGGCGGCGGTGGCGAAATCGTGCT GACCCAAAGCCCGGCCACCCTGAGCCTGAGCCCGGGCGAACGCGCC ACCTTATCTTGCCGTGCGTCTCAGTCTGTTTCTAGCTCTTACTTAGCG TGGTACCAGCAAAAACCAGGCCAGGCCCCACGTTTACTGATCTACG GCGCGAGCTCTCGTGCCACGGGTATTCCAGCCCGCTTCAGCGGCAG CGGTAGCGGCACCGACTTTACCCTGACGATCAGCCGTCTGGAGCCA GAAGATTTCGCCGTTTATTACTGTCTGCAATATAACAGCACCCCATG GACCTTCGGTCAAGGCACCAAAGTTGAGATCAAA
SEQ ID NO. 1138	dc-1138	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTTCTCGTAAGGTTGGTGCCTTCGGTAACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCACGAGCTACACCAGCTCTA GCGAGTTATACGCGTTTGGCCAAGGTACGAAGGTGGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1139	dc-1139	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTACGCGTGACTTCATCGGTCGCGGTTTCGATTATTGGGG TCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCT TCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGA AATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGT GAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAG CTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTA CTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTT TTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCC TGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGCGTTACAGC GCCCCATACACCTTTGGCCAAGGTACGAAGGTGGAGATTAAA
SEQ ID NO. 1140	dc-1140	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGCCTTCTCTTACTCTTGGCCATTCGATCATTGG GGTCAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCT CTTCTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGC GAAATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAG GTGAACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCT AGCTACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCT TACTGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGT TTTTCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCG CCTGGAACCAGAGGACTTTGCCGTTTATTACTGCCAACAGTATAAGA ATTGGCACCCAACGTGGAGCTTTGGCCAAGGTACGAAGGTGGAGAT TAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1141	dc-1141	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTGACTCTGTTGGTTACCGCGACCAGCCGGGTTA CTATTTAGATTATTGGGGCCAATGGGGTCAAGGCACCCTGGTGACG GTTTCTTCTGGTGGCTCTTCTCGTAGCAGCTCTAGCGGCGGTGGCGG CAGCGGTGGCGGCGGTGAAATTGTGCTGACCCAGAGCCCGGCCACG CTGTCTTTAAGCCCGGGCGAGCGTGCCACGTTAAGCTGTCGCGCCA GCCAAAGCGTTAGCTCTAGCTATTTAGCCTGGTATCAACAGAAGCC AGGCCAGGCGCCACGTTTATTAATCTATGGTGCCTCTTCTCGTGCGA CCGGTATTCCGGCGCGCTTTAGCGGCTCTGGTAGCGGCACCGACTTC ACCCTGACGATCTCTCGTTTAGAGCCGGAGGATTTCGCGGTGTACTA TTGTCAACAATATAATAGCTACCCATCTACGTTTGGTCAGGGCACCA AGGTTGAGATTAAA
SEQ ID NO. 1142	dc-1142	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTAAGAACCAAACGGCCGGTGGTCATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCAGGTTTGGGATAGCCG CGCGGACCACTGGGTTTTTGGCCAGGGTACGAAGGTTGAAATCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1143	dc-1143	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTCGCGGTGCCAAGGGTTTAGGTTATTGGGGCCA ATGGGGTCAGGGTACCCTGGTGACGGTTTCTAGCGGCGGCAGCTCT CGCTCTTCTTCTAGCGGTGGTGGCGGCAGCGGTGGCGGCGGTGAAA TTGTGTTAACCCAGTCTCCGGCGACCCTGAGCCTGAGCCCGGGTGA GCGTGCCACGCTGAGCTGCCGCGCGTCTCAATCTGTGTCTTCTTCTT ATTTAGCGTGGTACCAGCAAAAACCGGGTCAAGCGCCACGTTTATT AATTTATGGCGCCAGCTCTCGCGCCACCGGTATCCCAGCCCGTTTTA GCGGTAGCGGCAGCGGTACCGATTTTACGTTAACCATTAGCCGCTTA GAACCGGAGGACTTCGCGGTTTACTATTGTCGTCAAGGCAGCCGCT GGCCGTGGGCCTTCGGTCAGGGCACCAAGGTTGAGATCAAA
SEQ ID NO. 1144	dc-1144	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTCGTCGCCCACGCTGGTTCGACTCTGCCTATTATGCC CCATTTGAGAATTGGGGCCAGTGGGGTCAAGGTACCCTGGTGACCG TTTCTTCTGGTGGTAGCTCTCGCAGCAGCAGCTCTGGCGGCGGTGGC AGCGGCGGTGGCGGCGAGATTGTGCTGACCCAGAGCCCGGCGACGT TAAGCTTATCTCCGGGCGAACGCGCGACGTTATCTTGCCGCGCCTCT CAGTCTGTGTCTAGCTCTTATCTGGCCTGGTACCAGCAAAAACCAGG TCAGGCGCCGCGCCTGTTAATCTACGGCGCCTCTTCTCGCGCGACCG GCATCCCGGCGCGTTTCAGCGGCAGCGGTTCTGGCACCGATTTCACG CTGACCATCTCTCGCCTGGAGCCAGAAGACTTTGCCGTGTATTACTG CTCTTCTTACACCAGCAGCTCTACGTTAGTTTTTGGTCAGGGCACCA AGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1145	dc-1145	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTAGCGACAAGTCTGGTTCTGGTTTCCTGTATTGGGGT CAATGGGGCCAAGGCACCCTGGTTACGGTTAGCAGCGGCGGCTCTT CTCGCTCTTCTAGCTCTGGTGGCGGCGGCTCTGGCGGCGGTGGCGAA ATTGTTCTGACCCAAAGCCCGGCGACCCTGAGCCTGAGCCCAGGTG AACGCGCCACCCTGAGCTGTCGTGCCTCTCAAAGCGTTTCTTCTAGC TACCTGGCCTGGTATCAACAGAAACCAGGTCAGGCCCCGCGCTTAC TGATTTATGGTGCGTCTTCTCGCGCGACGGGTATCCCAGCGCGTTTT TCTGGCAGCGGCTCTGGCACCGATTTCACGCTGACCATTTCTCGCCT GGAACCAGAGGACTTTGCCGTTTATTACTGCGCCAGCTTTGACAGCT CTTCTTTAAGCGCGTGGGTGTTCGGTCAAGGTACCAAGGTGGAAATT AAA
SEQ ID NO. 1146	dc-1146	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTACCTACTTCGGTCGCAAGGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAACAGTACTATACCTCTCC GAACACGTTCGGCCAGGGCACGAAGGTTGAGATTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1147	dc-1147	CAGGTGCAGTTAGTTGAAAGCGGCGGTGGTGTGGTGCAACCGGGTC GTAGCTTACGTTTATCTTGCGCGGCCTCTGGCTTTACCTTTAGCAGCT ATGCGATGCATTGGGTGCGTCAGGCGCCAGGTAAGGGCTTAGAGTG GGTGGCGGTTATCTCTTATGACGGTAGCAACAAGTACTACGCCGAT AGCGTTAAAGGCCGCTTCACGATTAGCCGCGACAACAGCAAAAATA CCTTATACTTACAGATGAATTCTTTACGCGCCGAGGATACGGCCGTT TATTATTGTGTTACCTACTTCGGTCGCAAGGACTACTGGGGCCAGTG GGGTCAAGGCACGCTGGTGACCGTTTCTTCTGGCGGCAGCAGCCGC TCTTCTTCTTCTGGCGGTGGTGGCAGCGGCGGTGGCGGCGAGATTGT GCTGACGCAGAGCCCAGCGACCCTGAGCCTGAGCCCGGGCGAGCGC GCGACGTTAAGCTGCCGTGCCAGCCAATCTGTTAGCTCTTCTTACCT GGCCTGGTATCAACAGAAGCCGGGCCAAGCCCCGCGCCTGTTAATC TATGGCGCGTCTAGCCGCGCCACGGGCATCCCAGCCCGCTTTAGCG GCTCTGGCAGCGGCACGGATTTTACCTTAACGATTAGCCGTTTAGAG CCGGAAGACTTCGCCGTGTACTACTGCCAAGTGTGGGACAGCAGCT TAGATTTATGGGTTTTCGGCCAGGGCACGAAGGTTGAGATTAAA
SEQ ID NO. 1148	T109-C03	TGGACCCAGCCAGGTAATATTGTGACGAACGGCGCG
SEQ ID NO. 1149	T109-C06	GGCGATCTGTTAAAGATTCAGTTTGGTGGTGCG
SEQ ID NO. 1150	T109-C12	AGCATGAGCCAATCTCTGAGCCTGGCG
SEQ ID NO. 1151	T109-F03	AGCAGCACCGAGAACTTTATTACCTTAGTTGATCTGGTG
SEQ ID NO. 1152	T109-F04	GGCACCCATGTTATCGCGGCGGCGCGT
SEQ ID NO. 1153	T109-H01	CGTGATGAATTCTTAGCGCTGCTGGTTGAGCATCTGCGCGAA
SEQ ID NO. 1154	T109-H11	AGCGCGGAAGACTACGTGCGTCAGAGC
SEQ ID NO. 1155	T109-C06	GGCGATCTGTTAAAGATTCAGTTTGGTGGTGCG
SEQ ID NO. 1156	T109-C12	AGCATGAGCCAATCTCTGAGCCTGGCG
SEQ ID NO. 1157	T109-F03	AGCAGCACCGAGAACTTTATTACCTTAGTTGATCTGGTG
SEQ ID NO. 1158	T109-F04	GGCACCCATGTTATCGCGGCGGCGCGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1159	T109-H01	CGTGATGAATTCTTAGCGCTGCTGGTTGAGCATCTGCGCGAA
SEQ ID NO. 1160	T109-H11	AGCGCGGAAGACTACGTGCGTCAGAGC
SEQ ID NO. 1161	C1R4-C02	AGCATTTATCAAGACCAGGAACAGCGCATCCTGAAATTCCTGGAGGAACTG
SEQ ID NO. 1162	C1R4-C08	GATATTCTGAAGGTTCTGTTTAAAGAGTTCATTGAAATCAGCTTATGG
SEQ ID NO. 1163	C1R4-D06	AAAACCATGGTGGACGAGCTGTTTGCGGAGATCGTGCGTCAAATGAATTAT
SEQ ID NO. 1164	C1R4-G11	TTTGCGGATTACAACCTGCTGGATTTATTACTGATTCACCAGGTTCTG
SEQ ID NO. 1165	C1R2-A07	GAAGATGGCGTTATGGCCCGTCAGCTGGTTTACACCATTGCCGAT
SEQ ID NO. 1166	C1R2-A12	ACCAGCATGGCGACGCCACATGTGAGCGGTGTTGCGACCTTAGTGTGG
SEQ ID NO. 1167	C1R2-B10	CGTCTGGATCGCTACGCGGATCTGATCCAAAAACTG
SEQ ID NO. 1168	C1R2-C09	TATGAAAATGGTGCCATGCTGGAACCGTTATCTGTGGCGTTAGCGGGTCTGCAGCGCGCG
SEQ ID NO. 1169	C1R2-D03	GAAAAAGAAACGAAGGAAATGGTGGCGTTCTTAAAT
SEQ ID NO. 1170	C1R2-D04	CGTAGCGAAGCCATCCGTGATCTGATCCGCGATTTTATCATTCGCCAT
SEQ ID NO. 1171	C1R2-D07	ACCATTGATATCTTAACCGCGATTCGCAACGCGACC
SEQ ID NO. 1172	C1R2-D11	GTGGATGGCGCCATCCATCGTGCGGCG
SEQ ID NO. 1173	C1R2-D12	ACCATTGATATCTTAACCGCGATTCGCAACGCGACC
SEQ ID NO. 1174	C1R2-E02	TATCAGTATTTAGCCGCGCGTCTGGCCATCTTTCATTTACGTAAGAAAGCGTAT
SEQ ID NO. 1175	C1R2-E06	GTGGGCCCGGCCATCGCGCGTGATATCATCAATCTGTACAATCAACAT
SEQ ID NO. 1176	C1R2-E10	GATATGATTTTCGAGATTTTTAAAAACTACCTGACCAAGGTGGCCTATTATGCCCGTCAG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1177	C1R2-F02	CTGGGCGAATGGATCGCCCTGAATGTGTTCGAGTTTTTTACGAATTTAAATCAGTTCTAT
SEQ ID NO. 1178	C1R2-F05	TTTGCGTTTGCCTTACGTAAAGCGCAAGACACC
SEQ ID NO. 1179	C1R2-F07	GGCGAAGAATTAATCCTGAAAGGCATCGAGGCGTTTAAGAATTGGTTAAAAAAA
SEQ ID NO. 1180	C1R2-F12	TTTGCGTTTGCCTTACGTAAAGCGCAAGACACC
SEQ ID NO. 1181	C1R2-G09	CATCGTGAATTAGTTCATCCGGATGCCTTAAATCGTTTCGGCAAGACC
SEQ ID NO. 1182	C1R2-G12	ACCCGTAAAGCCTTAAATTATGTGCCAAAGCTGTTTGAGGAATTACGTAAAACGTAT
SEQ ID NO. 1183	C1R2-H10	CGTGAAAATGTTGACCGTGTGACCGAGGCCCTGCGTGCCGCGTTACAGCAT
SEQ ID NO. 1184	C1R4-C02	AGCATTTATCAAGACCAGGAACAGCGCATCCTGAAATTCCTGGAGGAACTG
SEQ ID NO. 1185	C1R4-C03	ACCGAAAAATACTTAGATTTTATGCCGAAGTTATTTGATGCCGTGCGCAATAAA
SEQ ID NO. 1186	C1R4-C08	GATATTCTGAAGGTTCTGTTTAAAGAGTTCATTGAAATCAGCTTATGG
SEQ ID NO. 1187	C1R4-D06	AAAACCATGGTGGACGAGCTGTTTGCGGAGATCGTGCGTCAAATGAATTAT
SEQ ID NO. 1188	C1R4-D09	GGCGCGGTGTCTTTAGCGAGCATGCTGACGGAGATTTTTTTACTGCAACAGGCGCAG
SEQ ID NO. 1189	C1R4-G11	CCGGCGTTTTACTTAACCGCGAGCCAACAACGTTGGGAAGAGTATTTAAAAAAAGGC
SEQ ID NO. 1190	C1R2-A07	GAAGATGGCGTTATGGCCCGTCAGCTGGTTTACACCATTGCCGAT
SEQ ID NO. 1191	C1R2-A12	ACCAGCATGGCGACGCCACATGTGAGCGGTGTTGCGACCTTAGTGTGG
SEQ ID NO. 1192	C1R2-B10	CGTCTGGATCGCTACGCGGATCTGATCCAAAAACTG
SEQ ID NO. 1193	C1R2-C09	TATGAAAATGGTGCCATGCTGGAACCGTTATCTGTGGCGTTAGCGGGTCTGCAGCGCGCG
SEQ ID NO. 1194	C1R2-D03	GAAAAAGAAACGAAGGAAATGGTGGCGTTCTTAAAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1195	C1R2-D04	CGTAGCGAAGCCATCCGTGATCTGATCCGCGATTTTATCATTCGCCAT
SEQ ID NO. 1196	C1R2-D07	ACCATTGATATCTTAACCGCGATTCGCAACGCGACC
SEQ ID NO. 1197	C1R2-D11	GTGGATGGCGCCATCCATCGTGCGGCG
SEQ ID NO. 1198	C1R2-D12	ACCATTGATATCTTAACCGCGATTCGCAACGCGACC
SEQ ID NO. 1199	C1R2-E02	AGCCTGTATTCTGGTAGCAAAGGCGCCGTTGATAGCTTCGTGCGCATTTTTTCTAAAGAT
SEQ ID NO. 1200	C1R2-E06	GTGGGCCCGGCCATCGCGCGTGATATCATCAATCTGTACAATCAACAT
SEQ ID NO. 1201	C1R2-E10	GATATGATTTTCGAGATTTTTAAAAACTACCTGACCAAGGTGGCCTATTATGCCCGTCAG
SEQ ID NO. 1202	C1R2-F02	CTGGGCGAATGGATCGCCCTGAATGTGTTCGAGTTTTTTACGAATTTAAATCAGTTCTAT
SEQ ID NO. 1203	C1R2-F05	TTTGCGTTTGCCTTACGTAAAGCGCAAGACACC
SEQ ID NO. 1204	C1R2-F07	GCGCAGCGTCGCAAGATGGCGCAGGAAAACCCAAAAATGCATAACAGCGAGATTCTG
SEQ ID NO. 1205	C1R2-F12	TTTGCGTTTGCCTTACGTAAAGCGCAAGACACC
SEQ ID NO. 1206	C1R2-G08	AAACTGAAAGACTTAAGCCGTTTTGACGCCAGCTTTTTCGGCGTTCAT
SEQ ID NO. 1207	C1R2-G09	CATCGTGAATTAGTTCATCCGGATGCCTTAAATCGTTTCGGCAAGACC
SEQ ID NO. 1208	C1R2-G12	ACCCGTAAAGCCTTAAATTATGTGCCAAAGCTGTTTGAGGAATTACGTAAAACGTAT
SEQ ID NO. 1209	C1R2-H10	GCGAAAGGCCGCGAGGAAGAAGCGCGCAAGCTGCTGCGCTGGGGCCAACAGAAT
SEQ ID NO. 1210	T18-A03	CAGACCAGCTTAGACGCGGCGCAGACGTTAATTCGTGGTGCG
SEQ ID NO. 1211	T18-A04	CTGCCGCTGGTTGACTTTATTATTCAAAAT
SEQ ID NO. 1212	T18-A09	AGCAGCGTGGTTCGCGGCAAAATGGATGGTGGTTGG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1213	T18-A10	CGTGATACCATCATCAATACCCTGAAGAAGGCGAGCAAGCTG
SEQ ID NO. 1214	T18-A11	CATGGCGATTTACAACGTTGGCAGAGCGCCTTAGATGCG
SEQ ID NO. 1215	T18-B01	GATGGCGAAATCAAGGAACTGCTGGAGAAA
SEQ ID NO. 1216	T18-B05	GCGATGGTGTTAGAGAGCGTGATGTTTGCCATCCTGGCGGAA
SEQ ID NO. 1217	T18-B06	CTGCGTCTGTTCGTTCGTATTGGCGCCATG
SEQ ID NO. 1218	T18-B07	CCGATTAAAGCCTTAATGCGTTATAGCGAGAAT
SEQ ID NO. 1219	T18-B09	GGCCCGCAGGTTGGTTATCTGAGCGAGGCCTTTGAAGCG
SEQ ID NO. 1220	T18-B10	AAAAGCGTGATCGAGGCGCTGAAACACGGTGGCCTG
SEQ ID NO. 1221	T18-B12	CCGGATGCGCAAAACGCGCTGCTGTCTTCTCTGAGCGAGCAG
SEQ ID NO. 1222	T18-C03	ACCAATGCGGACTTACTGGCGCGTGCCGCCAGC
SEQ ID NO. 1223	T18-C04	AATGCGGGCGCCTTAGCGGTGCATCAACTG
SEQ ID NO. 1224	T18-C07	ATTCCGGAAGCCTTACGTCTGCTGTTACAAGCGCTG
SEQ ID NO. 1225	T18-C11	CCGGTGGGCTTAGCCGCGGCGGCGTCTGCCCGTCTG
SEQ ID NO. 1226	T18-D03	TTTGCGGCGATCGAGAGCGTGGCGAAGAACATTCAG
SEQ ID NO. 1227	T18-D04	GTGGAAGAAGACGTTCAGCTGCTGAAGGACCTG
SEQ ID NO. 1228	T18-D06	CATCTGGAATTATTACTGCGTGATTTAGAGGATAGCCGT
SEQ ID NO. 1229	T18-D07	AAAATTGCGCAACACACCGCGGATTACGAGGAACGTTTT
SEQ ID NO. 1230	T18-D08	AGCGGCGTGGCCGCCCTGATTAAAGTTTTACTGAGCCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1231	T18-D09	ACCGCGCGTGCCCGCAAATTTGCGAACCGCATTCATGGTCGTTTT
SEQ ID NO. 1232	T18-D11	AGCTTTCTGGCCCGCAATCGTCTGGTTATCGCGCTG
SEQ ID NO. 1233	T18-E02	GCGGCGGAAGCCGCCAAAGTGGCGTTAGAA
SEQ ID NO. 1234	T18-E04	AATATTGGCGCCTCTCTGGCGAAACGCTTAGAACAGACC
SEQ ID NO. 1235	T18-E05	GAAGCGGATATCAAGGAACGTAAAGAGTTACTGCGTAAGTTT
SEQ ID NO. 1236	T18-E06	GATGGCGAAATCAAGGAACTGCTGGAGAAA
SEQ ID NO. 1237	T18-E08	GCGGCGCGTATGGCCACGTATATGGATACCATCGACTATTTT
SEQ ID NO. 1238	T18-E09	GAATTTCTGTTAACGGGCGTGCTGAAA
SEQ ID NO. 1239	T18-E10	GCGCTGGGCACGATCCGTGATATTATT
SEQ ID NO. 1240	T18-E11	CCGGTGGATGTTATCACCGCGATTAAGGCG
SEQ ID NO. 1241	T18-F01	TGGAATATGCTGCGCGGTAATGCGACCCAAGCCGCG
SEQ ID NO. 1242	T18-F02	AGCGAACCGGCCTGGGCCACCGCGCTGTCTGTTTTTGCGGCG
SEQ ID NO. 1243	T18-F06	AGCGCGGCGGCCAAGAAACTGATTAACGACTAT
SEQ ID NO. 1244	T18-F07	AGCGCGGAAATCTTAAGCGCGAGC
SEQ ID NO. 1245	T18-F09	GATGGCACCTTCTTACGTGCGGCGGAGTTAGCGCGTAAT
SEQ ID NO. 1246	T18-F10	CGTACCGAATTAATGCAAGCGAGC
SEQ ID NO. 1247	T18-G04	CAGCAGAATTTAATCCTGCATTATCAAGCCGTG
SEQ ID NO. 1248	T18-G09	GCGCGTGCGTACTACCTGCTGGGCTTAGCCTATGATGGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1249	T18-G10	ACCGAAATTGCCGTTGATATTGCGCGCTCTGTGGAA
SEQ ID NO. 1250	T18-H01	CAGCAGGGCCAAGCCCTGGCGGCGACGGCCAAT
SEQ ID NO. 1251	T18-H03	AGCCAGGATATCCGCGCGCTGGCGGACGCG
SEQ ID NO. 1252	T18-H05	GGCTATAGCTTAGTTGCGCGTAAA
SEQ ID NO. 1253	T18-H07	TGGCCGAAAGAGCGCGATGCGGCGACGCTG
SEQ ID NO. 1254	T18-H08	ATTCCGCATGTTCAACGTCTGATTGGC
SEQ ID NO. 1255	T18-H10	GATCTGGCGGTTGTTAAAGCGGCG
SEQ ID NO. 1256	T18-H12	ACCCCGGGCATGATCATGGCCAGCGAAGCGTTATTACGTAAA
SEQ ID NO. 1257	T110-A01	GCGGAACAGTTCATCGGCATGAGCGGCTCTGGTTATAGC
SEQ ID NO. 1258	T110-A02	AAAGAAGAAATCGAGGAAGTGGTGTCTGAGACCGTG
SEQ ID NO. 1259	T110-A03	CAGGAAGGCATGTACCAACATTTTAAAGCCATCGCGGAA
SEQ ID NO. 1260	T110-A06	GCGAGCCTGGCCGCCCTGGCGCTG
SEQ ID NO. 1261	T110-A09	AGCCGTGCGACGTTAGCGAATATTGACCGCGCGCGTGAGCAG
SEQ ID NO. 1262	T110-A11	AATGTGGCGGACATCATTCGTCGTGTTTGG
SEQ ID NO. 1263	T110-A12	ATTCTGGATGCCTCTCTGGAACTGTTT
SEQ ID NO. 1264	T110-B02	AAAACCCAGTTAATCGATGTGATTGCCGAGAAA
SEQ ID NO. 1265	T110-B05	ATTGAAGCGTTCTTCCGTCTGGTGAAGCGT
SEQ ID NO. 1266	T110-B06	GCGGAAGAAAAGTCTCGTGCGCGTCGCCACCTGCGTACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1267	T110-B07	CGTGATGAAATCTTCGCGACCATTAACGAA
SEQ ID NO. 1268	T110-B10	CTGGCGAGCCGCTTCTTTGCGATGAAACGCAGC
SEQ ID NO. 1269	T110-C01	CAGGTGACCATCGACAGCGCGCTGGCCACGCAGAAATAT
SEQ ID NO. 1270	T110-C03	AGCTTTGTGTTACAAAAAATTGTGTCTGCCATT
SEQ ID NO. 1271	T110-C04	GATGTGATGAAAAAGGCCAGCGAACTGCAAAAA
SEQ ID NO. 1272	T110-C06	TGGGGCGCGTTACGCTATATTCGTGACTTAGCGGCGGAT
SEQ ID NO. 1273	T110-C07	CGTAAAATTATGTCTTTAAGCAATAAACTG
SEQ ID NO. 1274	T110-C08	CAGGAAGATTTAGCCCGTGAAAAAGCG
SEQ ID NO. 1275	T110-C10	CCGCTGGCGGGTATCCTGTTTATTATCGAGGAA
SEQ ID NO. 1276	T110-D02	GCGGAAGAAAAGTTCAAAGAAATTGCCGAGGCGTATGACGTG
SEQ ID NO. 1277	T110-D04	AAAGTGAAACAAGCCGATGCGCTGTCTTCTAAAACC
SEQ ID NO. 1278	T110-D06	AGCCAGGGCCAATCTTATGGCATGTTTTCTGCCCTGGCG
SEQ ID NO. 1279	T110-D08	CAGGAAGCGGCCCAAAAAGTGGTGGAGCAG
SEQ ID NO. 1280	T110-D09	GGCCAGGCGGCCGCCGCGACCCTGCTG
SEQ ID NO. 1281	T110-D10	GAAGCGATTTTAGCCGCGAAAGCGGCCGGC
SEQ ID NO. 1282	T110-D11	GAATATGCGCGCATCCTGGAAGAACGCGCCACCAGC
SEQ ID NO. 1283	T110-E01	CAGGGCATTATCGACCATTTTCAGAAGGCG
SEQ ID NO. 1284	T110-E06	GATATTGCGTTATGGTCTGGCCTGGCGGGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1285	T110-E07	GCGAAAGCGCACTACGATGGCATTGTTGCCTTTAGC
SEQ ID NO. 1286	T110-E08	GCGGCGCGTATGGCCACGTATATGGATACCATCGACTATTTT
SEQ ID NO. 1287	T110-E09	GTGCCGCAGGCCATGACGGCGTTTGCGGAGTTCCTGAATCGT
SEQ ID NO. 1288	T110-E10	ACCTGGTATCGCACGATTCAGGATCGCACGATTACCGAT
SEQ ID NO. 1289	T110-F01	CAGCGTGATTTATTAATGTATGCGGTGGGC
SEQ ID NO. 1290	T110-F03	ACCGGCGCGTTAGGTCTGATTAGCGACTGGTTACTGACC
SEQ ID NO. 1291	T110-F06	CCGGTGACCACGGGTTTTTATGAAGCCATT
SEQ ID NO. 1292	T110-F07	CTGATTCGTATGTTCAAGCGTCTGGAAGAGTTAGTG
SEQ ID NO. 1293	T110-F08	GGCTTTTTTACGGCCCAGACCCTGCACGTTGCGGTG
SEQ ID NO. 1294	T110-F10	TTTTATCCGGCCGCCGCGTTTATTGACCGCGCGCTGAGC
SEQ ID NO. 1295	T110-F12	AGCGAAGAAGAGGCCCGTCTGAAAAAGTCTGCGGATACGCTGTGGGGTATTCAG
SEQ ID NO. 1296	T110-G07	ACCATTCCGGTTTTACTGGATATTGCCGAGCGTACC
SEQ ID NO. 1297	T110-G08	CCGCTGCTGAAGGCCAGCATTAAAGAGACGCTGCGTCTG
SEQ ID NO. 1298	T110-G10	CGTGGCGATGCCGAGGTGGTGATTTCTGAGTGGGATCAGGTG
SEQ ID NO. 1299	T110-H01	ATTGAAGATGTTATCCAGGCGAATGTTAAGGCG
SEQ ID NO. 1300	T110-H05	AATACCCTGGAGGAGATTATTTTTAAGCTG
SEQ ID NO. 1301	T110-H07	CGTGCGGCGACGGTTGGCAGCCTGGCG
SEQ ID NO. 1302	T110-H09	TGGCGTGAAATCTTAGAACGTGATGTTCGCAATATTATCACCTACTTTAGCCGCACCTAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1303	T110-H11	CCGACCATTGCCTTCGCGCATGAT
SEQ ID NO. 1304	T110-H12	GCGAATGTGTCTGCCGCGATTAGC
SEQ ID NO. 1305	T28-A01	GGCCTGGAAGAGGTTCTGTATGAACTG
SEQ ID NO. 1306	T28-A07	GATACCCTGCGCGCCCGTGCGGTGGCCGCCGCGCGT
SEQ ID NO. 1307	T28-A08	CCGAGCAAAACGTTAATGGATAATTATGAGGTG
SEQ ID NO. 1308	T28-A09	GATCAGGAAGCCGTTACCGCGATTGAGAAGTTTGTGGACGAT
SEQ ID NO. 1309	T28-A12	CCGGAAGCGGCCGACATGGTGTTTACC
SEQ ID NO. 1310	T28-B04	AGCGCGAGCCAAGCCGAACAGTTTTTAAAGCTG
SEQ ID NO. 1311	T28-B10	GCGTTTCGTGAGATGTCTGATATGATTCTGCAAGCG
SEQ ID NO. 1312	T28-C04	ACCAATAGCATGCGCATGATGCAACAG
SEQ ID NO. 1313	T28-C07	GGCCCGGAAGGTATGACGAGCTTTATGCGTAGC
SEQ ID NO. 1314	T28-C10	ATTGAACGTATCAACGAACTGGTGGCCTAT
SEQ ID NO. 1315	T28-D06	CATCTGCTGGACCAATTTGCGACCGCCATGATCGAACGTACC
SEQ ID NO. 1316	T28-D10	GTGACCGAAATCGCCAAAAAACTG
SEQ ID NO. 1317	T28-E03	GGCGCGCAGGTTCAAGCGCTGGCGGACGCCGCGCTGGAGGCGTTT
SEQ ID NO. 1318	T28-E06	ACCGCGAGCTTATTAAGCAATGTGACGGACGAACTGCGCCGTATGACC
SEQ ID NO. 1319	T28-E07	CCGCTGCTGCAACAAATTCATAATATCACGAGCTTTATCCGTCAAGCGAAAGCG
SEQ ID NO. 1320	T28-E08	CGTCATACCATCGTTAATTTTGTGGAGCAAAGCCTGATCGTGGACATG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1321	T28-E09	CAGGCGCATGCCGAGGCGTGGGCGGCGTTACGCCATCTGGCCGAACGT
SEQ ID NO. 1322	T28-E11	ATTGTGGATTTATTACAGATTGTGAACCAAATTACCCAAAAATTACGTCAGATT
SEQ ID NO. 1323	T28-E12	GCGGCGGATTTAAAGGCGGTGCAGGACAAGCTGAAAACGTTTGTTGAA
SEQ ID NO. 1324	T28-F02	CAGACCGCGTCTCACGCGCTGGATGCCGCCCTGGAATTAGCGGCCGAT
SEQ ID NO. 1325	T28-F03	CAGGCGTTTGTTGACGCGACCTGGCCGCAAGCCGCGAAAGCCGCGCAAAGCCTG
SEQ ID NO. 1326	T28-F04	CGTGGCCATCAAAAGCTGATTAATGCCACGGTGGAAAAGGCGCGCGAAGTG
SEQ ID NO. 1327	T28-F05	GCGAGCATTTTCTTCGCGATTAAAGACGCCATTCGTGCCGCGCGCGCGCAGCAT
SEQ ID NO. 1328	T28-F08	GAACAGGAACACCGCAAACGTGTGATCCGCGAACTGAACAGCTTAATT
SEQ ID NO. 1329	T28-F09	GCGCCGGCGCGCTTACATTGGCTGGCGACGTTACTGATGGATGCG
SEQ ID NO. 1330	T28-F12	AAAGGCTTTCACGCCATTCAGACCCACCGCCTGGCGCACTGGCTGTAT
SEQ ID NO. 1331	T28-G01	CTGAAAGATTTAGTTCGTAAAGCGGAGGAGATTGGCCGCGAATTAAGC
SEQ ID NO. 1332	T28-G02	TATCAGTATTTAGCCGCGCGTCTGGCCATCTTTCATTTACGTAAGAAAGCGTAT
SEQ ID NO. 1333	T28-G03	CCGGTGGGCGACGTTAAAGAACTGGGTGCCATTCAGGAGGTGTTT
SEQ ID NO. 1334	T28-G04	ACCCAGGCGTTATTACGTTTTCTGGCCGACCATAGCCGCAGCAAGGATACCGTG
SEQ ID NO. 1335	T28-G05	GGCCGTGATTTAGCCCTGCTGGGCCGCTTCTATGCGGAGGCGTTAGTGGATAGC
SEQ ID NO. 1336	T28-G06	GCGGAACTGCGCTCTACCTTTTTTCGCGCCCTGAGCGACGCGCAAAAT
SEQ ID NO. 1337	T28-G08	CCGCGTGAAGAGGAGCGTCTGAAAGCCTCTGCGAAAGCCCGTTCTCGTACCTTACAGGAA
SEQ ID NO. 1338	T28-G09	CAGGAACAGGCCCAAGCGGGCGAAGACAACCTGGGCGCCCAGGCCGCGGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1339	T28-G11	GTGGATGAATTAATGATGCGCCTGATGGCGGCGATGGAGATCTTTACCGCCCAG
SEQ ID NO. 1340	T28-H02	GAAATGGAAACGGTTATTCCGGTGGACGTTATGCGTCGT
SEQ ID NO. 1341	T28-H03	ATTGCGGAAAAGGTTCAGTATATGATTGAGTGGTGGACGAAAAGCGGTGAACTG
SEQ ID NO. 1342	T210-A01	AAAGAAGTGCGCGCCAGCGCGAAAGCCTTAGTGCAGAAGTGGACCAACGAAGTGTTT
SEQ ID NO. 1343	T210-A03	CCGGCGATGAAACAAATCAAACGTAAAATCCAAGAATTTCACCGTACC
SEQ ID NO. 1344	T210-A04	GAAACCACCCAAGAGCGTCTGCGTTCTGGTTATGAAGACGCGGTTGATTATAACCGT
SEQ ID NO. 1345	T210-A05	GTGCAGGTGGCCGAGGAAGCGATTGTTAACGCGATGCGTGTTCTGTACTATCGT
SEQ ID NO. 1346	T210-A06	TATGCGCTGGGTGTTCGTAGCGGCTTACAAGAACTGGCCCCGCACCTG
SEQ ID NO. 1347	T210-A07	GATACCCTGCGCGCCCGTGCGGTGGCCGCCGCGCGT
SEQ ID NO. 1348	T210-A08	GTGGAAGAAGTTCGCGAACTGCTGGAGTGGTACAATAATATGAACCGTTTACTGAAAATG
SEQ ID NO. 1349	T210-A09	ACCGAACTGAAGCACACCCTGGAATCTGAGGGCCGTGAGCTGGTTAAA
SEQ ID NO. 1350	T210-A10	ACCGATACCTACGTTACCCGTATTCGCGCCGCGGTGCAAGCGCGCCAGCGTATT
SEQ ID NO. 1351	T210-A11	AGCGAAGAACGCGCCCATCGTCGTATGTTACAACTGCAGGTTAAA
SEQ ID NO. 1352	T210-B01	ACCACCACCGCCGTTGTGGTGGCGGGTGAGCTGCTGCGCAAAGCCGAAGAATTACTG
SEQ ID NO. 1353	T210-B02	GGCGGCCCGTTAGGTCTGATGCAGGCGGTTTTAGATCATACGATTCCATATCTG
SEQ ID NO. 1354	T210-B04	ATTTTTTATGCCGAGCTGGCGCGTGGTATCGAAGATATCGCGACGATG
SEQ ID NO. 1355	T210-B05	AGCGAAGAAATCAAGAAAAAAGCGTTAGAGTTTGTGAAGTATATCAATAGC
SEQ ID NO. 1356	T210-B06	GCGGAACAGTTATTAAGCCAGGCGCGCGACTTTATTAACCAGTACTATAGCAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1357	T210-B07	ATTCTGCATTTAGTTGGCGATGTGGTTGCCCTGCTGGAGGCGATT
SEQ ID NO. 1358	T210-B08	GCGGTGGCGCGCGCCGCGCTGATTAACATGGTTTTTCAGATGGGTG AAACGGGCGTGGCG
SEQ ID NO. 1359	T210-B09	GCGGCGGGCATCGCCGCGCTGGCGTTCTCTCTGAATGAGCTG
SEQ ID NO. 1360	T210-B12	TTTGCGCGTGTTGTTGAAACCGTGTCTGAGGCGATGAGCGGTCTGTT AGCG
SEQ ID NO. 1361	T210-C01	AGCGTGAATTTATTAAAAAGCCATTTAGAGGAACTGGCCAAAAAGC AG
SEQ ID NO. 1362	T210-C03	CCGTTTGCGTTAAAGCCGCTGATTGCCTGGACGGAACGTGAGCGTG CCGCG
SEQ ID NO. 1363	T210-C04	GCGCAGGCGTTCTTAAGCGAAGAACAAGCCTTTGTGAACAGCATCC TGAAT
SEQ ID NO. 1364	T210-C06	CAGCAGCTGCGCGACGCGATTGAAGAGTACGGCAATGCCATTCGCC AGCTGGCCGCG
SEQ ID NO. 1365	T210-C09	GTGCCGTTTAACATCGCGAGCTATGCCTTACTGACCATGATGATCGC GCAAGTG
SEQ ID NO. 1366	T210-C10	CGTGATCAGATCTTACTGCGTCTGTTAGCCAGCGCGTTACAGATT
SEQ ID NO. 1367	T210-C11	GCGGGCGCGACGATCCTGCGTCTGGCCAAGGATCTGGCCGAAAAT
SEQ ID NO. 1368	T210-C12	GAAGAAGGCTTACGCATGAATATTAGCGTTGGTATTCAGTACATTGC CAGCTGGCTG
SEQ ID NO. 1369	T210-D01	AAAAGCCTGATCCAAGATTATGATGCCGAGATGGCGGAATACATGA AAAAGCGTACC
SEQ ID NO. 1370	T210-D02	GTGGGCGCGGTTAAGGCGGCGACCGACGCCGGCGCGGCCGCGGCCC GT
SEQ ID NO. 1371	T210-D03	CATGCGGCGGAGTTAGCGAAAGCGGAGGCCGGCGTGGCCGAAATG GCCGCGAAA
SEQ ID NO. 1372	T210-D04	GAAGAAGAAAAGGAGAAATATGCGGAGATGGCCCGTGAATGGCGC GCGGCCCAGGGCAAA
SEQ ID NO. 1373	T210-D05	CAGGCGCATGCCGAGGCGTGGGCGGCGTTACGCCATCTGGCCGAAC GT
SEQ ID NO. 1374	T210-D06	CAGAATCGTATCGACTATCTGAAAGCCCACATTGGCCAAGCGTGGA AGGCGATTCAG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1375	T210-D07	GATGAACAGATCGTTGATAATATTGAGGCCGTGCTGAACGTGGTTGCGAAAAAA
SEQ ID NO. 1376	T210-D08	GAACGTCATTTAGACCGTAAAGCGGAGTTAATTGTGCAAGTGCGCATTCTGTTAAAA
SEQ ID NO. 1377	T210-D09	CATCAGAGCGACGTTTGGAGCTTTGGCGTTTTACTGTGGGAAATCTTT
SEQ ID NO. 1378	T210-D10	CTGCCGGATTTAGCCGCGCGTATTTTACCACAGGCGGCCCGTGCCCTGAAAGAA
SEQ ID NO. 1379	T210-E01	CCGTATCTGGGTGCCCAGATTGCGAAGGCCATGGTGAAAGGTTATCAG
SEQ ID NO. 1380	T210-E03	GAAGAACAGGCCCGCAAAGCGTTTGACCGCGCGACCAAGCTGGAGCAGGAATTT
SEQ ID NO. 1381	T210-E04	TTTGTGGATTTCTTAGTGTATGATGTTTTAGATCTGCACCGTATCTTT
SEQ ID NO. 1382	T210-E06	TATGATAAAGTTATCGAACGTATTTTAGAGTTTATTCGCGAAAAA
SEQ ID NO. 1383	T210-E08	GGCAAATGGTGGCGTCGCCAACTGAATGTGTACTGGTCTCGTTGGCTGGTTACCGCG
SEQ ID NO. 1384	T210-E10	CATCTGCCGCGCATCGAACGTTATGTTCGCCTGCTGGCCGAACACCTGGCGGCG
SEQ ID NO. 1385	T210-E12	CCGGAAGAATACGAGAAAACCCTGGACGAGCTGGTGGCCCGTACC
SEQ ID NO. 1386	T210-F03	GCGAGCAGCATCATGCAAACCCTGTTTTCTCAACTGAAACAATTT
SEQ ID NO. 1387	T210-F06	CTGCCGTTTGGTTTCGTGAGCATGTTTTTAGCCCCGTGGATTGAGCGTCGCCTG
SEQ ID NO. 1388	T210-F07	CTGAGCGAAGCCTTAAAAGAAGCGACGAAGGAAGTGCACATTCGCGCGGAAAAT
SEQ ID NO. 1389	T210-F12	AGCGAAGAAGAGGCCCGTCTGAAAAAGTCTGCGGATACGCTGTGGGGTATTCAG
SEQ ID NO. 1390	T210-G02	GATAGCTATAACGAGAGCATTGTGAACTGGTTATATCGTCGCCAT
SEQ ID NO. 1391	T210-G03	ATTATGTATAAGGGTCATCTGAATTTAATGTACGGCCTGTACCAGTTAGTGACC
SEQ ID NO. 1392	T210-G04	GGCGCGTATTCTATCAGCGTGGCGGAGCACGCGTTTGCCCTGTTACTGGCGCACGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1393	T210-G05	GTGCAGGTGACGAACTATGTGGAAGACCGCATTATTGCCCTGCGCAAT
SEQ ID NO. 1394	T210-G06	TTTCTGCCGTTCGGTTATCTGGTGGACCAATGGCGTTGGGGCGTTTTTAGC
SEQ ID NO. 1395	T210-H03	CCGGCGAGCCGCTTCATTCGTGTGGCCTTCCTGCGTGACGCGATGATCAAAAAT
SEQ ID NO. 1396	T210-H05	TTTCAGGAATTATTCGGCCCGGGC
SEQ ID NO. 1397	T210-H06	TGGCTGCTGGAGGACGCGAAAGGCTTATTCAATGCGACGGTGCGCGATGCG
SEQ ID NO. 1398	T210-H07	GGCGAACGTGCCAAGCAGCTGCGTCGCTTCAGCATTGCCACCTTACGT
SEQ ID NO. 1399	T210-H11	GGCAATGCGATCTACGAACGTAGCTTCGCCATTATTCGCGCGGAA
SEQ ID NO. 1400	nhs-2346	CGTGAAAAATTAGAGAATCTGACCGAA
SEQ ID NO. 1401	nhs-1406	GATGAAACCAAGAAGGCGCGTATGCAG
SEQ ID NO. 1402	nhs-2512	GAAAATCGTGAGATCGCGCAGCGTGAA
SEQ ID NO. 1403	nhs-1443	GAACGTATTAAGTCTACCCTGAAAGAA
SEQ ID NO. 1404	nhs-2273	GATGAACAGATCCGCGAAATGAAAAGC
SEQ ID NO. 1405	nhs-2212	GAAAAAGAACGCTTAGAAGCGCAGACC
SEQ ID NO. 1406	nhs-186	CGTATTCATGAGACGAATCTGAAAAAA
SEQ ID NO. 1407	nhs-1744	AATGAAGAAATCAAGAAACTGCATACC
SEQ ID NO. 1408	nhs-2470	GATCAGCGTAAGCACCATACCGAAACC
SEQ ID NO. 1409	nhs-1999	CGTGATACCCGCGAGCGTCTGCATACC
SEQ ID NO. 1410	nhs-2364	GATGAAAAACGCATGTTAAAAACCACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1411	nhs-2233	AATCAGGAATTAAAGGAAGTGCGTGAT
SEQ ID NO. 1412	nhs-1503	GAAAATCTGAAGAACCTGGAAAAACAT
SEQ ID NO. 1413	nhs-1756	ACCGAACATGAGAAGCAGGTGAAAGAA
SEQ ID NO. 1414	nhs-1420	AGCAGCAAAGCCAAGGAACTGAAAGACCGT
SEQ ID NO. 1415	nhs-1787	AATGATAAAATCGAGGCGATTAAATCTCAT
SEQ ID NO. 1416	nhs-98	CGTGAACGTATCCGCGAACATCTGTCTAGC
SEQ ID NO. 1417	nhs-2011	CGTGATGTGCAAGACCAGCTGAAAGAGAAA
SEQ ID NO. 1418	nhs-1126	ACCAGCGAATTACGCGAAGCGATGCGTAAA
SEQ ID NO. 1419	nhs-2594	CAGCAGGCGGAGGACAAAATTAAAGAGCTG
SEQ ID NO. 1420	nhs-1100	AAAGAAACCCAAAAGCAGCTGATTGACGAT
SEQ ID NO. 1421	nhs-1446	CGTGAAGGCAAGGACCGTACCCGTCAACTG
SEQ ID NO. 1422	nhs-2293	GAAAAAATTCGCCAAACCCTGGAAGACGCG
SEQ ID NO. 1423	nhs-619	GATAAAATTATCAAGCGTGCGAATGAGAAT
SEQ ID NO. 1424	nhs-1059	CGTGAAGGCGCCGAGAAAATTAATCAAAAA
SEQ ID NO. 1425	nhs-1655	GATGATGTGGTTAAGAAACTGGATTCTAGC
SEQ ID NO. 1426	nhs-1051	GATCGTACCCGCAAGCTGATGGAAGTGACC
SEQ ID NO. 1427	nhs-2053	GCGGAACATGTTCAACAGATTAAAGAGCAT
SEQ ID NO. 1428	nhs-1919	CGTGATGAATTAACGCAGGCGGCGAAGAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1429	nhs-67	GCGCAGCGTATCAAGGAAATTCAGGACCGT
SEQ ID NO. 1430	nhs-598	GAAAATGAAATCCAAGCGAAAGCGAAGGAA
SEQ ID NO. 1431	nhs-1789	AGCGATGATATCCGCAAACTGCTGGAGAGC
SEQ ID NO. 1432	nhs-2545	AAAGATAGCTTAAAGAAAATTCATTCTATT
SEQ ID NO. 1433	nhs-1164	AAAAAAGATATCGACGATACCATTAAGAGC
SEQ ID NO. 1434	nhs-1160	AAAAAAGAATTAAAGGAACTGCTGCAAACC
SEQ ID NO. 1435	nhs-686	CGTGATCTGACGGAGCGTGCGATGCGTCAG
SEQ ID NO. 1436	nhs-2454	ATTGATACCCGCTTAGAAAAACTGAAGAAT
SEQ ID NO. 1437	nhs-687	CAGATTGATGAGCACCATGCGGTGCGCACC
SEQ ID NO. 1438	nhs-170	GCGGAAGAAACGATCAAAGAACTGAAGAAT
SEQ ID NO. 1439	nhs-2422	GAAAAAGATACGGTTGATCAGGTGCGCATT
SEQ ID NO. 1440	nhs-354	GATGATGAAACGTTACGTAATGTGAAGAGC
SEQ ID NO. 1441	nhs-2000	CGTGATGAATTACACCGTCTGCTGACGCAG
SEQ ID NO. 1442	nhs-1723	AAAGAAAAATTAGAGGCGACCATTAACGAA
SEQ ID NO. 1443	nhs-1241	GATGAACGTGTTCAACAGATTAAAAAGAGC
SEQ ID NO. 1444	nhs-1729	CGTGATCAGGGTAAGGAAATGGCGACCAAA
SEQ ID NO. 1445	nhs-366	CTGAGCACCGACCGCAAAATGGATGAAGTG
SEQ ID NO. 1446	nhs-2415	GTGGAAGATTTAACGAGCAAAGCGGAGAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1447	nhs-2487	GAAGATAAATTACGCACCATTGCGAACGAA
SEQ ID NO. 1448	nhs-665	CGTGAAAAATTATTAGATACCATGAATCGT
SEQ ID NO. 1449	nhs-2406	AATCATAATTTAGAGCGTATTCGTGAGCTG
SEQ ID NO. 1450	nhs-2403	GATAAAAGCCGCAAGCTGCTGGAATCTATT
SEQ ID NO. 1451	nhs-1348	AAAAATGATATCGTTGAACTGAAAAACAAA
SEQ ID NO. 1452	nhs-725	CATACCGATTCTCACCTGCATACCCGCCAG
SEQ ID NO. 1453	nhs-2380	CAGCGTCTGCGCACGAAACTGGAAACGGAA
SEQ ID NO. 1454	nhs-2518	GAACGTACCCGCGCCGATATTAAATCTGTG
SEQ ID NO. 1455	nhs-1959	CCGCATGTGACGGAGCGTGTGCAGAAGGAA
SEQ ID NO. 1456	nhs-2367	GATAATAAATTAAACGAAATTGGCGAGAAA
SEQ ID NO. 1457	nhs-2413	AAACCGAAAGCCGACCAGAAACTGGAGCAG
SEQ ID NO. 1458	nhs-2055	AGCGCGAAAAAGAAGGATGTGATTTCTGAA
SEQ ID NO. 1459	nhs-1307	ATTAATGAAGTTAAGCAGCATCTGGAGCGT
SEQ ID NO. 1460	nhs-1631	AAAAAAGAAGTTGACCAGGCGATTAAGAGC
SEQ ID NO. 1461	nhs-923	GCGACCGATACGCACCGTCTGCATAAGGAA
SEQ ID NO. 1462	nhs-310	CATGCGGAACGCTTAAAAGTGCAGAAGAAT
SEQ ID NO. 1463	nhs-1850	ACCAAAATTCGCGAGAAAGTGCGTTCTGAT
SEQ ID NO. 1464	nhs-44	GCGGATGATGTTAAGCAGCTGAAATCTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1465	nhs-2762	CTGCATCAGGTTCGCAAAAAACTGGACAGC
SEQ ID NO. 1466	nhs-2195	GAAGTGGAAGTTCGCCAGGCGCGTGACAAT
SEQ ID NO. 1467	nhs-824	CATGAAAAACACACGACCGCGCTGGAGAAA
SEQ ID NO. 1468	nhs-431	AAAGAAGATGTTCAAGCGAGCCTGGAGCGT
SEQ ID NO. 1469	nhs-2193	GAACATATTAAGGACGTGCTGAAATCTAAT
SEQ ID NO. 1470	nhs-280	AAAGATGAATTAATCCGTAATAATCAAGAA
SEQ ID NO. 1471	nhs-1571	CTGAATACCCGCTTACGTAAACTGGACGAA
SEQ ID NO. 1472	nhs-1543	AAAGATACCATCAACAAAATTCGTGACCTG
SEQ ID NO. 1473	nhs-1633	GAAATGCGTGACTTAGTGCAGCGTGAGACC
SEQ ID NO. 1474	nhs-958	AATCGTGAAGTTTTAGAACAGGTGGAGCGT
SEQ ID NO. 1475	nhs-809	AATCGTGAAGTTTTAGATCAGGTGGAGCGT
SEQ ID NO. 1476	nhs-425	AGCGATAAAGCCCACAAAGTGCTGAAGCAG
SEQ ID NO. 1477	nhs-2748	GAAGCGCAGACGCGCGAACTGCGTTTAAAA
SEQ ID NO. 1478	nhs-1586	CCGGAAACCTTAAAGGAAAATCTGGACAAA
SEQ ID NO. 1479	nhs-2201	GAAACCACCGCCGAGCGTATTAAAAAGGAA
SEQ ID NO. 1480	nhs-2746	CTGGATGATTTAAAGACCCGTGTGGAGAGC
SEQ ID NO. 1481	nhs-993	AAAGAACATTTAAACGAAATTCGTAAGAAT
SEQ ID NO. 1482	nhs-2139	GGCCAGGAATTAGAGCGTCAGCTGAAGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1483	nhs-2215	GATAAAGTGATCCAACAGATTAAAAAGGAT
SEQ ID NO. 1484	nhs-888	CGTGATGAACGCAAGAAAAGCCTGTTAAGC
SEQ ID NO. 1485	nhs-901	CATGAAACCCGCGAGCTGACCCGTATGAAT
SEQ ID NO. 1486	nhs-2112	CAGCCGACCATCCGCGAAAAAGTGCGCGAA
SEQ ID NO. 1487	nhs-814	GAAAATACCGTTAAGAAACTGCGTGAGGCG
SEQ ID NO. 1488	nhs-2140	AGCCTGATGCGTGAGAAGATTCGTAATGAGAGC
SEQ ID NO. 1489	nhs-499	GAACCGATGCTGAAGAACTTTGAAAAAGACACC
SEQ ID NO. 1490	nhs-2077	GAATGGGAACAATTAACCGTGGAATTACGCAAA
SEQ ID NO. 1491	nhs-1591	GGCCAGAAAGACTTAATGGATCGTCTGAACGAA
SEQ ID NO. 1492	nhs-564	ACCAAAACCTTCCACGAAGCGATTCGCGACAAA
SEQ ID NO. 1493	nhs-2431	AAAGGCAAAATCACGGATTTTCTGTCTGAGCAT
SEQ ID NO. 1494	nhs-2165	CAGAAACGTGTTGACAAAATTTTTGACCAAATG
SEQ ID NO. 1495	nhs-2374	ATTAATCATACGAAGGATATTCTGAAGAAGTTT
SEQ ID NO. 1496	nhs-2440	GATGAACAGCGCAAGCTGCTGAAAGAGGCCCAG
SEQ ID NO. 1497	nhs-1371	AAAAGCATTGCCGAGGATATTATTAAGAAGAAT
SEQ ID NO. 1498	nhs-1372	GCGGAAAAAATCAAGCAGGAAGTGGACGCCAGC
SEQ ID NO. 1499	nhs-2083	TATAAAGAAGACATCAAAATTATGAAACAAACC
SEQ ID NO. 1500	nhs-1341	AGCGATGATGTTCGCCATGCGGTGCAACGCGTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1501	nhs-2424	CATAGCAAATACCGCGAAGAAGCGATGCAAAAT
SEQ ID NO. 1502	nhs-287	AGCTATGATACGGGTAAAGAAATTATCAAGGAA
SEQ ID NO. 1503	nhs-2134	CTGAATAATAAGGTTGATGAACTGAAGAAGAGC
SEQ ID NO. 1504	nhs-548	TGGGAAGCGTTACGCGAAAGCATTAAGACGCAT
SEQ ID NO. 1505	nhs-2003	CATAGCCTGGTTAAGGCGAAACTGCGCGAGACC
SEQ ID NO. 1506	nhs-2081	GAAAATGATAAGGAGCAGCTGAAAGCCATCAGC
SEQ ID NO. 1507	nhs-2394	AGCATTGGCGACCGCATGAAACGTTATGAGAAT
SEQ ID NO. 1508	nhs-1335	CGTGATAAAGTTAACGATATTGTGGACCAAGTG
SEQ ID NO. 1509	nhs-2137	GATACCGTGTACAAGAAACTGGTGCAACGCGAA
SEQ ID NO. 1510	nhs-1622	AGCGAAAAAGTTGTTCAGGAAGCGTTAGACAAA
SEQ ID NO. 1511	nhs-2401	GAAAAAACCTTATCTGCGGTGAAAGAGAAGATT
SEQ ID NO. 1512	nhs-558	CGTGATCAGTTAGTTGGCAAAATTCAAGAGCGT
SEQ ID NO. 1513	nhs-343	CATGATGAACAAACGGCGATTAAAAACAAGCTG
SEQ ID NO. 1514	nhs-1319	CCGAATGATTTAAAGCATGTGAAAAAGTTAAGC
SEQ ID NO. 1515	nhs-2141	GATGATCGTTTAAACAAAGTGATTTCTGAGCTG
SEQ ID NO. 1516	nhs-1993	AAAAAACTGTTAACGTGGCGTGAAGAAACGGGC
SEQ ID NO. 1517	nhs-532	GTGAGCGAAAAGGAGCATGCGACCCGCTTACTG
SEQ ID NO. 1518	nhs-2238	ACCAATCGTGACTACCTGGCGGAACGCTTACGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1519	nhs-1625	ATTCATCGTTACGTTAATGAAATGAATAAGGAA
SEQ ID NO. 1520	nhs-1699	AATGATCGTAAGTCTTTTCTGCTGCGCGACAGC
SEQ ID NO. 1521	nhs-2057	CTGGATGCGGCCCGCGAAAATGCGCGCAAGAAT
SEQ ID NO. 1522	nhs-2213	GAAAAAATTCAAAAGGAAGCGCAGGAGGCCCTG
SEQ ID NO. 1523	nhs-587	GATATTGCGCGCAAGGAACAGCTGAAGTCTCTG
SEQ ID NO. 1524	nhs-1492	TGGAGCCATACGGAGCGTCTGCTGAAGGAGCAT
SEQ ID NO. 1525	nhs-1651	AAAGATAGCGCCGCCCGTGCGAAATCTGACCTG
SEQ ID NO. 1526	nhs-1496	AAAGAAACCGAGAACAAAATTATTAAGGACTAT
SEQ ID NO. 1527	nhs-1498	AAAGATACCTTACGCGAAACCATTAAGTTCATG
SEQ ID NO. 1528	nhs-2276	TTTAATACCATCTTAAAAGAAATTAAGGAGCGT
SEQ ID NO. 1529	nhs-2261	AGCGCGCAGGTTGACCGTCTGCGTGAGGAGTTT
SEQ ID NO. 1530	nhs-521	AAAGCGGAAACGAAGAAACTGATTGACTTAACC
SEQ ID NO. 1531	nhs-321	AGCAAAGAACGCATCCCGGAAACCGTTAAGAAA
SEQ ID NO. 1532	nhs-240	AAACAGGAACGCACGCTGTTTAAAGAGTTAATT
SEQ ID NO. 1533	nhs-1506	GAAAAAAGCAAGACGGCGTTTAAAGAGGCCCAG
SEQ ID NO. 1534	nhs-594	CTGAGCGAAGCCTTAAAAGAAGCGACGAAGGAA
SEQ ID NO. 1535	nhs-2246	GAAACCAAAATCTTCGAAGCGGTGAAGCAAGAA
SEQ ID NO. 1536	nhs-597	GAAGAACAGGTTACGAAACTGCTGCACCGCAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1537	nhs-246	CGTACCGATTTAAAGGATTATATTACGAAGAAT
SEQ ID NO. 1538	nhs-1513	ACCCTGCTGGAGAAGACCCTGAAAGAGCGCCTG
SEQ ID NO. 1539	nhs-1462	AAAGAAGCGTTAGCCAGCCGTTTTAAGGAGACC
SEQ ID NO. 1540	nhs-1453	GAAAATCAGTCTAAGAAACTGAAAGAGTTAATG
SEQ ID NO. 1541	nhs-1662	CTGGAAAAAGTTAAGAATTGGCAGAAAGACGCG
SEQ ID NO. 1542	nhs-1558	GCGAAAAAACAAATCAATGATTATGTTGAGAAA
SEQ ID NO. 1543	nhs-202	AGCAGCCTGAAGGACATTGATATTGCCCGCGAA
SEQ ID NO. 1544	nhs-1546	GAAGAAGCGCGCACGCGTAAATTTCAAGCCATG
SEQ ID NO. 1545	nhs-2348	GGCGAAGATACGTGGGAGGCGATTAAACAAAAA
SEQ ID NO. 1546	nhs-204	CATCATACCCGCGTTCGTGTGTATCAAGAGATT
SEQ ID NO. 1547	nhs-2339	GATGCGCGTAAGAAGGATCTGAAATCTATCCAG
SEQ ID NO. 1548	nhs-1535	GATGAAAAAGCCGAGCATCTGCAGAAGACGTAT
SEQ ID NO. 1549	nhs-1421	AAAGAATTTCAAAAGGAAAGCCTGTCTATGGAT
SEQ ID NO. 1550	nhs-1521	CCGAAAGAAGCCGAGCAGTTTGTGAAGGAGAGC
SEQ ID NO. 1551	nhs-2329	CGTGAAGAATTCACGAAAAAAGTGCGCACGAAT
SEQ ID NO. 1552	nhs-332	GAACGTGCGAACGAGCTGGTGGAATCTTACCGT
SEQ ID NO. 1553	nhs-508	GCGAGCGATGTTGAGGAACGTGTGCAAAAGAGC
SEQ ID NO. 1554	nhs-2197	CGTGAAAATGCCTTACTGGAACTGTCTAAGAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1555	nhs-630	GTGGAAGAAGCCAAGAATCGTGCGGACCAATGG
SEQ ID NO. 1556	nhs-2024	CTGGAAGAATGGGTTGAGAAAGCGAAATCTAGC
SEQ ID NO. 1557	nhs-2300	ATGACCCAGAAGGTTGAAGAACTGAAGGAGACC
SEQ ID NO. 1558	nhs-2295	GAAAATAGCAAGAAGACCCAGGAATTAGTTGAA
SEQ ID NO. 1559	nhs-2200	GAAACCACCGCCGAGCGTATTAAAAAGGAGATT
SEQ ID NO. 1560	nhs-509	ACCGATCAGATGCGCGAGGCGGTGAAACGCGTG
SEQ ID NO. 1561	nhs-2366	AATCATGATGTTAAGCTGCTGCGTAAGTTAAAT
SEQ ID NO. 1562	nhs-1660	TTTGCGACCAAGTTACGTGAAAAATTAGAGAGC
SEQ ID NO. 1563	nhs-1282	GAAAAAGGCAAGCGCATTCGTGAAAACTACAGC
SEQ ID NO. 1564	nhs-1615	CATGATCAGGCCGTTCGTACCTATCAAGAGCAT
SEQ ID NO. 1565	nhs-72	AAAGAAAATTTATTAGATTTTATTAAGCACAAT
SEQ ID NO. 1566	nhs-792	ATGGAAAGCACGTTCGAACGTATTAAGGAGCTG
SEQ ID NO. 1567	nhs-964	AAAGATCAGGCCCGCCAGGCGCTGGACAAGCTG
SEQ ID NO. 1568	nhs-1048	AGCAAAGATATGGAGTCTCATGTGTTTTTAAAA
SEQ ID NO. 1569	nhs-2633	GTGAAAGATGCCATGCAACATCTGGATCGCCAG
SEQ ID NO. 1570	nhs-1310	GTGGATCGTTTAAAGGATAAAGTGAACAACACC
SEQ ID NO. 1571	nhs-786	AATCGTGATGTTGAGCGTATTGCGGAGTTAAGC
SEQ ID NO. 1572	nhs-2738	GATCAGGTGTGGGACGAGATTGTGAAAAAGAAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1573	nhs-2752	CATGATGCGTTAATCCAGCTGCATGAGCAACGT
SEQ ID NO. 1574	nhs-1067	AAAGAAAAATTAGAGGCGACCATTAACGAGCTG
SEQ ID NO. 1575	nhs-955	CAGGCGGAATTAGACCGTCTGCGTGTTGAGACC
SEQ ID NO. 1576	nhs-1070	CATGCGATTTCTACGGAAAAAATTAAGGCCAAA
SEQ ID NO. 1577	nhs-1797	CAGGTGAAAGCCAAGCATCTGAAAGACTCTATG
SEQ ID NO. 1578	nhs-2756	CATAGCAAATTAGCCGAAAGCGTGGAGAAGGCG
SEQ ID NO. 1579	nhs-1878	AGCTATGATCGCTTAATGAAAACCATTAAGGAA
SEQ ID NO. 1580	nhs-2613	GAAACCGATCACTTCGATATTAAAAACTTAAAA
SEQ ID NO. 1581	nhs-1835	AATGGCAAAGCCGCCGATCGTATTCACCAAGAT
SEQ ID NO. 1582	nhs-1792	AGCGATGATATCCGCAAACTGCTGGAGTCTCAG
SEQ ID NO. 1583	nhs-1088	AAAACCCAGATGCAAGAGAAAGCGAAAGAGATT
SEQ ID NO. 1584	nhs-2604	GCGGATACCATCAAGAAACTGACCGACAAGATT
SEQ ID NO. 1585	nhs-2599	CCGGATAAAACGGTTAAAAAAGTGCAAGACAAA
SEQ ID NO. 1586	nhs-1037	ACCCTGAAACAAGAGTATGAACGTGACCGCGAT
SEQ ID NO. 1587	nhs-1022	CGTCAGAAAGAGTTAGAACAGCGTAAGTTAACC
SEQ ID NO. 1588	nhs-1808	CAGGCGGAATTAAAGGAACTGCTGCAAAAGGAA
SEQ ID NO. 1589	nhs-1810	AGCGATAAAATCAAGAAATTTCTGACGGAGAGC
SEQ ID NO. 1590	nhs-39	AAAAGCGATATGGAGAAGCTGGCGAAAGCCACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1591	nhs-42	ATTAAAAAATTAAAGGAAAATATTGCCCAACAT
SEQ ID NO. 1592	nhs-973	AGCAGCCATTTAAAGGCGCATCTGCGCACGCAT
SEQ ID NO. 1593	nhs-2726	GAACTGAAATCTAAGCTGCTGGATTTCCGCAAT
SEQ ID NO. 1594	nhs-433	GTGGATTTTTTAACGGATCAGCGTTTACGCGAA
SEQ ID NO. 1595	nhs-1896	AGCGAACGTGGTCGCCAGCTGGCGGACCACCTG
SEQ ID NO. 1596	nhs-982	CGTATTAGCGACAAGTTTACCGAATTAAAGGAA
SEQ ID NO. 1597	nhs-984	GATCGTCTGATCAAGAGCCATATTAAGACGAAT
SEQ ID NO. 1598	nhs-817	CTGAAAAATTGGGTTCGCGAACTGCGTCAACAT
SEQ ID NO. 1599	nhs-985	AAAGCGCATTTAGCCCAGCATCAGAAGACGCAT
SEQ ID NO. 1600	nhs-770	GATAAAGCGGACTTAGATGGCCAGTTAACGAAA
SEQ ID NO. 1601	nhs-2728	ACCGATGATAAGGAGAAACTGCTGAAGACGCTG
SEQ ID NO. 1602	nhs-53	AAAAGCGAATTAAAGGAACTGATTAACAACGAA
SEQ ID NO. 1603	nhs-393	ATTCATCGTTACATCCAGGAAATGAATCGCAAA
SEQ ID NO. 1604	nhs-1832	CCGGAACAGGTTGAGCGTCTGACCAAGGAGTTT
SEQ ID NO. 1605	nhs-990	AGCAGCCATTTAAAGGCGCATACCCGCACGCAT
SEQ ID NO. 1606	nhs-807	GATGAACAGGTTTTAGAAAAAGTGGCCCGCCAG
SEQ ID NO. 1607	nhs-391	AAAAGCGAATTAAAGGAACTGCTGACGCGCGAA
SEQ ID NO. 1608	nhs-1811	AAAAATCAGAAGGACGTGCTGAAAGAGTTACTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1609	nhs-389	GGCCTGGAAGACAAGGTGAGCAAACAATTAGAA
SEQ ID NO. 1610	nhs-1904	GAACGTAAAGAGATGGCCACCATTCTGTCTAAA
SEQ ID NO. 1611	nhs-2650	AGCGAAGATCGCTTAGTGAATGAAAAGTTCCGT
SEQ ID NO. 1612	nhs-52	CGTGAACAGTACGAGAAAATGCAGAAAGACGGC
SEQ ID NO. 1613	nhs-2717	GAAAAAAAATTAATCACCGATGCGTTAAACAAA
SEQ ID NO. 1614	nhs-95	AAAACCGAAATCAACGAAGCGCTGAAGAAGATT
SEQ ID NO. 1615	nhs-1945	CGTCAGCTGGAGTGGGGTCTGGAACGTACGCGT
SEQ ID NO. 1616	nhs-375	ACCGCGCATCGCTTACAGCTGCATGACGAGCAT
SEQ ID NO. 1617	nhs-132	GATAAAGATTTAACGCAGCTGAAAAAGGAGGCG
SEQ ID NO. 1618	nhs-885	GATTTTCATCACGAGACCCGTGTGACGTTAACC
SEQ ID NO. 1619	nhs-1211	GATGATGCGGCCAAGAAACTGCAGCGCTACACC
SEQ ID NO. 1620	nhs-136	GCGAGCCTGGTTAAGGAACTGCGTGAGCGCACC
SEQ ID NO. 1621	nhs-1213	ACCACCATTCACCGCATTAAACAGAAGGAGTTT
SEQ ID NO. 1622	nhs-715	CTGCCGCGTGTTATGAAGGATAGCAAAAACGAA
SEQ ID NO. 1623	nhs-474	GCGCATGATCGCATCCTGAAAACCATCAAGACC
SEQ ID NO. 1624	nhs-406	CTGGAAGATGTTTCTAATTTTCTGAAGGAGCGT
SEQ ID NO. 1625	nhs-2488	GAAGATAAATTACGCACCATTGCGAACGAGAAT
SEQ ID NO. 1626	nhs-142	GTGGATAAAATCCGCAATCAGTATCGCGAGGAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1627	nhs-1220	GAAAAAGAATTATCTCTGCTGCGTAACCGCAAA
SEQ ID NO. 1628	nhs-1856	AATGAAAAATACCAAATTCTGGCGCGCGACCAT
SEQ ID NO. 1629	nhs-1256	GCGAATGATTTATTAAGCAAAGTGAAGAAGGAT
SEQ ID NO. 1630	nhs-1612	CATAGCATTATCAAGGGCATTAAAGACCGCACC
SEQ ID NO. 1631	nhs-1984	CCGCGTGAACAATTAATGGAAAGCATTCGCAAA
SEQ ID NO. 1632	nhs-1867	GAAACCCAGGCCAAGGAACTGGCGGCCCACAAA
SEQ ID NO. 1633	nhs-1720	CGTGAAAAATTATTAGATACCATGAATCGCCTG
SEQ ID NO. 1634	nhs-2459	GATGATTTTCAACAAAAAATTGAAAAGATCAAA
SEQ ID NO. 1635	nhs-2453	CGTGTGCATACGTCTGAACTGAAATTACGCGCG
SEQ ID NO. 1636	nhs-1295	GAAACCAAATTACGCGAAACCATTACGCGCCAT
SEQ ID NO. 1637	nhs-5	ATTAGCGATTTACACCAGACCCTGAAGAAGGAA
SEQ ID NO. 1638	nhs-471	CAGCATGAACGCTTAGGCACCCTGGTTCGCGAA
SEQ ID NO. 1639	nhs-720	GATGAATTTGACGCCCAGATGACCAAAGCCAAA
SEQ ID NO. 1640	nhs-860	GTGCATGAAAAGTGGCAAAAAGCGATTCAAAAA
SEQ ID NO. 1641	nhs-762	GATGCGAAAATCTTAAATGATGTGCAAGACCGT
SEQ ID NO. 1642	nhs-18	AAAAGCGATATGGACAAGCTGGCGAAAGCCACC
SEQ ID NO. 1643	nhs-1774	CATGTGAAAGAGACGGCGCTGAAAGAGTTAAAT
SEQ ID NO. 1644	nhs-2765	CTGCGTAGCCACGACAATTTTAAAGCCAAGCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1645	nhs-415	GAAATTACCCGCTTAGTGGAAACCTTCAAGAAA
SEQ ID NO. 1646	nhs-921	CATAGCACCTTAGAGTATAAAGTGAAGGAGCGT
SEQ ID NO. 1647	nhs-919	ATTCATCAGTACCGCGAACAGATTAAGCGCGTG
SEQ ID NO. 1648	nhs-1135	CGTGATCTGGACCGCCAGAAACAGAAGTTAGAA
SEQ ID NO. 1649	nhs-1207	AAAGCGGATATCGTTCGTCAGCTGTCTGAGCGT
SEQ ID NO. 1650	nhs-1158	AAAAAAGCGTGGGAGAACATGGTGACCAAAGAT
SEQ ID NO. 1651	nhs-918	CATAAATTTATCGACACCATTACCGACCACATG
SEQ ID NO. 1652	nhs-1754	CCGAATGATTTAAAGCATTATAAAAAGTTAAGC
SEQ ID NO. 1653	nhs-737	CGTGATCAGGGTAAGGAAATGGCGACCAAGTAT
SEQ ID NO. 1654	nhs-1175	AAAGGCGAATTAAAGCAGCTGCTGACGAAGGAA
SEQ ID NO. 1655	nhs-2523	CCGAATGATTTAAAGCATCTGAAAAAGTTAAGC
SEQ ID NO. 1656	nhs-735	GAACTGAAAGACCAACTGGAAAATTTCCGCCGT
SEQ ID NO. 1657	nhs-909	GTGCAGGATTTAACGCGTGAACTGAACGAGAAA
SEQ ID NO. 1658	nhs-892	CGTACCAGCATCGACCATCTGAAAGAGATCGCG
SEQ ID NO. 1659	nhs-2800	AAAGATAAACAATTAGAAACCATGGCGCGCCTG
SEQ ID NO. 1660	nhs-1205	CTGAGCCGTGCCAAGGAATTTGCGCAAAAGCAT
SEQ ID NO. 1661	nhs-745	CTGACCGATTTAGTTGAACATTTTAAGAAGACC
SEQ ID NO. 1662	nhs-975	TTTAGCGAAAACTTAAAAAAAGCGAAGGAGAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1663	nhs-534	GATAAAGATTTAGAGGTGTGGAATCGTTTAACGAGC
SEQ ID NO. 1664	nhs-1825	CAGGAACGTTTAGACGCGATTGTGTCTCGCACCCGT
SEQ ID NO. 1665	nhs-1628	GTGGATGAAGTTAAGCGTCAGATTGACTTAGCGAGC
SEQ ID NO. 1666	nhs-535	CAGACCAAAATCGACGCGAAAAAAGAGCAACTGGCG
SEQ ID NO. 1667	nhs-531	GATAATGATATCCAAGATATTCGTAACCGCATTTTT
SEQ ID NO. 1668	nhs-1710	CTGAGCGATTTCAAGGAACTGCTGCGCACGGTGAAA
SEQ ID NO. 1669	nhs-1635	AAAGAATGGGAAAAGAAGATTAGCGAAGCCATCCAG
SEQ ID NO. 1670	nhs-491	GGCGAACGTTTCAAGGAAAATATTCGCAAGGTGAAT
SEQ ID NO. 1671	nhs-1722	GAACGTGCGCGCACGGAATTTATTTCTTCTAAACTG
SEQ ID NO. 1672	nhs-479	GATATTCATCAATACCGTGAACAGATCAAGCGTGTG
SEQ ID NO. 1673	nhs-1685	CTGGATACCGACTACCAGATGACCAAACGCGACATG
SEQ ID NO. 1674	nhs-495	ATTGATAATGTTAAGAGCAAAATTCAAGACAAAGAA
SEQ ID NO. 1675	nhs-1745	AAAGTGCTGGACGCCATTATTCAGGAGAAGAAAAGC
SEQ ID NO. 1676	nhs-1678	AATGCGCAGGTTAAGGATGTGGAAGAGAAGTATAGC
SEQ ID NO. 1677	nhs-498	CATAGCCAGTTCATCAAACTGGTGGCCGAGAAACGT
SEQ ID NO. 1678	nhs-502	AAAGATGTGTTAGACGAACTGAAAAACTACATTAGC
SEQ ID NO. 1679	nhs-1750	AAAAAAACCATCGCCGCGGAAGATGTTTTAAATGAT
SEQ ID NO. 1680	nhs-466	GAAGAAGCGAAGATCATTAAACAGTACGTTAAAAAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1681	nhs-1757	GTGACCGCGGTTAAGGATAGCTTTGAGCGCCATCTG
SEQ ID NO. 1682	nhs-462	AAAGGCACCCAAGGTGAACGTATTGTTGAGGATTAT
SEQ ID NO. 1683	nhs-1764	GGCACCCATACGAAGGAACTGGATTTATGGAAGAGC
SEQ ID NO. 1684	nhs-1668	TATGATGAAATCAAGGATGTGGTGACGAAGCTGAGC
SEQ ID NO. 1685	nhs-506	CAGGAATATGTTCGCGAAACCATTGACAAGCTGATG
SEQ ID NO. 1686	nhs-456	AAAGATCATTTAGACCTGCTGAGCAAGTCTGCGTAT
SEQ ID NO. 1687	nhs-1664	AAAGAAAGCATCAAGAAAGCGCTGGAGTTAACCATG
SEQ ID NO. 1688	nhs-449	GATGGCCTGGAGGTTGCGAAAACCATCCGCAAAACC
SEQ ID NO. 1689	nhs-447	CATGATAGCATCAAGATGTTTATTAAAAACGCCAAA
SEQ ID NO. 1690	nhs-1794	TTTAAAAATATCGACGATCTGAATAAGGTTCTGAAA
SEQ ID NO. 1691	nhs-444	CCGCAGGATATCCAAGCGTTTCGTGAGTTAGATAAA
SEQ ID NO. 1692	nhs-443	CTGAAAGAAAAGGAGAATAATGATTCTTCTGATAAA
SEQ ID NO. 1693	nhs-1658	CGTGATAAAGTTAACGATATTGTGGACCAAGTGATT
SEQ ID NO. 1694	nhs-1807	CGTAAACAGTTCGAGAAAACCATGGAAACGTCTAGC
SEQ ID NO. 1695	nhs-1643	CAGGATAAATTAGACAAAATTATTCAACGCACCCGT
SEQ ID NO. 1696	nhs-1817	GAAAAAGAAACGAAGGAAATGGTGGCGTTCTTAAAT
SEQ ID NO. 1697	nhs-879	ACCAAAGATTTAAAGAAACTGATTTGGAACGAGATT
SEQ ID NO. 1698	nhs-522	ACCAAAGAACGCGAGCAGGTGATTGCCCACCTGGGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1699	nhs-1820	AATGAAGAATGGGACTTACTGATTAGCGGTAAGAAA
SEQ ID NO. 1700	nhs-1652	GAAACCACCGAGCGCCTGCTGAAACAAGCCGTGGAA
SEQ ID NO. 1701	nhs-2817	GATAGCACCCGCCAACGTATTGTGGAGTTAGCGCAT
SEQ ID NO. 1702	nhs-540	GATCGTGATACGTTAAAAAATCTGGGTGACCGTCTG
SEQ ID NO. 1703	nhs-1075	CTGGCGCATTTACGCGCGCATCAGCGCACGCATACC
SEQ ID NO. 1704	nhs-1077	CTGGCGGAAGTTTCTCAGCGTCATGCCGAGAAACTG
SEQ ID NO. 1705	nhs-1082	GCGGCGAGCTTCTTAACCCGTATGAAAGAGAAGCAT
SEQ ID NO. 1706	nhs-774	GCGGATCGTGAGAAGCAGATTATTACGCACCTGAAT
SEQ ID NO. 1707	nhs-766	ATGGAAAGCACGTTCGAACGTATTAAGGAGCTGAGC
SEQ ID NO. 1708	nhs-1111	GAACTGCAGCGCTTATTTCGTGATGCCCACATGACC
SEQ ID NO. 1709	nhs-1116	GAACATCGTGCCTTACGTAAAGTGGTTTCTAGCGCG
SEQ ID NO. 1710	nhs-1117	GGCGAACAGCGCAAGACCTTTGTGGAGTTAATGCGT
SEQ ID NO. 1711	nhs-1125	AGCGAAAAAATCCAAAAAGAAGTGGAGTCTCTGATT
SEQ ID NO. 1712	nhs-1127	ATTAGCAAAGTTCGCGAAATGCAGAAATGGTTAGAA
SEQ ID NO. 1713	nhs-1130	ACCCAGGAACGCGACCGTCTGATTGACGACTTTCGT
SEQ ID NO. 1714	nhs-1133	GATGCGCAGCGCCAAGCGACCAAAGACGCCGGCCGT
SEQ ID NO. 1715	nhs-1149	GAAGATCGTATGGAGTTATATCAGACCCGCTTAAGC
SEQ ID NO. 1716	nhs-1150	ACCAGCGAATTACGCGAAGCGATGCGTAAGTTACTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1717	nhs-1152	ACCGTGGAAGCCTACAAAACCATTGCCCGCGAAGAA
SEQ ID NO. 1718	nhs-1174	AAAGCGAGCTTAAACTGGCATATGAAAAAACACGAT
SEQ ID NO. 1719	nhs-1182	GATGATGTGAAGTCTATTGTGCGTTTCGTTCAGGAA
SEQ ID NO. 1720	nhs-1197	CCGACCGTGCGCGAGCTGAAAGAAACGTTAGAAAAT
SEQ ID NO. 1721	nhs-729	GAAAATGTGACGGAGCTGAAAAAAAACTTCAATCGT
SEQ ID NO. 1722	nhs-1208	CGTCATGATATCTTAAGCGCGTTTGACACGCGTATT
SEQ ID NO. 1723	nhs-719	ACCGATAGCCGCAACGTGGATGATTACGTTCGTAAA
SEQ ID NO. 1724	nhs-1212	CGTGAAGGCTACGAGAAACTGAAACAAGAGCTGAAT
SEQ ID NO. 1725	nhs-714	ATTTATCAGCAAGTTCGTGATGAATTAAAGCGTGCG
SEQ ID NO. 1726	nhs-1074	AGCGATCATTTAGCCGAACATCAGCGCACGCATACC
SEQ ID NO. 1727	nhs-1068	CATTGGGGCGACCGCAGCGCGGATATGGCCACGCGT
SEQ ID NO. 1728	nhs-782	AAAAGCGGCCAATTACTGCATGAATTATTAAAAGAA
SEQ ID NO. 1729	nhs-791	GAAGCGCTGTCTAAGCTGCTGGAACGCATCAAACAG
SEQ ID NO. 1730	nhs-881	CGTGATCTGACGGACCTGATGGCGAAAAACATGGAA
SEQ ID NO. 1731	nhs-865	CGTTATGATACGTTAGTGAGCGTGTTAGAGCGTGAA
SEQ ID NO. 1732	nhs-882	CAGAAAGAAATCGACCGTCTGAATGAGGTTGCGAAA
SEQ ID NO. 1733	nhs-848	GAAAGCCTGGTTGAGAAAGTGAAAGAGTTCCTGAGC
SEQ ID NO. 1734	nhs-845	AAAGAAGATGCCTTAAAACTGGTGCAATTAAAACAG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1735	nhs-939	GTGGAACAGTTACGCAAAGAAGGCAACGAGCTGTTT
SEQ ID NO. 1736	nhs-953	AAAACCCAGATGCAAGAGAAAGCGAAAGAGATCTAT
SEQ ID NO. 1737	nhs-833	CTGAATACCAAGGTTGAAGTGCTGCGCGAGGTGGAA
SEQ ID NO. 1738	nhs-967	CAGCTGAAATCTGTTATTAAAAAATACCGCGAAGAA
SEQ ID NO. 1739	nhs-969	ACCAGCAAATGGATCGACGATGTGCGTACGGAGCGT
SEQ ID NO. 1740	nhs-826	AAAGATGAAATCGACAGCAAACTGGTTAACTTTATT
SEQ ID NO. 1741	nhs-1233	AGCGATATGCGTACGGAGATTATTCGTATGATGGAA
SEQ ID NO. 1742	nhs-822	ACCACCAAATGGATCGACGATGTGCGTACGGAGCGT
SEQ ID NO. 1743	nhs-980	GAAATTCATTTAGAGAATATGCTGAAAATCACGCGT
SEQ ID NO. 1744	nhs-986	CGTCTGGATTTAGACTTTCATCAGCGCGTTCATACC
SEQ ID NO. 1745	nhs-987	AAAAGCCAGTTAATCATTCATGAACGCATCCATACC
SEQ ID NO. 1746	nhs-988	AGCGTGGAACGCTACATTGTGAGCCGCTTACGTGAT
SEQ ID NO. 1747	nhs-1003	AAACATGATGTTGAGACCTTTCGTCAATTAATTGGC
SEQ ID NO. 1748	nhs-1004	TATGAAAAAGCCCGCACCCTGATTGAGAAGGTGAGC
SEQ ID NO. 1749	nhs-1010	GAACTGAGCGACCGCGTGCTGCGTGCCGCCAAACAG
SEQ ID NO. 1750	nhs-1011	AAAGATCAGTTAATGGAGAAATATCGTAAGATCACC
SEQ ID NO. 1751	nhs-1021	CCGGAACGTGAGTTAACCGAAACCCGCGAGAAACTG
SEQ ID NO. 1752	nhs-799	GAACTGAAAGAGTTAATTCGTAAACACCAAAATGAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1753	nhs-1025	TTTGATGATATCAAGAAAATTATTTCTAAGCAGCTG
SEQ ID NO. 1754	nhs-979	ATTACCCGTGACTCTGTGATTCGTATCGCCAAAGAT
SEQ ID NO. 1755	nhs-1616	TGGAAAGATGCCATCAAAGAAATGAAACAAACGATT
SEQ ID NO. 1756	nhs-1234	GAAAGCGCGGTTCGCGTGGTGGAACGCTTAAATCGT
SEQ ID NO. 1757	nhs-1279	GATCTGAAAGCCTTAAGCAGCGCGTTACACGAACGT
SEQ ID NO. 1758	nhs-1486	GTGGATCGTGGTACGGAACTGCTGGAGCGCAGCCTG
SEQ ID NO. 1759	nhs-1488	GGCGAAACCCACCGCCATCGTAAACAAATGTTCATG
SEQ ID NO. 1760	nhs-1495	AAAGAAACCGAGAACAAAATTATTAAGGACTATAAA
SEQ ID NO. 1761	nhs-603	AAAGATAAATTATTAAGCTTTCTGGACACGCATCTG
SEQ ID NO. 1762	nhs-601	GAAATTGCGAAGGAGACCCAGGCGCGCGTTCTGGAA
SEQ ID NO. 1763	nhs-1504	TATACCGAACGCGACCGTATTCAGCGCGAGCGTCTG
SEQ ID NO. 1764	nhs-596	GATACCGAACGCGCCCAGCTGGATGTTATGAAGCTG
SEQ ID NO. 1765	nhs-1512	CTGACCCTGTTAGAGAAAACCCTGAAGGAGCGTCTG
SEQ ID NO. 1766	nhs-586	CGTAAAATTACGGACGATCTGGTGAAGAACGTGGAA
SEQ ID NO. 1767	nhs-1519	CAGGAAACCATCAAGCATGTGAAAGACTTAATTGCG
SEQ ID NO. 1768	nhs-584	ACCGATGTGGACCAAAAAGTGGATCAAGTTGCGCGT
SEQ ID NO. 1769	nhs-576	AGCGATATTACGGACGAACAGAAAAAGGTTCGTGAA
SEQ ID NO. 1770	nhs-1556	GAAAATAGCCGCGTTCTGGTGAAAAAGTTAGCGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1771	nhs-569	ACCGATACCGCCTTAAAAGAACTGGAGAAGGTGACC
SEQ ID NO. 1772	nhs-566	CATAAATTTATCGACACCATTACCGACCACATGACC
SEQ ID NO. 1773	nhs-1567	GATGAAACCTTAGCCAAAATTAAAAAGGCCTGGAAT
SEQ ID NO. 1774	nhs-563	AAAGGCACCCAAGCCGATCGTATTGTTGAGAAATAT
SEQ ID NO. 1775	nhs-561	ACCGGCCGTATCTACAGCGATGTGTTACGCAAAGAA
SEQ ID NO. 1776	nhs-1573	AATGAAGATTTCGTTCGTCTGAGCACGGAGGCGCGT
SEQ ID NO. 1777	nhs-550	CCGCGTTTTCAAGAGCTGAAAAGCGAGACGCTGAAA
SEQ ID NO. 1778	nhs-1588	GCGCGTGCGCAAGCCAAACAGCTGGAGCACCTGAAA
SEQ ID NO. 1779	nhs-545	GAAGTGAGCATCAACGATGCGCGTGTTCGCGCGCGT
SEQ ID NO. 1780	nhs-1599	GAATTTAAATTAACGAGCGCGATTAAGAAGGAACTG
SEQ ID NO. 1781	nhs-1472	AAAGAAACCTCTGACCTGCTGCGTAAGATCGCGGCG
SEQ ID NO. 1782	nhs-1468	GAACATACCTCTGACCGTAAACTGTTAGCCAAAGAA
SEQ ID NO. 1783	nhs-1450	AAAGATAAAACGAAGGGCGATGCGATCGACCTGAGC
SEQ ID NO. 1784	nhs-1449	GAAACCGCGACGCGCGATCAGCTGACGAAGGAAGCG
SEQ ID NO. 1785	nhs-1285	CCGGAAGATAAGACGACCGTGCATCGCAAGTGGAGC
SEQ ID NO. 1786	nhs-1294	ATGAATGAAGGTGCCCGTCATATGCGTGAGTTCACC
SEQ ID NO. 1787	nhs-688	CGTGAAAAAGACTTAAGCTGGATTACCCAACACGCG
SEQ ID NO. 1788	nhs-1302	GATCAGGTGAAGGAGGAAATGAAAATTTTAGTTCAG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1789	nhs-1313	GAAGATGATTTAACGAAAGTGCTGAACTACACCAAA
SEQ ID NO. 1790	nhs-678	GAACGTGCGAACGAGCTGGTGGAATCTTACCGTAAA
SEQ ID NO. 1791	nhs-677	CGTACCAGCATCGACCATCTGAAAGAGATCGCGCGT
SEQ ID NO. 1792	nhs-1316	AAAGATGATTTAGCCCGTATTATTACGGCCGAAAGC
SEQ ID NO. 1793	nhs-674	AGCAAACTGTTACGCGATAGCCATGTTTTACATAGC
SEQ ID NO. 1794	nhs-1322	GCGACCGATTTAAAGGAAACCGCGAAGAAGCTGCTG
SEQ ID NO. 1795	nhs-1333	CGTACCACCCGCGAGCTGGTGGGCGACTTACTGGAT
SEQ ID NO. 1796	nhs-1242	AATAGCACCATCGACAAACGTGTGGAGCGCCTGATT
SEQ ID NO. 1797	nhs-667	CCGAGCAAATACCGCGATGAACTGACGGCCAAACTG
SEQ ID NO. 1798	nhs-1339	GAAAAAGAATACAAGGAACTGCGTAACGCCATTAGC
SEQ ID NO. 1799	nhs-1352	GAAAAAACCTTACGCGATAAACTGGTTTTAGCGACC
SEQ ID NO. 1800	nhs-1368	CTGTTTGATCGCTTAGATGAACATGCCCGCCAGAAT
SEQ ID NO. 1801	nhs-652	CTGGATACCGACTACCAGATGACCAAAAAGGACATG
SEQ ID NO. 1802	nhs-1859	CGTAAACATGAGCAAATGTTTCGTGAAGCCGTTAAT
SEQ ID NO. 1803	nhs-1412	AAAGAAAGCTTAGAGGCGCTGGATGCCGCCAAAACC
SEQ ID NO. 1804	nhs-1416	CATGATGTGTACCGCGATGAAGCGTTAAACAATCGT
SEQ ID NO. 1805	nhs-1436	GAAAAAGATATCGAGAATTTTATGAAAAACGAGAAA
SEQ ID NO. 1806	nhs-636	GATTTTAATTTACGCACCCATGTGCGCATCCATACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1807	nhs-631	GCGACCCAGGTTGAGGAAAAACTGCGCGCCGAATAT
SEQ ID NO. 1808	nhs-629	AAAGTGACCCACTTCGAACGTCTGCACCACAAAACC
SEQ ID NO. 1809	nhs-1336	AAAGAAGAATTAGAGCTGGCGAATTGGATCTCTAAA
SEQ ID NO. 1810	nhs-411	CATGATATTTACCGCGATGAAGCGTTAAACAATCGT
SEQ ID NO. 1811	nhs-1819	CGTGATGAATTAAACGCGTATAAATCTAAGCTGAAA
SEQ ID NO. 1812	nhs-2331	ATTGAAAATGTTAAGGCGAAAATTCAAGACAAACTG
SEQ ID NO. 1813	nhs-2592	CCGGAAGATAAGGTTAAAGCGGTGACGAAGCTGAAT
SEQ ID NO. 1814	nhs-291	AAAACCGTGGAGGAGATTGATCAGAAGTTAAAAAGC
SEQ ID NO. 1815	nhs-2576	AAAGATCGTTTAGTTGAAAGCGTGCAAGACGTGCTG
SEQ ID NO. 1816	nhs-105	AAACAGGAACGCACGCTGTTTAAAGAGTTAATTAAA
SEQ ID NO. 1817	nhs-106	GAAAAAGTGGTTTCTGAACTGAAACAATTAGCGGAA
SEQ ID NO. 1818	nhs-2562	CAGGAAAAATTAGACGCGATGGTGGAACGCACGCGT
SEQ ID NO. 1819	nhs-2155	ATGAAAACCCGCTTCAAAATTCAGCACGCCACCGAA
SEQ ID NO. 1820	nhs-279	CAGTATATTGAGGGTGAAATGCGTACCCGCATCCGT
SEQ ID NO. 1821	nhs-2158	AGCGTGACCCGCGTTAAAATTGCGTTAGAGGAAAAA
SEQ ID NO. 1822	nhs-275	ATGCGTGATGCCTCTCAGTGGATTAAACGCATGGAA
SEQ ID NO. 1823	nhs-109	CGTAAAGATCGCGACACCGCGCGTCAATTACATGAA
SEQ ID NO. 1824	nhs-2537	CATGAACTGAACTCTAAAATTAAAGACTTAGAAACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1825	nhs-2536	GATGGCACCCGCTTACTGGATAGCATCCGCGATCTG
SEQ ID NO. 1826	nhs-2179	CTGATTGATGTTTACAAAAAAACCTTAAAGAGCGAT
SEQ ID NO. 1827	nhs-2535	AAAGAACGTTTAAAGGAACTGATTTTCCAAGAAACC
SEQ ID NO. 1828	nhs-2533	AGCCGTATTAACGAGGCGCGTAAAGAGGTTGAAATG
SEQ ID NO. 1829	nhs-2185	CCGGATGATATCGCCGAACTGAAAACGCGCCTGACC
SEQ ID NO. 1830	nhs-96	CATCTGGATCAATTAAAAGAAATTATGAAGGTTACC
SEQ ID NO. 1831	nhs-2128	CGTGAAATGGTGGACCAAATTAATCGTGTTGCCCGT
SEQ ID NO. 1832	nhs-2423	CATAGCAAATACCGCGAAGAAGCGATGCAAAACCGT
SEQ ID NO. 1833	nhs-2605	GCGGATACCATCAAGAAACTGACCGACAAGATTAAA
SEQ ID NO. 1834	nhs-2020	AAAATTGTGGAGTTAGAAAATGAATTCTTAAAAAGC
SEQ ID NO. 1835	nhs-2639	CTGGATGATTTCAACCGTGAAATTGTTAAGCAGCTG
SEQ ID NO. 1836	nhs-2034	ATTAGCAGCTACAAGGAAAAACTGGAGAAGGAACAT
SEQ ID NO. 1837	nhs-2637	CTGCGTAAACAATTAAGCCTGGATGTTTTAGATAAA
SEQ ID NO. 1838	nhs-2037	CGTGAAGAATTCACGAAAAAAGTGCGCACGAATGCG
SEQ ID NO. 1839	nhs-2631	AAAGAAGAAAAGTCTGCGATTCGTGACTACACCAAA
SEQ ID NO. 1840	nhs-2054	CTGGATAAAGTTTTAAGCAAACTGTCTGAGAAATAT
SEQ ID NO. 1841	nhs-2056	GAAAAAACCGCCGAGGATTTTACCCCAACGGTGCGT
SEQ ID NO. 1842	nhs-2531	AGCATTGATAAGTCTGAACTGCTGTACAAGGTGGAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1843	nhs-317	AAACGTATTATCAAGGAAACCGAAAAGTTAGTGAGC
SEQ ID NO. 1844	nhs-314	ACCGCGGAAGAGTTCGCGAATCGTTTATCTAAAGAT
SEQ ID NO. 1845	nhs-312	CTGGATAATTTACGCGATACCGTGCGCAAGTTTCTG
SEQ ID NO. 1846	nhs-2621	GAAAAAGCGAAGAACCGTCTGAATACGGAGCTGTAT
SEQ ID NO. 1847	nhs-2619	GCGCCGGAACACACGCGTCTGCGTAAGTTAGTGACC
SEQ ID NO. 1848	nhs-2614	CAGCATAGCGCCGAGCTGATTAAACACTTAATTAAA
SEQ ID NO. 1849	nhs-2610	AAAGAACAGAAGACGCAGCGTCTGATCTCTGAACTG
SEQ ID NO. 1850	nhs-2097	AAAGATCATTTCGTTAAACTGGAAACGATCGATAGC
SEQ ID NO. 1851	nhs-2101	CGTGAAATGCTGGCCTCTATTGATACCTTAAAGGAT
SEQ ID NO. 1852	nhs-2627	GCGGATGAAATCAAGACCGCGATTGACACGGCGCGT
SEQ ID NO. 1853	nhs-2192	CTGAGCGAAAAGGAGGCGCTGATTAAGCAAATTAAA
SEQ ID NO. 1854	nhs-2525	AAAGATCAGGAGATCAAAAAACTGGTTGACCAGAAT
SEQ ID NO. 1855	nhs-2521	GAAAATCTGAAGCGCTATGTGGAACGCATGGAGAGC
SEQ ID NO. 1856	nhs-2291	CAGAGCACCTTAGACAAACTGATGCGTGACTTAGAT
SEQ ID NO. 1857	nhs-2305	GCGAAAGATATCGCCGATGCGGTGCGCAAGACCAGC
SEQ ID NO. 1858	nhs-2480	GATAATGCGTTACGCAAAAGCCATCACGCCGGCATG
SEQ ID NO. 1859	nhs-2478	GATGAAGTGACGAACGGCATTGTGAAGGAGCGTCTG
SEQ ID NO. 1860	nhs-2320	AAAGATATTACGCAAAAATATCGTACGATCCTGGAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1861	nhs-2330	ATTGAAAATGTTAAGGCGAAAATTCAAGACAAAATT
SEQ ID NO. 1862	nhs-2333	AAAGATACCGTTGAGAAAGTGCGTCAAACGTTTGAA
SEQ ID NO. 1863	nhs-2361	GAAGATCGTGTTAAGGAAGTGGTGACGAAGTATAGC
SEQ ID NO. 1864	nhs-2289	CAGATGGAACGCGTTCGTACCCTGACGGACGTGCGT
SEQ ID NO. 1865	nhs-2476	CTGAAAGAACGCTACCAGAAAATTGGTGACACCAAA
SEQ ID NO. 1866	nhs-2383	AGCAAAGAAAACATGTCTCTGCTGAAACACTTAAAA
SEQ ID NO. 1867	nhs-2451	AAAGGCACCCAAGCCGAACGTATTGTTGAGAAATAT
SEQ ID NO. 1868	nhs-2450	AAAGGCACCCAAGGTGAAAAAATTGTTGAGGATTAT
SEQ ID NO. 1869	nhs-2388	CGTAAAGAATCTCACCTGGAAAAACAAAAGATTGAT
SEQ ID NO. 1870	nhs-2445	GCGAGCGCGGACGCCGAACGTCTGCACCGCAGCATG
SEQ ID NO. 1871	nhs-2408	AAAATTGGCAAGGAGCATATTAATCGCATCACCAAT
SEQ ID NO. 1872	nhs-2436	AAAGAAAGCTTATTACGTGAAGTGCAATTACTGAAA
SEQ ID NO. 1873	nhs-2412	CGTGTGCGTAACCAATTTCTGAAAGAGATGGACGGC
SEQ ID NO. 1874	nhs-2382	CGTGCGGATATCATGACGAAACTGAATGAGGACTTT
SEQ ID NO. 1875	nhs-2643	AGCCGTGGCCGCGACCTGCTGACCGACTGGTTAAAA
SEQ ID NO. 1876	nhs-225	CCGGATCGTTTAGCCCAGATTGTGGAGCGCACCCGT
SEQ ID NO. 1877	nhs-2492	AGCGATAAATTACAAAAAGAAGTGGAGGGTCTGGTG
SEQ ID NO. 1878	nhs-2519	CCGAAAACCCAATTACTGCATTTTATCCGCGAAGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1879	nhs-2221	AATGAATATCGCCACCTGCAGCATTCTATCAAAGAA
SEQ ID NO. 1880	nhs-123	AAATGGGTGCAAGACAGCATGGATCATTTAGACAAA
SEQ ID NO. 1881	nhs-2223	CAGTTTGAATTATTAGAACGTGCGAACCACAAACTG
SEQ ID NO. 1882	nhs-2232	GATATGCGTACGGAGGTGATTCGTATGATGGAGAGC
SEQ ID NO. 1883	nhs-2250	AAACAGCGTGAGGTTCTGCTGAAAACGTTATATCAT
SEQ ID NO. 1884	nhs-2252	CGTGAAACCATGTTAGAGGTGGTGGAACGCACGGCG
SEQ ID NO. 1885	nhs-2258	GAAAATGAAGCCTTCAAAATTGATACGCGCATTGGC
SEQ ID NO. 1886	nhs-226	GCGGAAACCATCGACAAACTGGTGGAGCGCACCCGT
SEQ ID NO. 1887	nhs-2514	AAAGTGGATATGGCCCGCGAAATTAGCAAGCAACTG
SEQ ID NO. 1888	nhs-2513	CAGCGTGATCGCGAGGAAGCGCTGCACCAATTTCGT
SEQ ID NO. 1889	nhs-2264	TATGATGAAATGGTTGAGACCATGCGTAAAATCAGC
SEQ ID NO. 1890	nhs-233	AAAAGCGAAAAGGAGGCGATTGTGTCTTACACCAAA
SEQ ID NO. 1891	nhs-129	GATGCGAAAGCCCGCGATGTGGTGAACCGCCTGACC
SEQ ID NO. 1892	nhs-232	GATGATGTGCAAAAGGTGTTTCAGGTTGCCAAAGAA
SEQ ID NO. 1893	nhs-231	AAAAAACAGGACGACAATCTGGAACACTTCATTAGC
SEQ ID NO. 1894	nhs-2505	AATGTGACCTTCCGCAAAGAACTGGAGAAGATTCTG
SEQ ID NO. 1895	nhs-2498	ATTCAGGGCAAGGTTGATGAAGTGTTCCGCAAACAG
SEQ ID NO. 1896	nhs-236	GAAGATAAAGCCGTTGAACTGTATTCTCGCACCGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1897	nhs-2649	GATGAACAGCGCAAGCTGCTGAAAGAGGCCCAGGCG
SEQ ID NO. 1898	nhs-93	CCGACCATTATCAAGGATCATCTGAAGAAGGCGAAT
SEQ ID NO. 1899	nhs-2727	GAACTGAAAAAGTTAGAACTGCTGCGCCAAAATGCG
SEQ ID NO. 1900	nhs-1948	GAAACCATTAAGTTACTGGAAAAAATCTTAGAAAGC
SEQ ID NO. 1901	nhs-1949	ACCGATAATGTTGTTGAAAAACTGCGCAAGAAATAT
SEQ ID NO. 1902	nhs-36	GTGGATGAAGCCTTAAAAGATGCGCAAACGCGTATT
SEQ ID NO. 1903	nhs-370	AAAGTGTTTGAGACGCTGGAAGCGCGCATGACGGAA
SEQ ID NO. 1904	nhs-1952	GCGCGTGATGTTTTAGATAATCTGTTCGAGAAAACC
SEQ ID NO. 1905	nhs-1957	CCGGTGCTGGACCGCGTGCTGGAAAACAACCATCGT
SEQ ID NO. 1906	nhs-1946	GATTTTAGCAACCAACTGCGTGCGGAGTTAGAAAAA
SEQ ID NO. 1907	nhs-367	GATAAAGAACGCTCTATTATTAGCGACATCTTTAGC
SEQ ID NO. 1908	nhs-363	GAAGAACATACGTACCTGCATGCGCAACGCCAGAAA
SEQ ID NO. 1909	nhs-362	CGTGATCTGCGCAAGGCGATGCAGCAGACGTTAGAA
SEQ ID NO. 1910	nhs-1963	AAAAGCGAATTAGACGCGTATACCAAGAAGCTGGTG
SEQ ID NO. 1911	nhs-360	GAAAAAGATCGCAACGATCTGATTACGTACCTGAAA
SEQ ID NO. 1912	nhs-45	ACCCGTAAATTATCTGAAACCGTGTTAGAGGATGTG
SEQ ID NO. 1913	nhs-2705	GATGAAATGGTGGAGACGATGCGTAAAATTTCTGGC
SEQ ID NO. 1914	nhs-1958	AGCGATAAAATCAAGAAATTTCTGACGGAGAGCCAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1915	nhs-357	AAAGAAACCAAGGCCCTGGCGGATTTCATCCGTAAT
SEQ ID NO. 1916	nhs-31	CTGAGCGAATTAGAGAATTTTAAAAAGGAGCTGGCG
SEQ ID NO. 1917	nhs-2753	CGTGTGGAAAAGACGCTGGAACTGATCAAGCAGGCG
SEQ ID NO. 1918	nhs-2810	CATGAACAGAAGACGCGTTATCTGCCACGCGTGGCG
SEQ ID NO. 1919	nhs-2809	AAAGATGTGTACGAGAAAACCGAATCTATCATGGGC
SEQ ID NO. 1920	nhs-2807	TATAGCCATCGCGCCGCGCAGCGTGAGCGCCTGGCG
SEQ ID NO. 1921	nhs-6	AGCGATCATTTAACGACCCATATTCGCACGCATACC
SEQ ID NO. 1922	nhs-10	CCGAGCGGCACGTTCGTGCGTGAAAAGATCCGTGAA
SEQ ID NO. 1923	nhs-2784	AATGATAAACGCGTTCATCGTCTGTTAACGGTGCTG
SEQ ID NO. 1924	nhs-2733	GCGGATGAATTATCTAATGCGAAAAAGGTTCGTGCG
SEQ ID NO. 1925	nhs-2773	ACCGAAAAAGCCTGGGAGGTGCTGACCAAGGCCCGT
SEQ ID NO. 1926	nhs-1893	ATTATTGATAAGTTATATGAAAAAGTTTCTAAAAAT
SEQ ID NO. 1927	nhs-1899	GAAAAAAGCTTAACGGATGCGGTGAAGTTAGCGCAT
SEQ ID NO. 1928	nhs-383	GAAGATATTGCCCGCAAAGAACAGTTAAAGAGCCTG
SEQ ID NO. 1929	nhs-22	AAAAGCGATAAGGACGCGATTGTGAACGCCTGGAAA
SEQ ID NO. 1930	nhs-381	GAAAAACTGAACCAACTGTGGGAAAAAGCCCAACGT
SEQ ID NO. 1931	nhs-1933	CCGCTGGAATTCTTACGTGCGAATCAACGCAAACAT
SEQ ID NO. 1932	nhs-2770	ACCGATAGCGCCGAGGGCGTGCGTAAGTTCATTCGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1933	nhs-356	GAAGCGGATATCACGGCGATTAAACGCTTAAGCGAT
SEQ ID NO. 1934	nhs-2421	CAGGAAGATTTAGACAAAATTTTTATCAACGTGCGT
SEQ ID NO. 1935	nhs-2684	AGCAATCGTCACAAGGAATTTGAAAACCAAATTCGT
SEQ ID NO. 1936	nhs-2685	CAGAAAGAATTATTAGAAGTGATGGATCAATTACGT
SEQ ID NO. 1937	nhs-2678	CGTGAAGCGTTAGCCCGTCTGGAAACGTTAGATACC
SEQ ID NO. 1938	nhs-2660	AAAAGCCTGTTAAAGATTATTAATGACTACGAAGAA
SEQ ID NO. 1939	nhs-2691	ATTAATCATGCCATCCGTCAGGCGTACGAGGATAAA
SEQ ID NO. 1940	nhs-2662	GAAAAAGCGGAGAAGATTAAAAATTTATTCAATGAA
SEQ ID NO. 1941	nhs-2683	AAACATTTTCGCACGCGTGAAGTGGCCATCACCCAG
SEQ ID NO. 1942	nhs-1986	ATTAGCGCGCGCATCAAAGAAGAATTATTAAAAAAT
SEQ ID NO. 1943	nhs-1985	AGCAGCCTGAAGGACATTGATATTGCCCGCGAAAAT
SEQ ID NO. 1944	nhs-355	ACCCTGAAAGTTTTACGTCATCATCAAGAGAAACTG
SEQ ID NO. 1945	nhs-344	AAAGAAGATATCGCCCGTAAAGAACAATTAAAAAGC
SEQ ID NO. 1946	nhs-2665	ACCCTGGTGAAGGTTAAAGATGCGGAGGACCAGCTG
SEQ ID NO. 1947	nhs-2782	GGCGATCTGATCCGCGCGATTCAGGAGACGCATGATCGT
SEQ ID NO. 1948	nhs-1253	CTGGATAATATGCGCGAGGTGGTGGAACGCAACCGTGCG
SEQ ID NO. 1949	nhs-1024	CCGCATCAGGAGAAGCTGCTGAAAATCTTAGCGAAAACC
SEQ ID NO. 1950	nhs-1249	AAAATTACCCAAGACGCGGCGGAAGCCATCAAAAAATAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1951	nhs-1247	CTGGAAAAAACGCACGAACTGAAAGAGGTTCTGAATAAA
SEQ ID NO. 1952	nhs-2479	GATGCGACCAAGGCCGCGAATGATGCCTTACTGAAAGAA
SEQ ID NO. 1953	nhs-920	AATGGCCTGGAGCAAGCGAAAAAATTCCACGAAGCGGTG
SEQ ID NO. 1954	nhs-2776	CGTAGCGATGTTTTAGATGCGGCGGTTACGCGTAAAATT
SEQ ID NO. 1955	nhs-1262	GTGGTGGCGGACTCTATGCAGCGTCATGCCCGCAAATAT
SEQ ID NO. 1956	nhs-1235	GAAAGCGCGGTTCGCGTGGTGGAACGCTTAAATCGTCAG
SEQ ID NO. 1957	nhs-2611	GATCGTGATACGGAGACCCTGGTGCACTGGATCCGTAAA
SEQ ID NO. 1958	nhs-922	ACCGTGCTGGTTCACCGTGTGCATTCTTACCTGGAACGT
SEQ ID NO. 1959	nhs-2484	GAAGAATATTTAACGAGCCTGGGCCGCAAGCATCGTGCG
SEQ ID NO. 1960	nhs-1217	AGCTATGAATTAGAGCGTGTGGTGCGCCAACTGGAAAAT
SEQ ID NO. 1961	nhs-1214	GTGAATCATTTAGTTGATAATACCCGCAAGCTGGAAGAA
SEQ ID NO. 1962	nhs-996	GTGGAAAAAGCCGAGACCCTGCGTAAGTGGTTAAATGAA
SEQ ID NO. 1963	nhs-1032	CAGGATAAAGTTGTTGAACTGGTGGACATCATGCAGAAA
SEQ ID NO. 1964	nhs-2491	AGCATTCATCGCCACACCGTGGTGAAGTTAGCGCATACC
SEQ ID NO. 1965	nhs-924	GTGACCGATGTTACGACCAAAGCGAAGCAACTGAAAGAT
SEQ ID NO. 1966	nhs-2495	GTGGATGAAGTTCGCAAAATTTTTCGCCAACTGGCGAGC
SEQ ID NO. 1967	nhs-2497	GAAACCATTACGTTAAAAAAACTGGAGGAGTGGAAAAAT
SEQ ID NO. 1968	nhs-2638	CTGCGTAAACAATTAAGCCTGGATGTTTTAGATAAACTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1969	nhs-2504	GAACAGGCGGACCGCATTGTGAAATTCGCCAAAGCGAAT
SEQ ID NO. 1970	nhs-2764	GCGGATGAACGCGCCAAAATTAATCAAATCATTTTTGAA
SEQ ID NO. 1971	nhs-932	CGTTATCAGAAGGAGCGTATTGAAAACGTTGCGCGTGAA
SEQ ID NO. 1972	nhs-2482	AAAGATAGCGACGACGATCTGGTGTACCGCAGCCTGAAA
SEQ ID NO. 1973	nhs-2483	CCGGAAAGCGTTTTAAAAGTGGCGCACCACGCGAGCGAA
SEQ ID NO. 1974	nhs-1263	AAACATGAAGCCCAACGTCTGGAACAAGAGGCGCGTGGC
SEQ ID NO. 1975	nhs-917	AAACATCTGGTTGAGCAGCTGATTCGCGACCTGAAAACC
SEQ ID NO. 1976	nhs-1314	GAAAATAGCTTAAAGACCGCGCAGAAGGTTCATACCGAA
SEQ ID NO. 1977	nhs-2425	CCGCGTAATAACTTAAAACGTATTTTAAAGGAAATGGAA
SEQ ID NO. 1978	nhs-2651	GAAGATCAGATCAACAAACTGGTGGAGTTAGTGAAAAGC
SEQ ID NO. 1979	nhs-1019	GCGCAGGCGGACTTACTGAATCTGAAGCGCAAAGTGGAT
SEQ ID NO. 1980	nhs-2441	GATGAACAGCGCAAGCTGCTGAAAGAGGCCCAGGCGGAA
SEQ ID NO. 1981	nhs-2658	ATGGATATTACGATGTTCAAAGAAGATTTAAAGAGCCAT
SEQ ID NO. 1982	nhs-2443	GATGGCACCATCAAGAAATGGCAGGATATCGCCCGTAAA
SEQ ID NO. 1983	nhs-2444	GTGGATCGTATCAACGATCGTCTGCAAGCCATTGATACC
SEQ ID NO. 1984	nhs-1304	AAAGATGAAGTTGAGCGTAAAATGAAATCTTTACTGAAT
SEQ ID NO. 1985	nhs-1303	GTGGAAAGCTTAAACCGTGCGGATCGCGAGGCGCAGGCG
SEQ ID NO. 1986	nhs-2806	CCGACCGTGCGCGAGCTGAAAGAAACGTTAGAAAATAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 1987	nhs-2647	CCGAAAGAATTATTAGATCGTGCGACGACGCTGCTGGAA
SEQ ID NO. 1988	nhs-889	GAAGAAGCGTTATCTAAACTGCTGGAGCGCATTAAACAG
SEQ ID NO. 1989	nhs-2805	AAAACCGAATTAATCCAGAAAGCGAAGTTAGCGGAACAG
SEQ ID NO. 1990	nhs-1209	GAAAAACTGAACCAACTGTGGGAAAAAGCCCAACGTCTG
SEQ ID NO. 1991	nhs-2455	ACCAAAACCATCGCCATTTATGATAAGTTAAAAGAACTG
SEQ ID NO. 1992	nhs-2463	CCGGATTTTCGCGACGAACTGACCCAAGCCGCGAAAAAA
SEQ ID NO. 1993	nhs-2799	CTGGATTTTAAGAAGGAACTGGAACAAAAGGTGAAACAG
SEQ ID NO. 1994	nhs-897	GTGGAAGTGAAGTCTGTGGTGGATTTCATCCAGAAACAT
SEQ ID NO. 1995	nhs-1293	AATGAAATTCGCAAGAAAATTTATCAAAAGATTAGCGAA
SEQ ID NO. 1996	nhs-1292	ATTAGCAAAGTTCGCCATATGCAGGAATGGTTAGAGACC
SEQ ID NO. 1997	nhs-1291	GAAGATGTGCGCGAGAAACTGCAGGCCTCTCTGAAAAAT
SEQ ID NO. 1998	nhs-2469	CCGAAAGATCAAGAGATTAAAAAATTAGTTGATCAGAAT
SEQ ID NO. 1999	nhs-2472	GATGAACATAAGTTACTGTTTCGTGTTTTAACCAATCTG
SEQ ID NO. 2000	nhs-1272	ACCACCAAAGAGTTAATTAAAAAATTAGCCGAAATTAAT
SEQ ID NO. 2001	nhs-904	AGCGAAGATGTTGACATTATTTTTACGCGCCTGAAAGGC
SEQ ID NO. 2002	nhs-1270	GAAGATTTTGTTAAGGCGCTGAGCGACGCCAAACAGCGT
SEQ ID NO. 2003	nhs-2790	ATGAAAGAAACGCAAGAAATGCTGGATTTCGCCGCGAAA
SEQ ID NO. 2004	nhs-1267	CATCTGACCCGCGCCGTGGATCGTGCCTTAGCGCGTAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2005	nhs-1265	GAAACCACCTTAAAGCGTCTGGGCGCCACGCATCTGCGT
SEQ ID NO. 2006	nhs-2461	CATAGCAAATACCGCGAAGAAGCGATGCAAAACCGTATT
SEQ ID NO. 2007	nhs-935	GAAGCGGCGCGCCAAGATGCGCAGCAATACCGTAAAACC
SEQ ID NO. 2008	nhs-1043	GATACCACCTTAAAGCGTCTGGGCGCCACGCATCTGAAA
SEQ ID NO. 2009	nhs-941	TATCAGAAAGAGATCGTGGATAAACACAACGCGCTGCGT
SEQ ID NO. 2010	nhs-1148	CATACCCAGGTTATCGAACTGGAACGCAAGTTTAGCCAT
SEQ ID NO. 2011	nhs-1063	GATGCGGAACGCGAGCGTTTTCGTAACTTAACCCAGGAA
SEQ ID NO. 2012	nhs-1145	AAAGTGCAGTTAAAGGAACTGGAACGCGAGTATGCGACC
SEQ ID NO. 2013	nhs-1064	CCGGAACAGAAGAAGGTGAATCAGGTTTTAAAAGAATTT
SEQ ID NO. 2014	nhs-2716	GAAAAAATTATCAAGGAATTTATTCAAAAGACCCTGACC
SEQ ID NO. 2015	nhs-1143	CATAAAACCATCGACCGTTTTATTGCCTTAACCAAAACC
SEQ ID NO. 2016	nhs-2556	GCGCTGAAAGACGAGGCGCTGAAAACGTTCGTGGAACAG
SEQ ID NO. 2017	nhs-977	CCGAAACTGACGGAGGCGCTGAAAGAGCAAGTGGAAAAA
SEQ ID NO. 2018	nhs-2625	AAAGCGGTGGAGCAAGTGAAAAGCGACTTCAATAAACTG
SEQ ID NO. 2019	nhs-2712	GTGGAAAGCTTACGCAAACTGGTGGACCACCTGATTAAT
SEQ ID NO. 2020	nhs-2569	GATCAGGATTCTAACCGTCTGAGCGACGCCCTGACCAAA
SEQ ID NO. 2021	nhs-2624	AAAGAAATGTATAACGAGATTATTCGTGTTTTAAAAAAT
SEQ ID NO. 2022	nhs-2578	GATGGCGATTTACGCGCGACCATTCAAGCCCTGCATCAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2023	nhs-2689	GTGGAAATGAAATCTGAGTTTCTGGCGACGAAGGCGAAA
SEQ ID NO. 2024	nhs-2582	GCGGAAACCTTAATGGACCGTATTAAAAAGCAACTGCGT
SEQ ID NO. 2025	nhs-1113	GCGGCGCTGGAGACGCATGCGCAGGCCTTACGTGAACGT
SEQ ID NO. 2026	nhs-2693	CGTGAAAAACGCGTTAGCAATGCGGTTGAGTTTCTGCTG
SEQ ID NO. 2027	nhs-2590	CGTGAACTGACGTCTCTGCTGAAAGAGTTACTGGAAATG
SEQ ID NO. 2028	nhs-978	ACCCATGAAGCCGTTCATCTGACCGCCCACGCGAAAGAA
SEQ ID NO. 2029	nhs-2707	CTGGATGAATTACAACTGTTTACCGACGCCATTCGTAAA
SEQ ID NO. 2030	nhs-1098	CGTGATAGCTTAGGTGCGCTGAGCAAGGCCCTGAAAGAA
SEQ ID NO. 2031	nhs-1095	AGCGATGAACGCGCCGCGGTGTATCGCGCCATTGAAACC
SEQ ID NO. 2032	nhs-2620	AGCAAAGGCGCCCAAGATCTGGCGCGCGCCATTAAAGAT
SEQ ID NO. 2033	nhs-1091	GATGAAATTCGCAACGAAGCGCATCAATTACTGAAACTG
SEQ ID NO. 2034	nhs-2704	CCGCGTACCAACGAGCGTATTTTTGAGTTACTGCTGCGT
SEQ ID NO. 2035	nhs-2616	CTGAAAGAAGCCGTTGAACTGGCGAAGTTCACCACCGAT
SEQ ID NO. 2036	nhs-1085	CATAGCCTGAACGTTAAACTGGTGAAGGAGCTGGCGAAA
SEQ ID NO. 2037	nhs-2697	CATAAAAATGTTATGCGCATGGTGAATCATGAGGTTAGC
SEQ ID NO. 2038	nhs-2583	CCGGAAAATGCCATCAAACGTGCGGACGAGCTGATTAGC
SEQ ID NO. 2039	nhs-2554	CTGAAACAGTTCAAGAATGATCTGAAGCACGTGCTGCAG
SEQ ID NO. 2040	nhs-2541	CAGCGTGTGATCTCTCATGTGGAAGCCGAGGCGAAAATT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2041	nhs-1154	ACCGATAAATTACGCGGCGAAGCGTTAGACCTGCAGCAT
SEQ ID NO. 2042	nhs-942	GATCGTGTGAACGAGGCGGCGCAGTTCGCCCGTAGCAAA
SEQ ID NO. 2043	nhs-943	AGCTGGGAAGCCCGCGCGCTGCTGCACACGCTGGAACAT
SEQ ID NO. 2044	nhs-2515	CATACCACCGTTCGCAATGCGCTGAAGGACCTGCTGAAA
SEQ ID NO. 2045	nhs-954	TGGGATGATCAACAAAAAGTGAAAAAGACGGCGGAAGCG
SEQ ID NO. 2046	nhs-1203	GAAAAAGCGTACCGCCAGGTGAATGAGTTACTGCATAAT
SEQ ID NO. 2047	nhs-2672	GAAGAAGATAAGGTTGCGGTGAAAGCCGCCGTGCAGAAT
SEQ ID NO. 2048	nhs-1199	CATCATACCGCCTCTGAAAGCTTTATGAAGCACATGCAG
SEQ ID NO. 2049	nhs-1198	AGCGCGCAGGTTCAAAAAGAAGAACAATTAAAAATTGAT
SEQ ID NO. 2050	nhs-2517	CTGAGCGATACGGTTCGTGTGAATCGCAAGATGCGTGAT
SEQ ID NO. 2051	nhs-2635	CTGGATGATGCCCGCGCGCTGACCACGCGCGCGAAAGCG
SEQ ID NO. 2052	nhs-2750	GCGGTGCAGAAGGAGAGCGATGAATACATCCTGGCGAAA
SEQ ID NO. 2053	nhs-1046	GCGGTGGAACGCACGCGTGAACTGTTCGCCAAAAGCCTG
SEQ ID NO. 2054	nhs-1047	GATACCCGTAACCGCCTGCTGGCGCAATTCGCGGATAAA
SEQ ID NO. 2055	nhs-1196	GAATTTGCGAAGGTTATTGTGCAGAAGTTAAAAGATAAT
SEQ ID NO. 2056	nhs-1189	GAACGTTATGTTGAGCAGCTGAAACAAGCCCTGAAAACC
SEQ ID NO. 2057	nhs-2731	CTGAAAGATAAGTTACTGCATAAACAATTCGCGAGCCAT
SEQ ID NO. 2058	nhs-1177	AAAAAAAGCTACGACGAAATTGCGGAGAAGCTGAATGAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2059	nhs-2634	GATAATGAAAAGAACGAATTTCAGTTAGTTCTGAATAAA
SEQ ID NO. 2060	nhs-1007	CAGGAAGCGATCCAAGCGGCGATTAAGAAGGTGGAAGAT
SEQ ID NO. 2061	nhs-2526	GAAAAACTGACGTCTCAGATTTATGAGGAGACCGTGAAA
SEQ ID NO. 2062	nhs-971	CATGATGTGCACACGCTGGTGCTGGGTCGCGAAATTACC
SEQ ID NO. 2063	nhs-1173	CAGGATCTGCGCAAGAAAATTGTGGACTTACATAAAAGC
SEQ ID NO. 2064	nhs-1171	GAACATGTGCGCAAGGTGTTTGATGAGATCCAGCAGAAA
SEQ ID NO. 2065	nhs-1168	AAAGAACAGTTAGCCGAACTGAAAGTTTCTTATCTGAAA
SEQ ID NO. 2066	nhs-1165	AATTGGCCGAAGACGCTGAAACTGGCCTTAGAAAAAGAA
SEQ ID NO. 2067	nhs-2630	ACCCATGGCTCTCGCATGGATTTTATTGTTAAGGAACTG
SEQ ID NO. 2068	nhs-2725	CTGACCGAATTCACGAATGAAAAAGACACGCTGAGCAAA
SEQ ID NO. 2069	nhs-976	CTGAATTATGTTAAGGAAAAACTGGAGGAGGTGCATAGC
SEQ ID NO. 2070	nhs-1155	GTGGAAGGCGTTTGGACGCTGAAAGATGAGATCAAAACC
SEQ ID NO. 2071	nhs-2761	AATGAAGATGTTGCCCGTACCAAAAAGATCATTCAGCGT
SEQ ID NO. 2072	nhs-2655	GCGGAAACCAAGAAGCTGCTGGATATCGTTGCGCGTAGC
SEQ ID NO. 2073	nhs-1866	GATTATATTTTAAAGAGCCTGCTGGAGTCTGCGGAAAAA
SEQ ID NO. 2074	nhs-2420	GATCGTATTGGTACGCATATGATTAATTCTGCCGAAAAA
SEQ ID NO. 2075	nhs-1666	AGCGAAGATGTTGTTGTGAGCAAAGTTGGTCGTGATCTG
SEQ ID NO. 2076	nhs-2014	CATAGCGAAACGGTTGCGAAACATGGTGCCAAACTGAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2077	nhs-2009	CTGGATAGCACGTTAGAAGCGGTGCGCAAGGCGAAAGAT
SEQ ID NO. 2078	nhs-1672	GTGGAAAGCAACTTAGATGTGGTGCGCCAAAAACTGGAA
SEQ ID NO. 2079	nhs-1674	GAACGTAATACGGAGAAAGTGCGTGACTACCTGGAAAGC
SEQ ID NO. 2080	nhs-2007	AATGATCGTTTAATCGCGACCCTGAAGTCTATGCGTGAT
SEQ ID NO. 2081	nhs-2005	AAAAGCACCAACCGCGATTATCTGGCCGAGCGTCTGCGT
SEQ ID NO. 2082	nhs-2004	CGTGAAGAATGGAAGGGTGGCGCGGAAACGAACAAAATT
SEQ ID NO. 2083	nhs-1681	AGCGCGGCGATCCACCGTCTGGTGGACACGAGCGAAAAA
SEQ ID NO. 2084	nhs-1665	CCGAAAGCGGGTGACGAATTTGTGGAGAAGACCCTGAGC
SEQ ID NO. 2085	nhs-2002	ACCCCGCGTAAGCGCCTGAAAGAATCTTTAGATCAGATT
SEQ ID NO. 2086	nhs-1694	GAACATAGCGCCAAGAGCCTGCGTTTATTACTGGCGGAA
SEQ ID NO. 2087	nhs-1992	CAGGAATTTCGCGAGGCGATTCGTAAGGCCCTGCTGACC
SEQ ID NO. 2088	nhs-1698	ACCAAAGATGCCGAGAAAGTGGTGTCTGAGATTAAAGCG
SEQ ID NO. 2089	nhs-1991	CTGGAAGGCTTAAAGGATATTACCCGCGAGGTGGCGAGC
SEQ ID NO. 2090	nhs-1703	GTGACCGATCGCATCGTGCGTACCTTACACGATCTGAGC
SEQ ID NO. 2091	nhs-1706	GATAGCAAATTAGTTGATAAAATTGCCAACGAAATTAGC
SEQ ID NO. 2092	nhs-1989	GAAGGCCATTTATCTCTGATGCGTCTGGCCCGCCAGCAT
SEQ ID NO. 2093	nhs-1717	CAGGAATATGTTCGCGAAACCATTGACAAGCTGATGGCG
SEQ ID NO. 2094	nhs-1718	CCGACCCGTAAGGAGGAAGTGGTGCGCGCCCTGAATAAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2095	nhs-1683	AGCGCGATTAAGGACGAACTGATTAAGACGCTGGATGGC
SEQ ID NO. 2096	nhs-2021	CGTGATGTGGACACGACCATGGAACTGTTAAAGCGTCTG
SEQ ID NO. 2097	nhs-2023	GTGGATACCACGCGCCATGTGGATGTTTTACATGCGTGG
SEQ ID NO. 2098	nhs-2029	GAAAAACTGAAGGAGACCGTGGTGAAGGCCGTGAGCATT
SEQ ID NO. 2099	nhs-2086	AAAAGCCGTTTATCTCATCAGATTACGCGCATGGAAAAT
SEQ ID NO. 2100	nhs-1621	AGCCGTCTGGAGGACGCGGTGAAAAAGACGGTGGCGGAA
SEQ ID NO. 2101	nhs-2085	AGCGTGGATACGTTAGCGAAACTGGCCCGCGAAAAACTG
SEQ ID NO. 2102	nhs-2084	GATGCGGATAAGACGCGTTATACCGCCTTAATTATTAAA
SEQ ID NO. 2103	nhs-2080	CCGGAACAGGTTATCGCGGAAGCGATCCGCAAAAAAACC
SEQ ID NO. 2104	nhs-2079	GAAACCACCTTAAAGCGTCTGGGCGCCTCTCATAGCAAA
SEQ ID NO. 2105	nhs-2078	GATACCAGCAACCGCCTGAAACAGATCATGGCCGAACGT
SEQ ID NO. 2106	nhs-2072	ACCAGCGATGTTATCAAAGATCTGATGGAGCGCATTAAA
SEQ ID NO. 2107	nhs-1629	CCGCGTCAGTTAAAGGAAATTCAGGACTTCGTGAAAGAA
SEQ ID NO. 2108	nhs-2061	GAAAAAGCGGCCCAAAAAGTGGTGTCTGAGGTGGAAGCG
SEQ ID NO. 2109	nhs-1632	ACCACCGGCGTTCACCGTCTGTATCAAATGGAGAAAGAT
SEQ ID NO. 2110	nhs-2059	GATCGTACCCAAACGGTGCTGCGTGACATCCGTGATGCG
SEQ ID NO. 2111	nhs-1637	GATGCGCAGAAGGAGAAATATCTGCCAAAGCTGGCGACC
SEQ ID NO. 2112	nhs-1644	CAGCATGGCTCTCGCTTTATTCAGCAAAAGCTGGAACGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2113	nhs-1650	GAAGCGGATTACATCGAACGTACCGTTTCTAAAGTGATG
SEQ ID NO. 2114	nhs-2044	CTGGATAAAATGCAACAATTTGTGACCAAGTTACATCGT
SEQ ID NO. 2115	nhs-2041	GATCTGAAAACGATCAAAAAAACCTTACAAGAACTGCTG
SEQ ID NO. 2116	nhs-1653	CGTGAAACCGTTAACAAAGCGCTGGCCGACTTTGCGCAT
SEQ ID NO. 2117	nhs-2038	TGGGATCAGTTATTAGATAATGTGGCCAAGCTGAAAAAA
SEQ ID NO. 2118	nhs-1659	GATGTGCCGGAGGCCCTGAATCGTACGTTAAAAGATCTG
SEQ ID NO. 2119	nhs-2036	GAAAAAGTGGCCGACCGTCTGAAATTCCAACTGGGCCAG
SEQ ID NO. 2120	nhs-1728	AGCACCGAAGTTGAGCTGAGCATGAAATTACGCGAATAT
SEQ ID NO. 2121	nhs-2106	CCGGATCTGCACTTAAATCGTGCGACGTTACATAAATAT
SEQ ID NO. 2122	nhs-1732	AGCCTGGAAGCCAAGGCGATTGTGGACAAGACCATGGAT
SEQ ID NO. 2123	nhs-1741	GAACATGGCAAGTCTATTGTGGAACACTCTAAAAAAATT
SEQ ID NO. 2124	nhs-1889	GCGCAGGATTTCCGCAAAAGCATGGAATTAGCCCGTGAA
SEQ ID NO. 2125	nhs-1888	GAACAGGATGTTAACGCGGCGCATGACCGCCTGGCGCGT
SEQ ID NO. 2126	nhs-1821	ACCGATCAGAAGGTTAGCGAAGCGAAGCGCGCGATGCAG
SEQ ID NO. 2127	nhs-1885	GTGAGCACCGTTCAACGTAGCGTGAAGAAGCTGCATGAA
SEQ ID NO. 2128	nhs-1828	ACCGAAAAAACGTTAAAACTGGTGAAGCAAGCGGAAAAA
SEQ ID NO. 2129	nhs-1829	GAAAAAACCGTTGAGCTGCTGCGTAACGTTCTGAAAGAA
SEQ ID NO. 2130	nhs-1831	ATTGATGAAGCCCGCCAGGAACTGCACCGCATTATTAAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2131	nhs-1883	CGTGATGCGCAAGCCGTGCAGCGTCAACGCGTGGCGGAT
SEQ ID NO. 2132	nhs-1879	ACCCGTGAAAAGTTAAATCGTATTTTATCTGAACGTACC
SEQ ID NO. 2133	nhs-1898	ATTTTTGCGTCTCGCACCCTGATTGACCGCCTGAAAGAA
SEQ ID NO. 2134	nhs-1834	GCGGATGCGCACTCTAATCTGGCGTCTATCCATAAAGAT
SEQ ID NO. 2135	nhs-1836	CGTCAGGAATACGAGGATATTGCGGTTAAGCTGGGCACC
SEQ ID NO. 2136	nhs-1839	CATCATGCGTGGCACCGCCTGCTGGATCAAGCCCTGAAT
SEQ ID NO. 2137	nhs-1848	AAAAGCTATAAGGAGCTGGTGACCTTATCTGCGGAAGAA
SEQ ID NO. 2138	nhs-1873	CCGAGCCGTGACCGCCTGCTGGCGCACTTAGGCACCGAA
SEQ ID NO. 2139	nhs-1851	ACCGAAAAAGCCTGGGAGGTGCTGACCAAGGCCCGTGCG
SEQ ID NO. 2140	nhs-1852	GAATATCGTAAGAAGCTGATGGATGGCTTAACGAATCAG
SEQ ID NO. 2141	nhs-1871	AAAGATAAATTAAAGAATCTGATTTGGATCCACGAAAAT
SEQ ID NO. 2142	nhs-1854	GAACAGTATCGCGAGCCGCTGCGTAACGCCCTGAAAGAT
SEQ ID NO. 2143	nhs-1868	AATGAAGAAAAGTCTTATAAAATTCCACGCGTGAATAGC
SEQ ID NO. 2144	nhs-1874	GAAAGCAATTTAAAGCGTCTGGGCGCCATCCATTTTAAA
SEQ ID NO. 2145	nhs-1812	GAACAGCTGGCCCGCAAAGCGGAAGCCCAAGCGAAAAAA
SEQ ID NO. 2146	nhs-1903	ATGGGCCATGCCGAGAAAATTGCGTCTGAGCTGAAAACC
SEQ ID NO. 2147	nhs-1906	CAGGAAGATACGTTCGCGGCGGAATTACACCGTCTGAAA
SEQ ID NO. 2148	nhs-1974	CTGGAAACCAACTTACGTAAACTGTTCGACAAACTGCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2149	nhs-1969	ATTAAAGAAACGCAAGAAATGGTGGATTTCTCTATTAAA
SEQ ID NO. 2150	nhs-1747	GAAAGCACCTTATACCCGATTCTGAAGAAGCTGGAAAAA
SEQ ID NO. 2151	nhs-1751	CTGAAAGAAGTTGAGACCAGCCTGTCTCGCTTTGAACAG
SEQ ID NO. 2152	nhs-1752	GAACAGGTGGCCAAGGAAGCGCAGAAGATCCTGACCAAA
SEQ ID NO. 2153	nhs-1766	GAAAAAGAAGGTTTAGAAGTGCTGTCTGCCATTCGTAAT
SEQ ID NO. 2154	nhs-1768	GAACGTGTGAAGGAGACCCTGCGTACGGTTAAAAAAGAT
SEQ ID NO. 2155	nhs-1773	GAAAGCGGCCAAAAGGAACTGCAGATCCGCTATGAAAAA
SEQ ID NO. 2156	nhs-1775	GAAAAAAGCTTACGCACCATGGATCGTTTAGTTCGTGCG
SEQ ID NO. 2157	nhs-1777	CAGAAAGATCGCGACATTTTTGTGAAGAAGGCGGAAAGC
SEQ ID NO. 2158	nhs-1940	GCGAAAGAATTAGCCGAACTGGCGAACCGCGCGGAAAGC
SEQ ID NO. 2159	nhs-1790	ACCAGCACCATCTTACGTGAAGTGGAGTTACTGAAAAAA
SEQ ID NO. 2160	nhs-1938	CAGGATGAACGCGACATTGCGGCGACGGTTCGTCAGTTT
SEQ ID NO. 2161	nhs-1934	CGTACCGCGCACAACGCGCGTGAAAAGTTAGCGGAAAGC
SEQ ID NO. 2162	nhs-1793	GTGAAAGAAGCCAAGCAGATTGTGAAGGACTGGAAAAGC
SEQ ID NO. 2163	nhs-1929	GATACCACCAAGAAGATTATTGATGAGGCCCTGTATCAT
SEQ ID NO. 2164	nhs-1928	ACCAGCGAAGCCGTTGAACTGGCGAAGCACGCGGAAAAA
SEQ ID NO. 2165	nhs-1799	TATGAAGTGAAGCGCGCGCGTGAATTAAACCAGCTGCTG
SEQ ID NO. 2166	nhs-1800	AGCGAAGTGAAGGCCTATGAAACCAAGGTTGCGGTGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2167	nhs-1927	GTGTGGGCGTTAGACAGCGAAGTGAAGTCTCTGCATCGT
SEQ ID NO. 2168	nhs-1908	GAAGAAAATCGCAAGGCGTTTGAAAAGGCCCTGGAAACC
SEQ ID NO. 2169	nhs-1734	GATCAGATTGTTAACAATAAAGTGAAGAAGGGCCTGGAA
SEQ ID NO. 2170	nhs-1318	GATGGCCTGATCGCCGAACGTCAGAAGTTACTGGATAGC
SEQ ID NO. 2171	nhs-1607	CAGACCCATGCCAAGCGTGCGTATCGCGAGCTGGTGCTG
SEQ ID NO. 2172	nhs-1602	CCGCAGGAAAAGTTAAAAACCGTGAAGGAGAATTGGAAA
SEQ ID NO. 2173	nhs-1432	AGCGAAAAATTCTTAAATGATCTGGTTGACAGCATGAAA
SEQ ID NO. 2174	nhs-2323	CCGGCGAATTTCGAGGCGCAGATGAAACACTTAAAAGAT
SEQ ID NO. 2175	nhs-1437	CATGGCGAATCTTTACGTGTGCATGCCTTAGCGGAAAGC
SEQ ID NO. 2176	nhs-1440	CGTGAAACCGTTACGAAAGTGATTGGTGAGCTGGCGCGT
SEQ ID NO. 2177	nhs-2317	CTGGCGGATTTCCGCCAGACCATTGACAAGGTGGATGCG
SEQ ID NO. 2178	nhs-1444	AAACCGGAAATCCGCGCGCTGAATGAGTTAGCGGATAGC
SEQ ID NO. 2179	nhs-2315	CGTGCGGATGTTAAGAGCGTGATGGATTCTTTAATTCGT
SEQ ID NO. 2180	nhs-2314	CAGCGTCGTATCAAGAAAGTGACCCACGACATGGATATG
SEQ ID NO. 2181	nhs-2303	CGTGAACTGGTTAAGAAAGTGAGCGACGTTATTTGGAAT
SEQ ID NO. 2182	nhs-1863	GTGCAGACCTTACGCGAACGTCTGATCGACGCGCTGGAA
SEQ ID NO. 2183	nhs-1448	GATGTGCGTACGGAGCGTCTGCGTGACCGCATTACCCAG
SEQ ID NO. 2184	nhs-1458	CTGAGCACCGCCCAAAAAATTATTAAGGAGGCGCGTGAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2185	nhs-1460	GAAGTGAGCTCTCGCGTGGTGCATGCCATCAAAGAAGCG
SEQ ID NO. 2186	nhs-1461	AGCCGTGTGTCTCGCTTTGCGGATTTATCTAAAGAAGTG
SEQ ID NO. 2187	nhs-1466	GAAAAAGTGGAGTCTGAAATTAAAAAGGTTGAAAATTTT
SEQ ID NO. 2188	nhs-2274	GAAGATCGTTTAAACCAGATTGTGCAAGAGCTGCGTGGC
SEQ ID NO. 2189	nhs-2267	CGTATTCGTGACGAGGTGTTTAAAGTTTTACAGCAGCAT
SEQ ID NO. 2190	nhs-1473	CCGGCGACCGTTGACCGTACCCATGCCTTAATGCGTAAA
SEQ ID NO. 2191	nhs-1478	AGCAAAGTGATCATCGATCGTGTGACGGAGTATCTGGAA
SEQ ID NO. 2192	nhs-1479	AAAAGCGCGAAGTCTCTGAAACCGTTATTCGATGAACTG
SEQ ID NO. 2193	nhs-2287	GTGGATAAACGCAACGAAACCACCTTAAAGCTGATTAAA
SEQ ID NO. 2194	nhs-1418	AAAGAAACCTTATTAGCGGATATGCGTCAAGCCGAACGT
SEQ ID NO. 2195	nhs-2336	ATGGATATTCAAGCCCGTATTAAATTCGAGACCGAAGGC
SEQ ID NO. 2196	nhs-1390	GTGAAAAGCTACGACGAAATTATTAAGAAGCTGAGCGAT
SEQ ID NO. 2197	nhs-2419	AAAGATACCGTTGAGAAAGTGCGTCAAACGTTTGAAAAT
SEQ ID NO. 2198	nhs-1326	GATGAAGTGTCTACGAAAATTCTGATGGAGTTCAATAAA
SEQ ID NO. 2199	nhs-1331	TTTGATACCGTTGCCGATAAAATTCACTCTGTGAGCCGT
SEQ ID NO. 2200	nhs-2411	GAAAATGTGTTAGAGGCGGCGCGTCACTTACATCAGACC
SEQ ID NO. 2201	nhs-1334	CGTGATAAAGTTAACGATATTGTGGACCAAGTGATTACC
SEQ ID NO. 2202	nhs-2398	CGTGAACGTGTTGCCAGCCTGCTGAAGGAGCGTCTGACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2203	nhs-2393	GTGGATAAACGCAACGAAACCACCTTACGCCTGATTAAA
SEQ ID NO. 2204	nhs-2392	GAAAGCCTGGTTGAGAAAGTGAAAGAGTTCCTGAGCACC
SEQ ID NO. 2205	nhs-2391	CCGGATAAAGTTAAGGAATTTGCGCAACGCATTACCGCG
SEQ ID NO. 2206	nhs-1345	GGCGAAGCGAACGTTAAAAAAGAAATCCAACTGCTGCGT
SEQ ID NO. 2207	nhs-1349	CGTATGCGTGAGCAACTGAATTTTTTAGCCGAAGAACTG
SEQ ID NO. 2208	nhs-1351	GAAAAAACCTTACGCGATAAACTGGTTTTAGCGACCGAA
SEQ ID NO. 2209	nhs-2387	CCGGATGCGACGGCCGAAACCAAAGCCTTACTGCATCGT
SEQ ID NO. 2210	nhs-1356	GAAAGCGCGGTTACGGATTTTGCGGCCCGCCTGCGTGAA
SEQ ID NO. 2211	nhs-1362	ATTACCAAACACATGGAGCGTTATCTGGACATCCTGAAT
SEQ ID NO. 2212	nhs-2370	CAGGAATTTCGCGAGGCGATTCGTAAGGCCCTGGTGAGC
SEQ ID NO. 2213	nhs-2368	GATAATAAATTAAACGAAATTGGCGAGAAGTATAAAAAA
SEQ ID NO. 2214	nhs-1374	CGTGTGACCGTTACGCGTCTGCTGGGTGACCTGCGTGAA
SEQ ID NO. 2215	nhs-1375	GCGCAGCGTTTACACGAAATTCGTACGCAACTGGTGGAA
SEQ ID NO. 2216	nhs-1382	GGCCTGGATCGCAAGGAAGTGCAGCAATTAACCGTGAAA
SEQ ID NO. 2217	nhs-1389	ACCATTGATAAGGTTAGCGATATTGTTAAGGAAAAACTG
SEQ ID NO. 2218	nhs-1480	GCGGTGCTGAAGGACCGTGTGAGCCGCAACAGCGCGGAT
SEQ ID NO. 2219	nhs-1606	CCGAAAGCGCGCCAAGAAGTGGATCACCACTGGCAGGCG
SEQ ID NO. 2220	nhs-1487	AAAGCGCATTCTATCCGTCTGCGTGCCTTAGCGCAGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2221	nhs-2263	ACCGCGATGCTGAAGGACACCACCGAATTATTAAAAAAA
SEQ ID NO. 2222	nhs-2171	AAAGATATGAAAAAGGCCGTGATGGCGTTTCAAGACCAG
SEQ ID NO. 2223	nhs-1559	ACCAGCCTGATCAAGCTGGTGAAAGACAAGATTCGTGAA
SEQ ID NO. 2224	nhs-1561	AAAGATGTGCAAAAGACCCTGCAGAACGACGTGGATAAT
SEQ ID NO. 2225	nhs-2169	ACCGTGAGCTTAACGAAAAAAATTAAGGAGGCGGTGGAT
SEQ ID NO. 2226	nhs-2163	GATAGCGATATCAACCGTGGCATTGCCAAGGCGCTGAAA
SEQ ID NO. 2227	nhs-2154	GGCGAAGAATTATCTCATCTGAAAAAGGCCCTGACCATT
SEQ ID NO. 2228	nhs-1574	AATGAAGATTTCGTTCGTCTGAGCACGGAGGCGCGTAAA
SEQ ID NO. 2229	nhs-2152	GATGATATTGTTGAGCAGCAGAAACCAATCGCGATTAAA
SEQ ID NO. 2230	nhs-1577	GAAGTGATTACGTCTGCGATGGCGAAAAAGGCCCATGAA
SEQ ID NO. 2231	nhs-2172	AGCGATCTGGTTGACCAGGGCAAAGAGCGCCTGAATCGT
SEQ ID NO. 2232	nhs-1578	AGCCATCGTGAGATGACGAGCAAACTGTTATCTGATCTG
SEQ ID NO. 2233	nhs-1584	CTGGCGGAATTAAAGAGCTATCATCAAGCCCATAAAGCG
SEQ ID NO. 2234	nhs-1585	AAAACCAAATCTGTTGCGGAAATTATCCGCGATGAATTT
SEQ ID NO. 2235	nhs-2143	AGCCTGACCCACGCCTTTAAACTGTTAGACAAAATTGAT
SEQ ID NO. 2236	nhs-1587	GCGAGCCAGGTTGAGAAAGATAGCGACTTAAATCAGAAA
SEQ ID NO. 2237	nhs-2138	GAAGCGGAAACGCGCGCGACCGTGCAAAAGTATAAAACC
SEQ ID NO. 2238	nhs-2135	GATACCGTGTACAAGAAACTGGTGCAACGCGAAAAAACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2239	nhs-2131	AAAGAAAGCTTAGAGGCGCTGGATGCCGCCAAAACCGCG
SEQ ID NO. 2240	nhs-1597	CGTGAAACCGTTCGCCAGGCGCTGCGCGAGCTGCTGATT
SEQ ID NO. 2241	nhs-2114	GTGCAGAAAGACTTAGAACGTCTGACGCAAGAACGTATT
SEQ ID NO. 2242	nhs-1579	ACCACCGATGTTGAGAAAAGCTTTGACAAGCTGCTGAAA
SEQ ID NO. 2243	nhs-2177	GATCGTGCGTTAACGGCGGCGGTGAAGATCAGCGAACGT
SEQ ID NO. 2244	nhs-1550	GTGGAATTTGTTAAGCATGAACTGAACCGCCTGCTGAGC
SEQ ID NO. 2245	nhs-1549	ACCGCGAAAGACATCGCGGAAGCGCAAAAGATGCTGGAT
SEQ ID NO. 2246	nhs-2259	CCGGAAGATGTTTTAAAAACCGCGATCAAGACCGTGGAA
SEQ ID NO. 2247	nhs-1501	CAGGAAGTGGAGGTTGCGAAAAGCATCGCCGAAAAACTG
SEQ ID NO. 2248	nhs-2251	CGTGAAACCGTTTCTCGTGTGCTGCACGCCCTGGCGGAA
SEQ ID NO. 2249	nhs-2244	CTGAAAGATATCTCTATTATTATTTCTCACTTTGATAAA
SEQ ID NO. 2250	nhs-2243	CAGGCGACCGTTCAAAAAATTCGTGACGCCATTCGTGAT
SEQ ID NO. 2251	nhs-1505	GCGGAAAAAGTTGACGCGATTAATGACGTTCTGCGTAGC
SEQ ID NO. 2252	nhs-1509	GCGGATATTCGCAAGGAAGTGGAACAAATCGATAAAAGC
SEQ ID NO. 2253	nhs-2217	CTGAAAAGCCACCAAGTGCGTCTGGTTTTAGCGGAAAAA
SEQ ID NO. 2254	nhs-1516	GATGCGGATATCTTAAGCTGGGCGAATCGCAAGGTGCGT
SEQ ID NO. 2255	nhs-1518	CAGGAAACCATCAAGCATGTGAAAGACTTAATTGCGGAA
SEQ ID NO. 2256	nhs-2214	GAAAAAATTCAAAAGGAAGCGCAGGAGGCCCTGGAAAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2257	nhs-2210	GAAGCGCGTGTTCGCAATCAGTTTTTAAAGGAAATGGAT
SEQ ID NO. 2258	nhs-2202	GAAAAAGCGATCTTAAATGTGACCAAGGAGTGGAAAAAA
SEQ ID NO. 2259	nhs-2199	CATAGCCAGTACCGCGAAGAAGCGTTATTAAATCGTCTG
SEQ ID NO. 2260	nhs-1527	ATTCCGGATGCCGAGCGTATTCTGAAGACGCTGGAAACC
SEQ ID NO. 2261	nhs-1528	ACCGAAAAATCTAAGGAACTGGCGGAGATCGTGGTGCAG
SEQ ID NO. 2262	nhs-1533	CGTAAAGATCGCGACACCGCGCGTCAATTACATGAAGTG
SEQ ID NO. 2263	nhs-2191	GTGAAAGAACAAGAGTGGAGCATGGCGGTGGAGCGCGGC
SEQ ID NO. 2264	nhs-1542	ACCCGTACCCGCTTAAGCTTTGAAAAGGCCGCGCGTGAA
SEQ ID NO. 2265	nhs-2181	CGTAAAAGCGCCGACAAAGCGCTGGAGGTTTATAAAAGC
SEQ ID NO. 2266	nhs-1544	TTTAATACCTTAAAGAATAATATGAAAGACATCCATGAT
SEQ ID NO. 2267	nhs-1490	GATGCGCATTCTATCCGTCTGCGTGCCTTAGCGCAGGAA
SEQ ID NO. 2268	nhs-873	GATGCGACCCGCGAGCGTATTAAATCTGCCGCGACCCGT
SEQ ID NO. 2269	nhs-1408	AGCAAAGCGAAGGACCGTGTGATGGATATCGCCCGTACC
SEQ ID NO. 2270	nhs-592	AGCGAAATGGCGTTAAAGTGGATTACCAAAGGTGAGAAA
SEQ ID NO. 2271	nhs-724	ATTACCCGTGACTCTGTGATTCGTATCGCCAAAGATCTG
SEQ ID NO. 2272	nhs-145	GAAAATGAAGTTGGTGTGGCGATTCAAGAGAAACTGCGT
SEQ ID NO. 2273	nhs-573	GATAATGTGACGAAGGATGTGTTTGCCGACCTGAATCGT
SEQ ID NO. 2274	nhs-285	AAAACCCTGAAGAAGATTGCGGAAAAGGTTGAAAGCGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2275	nhs-812	ATGAAAGAAACGCAAGAAATGATTGATTTCGCCGCGAAA
SEQ ID NO. 2276	nhs-289	GAAGCGCAGAAGGAGAAATATCTGCCAAAGCTGATTAGC
SEQ ID NO. 2277	nhs-699	GTGCAGGAAGGTGTTGATAAAATTCGCCACTTTCAGGAA
SEQ ID NO. 2278	nhs-282	CAGATGCTGGAGAAGAATGCGCGTGAGGCCGTGAAAGAA
SEQ ID NO. 2279	nhs-568	CGTGCGGAAGTTGTTCAGCAGCTGGAGAAGGAACTGTTT
SEQ ID NO. 2280	nhs-567	GATAAAGAACGCTCTATTATTAGCGACATCTTTAGCCAT
SEQ ID NO. 2281	nhs-378	GATCGTAATGACTTAATTACCTATTTAAAGAAAGCGACC
SEQ ID NO. 2282	nhs-139	GATCAGCAGAAGAAGAAATATCTGGGTCGCATGACCGAA
SEQ ID NO. 2283	nhs-137	GCGGAAGCGGACAAGGCGATTCAGCGCTACGAAAGCCTG
SEQ ID NO. 2284	nhs-111	AAAGCGAATCGCGAGAAAATGACCCAGATCATGTTCGAA
SEQ ID NO. 2285	nhs-369	CGTAAAATTACGGACGATCTGGTGAAGAACGTGGAAAAA
SEQ ID NO. 2286	nhs-74	ATGATTGGCGAGGAGACCAAAGCGCAAATCCTGGATAAA
SEQ ID NO. 2287	nhs-380	GAACAGATTGCCAAGGAAGCGCTGAAGGTTCTGACCAAA
SEQ ID NO. 2288	nhs-771	GAAAAACTGGTTAAGAATCTGTTTCAATTAGCGCGTGAA
SEQ ID NO. 2289	nhs-726	CGTCAGGCGTTAGGTGAAGCGCGTGAGGTTATTAAAAAT
SEQ ID NO. 2290	nhs-588	CAGGTGACCAAGGACGCGGCGGAAGCCATCAAAAAACAT
SEQ ID NO. 2291	nhs-394	AATGAACAGGTTGCCGAAAAAGTGAAGGTTGCGATTGAT
SEQ ID NO. 2292	nhs-484	TATGATAAAACGACGGAAGTGATTATCCGCGATATTCGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2293	nhs-485	AGCGATGAAGTTCGCAAAAATCTGATGGACATGTTCCGT
SEQ ID NO. 2294	nhs-835	GTGGAAACCGGTAAGAAAGTGGTGGAGTTAAGCGAAAAA
SEQ ID NO. 2295	nhs-693	CGTAAAAATGTTGAGTATCTGGAAAAGTTACGTGAAAGC
SEQ ID NO. 2296	nhs-150	CTGCTGCGTGAGACGAAAGTGGGCGTTGAGGTGAATAAA
SEQ ID NO. 2297	nhs-264	CCGCGTACCCGCGAGGTGCTGAAAGAGTGGATCGCGAGC
SEQ ID NO. 2298	nhs-267	AGCAAAGCGGTTAAGGAAGCGTATGAGAACGCGCAGAAA
SEQ ID NO. 2299	nhs-694	ATGGAAAGCAAGGCCCGTCTGCTGTCTTTAGTGAAAGAT
SEQ ID NO. 2300	nhs-65	GAAGAAACCCGCAACGCGGTGTGGGCGGCCATCAAAGAA
SEQ ID NO. 2301	nhs-268	CAGCATGGCTCTCGCTTTATTCAGTTAAAGCTGGAACGT
SEQ ID NO. 2302	nhs-768	GATGAACGTATGGCCCAATTTACCGCGCGCTTAAATGAA
SEQ ID NO. 2303	nhs-831	GAACATGTGCAACGCCTGCTGCTGTCTTCTCGTGAAGCG
SEQ ID NO. 2304	nhs-12	AAAAATGAATTAGTTCAGAAAGCGAAGTTAGCGGAACAG
SEQ ID NO. 2305	nhs-272	GCGGCGGATCGCGACGGCCTGCGTGCCCAATGGCAGCGT
SEQ ID NO. 2306	nhs-829	GATCGTATTGGTTTCAGCATGATTAGCGACGCCGAAAAA
SEQ ID NO. 2307	nhs-387	GATGAAGATGTTCGCGAAAAACTGCAAGCCAGCCTGAAA
SEQ ID NO. 2308	nhs-75	AAAGAAAATAAGAAGTTTCTGCTGGACTTAATGCTGAAT
SEQ ID NO. 2309	nhs-253	GTGAAAGAATTAGAGGCGTATACCGACGCCATTCAGCGT
SEQ ID NO. 2310	nhs-703	AAAGCGAAAATCGACCCGATTCTGGAGGCCCGTCAGAAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2311	nhs-302	TGGGAAAGCGCCGAGAAAGTGGTGAAGACGCTGCTGAAA
SEQ ID NO. 2312	nhs-19	ATTCAGGAAATCGACAAAGCGATTAAGAAGGCGGCGCAG
SEQ ID NO. 2313	nhs-121	GCGGAAACCATCAAGGAACTGGCGCGCTTATTTGAAAGC
SEQ ID NO. 2314	nhs-79	CCGACCAAATTCGCCGAAATTGTGGAGGAGAATCTGAAA
SEQ ID NO. 2315	nhs-335	ACCGATATTGTTGAGGCGGTGGCGGAGCGCCTGCAGCGT
SEQ ID NO. 2316	nhs-784	AGCAAAGAAATCGTTACCCTGGTGGAGGACTTTCATCGT
SEQ ID NO. 2317	nhs-117	GATAGCGGCCGCGAGACCGTGCGTGCCGCCCTGAAACAT
SEQ ID NO. 2318	nhs-793	AAAGCGGATTTACGCGAAGCGATTCAAACGATGCTGGAT
SEQ ID NO. 2319	nhs-711	ACCCTGGAATTAACGCGTCAGGTGAAGGAGAAACTGGCG
SEQ ID NO. 2320	nhs-37	AAACAGTATTTAGAGCTGATGCAGAAAGTTTTAGATGAA
SEQ ID NO. 2321	nhs-342	CTGGATCTGACGAAGATTCTGAGCAAGAAGTATAAAGAA
SEQ ID NO. 2322	nhs-789	GTGGATCAGGCCAAGCGTATTGCGGACGAGCTGATTAGC
SEQ ID NO. 2323	nhs-83	GCGGCGCAGATCAAGAAACTGAAAGAGGCCATTGATAGC
SEQ ID NO. 2324	nhs-119	GAAAAAGAAGCCAAGGATAGCGCGATCACGTTTATTCAG
SEQ ID NO. 2325	nhs-118	GATGCGCAGCGCCAAGCGACCAAAGACGCCGGCCGTATT
SEQ ID NO. 2326	nhs-347	AAACAGCAGTTCTTAAAAGTGCTGAAGGAGGCGGAAAGC
SEQ ID NO. 2327	nhs-350	ACCCTGAAAGTTTTACGTCATCATCAAGAGAAACTGGAA
SEQ ID NO. 2328	nhs-80	ACCAAAATTGCCGAGAAAATTGATGAGTTCCTGGCGACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2329	nhs-330	GAAAAACTGGCCTTAGATCTGCTGGAGCAAATTAAAAAT
SEQ ID NO. 2330	nhs-329	GATATTTTTAACAAGAATCTGCGTGCCCACGCGCTGGAA
SEQ ID NO. 2331	nhs-125	ATTCAGGAAATCGTTGATAAAGTGAAGCCACAGCTGGAA
SEQ ID NO. 2332	nhs-777	ATGAAACAGTACTTAAAAACCAAATTATTAGAAGAAGTG
SEQ ID NO. 2333	nhs-112	CTGGAAGAATTATTCAGCAAAATTAAGAACACCCTGAAA
SEQ ID NO. 2334	nhs-133	CGTGATGAAGTTTTAGCGCAGCTGGAGAAGAGCCTGAAA
SEQ ID NO. 2335	nhs-32	CAGGAAACCCGCAAGAAAACCATGGTGGACTTAGAAACC
SEQ ID NO. 2336	nhs-311	ACCTGGGTGCGCGACGTGGTGCGTTCTATGGACCGTAAA
SEQ ID NO. 2337	nhs-78	GATATTTTTAACAAGAATATGCGTGCGCACGCCCTGGAA
SEQ ID NO. 2338	nhs-359	CTGCGTAAAACGGCCGATGATTTTTTAAACCGTATTGCG
SEQ ID NO. 2339	nhs-801	TTTGATGTGAAGATCGCGGAACAGATCTCTAAAGAAACC
SEQ ID NO. 2340	nhs-318	GAAGCGCTGATCCGCAAAGCGAGCGAGATCAGCATTAAA
SEQ ID NO. 2341	nhs-130	GATGCGAAAGCCCGCGATGTGGTGAACCGCCTGACCGCG
SEQ ID NO. 2342	nhs-320	ATGGATCAGGTTATGAAGGCGCATGAATTATACCAGAAA
SEQ ID NO. 2343	nhs-128	CCGAGCGGCACGTTCGTGCGTGAAAAGATCCGTGAAAGC
SEQ ID NO. 2344	nhs-542	CTGGAAAAAGTTCGCGAACAGGTGCAAGCCGCGCATGCG
SEQ ID NO. 2345	nhs-325	CGTCCGCGTGTTGAGCAGATTACCGCCGAGCTGCTGGAT
SEQ ID NO. 2346	nhs-503	CGTGATCTGGCCTCTCGTATTGTGTCTACGCAGCATCAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2347	nhs-114	ACCAGCCTGATGGAGCGCGTGACCGAATACGCCGAAAAA
SEQ ID NO. 2348	nhs-328	CAGGAAAATAAGAAGAAAACCGTGGTTGACTTTGAAACC
SEQ ID NO. 2349	nhs-776	CTGAAAGAAATCTCTGATCTGATTAAGAAGGAACTGACC
SEQ ID NO. 2350	nhs-604	CGTAAAAGCTTAGGTGAACTGATTCACACGCTGGATGGC
SEQ ID NO. 2351	nhs-351	ACCGCGAGCGTTGACAAAAAATATGCCGAGCTGGTGGAT
SEQ ID NO. 2352	nhs-482	GCGCAGGAATTAAAGCAGCTGATTGACACGGCGAAAGAA
SEQ ID NO. 2353	nhs-457	GATGATAAATTAGAGCAGATTCGTAAGGACTATACCAGC
SEQ ID NO. 2354	nhs-212	TTTAAACAGTTAGTTGAAGATCTGGACCGCATTCTGACC
SEQ ID NO. 2355	nhs-458	CCGCGTCAGAAGGAGGCGCTGGCGAAGTTCCGTGAAAAT
SEQ ID NO. 2356	nhs-25	GCGGCGACCTTAGAGGAAAAACTGAACAAGATTTTTGAA
SEQ ID NO. 2357	nhs-97	AAAAAAAGCTTAACGGAAATTAAAGACGTTCTGGCGAGC
SEQ ID NO. 2358	nhs-670	CAGAAAGATTTAAAGGATTGGGTGGAAGCCTTAAATCAG
SEQ ID NO. 2359	nhs-1	GAAACCACCCGCTTATGGCGTGAAGTGGTTACGGAAGTG
SEQ ID NO. 2360	nhs-736	AAAGATGCGACGAACGAAGCGATTCGCGACTGGATTACC
SEQ ID NO. 2361	nhs-218	TATGATGATATCAAGGCGGCGATGAAAACGGCCAGCGAA
SEQ ID NO. 2362	nhs-7	GAAAAAGTGATCAAGTGGGCGGAACAGAACGCCGCGGAA
SEQ ID NO. 2363	nhs-414	AAAGAAGAAGACCAACGTGTGATTAAGTTAGTGCAGAAA
SEQ ID NO. 2364	nhs-758	GAAGAACAGGTTGACAAAATTAATCAACGCCTGAAAGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2365	nhs-164	GTGGATGAAGCCTTAAAAGATGCGCAAACGCGTATTACC
SEQ ID NO. 2366	nhs-410	AATGAAACCCGCGCCTATGTGCTGGACCGCATGAAAGAA
SEQ ID NO. 2367	nhs-416	AAAGAAGAATTAGTTCGTCTGATTCAAACGGCGCATGCG
SEQ ID NO. 2368	nhs-463	GAAGCGGAAAAGACGGGCGCGCAGGAGTTACTGCGTGTG
SEQ ID NO. 2369	nhs-741	CTGGAAGATTTAAAGCTGACCACCGACTTACTGCTGAAA
SEQ ID NO. 2370	nhs-427	CCGGAATTTCAAGCCAATGAAGTGCGCAAGGTGAAAAAA
SEQ ID NO. 2371	nhs-183	CGTGCGGATTTAGAGGCGACCCTGCGCAAGATTACCGAT
SEQ ID NO. 2372	nhs-868	CCGCGTGCGATCGAGACCGCGAAAGAGAACGCGAAACTG
SEQ ID NO. 2373	nhs-185	CAGGAAGCGTTATCTGTGGCGCGTGCCTTCGATGAAAAA
SEQ ID NO. 2374	nhs-187	AAAGATCGTAACGACCTGATTACCTACTTAAAAAAAGCG
SEQ ID NO. 2375	nhs-434	CGTGAAACCTTATTAACCATGGCGGAACGCGCCCGTGCG
SEQ ID NO. 2376	nhs-648	GAAACCACCCGCTTAGCGCTGAAAGCCTTAGCGCGTCAT
SEQ ID NO. 2377	nhs-666	ATTCCGAGCAAGTACCGTGATGAATTAACGGCGAAACTG
SEQ ID NO. 2378	nhs-194	GCGAAAGTGTCTGAGGCGCTGGAAAAGCGCTATAGCATG
SEQ ID NO. 2379	nhs-26	ATTAGCGATACGGTTAAACGTGCGCGCGAGGCGTTTAAT
SEQ ID NO. 2380	nhs-195	AGCGATGATCGCAAGAAACATCTGTTAATCCGTGAACAG
SEQ ID NO. 2381	nhs-862	ACCAGCACCATCTCTGCGCTGGAACGCGTTAAAAAAGAA
SEQ ID NO. 2382	nhs-754	ACCCATGCGTCTATCGATCTGACCAAGAAGGCGACCGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2383	nhs-662	GAAACCCGTATCAACATTGTGAAATTAACGGAAAAAATT
SEQ ID NO. 2384	nhs-172	AAACAGCGTATCGTTGAAGAAGTGACGCGCCTGCTGAAA
SEQ ID NO. 2385	nhs-430	AGCGAAGATGCCAAGGGCCTGATTAAGTCTGCGATTCGT
SEQ ID NO. 2386	nhs-628	GTGCGTGATGAGCGCAATGTGATTCGCGCCGCGAGCAAT
SEQ ID NO. 2387	nhs-220	CCGCGTGATGTTGAGACCCTGCTGCAAGGTATGCGTGAT
SEQ ID NO. 2388	nhs-477	GCGAAAGATCGCGTTGATCTGCAGTTCGGTGTGGAACAG
SEQ ID NO. 2389	nhs-684	ACCGATGGCACGGGTCATATTCGTGCCATCAAAGAAAGC
SEQ ID NO. 2390	nhs-241	CAGGAAAGCGTTAAGAGCAAAGTGCAATACCTGAAAGAT
SEQ ID NO. 2391	nhs-163	GAACAGCTGTTACGCAAAGCGGAAGCCCAAGCGAAAAAA
SEQ ID NO. 2392	nhs-23	GTGGAAAATGTTACGGAACTGAAAAAGAACTTTAATCGT
SEQ ID NO. 2393	nhs-473	ATGCGTCAGGTTGAGGCGCTGGTGGAGGCCAGCAAAGAA
SEQ ID NO. 2394	nhs-622	CGTGATCATTTAGAGAATTTTGTGAAGTCTCTGGAAGCG
SEQ ID NO. 2395	nhs-844	CAGAAAGAAATCGACCGTCTGAATGAGGTTGCGAAAAAT
SEQ ID NO. 2396	nhs-763	CTGGATGAAATCATCAGCCGTGCGAAGAAGGCGGAAACC
SEQ ID NO. 2397	nhs-59	CTGGAAAAATTAACGCAGGATGTGTTAGACATTGCGCGT
SEQ ID NO. 2398	nhs-476	GATAAACTGATCTCTGAAACCGCGAAGTCTGTGATGAAA
SEQ ID NO. 2399	nhs-159	CAGCGTGTGGAGGCCATGTTTCATACCTTAGACAAAATT
SEQ ID NO. 2400	nhs-470	GTGACCGAATCTATCGATGCGCATTTATTAGCGAAAAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2401	nhs-467	GAAGGCCTGTACGACCAGATTATGCGTGTTAAGAATGAT
SEQ ID NO. 2402	nhs-242	AATCGTGAAATCCGCGAAATTAATCGCGTTTATAAAGAA
SEQ ID NO. 2403	nhs-690	CTGAATGTGTTAGAGCGTAAACTGTCTGAGTTTGATAAA
SEQ ID NO. 2404	nhs-396	ATGCGTGAACGCATCGAATTTCTGAACGAGGCGAGCGTG
SEQ ID NO. 2405	nhs-162	GAACAGCATTTACGCAAAGCGGAAGCCCAAGCGAAAAAA
SEQ ID NO. 2406	nhs-46	GTGGAAGTGAAGTCTATTGTGGATTTCATCAAAAGCCAT
SEQ ID NO. 2407	nhs-62	GTGGAAGTGAAGTCTATTGTGGATTTCGTTAAAAATCAT
SEQ ID NO. 2408	nhs-1730	GGCACCCATTCTAAGGAACGTGAAGTTTGGAAGGAAGCGCTG
SEQ ID NO. 2409	nhs-512	AATGGCAAAAACCGCGTGAAACAGTGGGACACGCTGGTGGAT
SEQ ID NO. 2410	nhs-1646	GAAAAACTGAAGATCAAAGCGCAGTCTTACCTGGATGCCATT
SEQ ID NO. 2411	nhs-2579	CCGGAACAGGTTATCGCGGAAGCGATCCGCAAAAAAACGCGT
SEQ ID NO. 2412	nhs-1657	CGTGATAAAGTTAACGATATTGTGGACCAAGTGATTACGATT
SEQ ID NO. 2413	nhs-442	GAAGCGGAAAAGACGGCGGCGCAGGAGTTACTGAAAGTTCTG
SEQ ID NO. 2414	nhs-517	CGTCATGTGGCCGAGCGTGAAATTGCCACGCTGGCGGGTAGC
SEQ ID NO. 2415	nhs-1738	AATCAGGATGAGTTAAAAAAAACTGGCCGCCACCGAAGCCGCG
SEQ ID NO. 2416	nhs-519	CTGATGGATAACGCCCGTGTGGTGGACCAACTGATGAAAGAT
SEQ ID NO. 2417	nhs-451	ACCCATCTGCAAGTTATGGCGAAAGAACGCTTCCATGCGGGC
SEQ ID NO. 2418	nhs-1791	GAACTGAGCAACCGCATTCGTGAACACGGTCGTAATATCGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2419	nhs-450	AATGTGCGTGAGTTAAAAAATGTGATCGAGCGTGCGGTTCTG
SEQ ID NO. 2420	nhs-101	CCGACCCGTGACGTTGTGCAGCGTGCCTTAGCGGAATTAGAA
SEQ ID NO. 2421	nhs-1715	AATGAACGTAACGAGGCGCTGCTGAAGCGCATTAATGGTCGT
SEQ ID NO. 2422	nhs-483	CGTGAAGAATTAACGGCGGTGATGCGTTTCTTAACCCAGCGT
SEQ ID NO. 2423	nhs-1739	CAGGAACGTGCCAAGGAACTGGCGGAGAACGCGAGCTTCATT
SEQ ID NO. 2424	nhs-1724	TATCGTGGCAAGATCGAAAAAGCGGTTGACCTGACCTCTAGC
SEQ ID NO. 2425	nhs-1656	CGTCAGCATAACTTCGAAGTGGCGAAGGAGCTGCTGGAGACC
SEQ ID NO. 2426	nhs-448	GATCCGGTGAACCAACATGTGATTTCTGAGGGCCTGAAGAAA
SEQ ID NO. 2427	nhs-1697	TTTCGTGATTTAGCCCTGCGTGTGGACCAAATTCGTGACAAT
SEQ ID NO. 2428	nhs-1740	GAAAAACTGTTAGACAAAGCGCAGCGCATCGTGACCAACAGC
SEQ ID NO. 2429	nhs-453	CATCAGGCGATGCGCGCCGCGGGCGATGAGTTCGAAACCCGT
SEQ ID NO. 2430	nhs-1695	CGTAAAACCATGTTAGAGCTGGTGGAAAAGGTTGCGGAACAG
SEQ ID NO. 2431	nhs-465	CGTCTGGAAAACGACATTATTCGTTTAATCAATCGTACGGTG
SEQ ID NO. 2432	nhs-1691	CTGAGCGATTTCAAGGAACTGCTGCGCACGGTGAAAGCCACC
SEQ ID NO. 2433	nhs-1753	GAAGATGAAGTTAAGACCCTGCTGGAGTTAAAAACCAAGTAT
SEQ ID NO. 2434	nhs-1759	GCGCAGATTACGGAGGCGATTGATGGTGTTCGTGAACGCCTG
SEQ ID NO. 2435	nhs-1761	CAGAATCGTTTCGACAGCCTGATTACGGAGCTGGGCAAGGAA
SEQ ID NO. 2436	nhs-2612	CCGGATAAAATCGAGAAAATTCTGTCTACGCTGGTGAAGGGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2437	nhs-86	CCGGATATTCGCGAGCGTTTTACCAAGTCTCGTGATGCCACC
SEQ ID NO. 2438	nhs-461	CTGCGTGATCGCATCAAAAGCAAAGTTGACGAACAGTTCGAT
SEQ ID NO. 2439	nhs-2597	CAGCGTGATCGCTTACGTAGCTATCGCTTACTGGCGGAGGCG
SEQ ID NO. 2440	nhs-488	CTGGATGAAGCCATCCAGCTGGCGAAGGCCCTGGAAAAGAAT
SEQ ID NO. 2441	nhs-496	GAAGAATATTTAACGAGCCTGGGCCGCAAGCATCGTGCCGTG
SEQ ID NO. 2442	nhs-1721	CTGAAAAGCACGCAAACCGTGATTCACAAGGCGCTGGAGAAA
SEQ ID NO. 2443	nhs-2617	GAAAAAAGCTTCAAGGCGCTGATGCATTTAGTTAGCAATGAA
SEQ ID NO. 2444	nhs-1705	ATGAAAGAAGTTGACGAACAGATGCTGAACGTTCAGAATAAA
SEQ ID NO. 2445	nhs-501	ACCGTGGAAATGTTAGTTAAAGTGATTTCTGAGCATAAAAAT
SEQ ID NO. 2446	nhs-1708	GCGGATGAAGTTGTTAAAGTGGCGAACTGGGCCAAAGATAAT
SEQ ID NO. 2447	nhs-2596	GGCGATACCCACAAGCGTATTTGGGATGCCGTTGCGAGCGCG
SEQ ID NO. 2448	nhs-1711	AATAGCGAATTAATCCGTCTGAGCATGGTTTTAAAAGAAAAA
SEQ ID NO. 2449	nhs-2593	CCGGAAGATAAGGTTAAAGCGGTGACGAAGCTGAATCAACAT
SEQ ID NO. 2450	nhs-1771	AAAGAAGGCAAGGCCACCGTGGAAGCCTTAATTAATAAGTAT
SEQ ID NO. 2451	nhs-1671	GATGATGAAAAGAACGTGGCGATTGCCAAGTATAGCCAACTG
SEQ ID NO. 2452	nhs-1712	CCGACCACCGACGCCCTGGAAAAAAAGTTAGCGGTGTTAGAA
SEQ ID NO. 2453	nhs-1669	CGTGAAGTGTTAGCCGAAAAAGTGAAGAACGCGGTGAACAAT
SEQ ID NO. 2454	nhs-2586	CAGACCGTGGACCGCCTGCATTTTATCAAGCGTATGCAGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2455	nhs-2584	GAACGTCAGGTTCGCATTCAGCTGAAGGACCATATTGACCGT
SEQ ID NO. 2456	nhs-870	AAAGAAACCATCGACAAAGTGAGCGACATCGTGAAAGAGAAA
SEQ ID NO. 2457	nhs-1596	GTGGATGATACGTCTGATGTGATTGACGCCCTGCGTAAGCGT
SEQ ID NO. 2458	nhs-1639	GCGGCGAGCATCGACGCGGTGTTTGAGACGCTGGAAAAGAAA
SEQ ID NO. 2459	nhs-1430	CGTGAACAGTTAACGCAGCTGGTGGAGTTCGCGAAAAAGAAT
SEQ ID NO. 2460	nhs-1431	CTGAGCACCGCCCAAAAAATTATTAAGGAGGCGCGTGACGCG
SEQ ID NO. 2461	nhs-1434	AATGAAAAAACGGCCGAACTGATTAAGGAGCTGAAAGAGAAA
SEQ ID NO. 2462	nhs-1435	AAAGAAGTGGTTAAGGCGAATATTGACAAGATTAAATCTCTG
SEQ ID NO. 2463	nhs-2671	GATGAAAGCCGCGGTAAAGCGCGTGCCGCCGGCGTGGAGAGC
SEQ ID NO. 2464	nhs-1438	GCGGAAGTGCACTCTCAGTTTGATGCCTTAAAAGCGCGCATT
SEQ ID NO. 2465	nhs-634	CCGGGCCAGCGCGAGAAACTGTTTTCTAAGCTGATTGACATT
SEQ ID NO. 2466	nhs-632	AATAAAGCGGCCCGCGAAATGAAAGAACGCGTTGGCCAGACC
SEQ ID NO. 2467	nhs-1445	CCGGATCAGGTTAAGGCGAGCATTGACCACATTTTTAAGGAA
SEQ ID NO. 2468	nhs-1429	GAAGTGATTACGTCTGCGATGGCGAAAAAGGCCCATGAACTG
SEQ ID NO. 2469	nhs-1451	AAAGATAAAACGAAGGGCGATGCGATCGACCTGAGCAACGCG
SEQ ID NO. 2470	nhs-1456	GCGGATCATTTATTAAAAGCGCATTTACAAAAACTGATGAGC
SEQ ID NO. 2471	nhs-1459	AGCCTGCAGATCATGGAGAAAATTATTAAGAAGGCGGGCGAT
SEQ ID NO. 2472	nhs-2667	AGCAAAGAAATCTTAGCGGAAGCGAAGAAGCTGAATGACGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2473	nhs-1465	GAAAAAGTGGAGTCTGAAATTAAAAAGGTTGAAAATTTCCTG
SEQ ID NO. 2474	nhs-1467	GCGGATCGTGTTTTAAAAGAATTTAAGGACCTGCTGAACAGC
SEQ ID NO. 2475	nhs-1469	GCGGAATTTTTAGTTAAAAGCAAACACCGCGATCTGACGGCG
SEQ ID NO. 2476	nhs-1470	AAAGAAACCTCTGACCTGCTGCGTAAGATCGCGGCGGACAGC
SEQ ID NO. 2477	nhs-1474	CATCGTGATGACGTTGCGGAAGTGACGAAGCTGCTGGCCACC
SEQ ID NO. 2478	nhs-1475	CCGGAAACCGGTGAGAGCGCGGCGCGCCACCTGGAACGCGCG
SEQ ID NO. 2479	nhs-1455	TTTGATGATGCCTTAAATATTGTGCGCAAGATTGGCGAGAAT
SEQ ID NO. 2480	nhs-1428	CGTGAAAAATTAGAGGCGGCGGCGTCTCGCATTGCGTCTCTG
SEQ ID NO. 2481	nhs-1424	CAGGAAGGCTTACGCAAACATTTTGGTAAGGTGGCGGAGAGC
SEQ ID NO. 2482	nhs-640	CGTAAACTGATCGACGATGCGGTGGCCTGGGCCAAACAGCAG
SEQ ID NO. 2483	nhs-1364	GATGCGGATAAGGAGAATATTATTGCCTTAAGCAAAGCCCTG
SEQ ID NO. 2484	nhs-1365	CCGCGTACCTTAAACGCGTGGGTGAAATTAGTTGAAGAAAAA
SEQ ID NO. 2485	nhs-1370	ATTCAGCGTCGCATCAAAAAAGTGACGCACGATATGGATATG
SEQ ID NO. 2486	nhs-651	TTTGATGATGCCTTACGTCTGACCCAAAAGCTGACCGAGGCG
SEQ ID NO. 2487	nhs-650	AAAGATCGTGGTATGACGCTGGCGGTGTCTAAGGCGGTGGAA
SEQ ID NO. 2488	nhs-1376	CTGAGCGATTACATCAAACTGACCAAGGAGAATATGCGTAAA
SEQ ID NO. 2489	nhs-2688	GATCGTCTGACGCGCGCGGCGAAAGTTTTAGAACAGTTAAGC
SEQ ID NO. 2490	nhs-1383	GTGAGCGAAGTTAAGGCGATTATTAAGAAGCAGGTGGACGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2491	nhs-1386	ATGAGCGCGGTTGTTAAAAAAGTGGCCGACCGTCTGACGGAA
SEQ ID NO. 2492	nhs-1387	GCGGTGAATCACATCAAAAGCGTGTGGAAGGACCTGCTGGAA
SEQ ID NO. 2493	nhs-1388	CATCATGAATTAACGCGTGTGGCGTCTGCCCTGCGTAAGCTG
SEQ ID NO. 2494	nhs-1392	CGTAATGATATCGTTCAGAGCCTGGAGAAGGCGGTGGACATG
SEQ ID NO. 2495	nhs-56	GCGCAGGCGGACTTACTGAATCTGAAGCGCAAAGTGGACGCG
SEQ ID NO. 2496	nhs-1394	CTGGATCGTTTCCAAGAAGCGATTTCTGCCATTCGTGAGGTG
SEQ ID NO. 2497	nhs-1395	GTGAATGAAATCGACAAAATTGTGGAGCGCACCCGTGAGCTG
SEQ ID NO. 2498	nhs-1396	CGTGGCTTTTTAAAGCAGCTGCGTGAGTTAGATAAACAACTG
SEQ ID NO. 2499	nhs-1397	CGTCTGGAACGCGCCCGTCAGATGGGCGCCTCTCTGGAAGCG
SEQ ID NO. 2500	nhs-2681	CTGGATCTGGCCCGCAAAGAACTGAAGAAGATGCAGGATCAG
SEQ ID NO. 2501	nhs-1410	CTGAATCAGTTAAAGCGTATTGTGGACAAGGCGAGCGAGCTG
SEQ ID NO. 2502	nhs-2677	GAAAAAATTATCAAGGAATTTATTACGAAGACCCTGACGGAT
SEQ ID NO. 2503	nhs-1417	CTGGAAGTGTCTCGCGCGGCGGAACGCGTTTTTAAAAAGCAG
SEQ ID NO. 2504	nhs-1481	CGTACCACCGAGAAGAAAATTATGGATAAGTTAGTGCAGGAA
SEQ ID NO. 2505	nhs-2663	GATCGTGCGGAGATGGTTGAAACCCAGAAGACGTTTACCCTG
SEQ ID NO. 2506	nhs-2659	GAAGATCTGAAGCAAAAAGTGCTGGACAACTGGACCAAAATG
SEQ ID NO. 2507	nhs-607	CGTCATATGGTGCACGAGCTGGTGAGCAACTTACGTAAAGAA
SEQ ID NO. 2508	nhs-559	CTGGCGACCTTAGAGCGTTATGTGGAGACGCAGGCGAAGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2509	nhs-76	GAAGATCTGATCTGGAAGCTGCTGAGCAAGGCCCAGGAAAAA
SEQ ID NO. 2510	nhs-2632	CAGGATTATGTTAAGGAACTGCATCAACAAATTACCCGCCTG
SEQ ID NO. 2511	nhs-1589	CGTGATCATGAGACGAGCCATAGCTTAGCCCGTGAAGTTTAT
SEQ ID NO. 2512	nhs-1593	AAAGCGGAAGTTTTAAAAGATGAAAACTCTCGTCTGAACGCG
SEQ ID NO. 2513	nhs-1806	GAAGCGCTGATCCGCAAAGCGAGCGAGATCAGCATTAAGGCG
SEQ ID NO. 2514	nhs-544	GAAAGCCTGGTTGACCAGCGTATTAAGGAGGCGCTGTCTCGT
SEQ ID NO. 2515	nhs-77	CCGAAACTGTTACACCGTGTGGTGGAGCAACTGCAGAAGGTG
SEQ ID NO. 2516	nhs-2629	AGCGAAAATCAAGTTATTGCGGTGGACACGCAGCGTGAGAAA
SEQ ID NO. 2517	nhs-1605	CGTGAACTGGCCCGCCAGATTATGGATGTTGTTACCGAAATG
SEQ ID NO. 2518	nhs-1608	CATGCGCAGGCCGTTGATTATATTAAGAAGCTGATGACCAAA
SEQ ID NO. 2519	nhs-1609	AGCACCGATAAGGACACCCTGGCGGTTTTCGTGGATCGCGTG
SEQ ID NO. 2520	nhs-1611	GCGGATGAATCTATCGATATTGTGAAGGCCGTGAAAACGCGT
SEQ ID NO. 2521	nhs-1614	GATAAAAGCCACGACCAGGCGGTGCGCACGTATCAGGAGCAT
SEQ ID NO. 2522	nhs-1617	TGGGTGGATAAGGTTAAAGATCTGACGAAGAGCGAAATGAAT
SEQ ID NO. 2523	nhs-1620	AAAGATGAAATGAAGAAGATTCTGGAAGACTTCCTGAATACC
SEQ ID NO. 2524	nhs-533	ACCGATACCTTAGAGCGTGTGACCGAGATCTTTAAAGCCCTG
SEQ ID NO. 2525	nhs-1623	GTGCGTGATGTTCGCGATGAAAGCAACAAGCTGATTGCCAAA
SEQ ID NO. 2526	nhs-530	CGTGAAGCGTTACGCGCGGAATGGCAGGCCACGGCGAAAGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2527	nhs-527	ATTGTGGAAAAGATCCTGCAGTATCGCGAGCTGACCAAGCTG
SEQ ID NO. 2528	nhs-1636	CCGCGTGAAATCAAGAATGCGATTGAGAAGAGCGTGACGGAT
SEQ ID NO. 2529	nhs-562	ACCAATCGTGTTGAGCTGCTGGCGAAGAAGATTACCGACCTG
SEQ ID NO. 2530	nhs-1641	CCGCATGAATTATCTCGTGTGGCGGCCACGCTGCGTAAGCTG
SEQ ID NO. 2531	nhs-1569	AAAGGCTATAAGTTAATTGCGGAAGTTATCACCAAAACGGAT
SEQ ID NO. 2532	nhs-1564	CGTGAAACCTTAGAGATTAGCTATCGCAACGCGATTGCCCGT
SEQ ID NO. 2533	nhs-63	GAAGAAACCCGCAACGCGGTGTGGGCGGCCATCAAAGAACTG
SEQ ID NO. 2534	nhs-600	GATAATGGCTTAAAGGTGGAAGTGCGCTCTATTCTGGAGAAA
SEQ ID NO. 2535	nhs-599	TTTCAGCTGGCCACGAAAATTATGGATAAGTTAATTCGTGAT
SEQ ID NO. 2536	nhs-595	CTGCGTGAAGGTGTTCTGGTGAGCGAGGTTCTGAAAGAGAAT
SEQ ID NO. 2537	nhs-593	ATGTATAATGGTGACCGTGCGCGTAAGCAAGTGCTGGTTGAT
SEQ ID NO. 2538	nhs-1508	CTGGATCAGGCCGAGAGCATTTATAAGGCCGCGGCGGAGCGT
SEQ ID NO. 2539	nhs-590	CGTGAAGAATGGAAGGGTCAGGCGGAAACGAACAAAATTCTG
SEQ ID NO. 2540	nhs-1514	CTGAAAAGCTTACAAGTGCGTCTGGAGTTAGCGCGTGAGCTG
SEQ ID NO. 2541	nhs-1517	AGCGAACAGGTTGTTCATCAGCTGGAGCGCCTGATTGCCCGT
SEQ ID NO. 2542	nhs-1529	GAAGCGATGTGGCGTGAGACGATTGCGCGTGTTCGCACCGAA
SEQ ID NO. 2543	nhs-1532	AAAAGCACCTTAGCCGTGGAACTGGAGCACCAGCTGGTTCGT
SEQ ID NO. 2544	nhs-579	AATGAACCGCACCAACGTCTGGAATCTTTAGTGAAATCTAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2545	nhs-1536	GCGTTTACCAAGTCTGTGGATGAATTACGCGAAATGGCGGGC
SEQ ID NO. 2546	nhs-577	GCGGAACGTATCCGCCAGCTGGAAACGGAGGCGGGCGAGCGT
SEQ ID NO. 2547	nhs-575	GAAGATGATGCCATCGCGAGCATTCACCGCATTTTTAAGAAT
SEQ ID NO. 2548	nhs-1547	CAGCTGGATACGGCCGTGGTGCGTGCCTTACGTGAACGCTTT
SEQ ID NO. 2549	nhs-1552	AAAGAAGCGGAGACGCGTGTGCGTGCCTTACTGAAAGAGACC
SEQ ID NO. 2550	nhs-1553	CGTGAACTGGCCTCTCAGATTCATCGCGAGCTGATTAAGATT
SEQ ID NO. 2551	nhs-1555	GGCCCGGAAGCCTCTGCGTTTAAAAAGAAGATGGTGGAAAAT
SEQ ID NO. 2552	nhs-2642	CGTGAAGGCTTAGAGAAACATTTTCAAGCCATTATTGACAGC
SEQ ID NO. 2553	nhs-1562	AATGTGCGTGAGTTAAAAAATCTGATCGAGCGTGCGGTTATT
SEQ ID NO. 2554	nhs-565	ATTGAAAAAGTTGGTAAAATTCTGACGACGGCGCATTGGGAT
SEQ ID NO. 2555	nhs-440	GAAAAAGATGTTGTTCAGATTCTGAAGGCCGTGAGCGAGTTT
SEQ ID NO. 2556	nhs-1882	GCGGATAGCGTTGAGCCGATGTTTCGTCACTTAAAAAATACC
SEQ ID NO. 2557	nhs-2577	AAAAAAACCTTAAACGAAGGCCTGGGTTTACTGGAACGCGTG
SEQ ID NO. 2558	nhs-2475	GAAAAAACCATCCAATATGTGAAAGAGGCCATGAAAAAACAT
SEQ ID NO. 2559	nhs-266	AAAGGCGAACGCCAAGATCTGGTGGCCTACCTGAAATCTGCG
SEQ ID NO. 2560	nhs-262	CCGCAGGATGTTGTTCGTCTGGCGAACTGGGCCCATGAACAT
SEQ ID NO. 2561	nhs-260	GTGAGCGATTTAAAGAAATATATTGCCGAGCTGGAAGTTCAG
SEQ ID NO. 2562	nhs-2204	CAGGAAGTGGCCAAGGAACTGGCGGAGAACGCGCGTAAGATT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2563	nhs-2207	GAAAAAAATGTTGCCAAAATTTTTAAGACGGCGCGTGAGCTG
SEQ ID NO. 2564	nhs-151	ACCGAAAATGAGAAGTTTCTGGGCAAGTTAGTGCGTGACAAA
SEQ ID NO. 2565	nhs-2468	GTGATTGGCAACGAGACCAAAAAACAATACGAAGCGTTAGAA
SEQ ID NO. 2566	nhs-2220	ACCCTGAAAGCCTTACAGGAACTGATCGCCGATGTGCGCGAT
SEQ ID NO. 2567	nhs-149	AGCAAAGAAGTTTTAGTGCATGTGAAGAACCTGGAAAAGAAT
SEQ ID NO. 2568	nhs-252	GATATTTTTAACAAGAATATGCGTGCGCACGCCCTGGAAAAA
SEQ ID NO. 2569	nhs-2226	CCGAATATGAATGCCGAGCGTCTGCAGCGCACGGCGGATCGT
SEQ ID NO. 2570	nhs-2227	ACCGATAAATTCATCGATGCGGCGAAGCAAGTGGTGCGCGCG
SEQ ID NO. 2571	nhs-2231	ACCCCGCAGGTTTTCAAAGAAATTGACCGCCTGCGTGAGAAT
SEQ ID NO. 2572	nhs-250	ACCGAAAAAGTTGTTTTTGAACAGACGAAGGTGATTGCCGAT
SEQ ID NO. 2573	nhs-249	GATGCGCATCGCCAAAATCTGGTGAACTGGGTTGATAAAGTG
SEQ ID NO. 2574	nhs-2234	GATGCGAATTTCGAGCGTGTGCGTATGTTAGCCGATCAGCTG
SEQ ID NO. 2575	nhs-154	GGCCGTGATTTAACGGATTATCTGATGAAGATCCTGACCGAA
SEQ ID NO. 2576	nhs-2242	AAAAGCACCAACCGCGATTATCTGGCCGAGCGTCTGCGCGAA
SEQ ID NO. 2577	nhs-2456	CCGGAAGTGGCCAAGCAGTGGGAACGTTTAGTTCGTGCGACC
SEQ ID NO. 2578	nhs-2225	AAAAATGCGCGCGAGGATTTTCTGGACAACGCGGCGTCTCTG
SEQ ID NO. 2579	nhs-270	CCGACCCGTGACGCCCTGGAAAGCTTATTAGCGAAATTAGAT
SEQ ID NO. 2580	nhs-2176	GTGGGCGATTTAATCAAAGCGTATGACAACCAGAAAAAGCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2581	nhs-273	CAGGAACATCGCGACCTGGCGCGTGAGGCCGCGCGTAAGAGC
SEQ ID NO. 2582	nhs-2109	AATTATCGTACGATCACCAAAGCGATCATCCGTCATGTTGAA
SEQ ID NO. 2583	nhs-2111	ACCGAACAGAAGAAGCAGGTGTTTAAGGTTGCGAAAGAGGCG
SEQ ID NO. 2584	nhs-2490	AAAACCGAAGTTAAGGAAATGCTGAATTTAGCCGCGAAACAT
SEQ ID NO. 2585	nhs-2124	GAAGAAGTGAAGAAGAATGTGCTGACGCAACTGAATCGCGTG
SEQ ID NO. 2586	nhs-2126	GTGGAAGAATTCAAGAGCATTATTGTTGACATTCAGCGCAGC
SEQ ID NO. 2587	nhs-140	GCGGCGACCTTAGAGGAAAAACTGAACAAGATTTTTGAGAAA
SEQ ID NO. 2588	nhs-141	GCGACCCAGGTTTTAGCGGAAGTGGAGGAGGCGAAAAAGGCG
SEQ ID NO. 2589	nhs-294	GAAAATCGTTTACGCGAAACCCGTTTAAACCTGAGCCGCCTG
SEQ ID NO. 2590	nhs-2133	GAAAATCTGGGTGCCCGTGTGAAAGAGTTATATCTGCAAAAA
SEQ ID NO. 2591	nhs-2485	AAAGCGAAAGCCCACACCATTACCGTTGAGGCGCATTCTACC
SEQ ID NO. 2592	nhs-288	GAAAGCGCGTACTTAGATAATCTGAAGAAGGAACTGGCCAAT
SEQ ID NO. 2593	nhs-284	ACCGAAATGGCGAAGAAGATTACCAAATTAGTTAAAGATAGC
SEQ ID NO. 2594	nhs-2147	CGTAGCGATTTACACGCGACCCTGGTTGACGCGGCGCGCGCG
SEQ ID NO. 2595	nhs-2150	GATGAAATTGTTTCTGCGCAGAAACCATTCGTGGCGAAGCAT
SEQ ID NO. 2596	nhs-2151	GATGATATTGTTGAGCAGCAGAAACCAATCGCGATTAAGCAT
SEQ ID NO. 2597	nhs-2156	ACCGAAGAAATGCGCGACCTGGTGCAGCGCGAGACCGGCAAA
SEQ ID NO. 2598	nhs-278	GCGGCGGCGGAGAAGCAGCGTCTGGCCTCTCTGCTGAAGGAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2599	nhs-277	AAAAAACAGTTAGAGGATGTGTTTGTTTTACTGAATGAGAAT
SEQ ID NO. 2600	nhs-2166	ACCGAATATGTTGACGCGCTGAAAAAGTTACAGATGCTGCAT
SEQ ID NO. 2601	nhs-2167	AAAAGCAGCGTTGCCATGCTGGTGGAACGCAAGCTGCTGGAA
SEQ ID NO. 2602	nhs-274	GCGAAAGTGTCTGAGGCGCTGGAAAAGCGCTATAGCATGACC
SEQ ID NO. 2603	nhs-2247	GGCGAAAAATTATACACCGGCCTGCGCGAGGTGGTGACGGAA
SEQ ID NO. 2604	nhs-243	GGCGAAAGCTTAAAGAATCTGATTGACTTCCATATTAACCAT
SEQ ID NO. 2605	nhs-2253	CAGCTGGAATTACGCGATGCGGTGGAGCACGCGCGTACGACC
SEQ ID NO. 2606	nhs-2254	GCGGCGATTACGCACACCGCGCGTATGGCCGACAAACTGCGT
SEQ ID NO. 2607	nhs-2432	GAAAATGCGCGCAAGTATGTGGAACGCGTTAGCGAATTAACC
SEQ ID NO. 2608	nhs-2430	CTGACCGAAGTTCAAACCATTGTGGAGCAAGTGAAAGAGAAA
SEQ ID NO. 2609	nhs-2328	GAAATGCGTAAGGGTATTGATCTGGCCACGACCCTGGAGCGT
SEQ ID NO. 2610	nhs-2332	CTGACCCGTGCCGCCGTGGAACTGGCCAAGGAATGGCGTACC
SEQ ID NO. 2611	nhs-2426	CGTCAGACCGAGGACCAGCTGAAAAAGTTAAAAGGCTACACC
SEQ ID NO. 2612	nhs-2337	GATCAGCAGCGCGACTTTCAGCGTGAGATCCAGATTTTAAAA
SEQ ID NO. 2613	nhs-169	GCGGATAAATTATTAACCCTGGAAGTTAAGAGCCTGGACACC
SEQ ID NO. 2614	nhs-171	CTGGAAGCGGCCCGCCAGTTTAGCGAGGCCGTGAAAGCCGAA
SEQ ID NO. 2615	nhs-203	AGCCGTGTGGCCGACTATCGTGATAACATGGCCAAACAGACC
SEQ ID NO. 2616	nhs-173	GATCATACCAAGAAGGCGGTGCTGGAGGCCAAAGAAAAGACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2617	nhs-2351	GAACGTGGCAAGAAGCAGGCGAAATTATTAGCGCAGGAGCTG
SEQ ID NO. 2618	nhs-2355	ACCGAAGAATTAGTTCAGAAAATTAAGGCCATTAAAGAGGTG
SEQ ID NO. 2619	nhs-199	CTGCTGAAATCTGCCGTGGAACTGGCCAAGGATTGGCGTACC
SEQ ID NO. 2620	nhs-2375	CCGGAACGTACGGAGGTGCTGGGCCGCGCCGCGGAAGCCACC
SEQ ID NO. 2621	nhs-2379	CTGACCAATCACCAAAAATTTGCGAAGGCCAATGTGCGCGAA
SEQ ID NO. 2622	nhs-2385	CAGGTGCGTACGGAGGAACTGCTGACGGGTCGTGCGTTAGAA
SEQ ID NO. 2623	nhs-2410	CTGGAAAATGTTTTAGAAGCGGCGCGCCACCTGCATCAAACC
SEQ ID NO. 2624	nhs-189	CCGCGTGATGTTGCCGTGAGCAGCTTCCACCATGCGCGCCTG
SEQ ID NO. 2625	nhs-2395	GATGAAACCTTATTCAAAACCCTGGTTAAGGCGAAAGAGCTG
SEQ ID NO. 2626	nhs-2407	CCGAAAGTGATCCACCAGGCGCTGGAGGACAAAATTGCCCAG
SEQ ID NO. 2627	nhs-2400	CGTGAACAGGCCGAGCAGGTGCTGCGCGTTGCGCTGAAGCAT
SEQ ID NO. 2628	nhs-214	GATGGCGAAATGTACCAAACCCTGCGTTTAGCCAAAGAACTG
SEQ ID NO. 2629	nhs-2107	GATCATGGCAAGACGACCCTGAGCAAGGTTCTGACCGAGATT
SEQ ID NO. 2630	nhs-2316	CGTGCGGAAGTTGCCATGATGCTGAATGATCGCAACCGTGAA
SEQ ID NO. 2631	nhs-2312	CCGGATGAAGCCGCCCGTCAGGCGTTAGAGAAACAGCGCGAA
SEQ ID NO. 2632	nhs-158	GATACCCTGCAAGCCCGTGCGATGCTGGACATCGTGAAACGT
SEQ ID NO. 2633	nhs-2452	CAGGTGCGTTTAGAGCGTATTCTGGACGAGATTAGCAAGGAA
SEQ ID NO. 2634	nhs-2260	CTGGCGACCAAGTTATTTGATAATTTAGAGCGTGTGAAGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2635	nhs-230	CCGCGTACCTTAAACGCGTGGGTGAAAGTTGTTGAAGAAAAA
SEQ ID NO. 2636	nhs-2447	AGCGCGGCGGAGCGCGAACTGATTGGTCGCTTTCAGGACCGT
SEQ ID NO. 2637	nhs-2270	AAAGCGCTGGACAAGGTGGAAAAAGTTTTAGTGAGCGCCCAG
SEQ ID NO. 2638	nhs-2272	CGTAAACAGTTACACCAGCTGGTGGACTTCGCGAAAACGAAT
SEQ ID NO. 2639	nhs-2279	CTGGAAGAAGCCGTTAATGCGGAAGCCCGCAAAATTGCCAAT
SEQ ID NO. 2640	nhs-2280	GCGGAAAGCGTTGAGCAGGCGATTGCCGCCCGTGAACACCGT
SEQ ID NO. 2641	nhs-2442	GATGAACAGCGCAAGCTGCTGAAAGAGGCCCAGGCGGAGCAT
SEQ ID NO. 2642	nhs-2282	TTTAAAGAAATCTCTGATGATGTGAAGGAGAAAAATAAGAAT
SEQ ID NO. 2643	nhs-2284	GTGGAAAAAGTTTTAAAAACCCGTTACCACGATGCGACGAGC
SEQ ID NO. 2644	nhs-165	CGTGAAACCTTATTAACCATGGCGGAACGCGCCCGTGCGGCG
SEQ ID NO. 2645	nhs-2286	GCGGATAAAGTTTACAAAACCCTGCAACGCCTGCGTGACCTG
SEQ ID NO. 2646	nhs-224	CCGGATGATCAACAAAAAGAAGTGGTTAACATGGCGCAGAAA
SEQ ID NO. 2647	nhs-2292	GTGGAACGTATCTTCAGCATTGTGGAGCAACGTCTGGAGGCG
SEQ ID NO. 2648	nhs-2294	TTTGATGATGTTACGGATCTGCTGCGCAAGACCCTGGTTAGC
SEQ ID NO. 2649	nhs-2306	GAACGTGAAGCCTCTGATATTATTAACAACCTGCGTAACTTT
SEQ ID NO. 2650	nhs-2307	TGGGATACCTTAGAGGCGGTGGTGAAGGAGAAACTGGCCAGC
SEQ ID NO. 2651	nhs-2309	GCGGATGCGCACTCTAATCTGGCGTCTATCCATAAAGACAGC
SEQ ID NO. 2652	nhs-2311	GAAGCGAGCGTTCGCCTGGCGGAACGCTTAGCGAAACAAGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2653	nhs-2434	GCGGCGATTAAGGCCAAAGATGATTTCCAAATGGAAATTACC
SEQ ID NO. 2654	nhs-439	AAAGAAGCGGCCACGGCGGTGGCGAAGGCCTTTGAACAAGAA
SEQ ID NO. 2655	nhs-298	TATAAAAAACGCTTAAATGAACTGATCACGGATGCGTTAATT
SEQ ID NO. 2656	nhs-299	GGCGAAGTGGCCCAAATTATTCGTAAGGTTGGCACCCGCGAA
SEQ ID NO. 2657	nhs-1869	GAAGTGGAAAAGAACCTGGTGCGTGAGGCCGTGAAAAAGAGC
SEQ ID NO. 2658	nhs-1872	AAACTGGAACGCGAGCGTATGCAGAATGAGTACGCGAAAAGC
SEQ ID NO. 2659	nhs-1875	GAAAGCGATTTAAAGCGTATTGGCGCCATCCATTTTAAGACC
SEQ ID NO. 2660	nhs-1877	GATAATCAGATCGGTGAAGTGGTGAAGGGTTTTGAAAAGAAA
SEQ ID NO. 2661	nhs-1880	TATAATGATGAGAAGAAACTGGCGTCTAACGAAATTGCCAAT
SEQ ID NO. 2662	nhs-1363	ATTACCAAACACATGGAGCGTTATCTGGACATCCTGAATAGC
SEQ ID NO. 2663	nhs-1886	TTTAATCGTGACATCCAGCTGCTGAAGGCCCTGGATAACGAA
SEQ ID NO. 2664	nhs-1887	ATTCTGGAAGCCCAAAAAATTAAAAAGTTAGCGGATTCTGCG
SEQ ID NO. 2665	nhs-398	AAAGAAACCCAACAACGTCAGATTGACTTATTTACCAAGGTG
SEQ ID NO. 2666	nhs-2564	GATGCGAGCGAGGTTACCATTCGTAAGGCCATTGCGCGCTTT
SEQ ID NO. 2667	nhs-1892	GTGCAGGAAGCCCAAGGCAAATGGCCGGCCTTAAAAGAAAAA
SEQ ID NO. 2668	nhs-2559	CTGGGCAAAACGTTAGATGATCAGGAGCGCAAAATTGCCAAT
SEQ ID NO. 2669	nhs-392	CTGACCAAAGCCGCCGTGGAACTGGCCAAGGATTGGCGTACC
SEQ ID NO. 2670	nhs-2557	GATTATCGTGGTGGTCAGCTGGCGGCCAAGCATCTGCAAGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2671	nhs-1901	GTGGAAGGCATCTTCAATGATGTGGTTGAGAATGTGAAGCGT
SEQ ID NO. 2672	nhs-1902	CCGGAAGATAAGTCTCGTATTGTGTCTGAGCTGAAAGACAAA
SEQ ID NO. 2673	nhs-108	GAAGTGACCGTTCGCAATCGTTATAAGGAGCTGGTGGAGAAA
SEQ ID NO. 2674	nhs-2553	AAAATTGTGCAAGAGCGTCTGGAAAAGGTTATTGCGTCTGCG
SEQ ID NO. 2675	nhs-1911	CATGAAGCGTTCCAAAATCGTGTGAACGAGCTGGCGGCCAAA
SEQ ID NO. 2676	nhs-1914	GCGGAACATCGCACGCTGGCGCGTGAGGCCGTGCGTAAGAGC
SEQ ID NO. 2677	nhs-1895	CCGCCGGATCACACGCGTCTGCGTGGTTTAGTGAGCAAGGCG
SEQ ID NO. 2678	nhs-1865	ACCCGTGAATTATTCGAAGGCGCGGTTCGCCAGATTCGCCTG
SEQ ID NO. 2679	nhs-1864	GAAAAAACCGTTGAGGCGTTTGCGGAGGCCGTGAAAACGGTG
SEQ ID NO. 2680	nhs-1862	AGCGATCTGGTTGACCAGGGCAAAGAGCGCCTGAATCGCCTG
SEQ ID NO. 2681	nhs-436	ACCGATGTGGACGCCGCGAATCTGCGCGAGACCTTTCGCAAT
SEQ ID NO. 2682	nhs-1813	ATGCGTGAACGCATCGAATTTCTGAACGAGGCGAGCGTTATG
SEQ ID NO. 2683	nhs-103	GAAAAAGATCGCAACGATCTGATTACGTACCTGAAAAAGGCG
SEQ ID NO. 2684	nhs-432	AAAAGCACCGTTTTAGCGAAAGTGAAGGAGATTCTGGACAAT
SEQ ID NO. 2685	nhs-1824	CTGACCCCGCGCAAGCGTCTGAAAGAGTCTCTGGATCAAATT
SEQ ID NO. 2686	nhs-1826	GAAGAAACCACGGCCAAACTGATTTACTCTAAAGTGCGCACC
SEQ ID NO. 2687	nhs-1827	GATCGTGTGCGCGAGAGCCTGTTTAACATCGTGACCGCCCGT
SEQ ID NO. 2688	nhs-428	GATGTGACCTTATTAAAAACCCTGGACAAGGCGGTGAAGACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2689	nhs-1830	GAAAAAACCGTTGAGCTGCTGCGTAACGTTCTGAAAGAGAGC
SEQ ID NO. 2690	nhs-1837	GGCAGCAAAGAGATCGATACCGTGATCGAGCTGAAAAAGCAT
SEQ ID NO. 2691	nhs-1840	CGTGCGGTGAACAACGAATATGTGAAGGTTATGCGTGAAAAA
SEQ ID NO. 2692	nhs-1841	GAAATTACCTCTAAGAAAATTGCGCGCGAGCGTATTGACGCG
SEQ ID NO. 2693	nhs-1842	GAAGATATTTCTAAGAAAATTGCGCAAGAGCGTATGGATGCG
SEQ ID NO. 2694	nhs-1844	TGGGGCGTGACGAAGGCGGCGGAAAAGCAAATGAAAGATAAA
SEQ ID NO. 2695	nhs-2571	AGCGATCTGGTTTACGAAACCATTAACCGCGTGAAACGCATT
SEQ ID NO. 2696	nhs-2570	CCGAAAGAAATCCAAATTCAGATTCGCAAGTTTGTGGGTGAA
SEQ ID NO. 2697	nhs-104	GAAAAAGATCGCAACGATAGCATTACGTACCTGAAAAAGGCG
SEQ ID NO. 2698	nhs-419	ACCAGCGTGAAGGTTAAAGAAGCGGTTGAGGCGGTGCGCGAT
SEQ ID NO. 2699	nhs-1855	ACCAGCGCGGTTTACAATGAACTGGACCGCCTGCGTGAGGTG
SEQ ID NO. 2700	nhs-413	GATAAAGTGGCCTTAAATTGGCTGAAAGGTTTAAAAGAAAAT
SEQ ID NO. 2701	nhs-1857	AATCGTATGATTGACTCTGTGCTGGAATCTGCCCGTGATATG
SEQ ID NO. 2702	nhs-1915	CTGAGCGTGATGAAGGAGACCTATGAAACGGTTATGAAAAAA
SEQ ID NO. 2703	nhs-1916	CTGTATCAGCGCATCGCGAAAATTGTTTCTATTGATGACGAT
SEQ ID NO. 2704	nhs-1920	GAAGAAACCCAACGCACCTTTCTGAAGGAGGTGAAAGTTATG
SEQ ID NO. 2705	nhs-1922	CCGGAAACCGCCGAGACCCTGTATAAGGAGATTCGTAAGGTG
SEQ ID NO. 2706	nhs-337	CTGGATGCGGTTCGCACCCTGAAAACGGTTATTGATGAGAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2707	nhs-2012	CGTACCGCGGTTAAGAAAGTGATTGACCAACTGAAATTAGAA
SEQ ID NO. 2708	nhs-2013	CCGGCGCGTGTTGTTCAGCTGTTTCGCGACGTGGAACAAAAA
SEQ ID NO. 2709	nhs-2015	CATAGCGAAACGGTTGCGAAACATGGTGCCAAACTGTCTGCG
SEQ ID NO. 2710	nhs-2018	AGCGCGCATTTAGACCGTCTGCAGAAGGCCGCGGATAAGATT
SEQ ID NO. 2711	nhs-331	GGCAAAACCTTAGACACCGCGAAAGCCGTTGCGGATGAGCTG
SEQ ID NO. 2712	nhs-2030	GAAAGCATGAATAAGGAGCTGAAAAAAATCATCGGCCAGGTG
SEQ ID NO. 2713	nhs-2033	CATGATAAAGCCATCGAAGCGTATGAGAAGACCATTTCTATT
SEQ ID NO. 2714	nhs-2516	CTGGATACCGTTCGCGAAGAAGTGAAGACGCTGAAAGAGCGT
SEQ ID NO. 2715	nhs-326	AATAATCGTATGGAGTTAAAAGCGGCGATCGAGGGCCTGAAA
SEQ ID NO. 2716	nhs-2046	AAAAATGTGGCCGCCGCGGAACGTCAATTACGTGAATTAGAA
SEQ ID NO. 2717	nhs-2048	CTGACCGAAACGGTTGGCGAACTGGTTCGCGTGGCGGAGCGT
SEQ ID NO. 2718	nhs-2063	GATATGTGGGTGACGATCGATAAACGTATGGCCGAGATTACC
SEQ ID NO. 2719	nhs-2065	CCGCTGAAAACGGCCCATGATGTGCGCGTTACCTTTGCCCGT
SEQ ID NO. 2720	nhs-2074	CCGCATGATACGTTAAATCGTATTAAGAAGTATCTGTTAACC
SEQ ID NO. 2721	nhs-2076	GAAAATACCGCCATCCATCATTATTTAGAGGCGCTGAAGGTG
SEQ ID NO. 2722	nhs-305	ATTGGCGATACGGCCAAAAAACTGGGTGAGATGTGGAGCGAA
SEQ ID NO. 2723	nhs-2082	AGCCTGGATAAGGCCAAAGCGCTGAAGGAGCAGCTGGAGAAA
SEQ ID NO. 2724	nhs-2500	GCGCGTCAGGACTTCCAGCGTGAAGCCGAGCTGCTGACGATG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2725	nhs-2089	TTTCGTGATTTAGCCCTGCGTGTGGACCAAATTCGTGACCAG
SEQ ID NO. 2726	nhs-300	CATGATATTAAGGAGGATTTTAGCAACTTAATTCGTACGCTG
SEQ ID NO. 2727	nhs-120	GAACGTACCCGCAAGACCGGCGAAGCCTTCGCGGCGGGTCTG
SEQ ID NO. 2728	nhs-2102	CCGCATCAGTTACGCCATAGCTTTGCCACGCATATGCTGGAA
SEQ ID NO. 2729	nhs-2006	AAAACCCTGGCCGGTCAGCTGCATTCTGAGCTGAAAGAGTTT
SEQ ID NO. 2730	nhs-1998	CTGTATGATGCCTTAGAAAAAGCGCGCGACCTGCTGAACAAT
SEQ ID NO. 2731	nhs-2551	TGGCGTGCGGCCATGCGCAAAGCGGATACGGCCCTGAGCGAA
SEQ ID NO. 2732	nhs-1926	GATGAAACCTTATTCAAAACCCTGATCCGCGCGAAAGAGCTG
SEQ ID NO. 2733	nhs-1939	GTGCAGGAAGGTGTTGATAAAATTCGCCACTTTCAGGAGCTG
SEQ ID NO. 2734	nhs-376	CGTGAAGCGCACGAGACCCTGGCGATCGCCATGAATCGTCTG
SEQ ID NO. 2735	nhs-2542	ACCGATCAGTTAGTTCGTTTTATTGACGAGGCGCATCGCGCG
SEQ ID NO. 2736	nhs-365	GATCAGGAACGCCAAGTGTTTCAGAAGGCCCTGGGCAAGCTG
SEQ ID NO. 2737	nhs-364	AAAACCCATTTATTACAGGCGGCGGGTAACGAAGCGAAGAAA
SEQ ID NO. 2738	nhs-1964	CATGAATTTTTATCTAAAGTGAGCCACCGCATTGTGAACGAA
SEQ ID NO. 2739	nhs-2539	GATACCATGAAACAAGCCTTTGATCGTATGACGAAGCTGCGT
SEQ ID NO. 2740	nhs-113	CTGGAAGAATTATTCAGCAAAATTAAGAACACCCTGAAGGTG
SEQ ID NO. 2741	nhs-1973	GATATTGTGCGCGAGCGTGCGATTAAGTTCCTGAGCACGAAA
SEQ ID NO. 2742	nhs-1976	GTGACCAAAATCAAGGAAGTGCAGCGCATCGCGGTGGAGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2743	nhs-116	CGTGCGAGCTTAAAGAAACTGATTGACTACCATGTGGCCAGC
SEQ ID NO. 2744	nhs-2532	CCGGCGGAATTCGTTGATATTAAACACCGCCTGACCCAAATT
SEQ ID NO. 2745	nhs-2528	CTGCGTGATATCGTTCGTGCGAATGAGCGCGGCATTCAAGCG
SEQ ID NO. 2746	nhs-1982	CTGGGCCCGCACGAGGCGAATCTGTTCGACATGCGTCAGAAA
SEQ ID NO. 2747	nhs-2527	CCGATTAAACACGTTAGCCTGATGGATCAACGCGCGCGTCAG
SEQ ID NO. 2748	nhs-353	GATCTGCTGAAGCACACCACCAATGTTGTTAAAGCGCACACC
SEQ ID NO. 2749	nhs-352	AATGAAACCCGCGAGAAACTGCATCAATTAGAAAAATCTCTG
SEQ ID NO. 2750	nhs-1988	GATAAAGTGCGCGAGAAAATTACCTTAGTTGAAGAAAAGACC
SEQ ID NO. 2751	nhs-1990	AGCGAAGTGCGCGAGCAGATTAATGCCAAGGTGGCGGAGTGG
SEQ ID NO. 2752	nhs-345	CGTAAAATTACGGACGATCTGGTGAAGAACGTGGAAAAGCTG
SEQ ID NO. 2753	nhs-1354	AATCAGCTGGACTCTCAGCGTCTGAAGGAGCGTCTGTACAAT
SEQ ID NO. 2754	nhs-1638	AAAAAAGAATTAGAGGTGCTGAGCCAAAAGCTGCGTGCCCTG
SEQ ID NO. 2755	nhs-181	ACCGCGCTGGCCGACACCGGCGCGAAGTTACATGATAAGTAT
SEQ ID NO. 2756	nhs-2714	GAAGTGATTGACAAGATTCAGAAAAAGACGCGTGAATTCCTG
SEQ ID NO. 2757	nhs-798	CCGCAGGAAAAGGACATTAGCAGCAAGTTACTGAAAGCCCTG
SEQ ID NO. 2758	nhs-1023	CCGTATAGCTCTCGCCTGAAAAAAATCGGTGAACTGTTAGAT
SEQ ID NO. 2759	nhs-1259	CCGTATAGCTCTCGCCTGAAAAAAGTTGGTGAACTGTTAGAT
SEQ ID NO. 2760	nhs-1027	CGTGCGAAAGTTTTAGGCGCGCGTAACTTACATGAATTAACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2761	nhs-2771	AAAGAACTGCACACGGAACTGGAACAAGCCGGCCGTTTCGTG
SEQ ID NO. 2762	nhs-1031	GAAAGCGTGCGCGACGCGCTGGTGCGCGCCCAGGATTACATT
SEQ ID NO. 2763	nhs-1036	GATCAGCTGCGCGCCGGCTATGTGGCCCGCGCGAGCGAGCGT
SEQ ID NO. 2764	nhs-794	AGCGAAGGCTTAAAGAGCGTGGTGGACCACATTAAAGCCAAT
SEQ ID NO. 2765	nhs-1039	CCGCGTGAAGTTATCGAAGCGATTAAGAACCTGGCGAAGACC
SEQ ID NO. 2766	nhs-2769	CTGAAAGATGCCATCAATGAAGCGATGCGCGACTGGGTGACC
SEQ ID NO. 2767	nhs-1045	TATGCGCTGCGCAAGCATCTGGTGGAGTTAGCGAAAACGAAT
SEQ ID NO. 2768	nhs-1049	TGGGAACGTTTATTAGAAAAACGTCAAATCGGCGCGGACACC
SEQ ID NO. 2769	nhs-1246	CAGAATGGCTTAGAGCAGGCGAAAAAGTTCCATGAAGCCGTG
SEQ ID NO. 2770	nhs-2722	CTGGATGAATCTGTTGGCAAAATTTGGCAAAAGCTGGTGGAT
SEQ ID NO. 2771	nhs-1244	CTGGAAAAAACGCACGAACTGAAAGAGGTTCTGAATAAGGTG
SEQ ID NO. 2772	nhs-1052	AATCGTGGCTTAGAGATTGCGAAAATCGCCGAAAAAGTTAGC
SEQ ID NO. 2773	nhs-1053	GAACAGCTGGAGAACGAAATTATTAAGGCCGGCAAAGCCAGC
SEQ ID NO. 2774	nhs-2768	CGTGAAAGCCAATTAAATGATGCGATCAAGATTCTGAACGAA
SEQ ID NO. 2775	nhs-1055	AGCGATCAGCGCGACGCGATTGTGAAGGGTCTGAAAGCCAAA
SEQ ID NO. 2776	nhs-707	GCGACCCAGGTTTTAAAAGAACTGGAGGAGGCGAAAAAGGCG
SEQ ID NO. 2777	nhs-1057	GATAGCGTGACGGCCCGTCTGCGTGAGGTTGAACATCGCGCG
SEQ ID NO. 2778	nhs-1239	CCGGGCGAACGCGACGCGCTGCTGGCCAACGAAGCGACGAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2779	nhs-2767	AATAGCAAAGCCAAGGAAAATGCGGAGACGACCCTGTTACGT
SEQ ID NO. 2780	nhs-2766	ATTACCGAAACGGCCAAAAAATGGGTGCCAGAGATGCGTGAA
SEQ ID NO. 2781	nhs-2774	TTTGAAAATTTAATCCCGATTCTGAAGACGGTGCATGAGAAA
SEQ ID NO. 2782	nhs-781	AATAAAGAAGCCAAGGCGTGGGCGAAAGGTGTTCTGGAAAAT
SEQ ID NO. 2783	nhs-802	GATGTGAGCAAGACGATTAAAGAAGCCATCGAAACCACGATT
SEQ ID NO. 2784	nhs-696	AGCATGGAATTATTAAAACAGGCGTACGACAAAGTGCGCGAA
SEQ ID NO. 2785	nhs-1298	AAACAGGAATTCGACACCCATATGGCGAACGGTAAAGATACC
SEQ ID NO. 2786	nhs-1297	CGTAGCAAAGGTAAGGAAGTGATGGAATCTTTCATTAAAGCG
SEQ ID NO. 2787	nhs-2789	CAGGAAAAAGCCAAGACCCTGCTGGACAAGGCGCTGACGCAG
SEQ ID NO. 2788	nhs-957	ACCCATCTGGCCGACGTGCTGGTGTCTAAGCAGTTTCACGAA
SEQ ID NO. 2789	nhs-2788	GTGGATAAAATCCGCGAATTTCTGCAAAAGATTAGCAAGGAA
SEQ ID NO. 2790	nhs-961	CGTGCGCGTATCCACGCGCTGCTGGACCAAGTGGCGGAGAGC
SEQ ID NO. 2791	nhs-689	CCGGATGTGACGCGCGATATTCTGGTTAACCTGGATAAGGTG
SEQ ID NO. 2792	nhs-968	ATTGATACCGTTTTATATATGAAAGAAAAGGCCACCAAAGCG
SEQ ID NO. 2793	nhs-2783	GAACTGTTTCGCAAGGAAGCGACCAAGTTAATTGGCCAAATT
SEQ ID NO. 2794	nhs-1288	TTTATTAAAATCAACGATCTGGCGGAGCAAATTGAAAAGATT
SEQ ID NO. 2795	nhs-828	AAAGATCGTATCGGTTTTAGCATGATTTCTGACGCGGAAAAA
SEQ ID NO. 2796	nhs-1286	CTGGAAAAAGCCAAGGAAACCATTTTATCTATTCTGAAGAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2797	nhs-2781	GAAAAAGTGCGCGAGAGCCTGCGTTTAACGTTTCATGACGCG
SEQ ID NO. 2798	nhs-818	CAGCAGCGTGACTTCCAGCGTGAAATCCAAATTCTGAAGGCG
SEQ ID NO. 2799	nhs-816	CCGCATGAATTAACGCGTGTGGCGTCTGCCCTGCGTAAGCTG
SEQ ID NO. 2800	nhs-2778	ACCGAACATTTAGACGCGGTGTTTCAACGCATGAAAACCGAA
SEQ ID NO. 2801	nhs-1277	GAAAAAATTCAAAAGGAAGCGCAGGAGGCCCTGGAAAAGCTG
SEQ ID NO. 2802	nhs-810	CCGGAAAATACGCGCCTGTTTGAAATGGTTAAGCGTAAAGAA
SEQ ID NO. 2803	nhs-997	CAGACCCATGCCAAGCGTGCGTATCGCGAGCTGGTGTTAATG
SEQ ID NO. 2804	nhs-998	ATGGCGAATATGCGCGCCGTGCGTGAATTAACGGAAGCGCAT
SEQ ID NO. 2805	nhs-1001	GATACCAAATTAGCCGAATATACCGACTTAATGCTGAAACTG
SEQ ID NO. 2806	nhs-1005	CAGCATGAACGCTACGTGGAACAGTTAAAGCAGGCGTTAAAA
SEQ ID NO. 2807	nhs-1273	AGCGAAAAAGGTATCGCGGATATTCGCGCCCTGCTGCAAAAA
SEQ ID NO. 2808	nhs-1008	CATGAAGTGTCTTTACTGAGCGCGGAGGGTGTGCTGCGCCAT
SEQ ID NO. 2809	nhs-1009	CTGGAAGAAGCCAAGGAAAATCTGTACAAGGCGGCGTCTCTG
SEQ ID NO. 2810	nhs-803	GAAAGCAAAGTTGAGGCGCTGGATGAGTTAGTGACCAAGAAA
SEQ ID NO. 2811	nhs-1299	GTGCGTCATCAACGCGCGGTGGAAAACCGCCTGCGTGAGGCG
SEQ ID NO. 2812	nhs-2723	GCGGAAGAATTATCTAAAGCGGTGGTTGAGACCGTGCGCGCG
SEQ ID NO. 2813	nhs-1236	CCGATTCGTGACAAGGAAGCGATTCGCGTTCTGAGCGACACC
SEQ ID NO. 2814	nhs-1153	AAAGAAAGCATCGACCGTATTATTCAAGTTGCGAAAGAGACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2815	nhs-728	GAAAAAGTGAAGGGTATTGAAGAATTAATCACCAATTACAGC
SEQ ID NO. 2816	nhs-748	GCGGAACAGAAGAAGGAACTGAGCGACATCGCGCTGCGCATT
SEQ ID NO. 2817	nhs-730	ACCGAACATCACGAGCGTGCGGAACGCGTTTTTAATTTACTG
SEQ ID NO. 2818	nhs-747	GATGCGAATGTTAAGCGTGTGGCGGACTTAATTAAAGAGAGC
SEQ ID NO. 2819	nhs-27	GTGGAAAGCGCCGTTACCCGTGTGAAGGCCATGATGGATGAA
SEQ ID NO. 2820	nhs-1157	CTGGAACGTCAAGTTTATGAACTGGAGAAGCTGCAGGAGAAA
SEQ ID NO. 2821	nhs-1193	GAAGAAAATCGCAAGGCGGTGAGCGACCAACTGAAAAAGCAT
SEQ ID NO. 2822	nhs-746	GGCAAAAATGCCGAGCTGATTAGCGAGAAGATTCTGAAGGAA
SEQ ID NO. 2823	nhs-1159	GAACAGCTGTTACGCAAAGCGGAAGCCCAAGCGAAAAAGGAA
SEQ ID NO. 2824	nhs-744	AAAGATAATGCCGACACCCTGGCGGCCCGCGCGAAAAACGCG
SEQ ID NO. 2825	nhs-29	CGTACCGAACGCGACAAACTGATGCAGACGGTTGCGCATGTG
SEQ ID NO. 2826	nhs-1162	AGCCATGATCGCTTACGTGTGCATCAAATCGCGGAAGAGCAT
SEQ ID NO. 2827	nhs-1163	AGCCTGGTGGTTTCTGAACTGAGCTTAAAGCTGCGTAAGGAA
SEQ ID NO. 2828	nhs-732	ATTGATGAAGGTGTTAAAATTGTGTTAGAGATTACCAAGAGC
SEQ ID NO. 2829	nhs-743	CCGCGTACCGTTGAGGTGCATCGTGCCAACGTGATGGCGAAA
SEQ ID NO. 2830	nhs-1166	AAAGAAGTGTTAAAGGAAAGCGCGAAGACGATTGTGGACAGC
SEQ ID NO. 2831	nhs-1186	AATGGCCAGTTATGGAAGAAAGTGAAAGACTCTCTGATTGAT
SEQ ID NO. 2832	nhs-1169	GATGTGGAACGCGCCATTGAAACCTTAATCAAAAATTTCCAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2833	nhs-1184	GAATTTCAGGACTCTCTGAAAAAAGTTGAGAAAGCGTCTCTG
SEQ ID NO. 2834	nhs-738	GTGGATAAAACGTTCCATGATCTGGTTCGCGTGATTCGCCAG
SEQ ID NO. 2835	nhs-1176	GCGACCGCGCAAATGGAGGAAAAACTGCGCGACTTTACCCGT
SEQ ID NO. 2836	nhs-28	CCGGAACAGAAGAAGGAACTGAGCGACATCGCGCATCGCATT
SEQ ID NO. 2837	nhs-1178	GAAACCGAAAAGGTTCAGGAATTTCAACGCCTGCTGAAGGAA
SEQ ID NO. 2838	nhs-2744	AGCACCACCGACCAACGTGAACAGGGTTTCAAAAGCGAGATG
SEQ ID NO. 2839	nhs-2749	GATAATGGCGAGCAACGTAAAGGCGGTGCCCTGAAAGCCTTT
SEQ ID NO. 2840	nhs-1069	CATGCGGATATCTACGATAAAGTGTCTGGTGATATGCAGAAA
SEQ ID NO. 2841	nhs-1146	CAGGCGACCCGCAACCGTGTGGAAAAGGCCGCGCGTGAGGTG
SEQ ID NO. 2842	nhs-1134	GAAGCGGTGCAAAAGGAACTGCTGGCCGAGTGGAAACGTACC
SEQ ID NO. 2843	nhs-779	TTTCGTGCGATGGCCTCTGATCAGCGTGAGTTAATGCGTACC
SEQ ID NO. 2844	nhs-1232	ATTGATGATGGTTTACGTAAAACCATCGAGTGGACCAAAGCG
SEQ ID NO. 2845	nhs-1230	CTGGCGGATTTCCGCCAGACCATTGACAAGGTGGATGCCATT
SEQ ID NO. 2846	nhs-1078	AAAGTGACCCGCGCCATTATTGAAAACGAGGTGGATAAGATT
SEQ ID NO. 2847	nhs-1080	AGCAGCCGTTTAAAGGATGTGGAAGCCGGTCTGAAAATCATT
SEQ ID NO. 2848	nhs-773	CCGGTGCTGGACGAGTTTGTGAATCACTTAAATCGTTTACGT
SEQ ID NO. 2849	nhs-772	CCGAAAGAACGCACGGAATGGATTAAAGCCATCCAGATGGCG
SEQ ID NO. 2850	nhs-33	ATTCCGCAGGCCGAGAAACTGGATCAAATGTTAAAAGAACAG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2851	nhs-769	GAAAAAGCGACGTTAGAATGGCTGAAAGCCATGAAGACCAAT
SEQ ID NO. 2852	nhs-2729	AAAGATCTGGTTTTAAGCGTGCATAACCGCGCGATTCGCAAT
SEQ ID NO. 2853	nhs-1101	CGTGATGATATGTTAGCCTGGATTAAAACCATCCAAGAAAGC
SEQ ID NO. 2854	nhs-1107	CAGAAAAAAGCCGACGCGCTGAATGCCGAGCATATTCGCATG
SEQ ID NO. 2855	nhs-1108	GTGGGCGATTTCACGGTGCGTCTGCGCGACCATCTGGACACC
SEQ ID NO. 2856	nhs-1110	GTGAATAGCTTAAAGAAAGCGCTGGAGGAGCTGAAAGAGAAA
SEQ ID NO. 2857	nhs-712	ACCTATAGCATCACGAAACGTGTGAAGGAGGTGCTGACGGAT
SEQ ID NO. 2858	nhs-1115	GAAACCGCGTTATTAGATTGGCTGGGCACGATGCGCGAAAAA
SEQ ID NO. 2859	nhs-761	GATAATGAAAAGAACCGTAAACTGTTCGACCTGCTGGACGTG
SEQ ID NO. 2860	nhs-1122	GATCCGACCCGCGAGCGTCTGAAAGCCGCCGCGCAGTCTATT
SEQ ID NO. 2861	nhs-1123	GTGGATGAAATCGTTGAAAATCTGCGCAAGCAGGTGAAGGCG
SEQ ID NO. 2862	nhs-759	GTGCCGCTGACGGTTAAAGAAATGAATCGCTTAATTGATGAA
SEQ ID NO. 2863	nhs-1128	GCGGAACAGGTTGTTCAGGGCATGAAAGAGGCCCAGGAACGT
SEQ ID NO. 2864	nhs-1129	CGTGAACTGGCCCGCCAGACCCTGGAGGTTGTGCAGGAGATG
SEQ ID NO. 2865	nhs-721	GCGAAAGATGTTGACAGCCGTGCGCGCGAGGTGATTTCTAAA
SEQ ID NO. 2866	nhs-1132	AGCACCGTGCGCGAGCAGCTGAAAAAGAAGCTGGTGGAGGTG
SEQ ID NO. 2867	nhs-756	GAAAAACAGGCCAAGGAAGTGCTGAAGCAACATTTTGAGAAA
SEQ ID NO. 2868	nhs-1142	ACCGTGCTGGTTCACCGTGTGCATTCTTACCTGGAACGCCAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2869	nhs-2708	CCGCATCATTTAGCCCAGGCGGAACGCAACGTGCGTGCCTTT
SEQ ID NO. 2870	nhs-2743	GTGGAACGTGGTATCACCAGCCTGCACCACGCGCTGGAGCTG
SEQ ID NO. 2871	nhs-2695	GATGAAGAACGCAAGACCATGATGAATCTGATGGTTGCCGCG
SEQ ID NO. 2872	nhs-894	GAAGGCACCTACCGCCAGCTGATTCGCTTACATCAGACGGAA
SEQ ID NO. 2873	nhs-1346	CAGAATCTGTTAGACGAACTGGATAACCGCATTATTAAGAAT
SEQ ID NO. 2874	nhs-1344	GAAAAAACCTTAATCAATAAAATTGCCGAGCTGAAAAAGTTT
SEQ ID NO. 2875	nhs-938	CTGGATGAAATCAACAAAAAAGAATTATCTATTAAAGAGGCG
SEQ ID NO. 2876	nhs-936	AAAGCGAGCTTAAACTGGCATCAGCGTAAGCACGCGGAAACC
SEQ ID NO. 2877	nhs-1323	AAAGATACCATGGCCAAGATTAGCAATGAGTTACATGCGATT
SEQ ID NO. 2878	nhs-2803	CGTGATACCTTAGAGCGTACCGCGGACGAGATTCGTGCCGCG
SEQ ID NO. 2879	nhs-934	CCGAAACTGACGATGGAGTATGTGGAACAAGCCATTAAAAAA
SEQ ID NO. 2880	nhs-1343	CCGGAACTGATCCAACCGATTCAGGACAAGATTAAAAACGAA
SEQ ID NO. 2881	nhs-933	AGCAAAAATGAGTTAAGCCGTGCGTTCAAGAGCCTGTTAGAA
SEQ ID NO. 2882	nhs-2795	GGCGAAGCGCACACGCGTATGCGTCGTTTATTCAATGCGGTG
SEQ ID NO. 2883	nhs-9	CATCGTGAACACATGCAACGTCTGCATGACTCTGCGAAAATT
SEQ ID NO. 2884	nhs-2703	CCGGATATTGAGAAGCAGGTGATGCGTCAATTCGCGGATACC
SEQ ID NO. 2885	nhs-851	AAAAGCACCGTTACGGGCCTGGTGAAGCGCCTGGAAGCCGAT
SEQ ID NO. 2886	nhs-890	CGTGAAAAAGCCCAAGAACTGGTGAACGCCGCGCATGAGTTT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2887	nhs-1315	GTGGATCAGAAGGTTAAAAGCACCCAAGACGTGCTGAAGAGC
SEQ ID NO. 2888	nhs-1332	GATCTGCTGCAACACACCGCGAATGTTGTTAAAGCGCACAAA
SEQ ID NO. 2889	nhs-2813	GCGAAAGATGACCGCGTGTTTCAGTTAGCCGTGAGCGACCTG
SEQ ID NO. 2890	nhs-664	AGCGCGGATCGCGAGAAACTGGAACGCTTCAGCCATTCTGAA
SEQ ID NO. 2891	nhs-1340	GCGGAAACCGTTGGTCGTGTGAAACGCTTCATTCAGGAGGCG
SEQ ID NO. 2892	nhs-849	CGTCAGAAAGCCGAGCAGGTGGCGGACGAGATTTATCAAGCG
SEQ ID NO. 2893	nhs-673	GTGCTGAGCAAGTTACTGCGTGATTCTCACGTGCTGCACAGC
SEQ ID NO. 2894	nhs-1338	ATTGAAAATAAGGCCGCGGATTATTTAAAGGTGAGCGCCAAA
SEQ ID NO. 2895	nhs-940	AAAGAACTGCGCGACTGGATTGCGCAGACGTTAAATGATCTG
SEQ ID NO. 2896	nhs-659	GAACGTCAGATCAAGAAACAGACCGCCTTAGTGGAATTAGTG
SEQ ID NO. 2897	nhs-886	GGCGAACTGGGTCAAGCGGTGAGCGAGGGTCGTAAAAAGGAA
SEQ ID NO. 2898	nhs-877	GAAAAAACCGGTGTTGATAAAATTGTTGAGCATGTGAAGAGC
SEQ ID NO. 2899	nhs-875	GCGCATGATCGCAACCTGGCGAGCTTAGTTGAAAAATACCTG
SEQ ID NO. 2900	nhs-903	TATAATCTGGCCTTAGATAAAGCGATCCAAAAACTGCACGAT
SEQ ID NO. 2901	nhs-878	GAAAATACCATCAAGACCACCCGTCGCGTTCTGGAATTAGTG
SEQ ID NO. 2902	nhs-874	CTGGATGTGCGCATGCAACTGAAAGAATTAGCCCAGAAAGAA
SEQ ID NO. 2903	nhs-857	GATGATCAGTTAAAGAGCCATGTGCGCGGTGCGCTGAACGCG
SEQ ID NO. 2904	nhs-945	GAAGGCCAGTTAAAGCTGGCGCTGAAGACGCTGGAAAAGGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2905	nhs-872	GAAACCGGCAAGGAGAAACTGCTGATCTCTAAAATTTTCACC
SEQ ID NO. 2906	nhs-2815	CGTCTGTATCGCGAGCTGCAGGCGGTTGCCGAAAGCTTAAAA
SEQ ID NO. 2907	nhs-906	AATGTGCTGACGGCCCGTGTGCTGGACAAGCTGGATAAGTAT
SEQ ID NO. 2908	nhs-2699	CTGAATGATGCCATGAACAAAGCGACCAAGTTCCTGAAAGAT
SEQ ID NO. 2909	nhs-683	CTGGCGGCGGCCCGCCAGCATGCGCGCGACGTGCTGGACCAG
SEQ ID NO. 2910	nhs-871	CAGGAAATTCAAGTTCTGCGTGTGGTTAAGAATTTTGAGCAT
SEQ ID NO. 2911	nhs-48	ACCTGGGATTTAGTTGCGGATATTGAGCGCCTGCGTACGCAT
SEQ ID NO. 2912	nhs-2814	CGTGAAGAAGCCATCAGCAATATGGTGGTTGCCCTGAAAGAA
SEQ ID NO. 2913	nhs-1306	GAAACCTATAAGTCTAATCTGAAAATCGCCGAACTGAAGCTG
SEQ ID NO. 2914	nhs-2811	GAAGCGGATTTATCTAAAGAACTGGCCATCCAGGTGCGCAAAGTG
SEQ ID NO. 2915	nhs-1102	GTGGAAGAAGTTAACGCGCTGAAAAACGAGATTCTGAAGGCGCAT
SEQ ID NO. 2916	nhs-1105	AAAAAAATTACGCAATGGCTGGAAACCAAGGGTGTGGAACGCCTG
SEQ ID NO. 2917	nhs-1955	GAAGATCTGCGCACGAAAGTGGAAAACACGACCAAAAAGATTTTT
SEQ ID NO. 2918	nhs-368	CCGACCAAATTCGCCGAAATTGTGGAGGAGAATCTGAAGAGCGCG
SEQ ID NO. 2919	nhs-1942	GTGTTTGAAACGTTAAAAGAAGTGTCTCGCCTGGTGTTAGCGCGT
SEQ ID NO. 2920	nhs-2427	CAGATTCAGCGCGAGCTGAAAAAATTAGAGCAGCGTTTAACCGCG
SEQ ID NO. 2921	nhs-397	GCGAAAGAAAAGACGGATCTGGTGCAAAAGTTTGGCGAGAGCCTG
SEQ ID NO. 2922	nhs-1109	CATCGTGAATTATGGGCCAAAATTGCGAACTCTATTAATGACATT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2923	nhs-205	TGGCAGGATATCTCTATGATGCGTATGAAAACCATCGGTGAACAT
SEQ ID NO. 2924	nhs-399	ACCCAGAATTTAGCCAAATTTGCGGTTGACGAAGAAAACAAAATT
SEQ ID NO. 2925	nhs-2757	AGCGAAAAAGCCGTTCGTGAACTGTTCGCCCGTGCGCGCGATAGC
SEQ ID NO. 2926	nhs-1353	CGTGGCACCAAGGCCCTGATGGATGAAGTTGTTAAAGCGACGAGC
SEQ ID NO. 2927	nhs-402	CTGCATCAGGCCATGCGCGCGGCGGGCGACGAGTTTGAAACGCGT
SEQ ID NO. 2928	nhs-764	CTGGAAGAAACGAAGGGCCAGATTAACAACAGCATTAAGGATCTG
SEQ ID NO. 2929	nhs-2354	AGCACCGAAGTTGCCGAACGTGCGCGCGACCTGGTGCGCGCGACC
SEQ ID NO. 2930	nhs-1890	CGTGATGCGACGTTAGCGCAGGCGAAGGAGCTGTGGGCGAAGGTG
SEQ ID NO. 2931	nhs-1076	GAACGTCTGCACAACCAGCTGAAAGCCTTAAAACAGGACCTGGCG
SEQ ID NO. 2932	nhs-2543	ATGGATGATTTCATCAAAGCGCTGCGCACGATTAAAGAGAAAAGC
SEQ ID NO. 2933	nhs-891	AGCGATGAAGTTCAACTGATTAAAAAGACGTGGGAAATTCCAGTG
SEQ ID NO. 2934	nhs-1941	CCGGAAAGCGACAAGCTGAAAAGCGAGGGTAATGCGGCCATGGCG
SEQ ID NO. 2935	nhs-21	GTGAAATATAAGAACGTGGCGAAAGAGGTTGCGAATGACATTAAA
SEQ ID NO. 2936	nhs-1083	CGTACCGAATTATTAGATATTGCGGCCACGCTGTTTGCCGAACGT
SEQ ID NO. 2937	nhs-2547	CGTCAGCTGGAGGCCCTGATTCGTTTATCTGAAGCGCACGCGCGT
SEQ ID NO. 2938	nhs-379	CGTGAAACCAAGACGCTGATTGTGGAGGCCATTGTGCGCGAAACC
SEQ ID NO. 2939	nhs-1930	GCGGATGAAGTTAAGGCGATGATTAAAGAGGTTGTGAGCCAATTT
SEQ ID NO. 2940	nhs-372	CTGGATGAAGTTGTTGCGATGCAGAAACCATTCGTGCAGAAGCAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2941	nhs-2338	GCGAGCAAATCTATCAGCGATATTTCTTTCGAAGTGGACCGTCTG
SEQ ID NO. 2942	nhs-1089	CATAGCACCAACGTTCTGCTGAGCTTAAACGATCAGCGCAAAAAA
SEQ ID NO. 2943	nhs-371	GAAGAAACCGCCCAAAAAGTGATTAAGTTACTGAATGCCCTGGAA
SEQ ID NO. 2944	nhs-385	CGTCAGGCGTTAGGTGAAGCGCGTGAGGTTATTAAAAACCTGGCG
SEQ ID NO. 2945	nhs-403	GAAAGCGAAACGAAGAGCACCCTGTTATTCGGCCAGCGCGCGAAA
SEQ ID NO. 2946	nhs-1092	GCGGAAGAACGCAAGGAACTGCGTACGCAATTTCAGGACACCACC
SEQ ID NO. 2947	nhs-1093	CCGGATGAACGCTTAAAACTGGCGCAAGCCTATAAAGAGAAAACC
SEQ ID NO. 2948	nhs-2335	CTGAGCCAGTTCCGCAAAATTGTGGACAAGGTGGATCAAACCGCG
SEQ ID NO. 2949	nhs-1912	GATGATCTGCACGTTGGCCTGGCGCGCTTATGGCAGCGTTTAACC
SEQ ID NO. 2950	nhs-1094	GATAGCCTGATGAAGACGCAGGCGGAATTATTACTGGAACGCCTG
SEQ ID NO. 2951	nhs-2340	GATCGTCAGAACAAGGCGTATAAAGAGGCCATGGAAGCGTTAAAA
SEQ ID NO. 2952	nhs-1909	ATTGATGAATACCGCGATACCCTGCGCCACCTGGTGGCCACCACC
SEQ ID NO. 2953	nhs-2341	GGCGAAAAATTATACACCGGCCTGCGCGAGGTGGTGACGGAACAT
SEQ ID NO. 2954	nhs-110	GTGCAGGATGCCGTTAAACAGATTATCGACTATCTGGACACCAAA
SEQ ID NO. 2955	nhs-2555	GATGGCGCGGTTAAGGCGCTGGAAACGTGGAAGACCCTGTTAGAT
SEQ ID NO. 2956	nhs-1081	CCGGAAACCGAGAAGGTGCTGAAATACTTAGAAGCGACGGAACGT
SEQ ID NO. 2957	nhs-767	CATGGCGAAATCTCTCTGGTGCTGAACACGCTGCGTGAGAAAGAA
SEQ ID NO. 2958	nhs-1090	GCGAATGATCACATCGCGGTGCTGGTTAAGAAATTTTCTCTGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2959	nhs-2791	CCGCTGAGCTTAGTTAAAAAACTGAAGAAGGATGGCTTACAGGAT
SEQ ID NO. 2960	nhs-1118	CCGAGCGATTTACGCGAAAAACTGTCTGAGCTGGCGGACGCGAAA
SEQ ID NO. 2961	nhs-2372	ACCGGCGTGGTTCGCGATAGCATGGCGAAGTTACGTGAACGCCTG
SEQ ID NO. 2962	nhs-884	CAGCGTGATGCCGAGAATACCATGCGTGAGTTAGCGGTGCGCGAA
SEQ ID NO. 2963	nhs-883	CCGGAACGTGTTCGCCCGGCGCTGGAGAACACCCTGAAGGATCTG
SEQ ID NO. 2964	nhs-2377	AGCGAAAGCATCCAAAAAAAATTTCAATTAATGAAAGAACACGTG
SEQ ID NO. 2965	nhs-2414	GAAAATACCGTTAACTTTCATCAGAAGAACATGCAGAAAAAGATT
SEQ ID NO. 2966	nhs-1805	GATGAAATTAAGATCAAACTGATTAAGACGCTGGCGTTCAATGCG
SEQ ID NO. 2967	nhs-864	TTTGATACCGCCTTAACCGATCTGAAGACGATTATTCGCGCGGAA
SEQ ID NO. 2968	nhs-193	ACCGATGATCGCATCAAAAGCTGGGTGGCCCAACTGAAATCTGAA
SEQ ID NO. 2969	nhs-2580	CGTCTGGATCACAACCGTGCGATTTCTCAACTGGCGGCCAAAACC
SEQ ID NO. 2970	nhs-1801	GAAAAACTGACGTTCAAAACCGATTTAGAGAAACTGGAGCGTGAA
SEQ ID NO. 2971	nhs-441	CATCATACCGCCTCTGAAAGCTTTATGAAGCACATGCAGAATGAA
SEQ ID NO. 2972	nhs-192	AAAAAACTGTTAAAGGAAGCGTTTCAAAAGACCCTGACGGATCTG
SEQ ID NO. 2973	nhs-1796	GTGGATCAGATCCGCAAAAATTATCACTCTCTGGTGTCTCAGCGT
SEQ ID NO. 2974	nhs-2416	GATCGTGCGAACTTCACCCTGCTGTTAGCCGAACTGCACAAAGCG
SEQ ID NO. 2975	nhs-1795	GAAAGCAATAAGGAGAATCGTGAAGCCCACCTGGCGGCCATGCTG
SEQ ID NO. 2976	nhs-2389	CATGGCAGCGACTTAGGCAAAAAATTATTAGAAGCGGCCAATGTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2977	nhs-2409	GCGGCGGATCGCTTAAATTATCTGAAGGACCTGAGCCGCAGCCAT
SEQ ID NO. 2978	nhs-188	AAATTTCAGGAGGCCGTGGAAAAAGTTACGCAGCATATCCATGGC
SEQ ID NO. 2979	nhs-1786	CGTGCGGCGTGGGCCGCCCAGCTGGCGCAATTACGTGAAGACGAA
SEQ ID NO. 2980	nhs-1167	ATGGATGAAGTTCAAAATCGTATTAAGGAGATTCTGGACAAACAT
SEQ ID NO. 2981	nhs-2589	CCGGAACGTGTTACGCAGGCGATTCGCGAGTGGCTGCGTAAGGTG
SEQ ID NO. 2982	nhs-1778	AATGAAAAAGTTGGTGAACTGCAGGCCAAGGCGCTGGTTGATATT
SEQ ID NO. 2983	nhs-1776	GCGAATGGCTACTTAGATAAACTGGCCCAAGAACTGGGTCGTAAA
SEQ ID NO. 2984	nhs-1170	CGTCAGGCGATCTTCGAAACCCTGGTTGCCAAAGGCCGCGAACTG
SEQ ID NO. 2985	nhs-1769	CCGGATCAGCAACGCGATTTTCAGCGCGAGATTCAGATCCTGAAA
SEQ ID NO. 2986	nhs-94	GTGGGCGAAGTTTCTAAACTGGTGAAGAAGGCGCTGTCTAATGAA
SEQ ID NO. 2987	nhs-184	CCGCAGATGGTGCGCGACACCCAGCAGTTATTAAAAGAAACGCGT
SEQ ID NO. 2988	nhs-182	CTGACCAAACACTTACAGGTGTTTCGCGACCATCTGATCAATCAG
SEQ ID NO. 2989	nhs-190	GAAGAAATGACCAAGCAAGCGGAAAAATGGATCAAGGATAATCTG
SEQ ID NO. 2990	nhs-1870	CGTGAAGAACGCGCCCAGCTGATTGCCACGGCGCGTAAGGCGGTG
SEQ ID NO. 2991	nhs-1151	ACCGAAAGCGCCAAGGAAGCGTATGTTAAGCTGCTGGACACCCTG
SEQ ID NO. 2992	nhs-435	GAAAAAGATCGCAACGATCTGATTACGTACCTGAAAAAGGCGACC
SEQ ID NO. 2993	nhs-2356	AAAGCGGATTTAATCGCGACCGCGCGCAAGACCTGGGATGAGCGT
SEQ ID NO. 2994	nhs-1860	CATGAAGGCCGCGCCGCGCAGAAACGCTTAGAAACCTTACTGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 2995	nhs-412	AAAGAAGCGGCCACGGCGGTGGCGAAGGCCTTTGAACAAGAAACC
SEQ ID NO. 2996	nhs-2357	CTGGGCCATCAAGTTGCGAGCGATTACTTACGTATTATGGAGCGT
SEQ ID NO. 2997	nhs-175	GTGGAACAGAACTTAAAACATGTGGTTACGATTAAACGCGAACTG
SEQ ID NO. 2998	nhs-1853	ATGGAAGAACACACGCAGGTGATTAAGGAGATTATTCGCGTGGCG
SEQ ID NO. 2999	nhs-2568	GAACGTCAGGTTCGCATTCAGCTGAAGGACCATATTGACCGTACC
SEQ ID NO. 3000	nhs-2428	GATGAAGTGTTCGGTGCGGTGAAAGACCGCCAGCGTAACCTGCTG
SEQ ID NO. 3001	nhs-1849	CTGAAAGAATTAGACTTTAAAATTCGCCAACAGCTGGTTAATAAT
SEQ ID NO. 3002	nhs-2363	ACCCCGAATGAGAAGCTGCTGGGCCACTTAGTGAAAGAGAAATAT
SEQ ID NO. 3003	nhs-2417	AGCAAAGAAAAGTGGAACGATATTGATCAAATCGCGACCTCTCTG
SEQ ID NO. 3004	nhs-2365	TGGAAAGAAGACGTTAAAAAAATGATTGTTTTAAGCCTGACGCGT
SEQ ID NO. 3005	nhs-869	GGCCGTGATTTAACGGATTATCTGATGAAGATCCTGACCGAGCGT
SEQ ID NO. 3006	nhs-1816	AAAAGCCTGATGAAGGAGGCGTTTCAGAAGACGCTGAGCGACCTG
SEQ ID NO. 3007	nhs-1136	GAAGCGGAAACGAAGAGCACCCTGATGTTCGGTCAGCGTGCCAAA
SEQ ID NO. 3008	nhs-1138	TTTAAAGATATCAAGAAAATTATGGAAGAGAAGATTCAGATCAGC
SEQ ID NO. 3009	nhs-420	GATGAAGTGCGCAAGACCAATCTGGCCGGTCTGATGGATGGTTAT
SEQ ID NO. 3010	nhs-1838	ACCGCGCGTTTAGACCGTCTGATGCTGGAGCGCGTGCTGGAGCAG
SEQ ID NO. 3011	nhs-422	TATCGTGAAGCCGTTCTGCGTGCGGTTGACCGTCTGAACGAACAG
SEQ ID NO. 3012	nhs-1833	CATGGCGCGGCCACGGCGAATGAATCTTTCAAACGTGCCCGTGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3013	nhs-1140	ATTAAAGAACGCACGATTAAAATTGGTAAGTATATTGTTGAAACC
SEQ ID NO. 3014	nhs-1144	GTGAGCGATTTAAAGAAATATATTGCCGAGCTGGAAGTTCAGACC
SEQ ID NO. 3015	nhs-753	AGCGAAGAAAAGGTTGCGCTGTATCGCCACGTGGTGTCTGTGGTG
SEQ ID NO. 3016	nhs-429	CTGCCGATTATCAAGGATCATCTGAACGACCTGTATCGCCAGGCG
SEQ ID NO. 3017	nhs-2369	CTGGCGACCCAAGCCGTGCAGGAAATCAAGCATAGCTTAGATCAT
SEQ ID NO. 3018	nhs-1823	GAAAAAGATACGGTTCTGGAAGTGTTAAAGAGCTTTCGCCGTGCG
SEQ ID NO. 3019	nhs-1822	GAAGTGGCGTACTTAGATCGTGCGTCTCAACTGGTGTTACGTGAT
SEQ ID NO. 3020	nhs-750	GGCATTAATATCCGCCAGAAAGTGAAGGAGCTGGTGGAGTTTGCG
SEQ ID NO. 3021	nhs-1137	CAGGCGCTGTTAGAGCGTATTCGTGCCAAGGAAGTGCAAAAACAG
SEQ ID NO. 3022	nhs-1073	CTGATGAAAGACTTAATTCAGACCGCCTTAGAAGAAATGCGCCAG
SEQ ID NO. 3023	nhs-902	CAGGATGAAGTTAAGGAACTGAATCGCTTACTGGGCAAGGTGATT
SEQ ID NO. 3024	nhs-1970	CGTGATATTGACGCCATGAAAAGCGTGGCCGAGGCGAGCCACAAA
SEQ ID NO. 3025	nhs-147	GAAGCGAGCATCGCCATTAGCCAGGCCCGCCTGGATGAGAAAATT
SEQ ID NO. 3026	nhs-2159	CTGGCGAGCCGCACGCGTCATCTGGCCTCTGTGCTGGACAAACTG
SEQ ID NO. 3027	nhs-2249	CCGCAGGTGACGGTTGATAAACTGAAGCGCCTGGAAAACGATTTT
SEQ ID NO. 3028	nhs-2157	GGCGCGGAAGCCAACGCGATTACCCGCGAGATTCTGAAGGATATT
SEQ ID NO. 3029	nhs-281	CCGACCACCTCTGCCCGTGCGCTGCGCGACTTTGTGGTTGAAGAT
SEQ ID NO. 3030	nhs-2148	CGTAGCGATTTACACGCGACCCTGGTTGACGCGGCGCGCGCGGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3031	nhs-937	CGTGATGATGCCATCGCGTGGAAAACCGCCTTAATGGAAGCGAAT
SEQ ID NO. 3032	nhs-2142	CTGGGCGCGTTCGAGCATAATATTCAAACGCTGAAAGACCGTCTG
SEQ ID NO. 3033	nhs-843	GTGCAGGCGTCTGACCGTCTGATGAAAGAGTTACGTGATATCTAT
SEQ ID NO. 3034	nhs-989	CTGGAAGATTTAGTTCGTTATGTGGAGTCTAAAATTTCTCGTACC
SEQ ID NO. 3035	nhs-2486	CGTGGCACCAAGTCTCTGATGGATGAAGTTGTTAAAGCGACGAGC
SEQ ID NO. 3036	nhs-2255	TATAAAGAAGCCGTTCTGCGTGCGATCGACGGCATTAACCAGCGT
SEQ ID NO. 3037	nhs-2777	AAAGATGATCAAGCCAAAAAAGTGCAAGAGCATCTGAACAAAACC
SEQ ID NO. 3038	nhs-2129	CGTGAAATGGTGGACCAAATTAATCGTGTTGCCCGTCAGGTTATT
SEQ ID NO. 3039	nhs-2489	AGCCATGTGGCCGAGCGTCAGGCGCGCGCCGCGAAAGACGAACTG
SEQ ID NO. 3040	nhs-808	GATAAAAGCTTAGACACCTTTGTGTCTAAGGTGGGCGAGATTGTG
SEQ ID NO. 3041	nhs-157	GATCGTACCGCCGGTGTGCTGCGTGACACGCTGGATCAACTGTAT
SEQ ID NO. 3042	nhs-2116	AAACTGGAAACGTACCTGAATAAAGTTGAGGCGGAAGCCAAAGCG
SEQ ID NO. 3043	nhs-1000	ACCGAAGAATTAAAGAATTTTCTGAAGGACCTGCTGGAGAAAGCG
SEQ ID NO. 3044	nhs-297	TATAAAAAACGCTTAAATGAACTGATCACGGATGCGTTAATTACC
SEQ ID NO. 3045	nhs-1002	ATTCCGGAATTACGCGAACGTATTAAGAACGTGGCGGAGAAAACC
SEQ ID NO. 3046	nhs-1006	CTGACCGAAAAGGCCATTGGCGATGTTTTCAGCCTGTTAGAAAAA
SEQ ID NO. 3047	nhs-2100	GATGAAGCGATCAACCGTGCGGCGATCAACGTGGGCAAGAAACGT
SEQ ID NO. 3048	nhs-2098	ATTGCGGAAATCTCTCGTGAACTGAAGACGCTGGCGCGCGAACTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3049	nhs-135	GAACGTGTGCAAAAGCATCTGAAAGCCTTAACCAGCGAGCTGGCG
SEQ ID NO. 3050	nhs-134	CCGAAAGAAATGAAGGAGTTTCTGGATGAGCACCAGAAAATGACC
SEQ ID NO. 3051	nhs-2094	GAAGAAGGCCGCGAGGCGGTGAGCCAAATCGCGGCGTCTATTAAA
SEQ ID NO. 3052	nhs-234	GCGGCGGATTTAAAGGCGGTGCAGGACAAGCTGAAAACGTTTGTG
SEQ ID NO. 3053	nhs-929	AAAGATGAAGTTAAGGAACTGATTTGGAAGTCTAGCCTGGAGGTG
SEQ ID NO. 3054	nhs-276	ATTATTCCGCGCACGCTGCATCAGATCTTCGAAAAATTAACCGAT
SEQ ID NO. 3055	nhs-2501	ATTAAAGATGTTCACGCGCGTCTGCAAGCCCTGGCGCAAGCGCAT
SEQ ID NO. 3056	nhs-2248	GCGCATCAGGTTCAAAAACAGACCTTAAAGGAAATTTTACTGAAA
SEQ ID NO. 3057	nhs-2794	TTTAAACAGAAGATCATTAGCATTTTAGAGGATAAAAAGGCGGTG
SEQ ID NO. 3058	nhs-949	CTGGAAAGCTCTCACGCGCTGGCGCACGCCCTGAAAATGATGCGT
SEQ ID NO. 3059	nhs-2222	ATGGTGAGCGTTGTTCATGATCTGCAAAAGGCGATTGCCGAAAAA
SEQ ID NO. 3060	nhs-2229	GCGGAAGAAACGTTAAAAGCGCTGAAGGGTAGCGTGAAGGATCTG
SEQ ID NO. 3061	nhs-952	CATTGGAATCGCTTACGTGATGATGCCGCCAATCTGAAGAGCAAA
SEQ ID NO. 3062	nhs-2219	TTTGTGGAAAACGTTATGAAAAAAGCGATCGACAGCCTGAAGGAA
SEQ ID NO. 3063	nhs-838	GAAGAACTGGTTAAGTGGGGCAAACGTGTTGCCGCGGCGAACAGC
SEQ ID NO. 3064	nhs-2466	AAAAGCCGTTTAATCGATCGTGCGTCTCAACTGCTGGAGGTGATT
SEQ ID NO. 3065	nhs-2467	CGTGAAAGCGTTCACCGTCTGGTGGAGAACGTGGCGGAGCGTTTT
SEQ ID NO. 3066	nhs-944	ACCCCGGATGGTATCATTAAAGCGGACAAGGTGTTTAACAAAGTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3067	nhs-2211	TATGATGATACGGTTCGTCTGACCATGCAACACGCGCAGCAACAT
SEQ ID NO. 3068	nhs-2209	GCGCGTGTGCGCAACCAGTTTCTGAAGGAGATGGATGGCTTAGCG
SEQ ID NO. 3069	nhs-836	CTGGCGGATTTCCGCCAGACCATTGACAAGGTGGATGCCATTGCG
SEQ ID NO. 3070	nhs-2235	GAAGTGAAATTATTAGTGGAACGTATGATGGCCTTACAGACCGAT
SEQ ID NO. 3071	nhs-2206	GTGAAAGATCGCTTAGCGGATATTAAGTCTGAAATTGACCTGACC
SEQ ID NO. 3072	nhs-2793	CGTGATCATTGGAAGCGCGTGATGCAGGGCCACGCCGGCGCGAAT
SEQ ID NO. 3073	nhs-2239	GGCCGTGCGGTTAACCATATTAAATCTGTTTGGAAAGATTTACTG
SEQ ID NO. 3074	nhs-840	ACCCTGATTGACCAAGCGAAAGATCGCATCCAGAAAACGAAAAGC
SEQ ID NO. 3075	nhs-2198	GTGGAAGAATGGTTAACGCATGCGCGTAAGGTTACCCAGGAGGCG
SEQ ID NO. 3076	nhs-263	CATCGTGAACACATGCAACGTCTGCATGACTCTGCGAAAATCTAT
SEQ ID NO. 3077	nhs-2196	CTGCAGGCGGTTTTAAAAGAAGATCAAGAGAAACTGAAGCTGCTG
SEQ ID NO. 3078	nhs-834	AGCCCGATGGCGGAGGCCCTGTTTAAATCTATCGCGGAACGCGAA
SEQ ID NO. 3079	nhs-2190	CGTGAAGAAGTTATCAAAACCCTGGTTGACATGGTGGCGAAGAGC
SEQ ID NO. 3080	nhs-966	CAGCTGGAAAAGTTAATGGAAAATATGCGTAACGACATTGCGAGC
SEQ ID NO. 3081	nhs-2183	CGTGATCAGGTTAAGCAGATTCTGGTTGAGATGGTGGCGAAGAGC
SEQ ID NO. 3082	nhs-269	CTGGATACCTTAAAGAAAGATATTGCCTTAGGCCAGGAGTTTGTG
SEQ ID NO. 3083	nhs-2477	CCGGCGGAATTACGCGCGGCGGGCCGCGCCGATCTGACGACCCGT
SEQ ID NO. 3084	nhs-2457	ATGAGCGCGGTTTCTCTGAAAATTGTTGAGAAAGCGAAGGAAGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3085	nhs-2173	CTGAAAGGCGAGGTTGAAAGCATTAAGAAGCAGATTAACCGTCAG
SEQ ID NO. 3086	nhs-972	CTGAATGCGTTCCGCGAACTGCGTACGCAACTGGAAAAGGCGCTG
SEQ ID NO. 3087	nhs-156	GCGCAGGAAATCGACCTGAAAGTGCGCAAGTTTCTGATCGCGCAG
SEQ ID NO. 3088	nhs-1072	CATACCGCGTTAAAGGATATTGCGAACAAGTATAGCGAGAAAACC
SEQ ID NO. 3089	nhs-2268	AAAGCGCTGGACAAGGTGGAAAAAGTTTTAGTGAGCGCCCAGCAG
SEQ ID NO. 3090	nhs-227	CATGATCATGCCGTTGTGAGCGGCCGCTTAGCGGGCGAGAATATG
SEQ ID NO. 3091	nhs-2019	AGCGAAGATGCCGTTAATATGGCGCGTGTTTTAGCGCTGAAGGAA
SEQ ID NO. 3092	nhs-913	GAAGCGGATATCGAGCGTACCATTGCCGCCGCGCGTACGGTGCTG
SEQ ID NO. 3093	nhs-1040	CGTACCGAAGCCGCCAATGTGGAAAAGATCACCACCAAGCTGCTG
SEQ ID NO. 3094	nhs-2008	GGCAAAAATGCCGAGCTGATTAGCGAGAAGATTCTGAAGGAAATG
SEQ ID NO. 3095	nhs-912	AAAACCACCGTTATCAATGAAGTGTACCACCGTCTGGTTAAAGAT
SEQ ID NO. 3096	nhs-2296	CGTAGCCATTTACACGATGCGCTGGTTAACCGTGCGCGCGCGCTG
SEQ ID NO. 3097	nhs-339	ATTATGCAGATCTTAACCCGTGTGAACGACCGTGTGGCCCGTCAT
SEQ ID NO. 3098	nhs-2524	CCGCTGGGCGACGCCAATGAAACCAAGGCCCTGAAACGCGCGTTT
SEQ ID NO. 3099	nhs-341	AATTGGCAGAAGCAAATGCTGGATCGTTTAAACGAAGCGGTTAAA
SEQ ID NO. 3100	nhs-2001	GATCGTCTGCGCCAATTTATTGGCGAGTTAGCGACCTTACTGGAT
SEQ ID NO. 3101	nhs-2439	AATGGCCATGCCTTACTGATGACCGATACGCGCAAACGTTTACTG
SEQ ID NO. 3102	nhs-1050	ATGGGCGCGATCTTAGAAACCCAGCGCGAGCTGCGTGAGGTGCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3103	nhs-1995	CATGATGCGTTCATCGCGAGCGTGGACGAGAGCCTGCGCAAACTG
SEQ ID NO. 3104	nhs-2302	AAACTGACCTTCAAGACCGATCTGGAGAAGCTGGAACGCGAAAAA
SEQ ID NO. 3105	nhs-4	CCGCATGTGTTACGCCATGCGTTTGCCACGCATCTGTTAAATCAT
SEQ ID NO. 3106	nhs-2304	CTGGATCAGATCGACCAGCGTATTGCCGCCGTGTTTCACCATCTG
SEQ ID NO. 3107	nhs-855	CGTGAAACCTTAGAGATTAGCTATCGCAACGCGATTGCCCGTCTG
SEQ ID NO. 3108	nhs-348	GCGGATGCGCGCAAGAAACTGGAAGACTCTGCGGAATTACTGACC
SEQ ID NO. 3109	nhs-2308	AGCGAAGCGGTTGTTCGTCTGGCGGAGGCCAGCCAGGACCGTTAT
SEQ ID NO. 3110	nhs-3	AAAGATAAATTCCACCAGCTGCTGCACGAGCTGGTGGAGAAAAAT
SEQ ID NO. 3111	nhs-1987	CCGCAGAAAGCCATGGAGGAATATAAAGAGAAGCTGAAAGCCCAG
SEQ ID NO. 3112	nhs-216	GATGCGGAAACGTTAAGCACCCTGCGCTTCGGCATGCGTGCCAAA
SEQ ID NO. 3113	nhs-2319	ATTTATGAACAAATCGTGCAGAAAATCAAGGAACAGGTTGTGAAA
SEQ ID NO. 3114	nhs-1061	CGTGAAGGCGTTAAGGAACTGGCGCGCCAAACCGCGGAGCTGCTG
SEQ ID NO. 3115	nhs-17	AAAGATAAATTAGCCGAAATTAGCTACGAGGCGGTGAAGAGCGTG
SEQ ID NO. 3116	nhs-2327	CAGGAAGCGGACACGCTGCGTTTTGTTTCTGCGCTGCGCGCGCGT
SEQ ID NO. 3117	nhs-115	CTGGAACATTTAGCCGAACGTATTGCCAACCGTATTAACAGCCAG
SEQ ID NO. 3118	nhs-858	CGTGCGAAATTATTAAATGTGGGCTTCCAAGAAGCGTTAAAAGAT
SEQ ID NO. 3119	nhs-210	ATTGCGCAGGCCCGCAAACTGGTGGAGCAACTGAAAATGGAGGCG
SEQ ID NO. 3120	nhs-334	CCGATTGTGGAGAAGATTCTGCAGTACCGCGAACTGACGAAACTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3121	nhs-304	CCGCGTCTGCGCGAGGCGATTGCGCAAAAGCTGCAGCGCGATAAT
SEQ ID NO. 3122	nhs-1034	ACCCATAAATTAGCCGATGATGTGTTACAACTGCTGGACAATCGT
SEQ ID NO. 3123	nhs-2026	GTGGAAAAAGTTTTAAAAACCCGTTACCACGATGCGACGAGCAAA
SEQ ID NO. 3124	nhs-1012	GATGATCAGGCCCGCCATCTGGCGGACTTAACCCGTTTAGGCATG
SEQ ID NO. 3125	nhs-14	GTGGCGGAATCTAAGAAACTGCTGAAGAAGATTTTTGACCAGCTG
SEQ ID NO. 3126	nhs-2506	GAAAAAGCGTTAGAGCTGGCGGTGGCCCAAATTGAAAAGAGCTAT
SEQ ID NO. 3127	nhs-2775	CATCATCATCACATGCAACAGATTCAGCGCGACATTGCGCAAGCG
SEQ ID NO. 3128	nhs-2277	CTGAAAAAAGGTATCGATCTGTTTGAGCAAATTCTGAAGCAGCTG
SEQ ID NO. 3129	nhs-2070	AGCAAAGGCGGTAACCTGATTGCGGACGAGCTGGCGGAGAAATAT
SEQ ID NO. 3130	nhs-1755	GGCGATAAAGAGTTAGAATGGCTGATTGGTCGCAGCCTGATCCAG
SEQ ID NO. 3131	nhs-2067	CGTGATCAGGTTTTCGCGGCGGTGGAGCAAGCGCGTAAGACCCTG
SEQ ID NO. 3132	nhs-1017	CATAGCGAAATCATCATTAAAGCGTTCAACCGTGTGGTTGATAAA
SEQ ID NO. 3133	nhs-2062	CGTGATCAGTTCCGCAGCACCCTGGCCGACGCGGCGAAGACCCTG
SEQ ID NO. 3134	nhs-313	AAAGAATTTATCACGAATCGTATTAACGACACCGTGAAGAAAGCG
SEQ ID NO. 3135	nhs-2060	GCGCTGGAATCTAAGGCGAAAGTGGACCAACTGGCGCAAGATTAT
SEQ ID NO. 3136	nhs-316	TGGGAACATGCCATCGATACCGCGCGCGACCTGAAAAACATTCTG
SEQ ID NO. 3137	nhs-847	ACCGGCGAACACTTAGAAGTGCTGTCTAAGCTGGCGGGTAAATTT
SEQ ID NO. 3138	nhs-322	GAAAAAAGCGTTATGGACGGCGCGAAAGCCGTTCTGGATACGCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3139	nhs-2052	GAACATACCCGCTTACGTGGCCTGGTTTCTGATGCGTTCACCCGT
SEQ ID NO. 3140	nhs-2051	ACCGATGATGTTAAGAGCATTGTGCGCTTCGTGCAGGAGCATAGC
SEQ ID NO. 3141	nhs-2798	GCGGAAGATGTTAAGGTGCTGAAATCTGTTAAAAAACAAATTAGC
SEQ ID NO. 3142	nhs-797	GAAAAAGATCGCAACGATCTGATTACGTACCTGAAAAAGGCGAGC
SEQ ID NO. 3143	nhs-2047	ATTAGCGATAAGTTAATGGTGCATCTGGTTGAGCGTGTGCAACGT
SEQ ID NO. 3144	nhs-796	CGTGTGGGCTTCGACGCGCTGCTGCGCGAGCATGTGTCTACCCAT
SEQ ID NO. 3145	nhs-2043	GGCAGCCATATGGCCGTTAGCAAAGTGATGGAGAAGATTCTGCGT
SEQ ID NO. 3146	nhs-126	GAAGCGAGCCGCAAGAGCCTGTATGACTTAACCAAATCTCTGGTG
SEQ ID NO. 3147	nhs-324	GAAGCGCAGAAGACGCTGGCGGAAGAGGTTACCAAATTCATTCAT
SEQ ID NO. 3148	nhs-2039	ATGGAAGTGTTAAAGCGTGTGCTGAAGTCTATGGATGAAACGGCG
SEQ ID NO. 3149	nhs-1026	CCGGGCGAATTCAAGACCCTGATTTCTAAGGAACGTAAGAGCCAT
SEQ ID NO. 3150	nhs-223	GCGAGCGGCGAGGCCCGTCGTAATGGTGCCACCGAAGCCTTTAAA
SEQ ID NO. 3151	nhs-795	AATGCGGAAGCCTTAATTCTGGAAATGAACTTAATTAAAAAGCAT
SEQ ID NO. 3152	nhs-1033	GAAAAAGCGTTAGAGCTGGCGATGGCGCAAATCGATAAAAACTTT
SEQ ID NO. 3153	nhs-2025	TATGGCGATTTAAAGGCGCGTGTGGACCAAGTGCGTCAAGCGACC
SEQ ID NO. 3154	nhs-2509	CTGAAAGAAACGATCGATGATACCGCCTCTCAGATTTTAAAATTT
SEQ ID NO. 3155	nhs-1112	GAAATTGCGAAGGAGACCCAGGCGCGCGTTCTGGAAACGATTCTG
SEQ ID NO. 3156	nhs-1548	GTGCAGCTGGACACGGCGGTGGTGCGCGCCCTGCGTGAGCGTTTT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3157	nhs-1226	AATAAAGAAGGTTTAGAACTGCTGAAGACGGCGATTGGTAAAGCG
SEQ ID NO. 3158	nhs-1457	CTGAGCACCGCCCAAAAAATTATTAAGGAGGCGCGTGACGCGCTG
SEQ ID NO. 3159	nhs-623	CCGCTGAGCTTAGTTCGTGATCATCGCGCCAAAGATGTTCTGACC
SEQ ID NO. 3160	nhs-1640	CGTAAAAGCATCAAGCAGCTGGCGGAGGTTGCGGAACGCGAAATG
SEQ ID NO. 3161	nhs-621	CGTAGCGATTTAAACGCGCGTATTTTAAAGAGCGTGGTTGATCAG
SEQ ID NO. 3162	nhs-523	GAAATTGCGAAGGAGACCCAGGCGCGCGTTCTGGAAGCCATTCTG
SEQ ID NO. 3163	nhs-1464	GAAAAAGTGGAGTCTGAAATTAAAAAGGTTGAAAATTTCCTGCGT
SEQ ID NO. 3164	nhs-618	CAGGCGCTGCGCGAGGCGATTGCGCAAAAGACCGAACGCCTGTAT
SEQ ID NO. 3165	nhs-525	AAACTGGATGCCCAAATTAAAAATATCTCTGATGCGTTAGGCAAA
SEQ ID NO. 3166	nhs-526	GAAAAACTGGACGCCCAGATTAAAAACATCAGCGATGCCCTGGGC
SEQ ID NO. 3167	nhs-35	GATCAGCATCGCCAAGAACTGGTGAACTGGGTTGATAAAGTTGGC
SEQ ID NO. 3168	nhs-1630	CGTGAAGAAGCCATCAGCAATATGGTGGTTGCCCTGAAAGAGCTG
SEQ ID NO. 3169	nhs-616	AAAGAAACCGTTGAGGCGTGGAGCGCGCGCATCAAAGAACAACTG
SEQ ID NO. 3170	nhs-81	GGCCAGCAGGAGGCCGCGCGTGCGGGTGAGCTGCTGAAGGAAAAA
SEQ ID NO. 3171	nhs-1626	AAAGAAACCAAGGGTCATATTTTTCGCGCCGTGGAAAACGCGCTG
SEQ ID NO. 3172	nhs-1477	AGCAAAGTGATCATCGATCGTGTGACGGAGTATCTGGAGAGCCAT
SEQ ID NO. 3173	nhs-709	AGCGTGATTGGTCGCGAAGCGAAAGCCCAAATTCTGGAGGCGGAA
SEQ ID NO. 3174	nhs-708	ACCTATGAAATGAACCGCATTCAGGATGCCATCAAAAAATTAAAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3175	nhs-1619	TGGGTGGATAAGGTTAAAGATCTGACGAAGAGCGAAATGAACATT
SEQ ID NO. 3176	nhs-1484	CGTGAAGAATTAACGGCGGTGATGCGTTTCTTAACCCAGCGCCTG
SEQ ID NO. 3177	nhs-685	GTGGATGATATCGTTACCAAAATTAAGTCTTATACCACGGAACAG
SEQ ID NO. 3178	nhs-538	CTGCCGGATGTTGACCGTGCGGTGTTACGCACCCAGGCCAAACTG
SEQ ID NO. 3179	nhs-1238	CGTCCGGAACGCGAGAAACTGATGCAGACGGTTAGCAGCATGTTT
SEQ ID NO. 3180	nhs-1642	TATAAAATTGCCACGAGCATTGATAAGGCCATTGATCGCATTCTG
SEQ ID NO. 3181	nhs-580	GAAAAAGATGTTCAAACCGCGCTGGCCTTAGCGAAAGGTAAATTT
SEQ ID NO. 3182	nhs-1452	CGTGAAAAAGCCTTAGAACTGGCGATGGCCCAAATTGATAAGAAT
SEQ ID NO. 3183	nhs-625	GTGATTATGGATTTAATCCAGCGTACCAAGGACGCGGTGCGCGAA
SEQ ID NO. 3184	nhs-85	ATTAAAAAAGTTCGCGCGAGCGTGTTATACAATCAGGACGAACAT
SEQ ID NO. 3185	nhs-2676	AAAGATGATGTTTACGAAATTAGCAAGTTAATTCTGAAGAGCATT
SEQ ID NO. 3186	nhs-1419	CCGGAAGCGGCCACGCGTGCGGTGTTCAAGGTGCTGTCTCGTGAA
SEQ ID NO. 3187	nhs-500	ACCGTGGAAATGTTAGTTAAAGTGATTTCTGAGCATAAAAACCGT
SEQ ID NO. 3188	nhs-1425	CTGGAAAGCGCCATCCAGAAAGTGGTTGAGAAAATTTCTCATCGT
SEQ ID NO. 3189	nhs-1670	CCGGAAATTATCAACGAAATGACCCGTATGCGCATGGAGATGCTG
SEQ ID NO. 3190	nhs-2701	CGTGGCCAGTTCGACCTGCTGCTGTTAAAGCATGCGGAGGAACAG
SEQ ID NO. 3191	nhs-504	CCGGAACTGAAGGCCAAAATGGAAACCTTAAAGGAAGTGATCACC
SEQ ID NO. 3192	nhs-671	AATCTGGATTCTGCCCGTTTTCGTCACTTAATGGGCGAAAAGCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3193	nhs-638	ACCGATGTGGCCAACGAAATTGAAAAGAAGATTAAAGAGAAACTG
SEQ ID NO. 3194	nhs-58	CGTCTGGATCACAACCGTGCGCTGTCTCAAATTGCGGCCAAAACC
SEQ ID NO. 3195	nhs-1489	CCGGAACATACGATCGCGGCGGCGAAGGTTATTCTGAAGAAAAGC
SEQ ID NO. 3196	nhs-2702	AAAAATGCGCGCAACGATTTTCTGAAGGAGGTGAAAATCATGAGC
SEQ ID NO. 3197	nhs-1317	GAAAAAGCGGTTGAGAAAGTGGAAAAGCAAGTGAATGACGCGGTG
SEQ ID NO. 3198	nhs-1439	AAAGATAAAATCATCGATAATGCGATCACGCTGTTTTCTGAAAAA
SEQ ID NO. 3199	nhs-675	CTGAAAGATGCCATCAATGAAGCGTTACGCGATTGGGTGGCCACC
SEQ ID NO. 3200	nhs-1441	ACCCATGCGGACCACGCGCGTAGCTTCCACGCGCTGCACCAGACC
SEQ ID NO. 3201	nhs-1442	GATGAAATTTCTGACACCCTGCGTACGCGCCTGGTGGCCCTGACC
SEQ ID NO. 3202	nhs-1648	CTGAAAAGCACGTTCGATGATATTAAGAAGATTATTTCTAAACAG
SEQ ID NO. 3203	nhs-633	GATGAACAGCGCAAGCTGCTGAAAGAGGCCCAGGCGGAGCATAAT
SEQ ID NO. 3204	nhs-34	ACCAATGCGATGCAAGACATTGCGACCCAATTCAAAAAAGAGAAA
SEQ ID NO. 3205	nhs-2623	GGCGGCATTAACCGCAAACGTGCGTTATTAGAACTGGAGAAAAGC
SEQ ID NO. 3206	nhs-679	GCGAAAGAACGCGCCAGCCTGATGAAAGCCCACGGCGAAACGGGC
SEQ ID NO. 3207	nhs-1447	ATGCGTGAACGCATCGAATTTCTGAACGAGGCGAGCGTTATGAAA
SEQ ID NO. 3208	nhs-2618	CGTCCGCGTATCACGGAACTGGTGGGTCAACTGCTGGACGAACTG
SEQ ID NO. 3209	nhs-1240	ATGACCCTGGCCAAGCAGGAAGCGAAGTTAGTGCATGAGAAAATT
SEQ ID NO. 3210	nhs-2657	GTGAAAGAAGCCCAAGCGGCGGCGGAGCAACTGAAAACGACCCGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3211	nhs-706	GAAAAAAGCGCCTTAGCGTATCTGGAGAAGCATACCGCCCGTCTG
SEQ ID NO. 3212	nhs-2715	GAAGTGATTGACAAGATTCAGAAAAAGACGCGTGAATTCCTGAAT
SEQ ID NO. 3213	nhs-2641	AGCGAACGTTACGGTCGTGTGATTTTAGACCGTGTGGAGCAGCGT
SEQ ID NO. 3214	nhs-583	AAAGTGGATCGCATCCTGGCGCTGGCCGAGACCAATGCCGAACTG
SEQ ID NO. 3215	nhs-2648	GCGGGCACCAAGGAGCGTATGCGTGATATCTTACGTGAAATCCAG
SEQ ID NO. 3216	nhs-571	AGCAATAAAGAGAACCGTGAAGCGCACTTAGCGGCGATGTTAGAA
SEQ ID NO. 3217	nhs-1524	AAACTGCATTCTCAAGCGAATCTGATGCGCTTAAAAAGCGACCTG
SEQ ID NO. 3218	nhs-1266	GGCGCGAGCCGCGTTCGTGATCTGTTCGAGACCGCGAAGAAACAG
SEQ ID NO. 3219	nhs-69	GCGGAAAGCATCGTTCGTGAATTTGTTCAAGAAGCGGTTCGTAAA
SEQ ID NO. 3220	nhs-1525	AGCCAGAATCGCGGTCGTGAACTGGTTGAGAAAATGAAAGACCTG
SEQ ID NO. 3221	nhs-2713	CGTGCGCAGCGCAAGCTGGCGCTGACGACGATTATTGAGCATACC
SEQ ID NO. 3222	nhs-1268	CTGGAAGCGTTAGAGAGCAATCTGAAGAAGCTGGGCGACTGGCTG
SEQ ID NO. 3223	nhs-1566	TTTCGTGATTTAGCCCTGCGTGTGGACCAAATTCGTGACAATATG
SEQ ID NO. 3224	nhs-1551	ACCGATGAAAAGGAGCGTATTCTGAAGACGGTGATTGACCTGGTG
SEQ ID NO. 3225	nhs-733	CCGAAAGAACGCACGGAATGGATTAAAGCCATCCAGATGGCGAGC
SEQ ID NO. 3226	nhs-697	GAAGCGACCTTACAAGCGATGGATGAAAAGTTACGTAAATGGAAA
SEQ ID NO. 3227	nhs-581	CTGGAAACCGTTGCCGAACTGATTGCCTCTAAAACCTTAGAAAAA
SEQ ID NO. 3228	nhs-578	ATTCATGAAGGTTTAAAACTGGCGAACGAGCAGATTCAAAAAGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3229	nhs-1276	CCGGCGCAGGCCGACCTGGAATTTTTAGAGAATGCGAAGAAACTG
SEQ ID NO. 3230	nhs-1531	GTGGAACTGCGCGACGAACTGGCGGCCTACATTACCAAGCAGACC
SEQ ID NO. 3231	nhs-1275	ACCAATAATCGCATGGAGCTGAAAGCGGCCATCGAAGGCTTAAAA
SEQ ID NO. 3232	nhs-1540	GATAAAGCGATCGACAATACCGTGCGCCGCGCGAATACGATTACC
SEQ ID NO. 3233	nhs-1538	GAAAAAGATCGCAACGATCTGATTACGTACATGACCAAAGCCGCG
SEQ ID NO. 3234	nhs-2645	GAAGCGACCGTTAAGACCCATCTGGTTCACATTTATTCTAAACTG
SEQ ID NO. 3235	nhs-1534	AGCCGTGAAATGCGCTTAGTGGCGAGCTACTTAAAAGAAGCCCAG
SEQ ID NO. 3236	nhs-572	GCGCAGGAATTAGACATTAAAGCGCGCAACTTTCTGATCAATAAA
SEQ ID NO. 3237	nhs-497	GAACGTAAAGACTTCATTAAAACCACGGTTAAAGAATTAATTAGC
SEQ ID NO. 3238	nhs-589	GAAGGCGATTTATTCACCCAGCTGCGCAAGATTGTGAAGATGGCG
SEQ ID NO. 3239	nhs-560	AAACCGCTGAACAACTTTGCGGCGGAGGTTGGCAAAATCCGTGAT
SEQ ID NO. 3240	nhs-691	AAAGAATTTATCCGCAAAATTGTGCAAGCCAAACAGTCTGCGGAT
SEQ ID NO. 3241	nhs-692	CGTAAAGAATTAGAGACCTTTATTAAGAACGGCATTGACAGCACC
SEQ ID NO. 3242	nhs-2720	CTGCGTACCCGCATGGGTCATACCATGGCGTTAGAGCGTCTGGCG
SEQ ID NO. 3243	nhs-605	ACCGAAAAAGTTGTTTTTCAGGAAACGAAGGCGATTGCCGATAAT
SEQ ID NO. 3244	nhs-546	ATTGTGCAGGCCTTAGAAGAAACCTTCCGCATTGGCCGCGAACTG
SEQ ID NO. 3245	nhs-1248	AGCAATGTGGTTCGCGAACTGATTGAGCGCGTGAGCGACAAACTG
SEQ ID NO. 3246	nhs-2654	AGCAGCGATGTTGTTAGCTATGTGCGCGACCAGCTGCGCAAACAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3247	nhs-1595	CCGCTGGTGACGAAGGTGCATATGGAAGTTGCCCGTGCGTCTCGT
SEQ ID NO. 3248	nhs-704	CTGAGCGTGATGAAGGAGACCTATGAAACGGTTATGAAAAAAGGC
SEQ ID NO. 3249	nhs-1500	CGTGATAAATTAAACATGCAGCTGCAGCGCATCATTGATGAGGCG
SEQ ID NO. 3250	nhs-1250	GTGCAGGCGACGGACCGTCTGATGAAAGAGTTACGTGATATCTAT
SEQ ID NO. 3251	nhs-1572	CGTGATGAAGTTGTTAATACCCGTTTCTCTGCGCTGTTAAAAGAA
SEQ ID NO. 3252	nhs-1502	GAAGAAGGCTCTGCCTATAATGAAAAGTTAATTCCGATCAGCCGT
SEQ ID NO. 3253	nhs-1287	TGGACCAAAGCCTCTCAGCAGATTAACCAACATGTGAAGGATAAA
SEQ ID NO. 3254	nhs-553	GATGAAGTGAAGATCAAAGTGCTGCAACGCCTGAGCATCGCGAGC
SEQ ID NO. 3255	nhs-1283	CGTGCGGAAGCCGAGGCGGAAGTGCAACGCAGCGTGGAGCGTTTT
SEQ ID NO. 3256	nhs-1254	GCGGAAGTGCGCCAAGCGACCGCGGAGGCCGAACGTGCCGTGGCG
SEQ ID NO. 3257	nhs-1510	AAAGAAGTGGCCAAGAAAATGGTGGAATACATCATTGTGAACAGC
SEQ ID NO. 3258	nhs-1281	GCGGCGCAGAAGACGCTGGCGGAAGAGGTTACCAAATTAGTGCAT
SEQ ID NO. 3259	nhs-1255	CTGGATGAATTAAACAAAGCGCTGCGCTTAGAAGCGTTAACCCGT
SEQ ID NO. 3260	nhs-73	GTGGAACAGGACTTAAAACATGTGGTTACGATTAAACGCGAACTG
SEQ ID NO. 3261	nhs-1576	GAAAATACCGAGAAGCTGCTGAAAATCTTACGTGATAACGTGAGC
SEQ ID NO. 3262	nhs-2718	AAACTGGTGACGAAGATTATTGCGCACGAGCTGGCGCACCAGTGG
SEQ ID NO. 3263	nhs-695	GGCGAAGATGCCCGCGCGGCGCTGACGACGCTGAGCGAGCGTGTG
SEQ ID NO. 3264	nhs-1289	GCGACCTATGAGATCGATCGTGTGTTATCTCAGCTGTTAAAAGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3265	nhs-642	AATGAATATTTAAACCTGGTGGGCCGCTTACGTAAAATCATTGAT
SEQ ID NO. 3266	nhs-520	CCGCGTGAATTAAAGACCGATCTGACGGCCTTTGTGGAGCAGGTG
SEQ ID NO. 3267	nhs-1414	GCGGAAAGCGTTACGGCGGTGAAAGAGGCCGAAAAAGCCATTCGT
SEQ ID NO. 3268	nhs-1369	AGCATTCAGCGCCGCATTAAAAAAGTTACGCATGATATGGACATG
SEQ ID NO. 3269	nhs-2682	GCGGCGATTACGCACACCGCGCGTATGGCCGACAAACTGCGCCTG
SEQ ID NO. 3270	nhs-1700	ACCAAACATTTACACAATGATGTGGAGAAGGAACGTAAGGAAAAA
SEQ ID NO. 3271	nhs-653	GCGCTGAGCAAGTCTATGGCGGAAATTATCCGCGCGGATATGCGT
SEQ ID NO. 3272	nhs-1187	GCGCTGGAATTCTTACTGAAAGCGCACCAAACCGCGGTTGATAAA
SEQ ID NO. 3273	nhs-1401	GCGGATGCGGTTTTCGCGGAAGTGCACCGCGCGAATTTAAGCAAA
SEQ ID NO. 3274	nhs-1402	GAACGTGAATTAGAGCAGCTGAGCCGCGGTTGGGTGCGTGGTCTG
SEQ ID NO. 3275	nhs-658	ACCGGCGATCGCTTAAATTTTGGCTTAGCCGCGGAAAAGGCGCGT
SEQ ID NO. 3276	nhs-490	CCGGATTTTTTAAAGAAAAGCGTGGACGAGAGCCTGAAGCGTCTG
SEQ ID NO. 3277	nhs-723	CATTGGAATCGCTTAAATAGCGATGCCTCTAATCTGAAGAGCAAA
SEQ ID NO. 3278	nhs-1693	GATATTCAGATGGTTGAGAGCATTAAACGCTACCTGGAACGCAAA
SEQ ID NO. 3279	nhs-1367	GATGAAGCGCGCATCAATCAGCTGTTCTTAACCGCGTTAGATAAA
SEQ ID NO. 3280	nhs-89	GCGGCGACCTTAGAGGAAAAACTGAACAAGATTTTTGAGAAACTG
SEQ ID NO. 3281	nhs-2696	GCGGCGGATGTTGAGGTGAGCCTGCGCGCCAGCCTGCACCGTCTG
SEQ ID NO. 3282	nhs-88	CGTAAACTGTTAAAGGAAGCGTTTCAAAAGACCCTGACGGATCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3283	nhs-656	ATGGTGCAGGCCTTAAATCGTGCGTTAGACGAAGAAATGGCCAAA
SEQ ID NO. 3284	nhs-1206	CAGTTTGAAAAGTTAATGGAAAATATGCGTAACGACATTGCGAGC
SEQ ID NO. 3285	nhs-1185	GAAAGCCAGGCCGAGCGTGTGCGTGCCGAGCTGGCGCGCTTTCTG
SEQ ID NO. 3286	nhs-1204	GGCCTGGTGAACAAGGCGATTCAGGACATGATCAGCAAACACCAT
SEQ ID NO. 3287	nhs-1398	CGTGCGCAGGAGTTAATGATTGTGCTGGAGGAGTATATTCGCACC
SEQ ID NO. 3288	nhs-1194	ACCCATAGCTTAGCCCGTTTTGCGGTTGACCAGCATAACACCAAA
SEQ ID NO. 3289	nhs-1195	CGTACCAGCAAGGTTCGTCAGCTGTTAGACACCACCGACATTCAG
SEQ ID NO. 3290	nhs-2687	GATCTGCTGAAGCACACCACCAATGTTGTTAAAGCGCACACCAAT
SEQ ID NO. 3291	nhs-1726	GAAGATGAAGCCCGCGCGATTGTGGCCGCCCGTCTGAACACCCTG
SEQ ID NO. 3292	nhs-2735	GTGTATAAATCTGCCGAAGCGGTGGACTTAGCGACCAAGGAACTG
SEQ ID NO. 3293	nhs-646	CCGCTGAAAACGTTAGAAACCCTGCGCAAGGAAGTGGGTGCGTAT
SEQ ID NO. 3294	nhs-478	CATGAATATCACGCCGAAACCATTAAGAACGTGCGTACGGCGACC
SEQ ID NO. 3295	nhs-1704	GGCATGCGTACGTACCTGGATCTGTTACAACATGTGTTAGATCAT
SEQ ID NO. 3296	nhs-2734	GAAACCATGCGTGAGCGCACCCTGTTTGACCGCGCGCGTGGTCTG
SEQ ID NO. 3297	nhs-663	GAAAAAGCGCAACAAGAATATCGTAAGACGCTGGAAAAGATTATT
SEQ ID NO. 3298	nhs-2739	AATAGCATTAAGGACAAATTTGAACAAGCCCTGATTGACCGTGTG
SEQ ID NO. 3299	nhs-1735	GAAAAACTGAAGATCAAAGCGCAGTCTTACCTGGATGCCATTCAG
SEQ ID NO. 3300	nhs-49	GTGGAACGTTTAAAGCAGGTGCTGTTACACCAGCAGGCCAAATTT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3301	nhs-649	CGTGCGCGTTACGTTACCCTGGCGGCCCGCCTGGAACAAGAAACC
SEQ ID NO. 3302	nhs-668	CAGATGGAAAAGTTAAAAGGCGCGTTAGACCTGCTGGAGCAGTTT
SEQ ID NO. 3303	nhs-1373	CGTAATGAAGCCCGCATGCTGGTGGATAACCGCCTGCGTCAACTG
SEQ ID NO. 3304	nhs-1337	ATTGAAAATAAGGCCGCGGATTATTTAAAGGTGAGCGCCAAAAAT
SEQ ID NO. 3305	nhs-1361	CTGAAAGAAATCATCGATGAACTGGGTAAGCAGGCGAAGGAACAG
SEQ ID NO. 3306	nhs-489	GATGCGGATATCTTAAGCTGGGCGAATCGCAAGGTGCGTACGATG
SEQ ID NO. 3307	nhs-57	GAACGTACCTTAGACCTGGCGATGCAGCGCTTAAAAGCGTTCGTG
SEQ ID NO. 3308	nhs-51	GGCGCGGAATCTGTTCTGCAGGTGTTCCGCGAAGCGAAGGCGGAA
SEQ ID NO. 3309	nhs-494	CGTGAACTGGCCACGCAGATTTATCACGAGACCCTGAAGATTACC
SEQ ID NO. 3310	nhs-1748	TTTACCCGTTTAGGTCAGCTGGCGGAGGACATTCAGAAGGAAATT
SEQ ID NO. 3311	nhs-1411	AGCGATGATGTTAAGAAAGCGATTATCGAGGGCACCAAGGCGTAT
SEQ ID NO. 3312	nhs-2816	GAAGCGGTGGACCAACTGGTGAAATTCAACCGTGCGTTAGCGGAT
SEQ ID NO. 3313	nhs-1749	GAATATGTGCGCAAGAGCGTGGGCAACGCCCTGCGTGACATTAGC
SEQ ID NO. 3314	nhs-1357	GCGGATACCTTAGAGCGTGTGACCAAGATCATTGTGGACCGTCTG
SEQ ID NO. 3315	nhs-1746	GCGAGCCAGTACATCGGCGATCTGATCCACAAAGATATCAAAGAA
SEQ ID NO. 3316	nhs-1210	TATCGTCAGCGCTTAACCGATCTGGGTGCCATTGCGAAGGCGGAA
SEQ ID NO. 3317	nhs-1413	AGCGATGATGTTAAGCGTGCGATTGAGAAGGGCACCAACGATTAT
SEQ ID NO. 3318	nhs-2741	CTGAGCCAGTTAGAGAGCGTGATGAAAGAGTTATATCGTGAGAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3319	nhs-644	ACCCATGAAATCCAACGTATGATTGGCCGCGCCATGCGTACCGCG
SEQ ID NO. 3320	nhs-469	AATAAAGATGCCTTAGATCTGATTCAAGAGGCGATTAAGAAAGCG
SEQ ID NO. 3321	nhs-1358	ATGGATAGCGTTTTCGCGGAAGCGATCGCCAAAGTGCGCAAACAG
SEQ ID NO. 3322	nhs-823	CAGTATGGCGAGGGTCTGGCGCGTGCCGTTCAGGATGGTCTGAAGA AA
SEQ ID NO. 3323	nhs-2402	AGCGCGGATCGCGCCAGCCTGATTGACGACGCGTTTGCCCTGGCCC GT
SEQ ID NO. 3324	nhs-2164	CCGGATAGCAAGACGAAACTGGCGTTAGACATTATTAAGGGCTTAG AA
SEQ ID NO. 3325	nhs-1284	CCGAAAACCGTTGCCGAAATGATTGATGCCTTCAGCCGTGCCCGTG AT
SEQ ID NO. 3326	nhs-654	AGCGTGAATTTATTAAAAAGCCATTTAGAGGAACTGGCCAAAAAGC AG
SEQ ID NO. 3327	nhs-1377	CGTAAAGCGGTTGCCCATATTAATTCTGTTTGGAAAGATTTACTGGA A
SEQ ID NO. 3328	nhs-2110	CCGGAAACCTACGGTCGTCTGAGCGTTTTACTGAAACGCGCGGCCG AA
SEQ ID NO. 3329	nhs-2376	CGTGAAGCGATCGCCGCGAGCATTCACGACGTGGTGAAGGAAGTTC AG
SEQ ID NO. 3330	nhs-2780	CTGGCGGATGCCCAATATCTGCATGAGTTACTGACCCGCAAAAACA TT
SEQ ID NO. 3331	nhs-1530	AAACAGGCGTTAATCGATAGCGTGTACGCCCGTGAAACGAATCGCA TT
SEQ ID NO. 3332	nhs-2779	CCGTATACCTTAGACGTGATTCGTAAGGACCTGAAAAAGCAGTTAC TG
SEQ ID NO. 3333	nhs-2153	GAAAAAGAACGCTTATTTAATAATTTAGCCCATCTGGGTAATATCCT G
SEQ ID NO. 3334	nhs-2160	GAAGGCGCGCAACAACGTATGGCGCAGGAGGTTCTGACCCACCTGA AA
SEQ ID NO. 3335	nhs-827	AAACAGGAATTAGACGCGGCGCTGAAGAAGGCGAAAGAGCTGGCC AGC
SEQ ID NO. 3336	nhs-2373	CGTGAAGCGATCGAGGGCTGGAAAAAAATCACGGATGGCGTTCATA GC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3337	nhs-2108	AGCGTGCTGGACGAGGCGGTGCGTGTTCGCCTGAGCCGCAATGTTG AT
SEQ ID NO. 3338	nhs-197	CCGAAAGAAATGAAGGAGTTTCTGGATGAGCACCAGAAAATGACGA GC
SEQ ID NO. 3339	nhs-2105	GATGAACAGGTTCGCGGCTGGAATAATGTTACGAAAGCGGTTCATG CG
SEQ ID NO. 3340	nhs-2182	AAACAGGAAATGGTTGACATTATTGAAACGGTTTATCGTGGTGCGC GT
SEQ ID NO. 3341	nhs-805	GCGGAACGTTTACGCGATAAAATTTTAGCCAGCGAAGCCAGCTTCG CG
SEQ ID NO. 3342	nhs-2653	GCGCAGGCGAAGGCCGATGTGCTGGACCAAATTAAATTAGCGTTAG AT
SEQ ID NO. 3343	nhs-2404	CCGGCGGATATCGTTAAAAATCTGAAGGACAATATGACCATCCTGG AA
SEQ ID NO. 3344	nhs-1381	CTGCAGGAATTAGACATTAAAATTCGCAAGATTCTGTCTGATAAGTA T
SEQ ID NO. 3345	nhs-2178	CCGAGCCTGGTTAAGAAAATTAATAACATCCGTGAAGCCCGTTACG AA
SEQ ID NO. 3346	nhs-271	GGCGAACTGGCCAAGCATGCGGTGTCTGAGGGCACCCGCGCGGTTA CC
SEQ ID NO. 3347	nhs-830	GAAGATCTGAAGCAACTGAAAAGCGCCTTATATACCTTACTGGAGA CC
SEQ ID NO. 3348	nhs-2174	GAAAGCGAAAAGGTTAATGAAATTGTTAAGGCGGTGAAGACCGCCC TG
SEQ ID NO. 3349	nhs-602	GTGGAAGAAGCCGTTCGTATTGTGAAGGAGGTGACCGAGAAATTAA GC
SEQ ID NO. 3350	nhs-176	GCGGCGGAAAACAAGCTGAATGATTCTTTAATTCAGGAGCTGAAGA AA
SEQ ID NO. 3351	nhs-1380	GCGGGCACCTTAGACTGGATTAAAGAATCTTCTGCGCTGGCCAAAA AA
SEQ ID NO. 3352	nhs-806	TATAAAGATTTAGAGGGCAAAGTGAAGTCTGTGCTGGAGAGCAACC GT
SEQ ID NO. 3353	nhs-2170	AGCGATGTGAAGCAAGAACTGATTAAGTACGGCAAAAAGCTGGTTG AA
SEQ ID NO. 3354	nhs-2168	GAAAATCTGGTTCGCGAACAGATTGTTCGCGTGCTGTTAGAACGCGT G

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3355	nhs-1379	AAAACCAGCCACGAGGAACTGGCGAAGAAGCTGACCCAAGTGGAGAAA
SEQ ID NO. 3356	nhs-1359	CATAAAGAAGTTACGACCATTGTGGAGGCCATTAAAGCCCTGGCCAAT
SEQ ID NO. 3357	nhs-296	AATCAGGCGAAGGAGCTGGAACGTTTAATCGATAAAGCCATGAAAAAA
SEQ ID NO. 3358	nhs-819	AAACTGACCGAGAAGGCGATTGGCGACGTTTTTAGCTTACTGGAGAAA
SEQ ID NO. 3359	nhs-143	AAAGAAAGCGTTGAGGCGATGATTATTGCCGGTAAAAGCGCCAATGAA
SEQ ID NO. 3360	nhs-991	GCGAAAGAATTAATCGAAAAAAGCGTTGCCCTGAGCAAGGCGGTTAAA
SEQ ID NO. 3361	nhs-138	GCGAAAATTAAGACGATTGGCATTGAGGCCCGTAAAGACATGCAGGAA
SEQ ID NO. 3362	nhs-999	AATGAAGTGATCGACAAAATGCGTGCGGTTCAAGAACAGGTTGCGAGC
SEQ ID NO. 3363	nhs-1520	ACCGAAAAATCTAAGGAACTGGCGGAGATCGTGGTGCAAGCGTTCCTG
SEQ ID NO. 3364	nhs-293	GGCCCGGTGAAGGAGAAAATTCTGTCTGTTATTAAAGAGTGGGGCACC
SEQ ID NO. 3365	nhs-992	GTGGCGAAAGACTCTGAAGCGATTATCAAGAATGTGATCGATAAGTAT
SEQ ID NO. 3366	nhs-2132	GAAGTGTATCAAATCCTGGAAAAAGGTGCCGCGAAACGCACCACGGCG
SEQ ID NO. 3367	nhs-582	CAGGAACATCGCGTTATGCTGGTGAATTCTATGAACACCGTGAAGGAA
SEQ ID NO. 3368	nhs-1366	GGCGAAAGCGAGCGCGCGGTGCGTCAAGTTTTTCAGCGCGCGAAGAAT
SEQ ID NO. 3369	nhs-2397	CAGAATACCTTAGACCATACCAGCGAGCGCATTGCGCGCATTCGCGTG
SEQ ID NO. 3370	nhs-2646	CCGCTGGGCTCTAAGATTGCGAGCGCCCGCGAAGTGATCAAACGCGAT
SEQ ID NO. 3371	nhs-995	AAAGTGGAAATCCAAGTGCTGGAAGACATCTATAATTCTCTGAACAAA
SEQ ID NO. 3372	nhs-1526	CAGAAACGTGAGTCTATTGTGCAGGCCGCCATTGCGGAGTTTGGTGAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3373	nhs-1350	CTGGATGTGGCCGCCGAAAAAATTGACCGCTTTATGCAGGCCGTGACC
SEQ ID NO. 3374	nhs-657	ACCGGCGATCGCTTAAATTTTGGCTTAGCCGCGGAAAAGGCGCGCCGT
SEQ ID NO. 3375	nhs-180	AAACCGAAAAACTTAGATGCGAGCATCACGAGCATTATCCATGAGATT
SEQ ID NO. 3376	nhs-2120	GAAGATTTTAAGGTTGATGCGCAGCGCGACATTATGCAGCGCACCGGC
SEQ ID NO. 3377	nhs-2493	GTGGATGTGGCCGAGAGCCTGGCGATCGAGCGTGCGAAGAGCTTATTT
SEQ ID NO. 3378	nhs-811	CATGAAACCGCCTTACGTGTGACCGCCGAGCGTGCGATGAACACCCGT
SEQ ID NO. 3379	nhs-1360	CAGACCACCAAGGAGGTGCTGGAAGCCAAGGTGAAAGGTCTGATCCGT
SEQ ID NO. 3380	nhs-983	CTGGATGAAATCTTAAAAGCGTTTAAGGAGGCGCATTCTACCGTTCTG
SEQ ID NO. 3381	nhs-2125	AGCAGCGCGTTAGACCAGGCGGCGCAATTACGTACCCGCCTGGAGAAA
SEQ ID NO. 3382	nhs-2115	CCGAAAACCGCCTTAAAAATTGTGGACACGATTCGTAAGGATATCCTG
SEQ ID NO. 3383	nhs-1280	GTGCGTACCTGGTTAAAGGATGCGAAACAAGTTCTGCCGGAGGCGCTG
SEQ ID NO. 3384	nhs-866	ATTGATGAAGTTCGCAATGCGCTGATCCGCGGCTTTTCTGAAACGCTG
SEQ ID NO. 3385	nhs-177	CTGAGCGAACGCGTTCGTGAAAGCTTAAAGGTGTGGAAAAACGCGGAA
SEQ ID NO. 3386	nhs-144	CGTGATGATTTAAACCTGGTGCTGGCCACGGCGGCGAAGCTGAAGGCG
SEQ ID NO. 3387	nhs-2145	AAAAATGTGCGCGACCTGGCGATTAAGTTACGTGATGCCAAACAAGAT
SEQ ID NO. 3388	nhs-283	CTGCATGAAGTTCGCAATGCGGTGGAGAACGCGAATCGCGTGTTAAGC
SEQ ID NO. 3389	nhs-2144	AAAACCATTCAAGAGGTGATTGAAGCCTTAAAACCGTTATTTGAGAAA
SEQ ID NO. 3390	nhs-2117	GAAAGCCAGTACAAGGAAATGGAAGCGAAGGTTAGCAGCACGCTGAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3391	nhs-2386	GCGGATCGTTTAAAGGCGTGGACCGAAGCCTTAATTCGTGACGTGAAT
SEQ ID NO. 3392	nhs-1278	AAAGAAGAAGCCTTAGAACTGATTAACGGTTATATTCAAAAAATCAAA
SEQ ID NO. 3393	nhs-286	AAATTTGAAAACATGGGTGCGCAGATGGTGCGCGAGGTGGCGTCTCGT
SEQ ID NO. 3394	nhs-867	AGCATGAGCGTTGAGGCGGCGAAAAACGCCCGTGAATTACTGTTAAAA
SEQ ID NO. 3395	nhs-585	CGTGCGGAAGCCGAGGCGGAAGTGCAACGCAGCGTGGAGCGTTTCAAA
SEQ ID NO. 3396	nhs-2118	GCGGATGATACGTTAGCGCTGGCGCGCGCCCGTGGCGAGGCGATGAGC
SEQ ID NO. 3397	nhs-198	CCGGATGAATTAGCCCGTCGTGCGGCCCAAGTGATTGCCGATCGCACC
SEQ ID NO. 3398	nhs-815	GGCCGTGCGGTTAACCATATTAAATCTGTTTGGAAAGATTTACTGGAA
SEQ ID NO. 3399	nhs-2184	ATTACCAAATTACGCACCGATCTGCGCTTCATTGCGGAGCTGACGATT
SEQ ID NO. 3400	nhs-960	GAAGTGCGTAACATCGTGGATAAAACGGCCAGCTTTGTTGCGCGCAAT
SEQ ID NO. 3401	nhs-863	GTGGAACTGATCCACAAAGCGTTTATCAAGGGCATTAAGAATGCCACC
SEQ ID NO. 3402	nhs-637	CGTGAAAAAGCCTTAGAACTGGCGATGGCCCAAATTGATAAGAATTTT
SEQ ID NO. 3403	nhs-896	CTGGTGGATCAAGAGATGAATAATGTGTACGAGCGTGTGATGAAGCTG
SEQ ID NO. 3404	nhs-2679	AATAGCATTAAGGACAAATTTGAACAAGCCCTGATTGACCGTGTTAAA
SEQ ID NO. 3405	nhs-2680	CGTCAGCATCAAGAGAAAGTGATTGGTTACATTAATTCTGCGGAGCAG
SEQ ID NO. 3406	nhs-925	GAAAAAAATTTAGCCTATGCGCGTAAGGTTAAAGCGGCCCTGGAGACC
SEQ ID NO. 3407	nhs-228	AAAGAACTGTACGAGCATGTGAAACAATTAATTGCGTTACGTAAGCAG
SEQ ID NO. 3408	nhs-2796	CGTCATCAGATGACGGACCTGCTGAGCATGGACGCCCTGTATCGCCAG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3409	nhs-2271	GTGGTGGATATGGAGCAAATTATGACCGAAAAGTTAGCGCGTCAAGTG
SEQ ID NO. 3410	nhs-927	GCGTTTATTCGCGCCAGCCGTGCGTTAACGGATAAAGTTACCGACCTG
SEQ ID NO. 3411	nhs-928	ATGCGTAAAGTTAAGAGCGTGGTGTTATTCCATCATTCTGAATTACTG
SEQ ID NO. 3412	nhs-672	CCGAAAGCGGTTGAGATTACCAGCTACATCCGTAAAGTTCTGGAGGAA
SEQ ID NO. 3413	nhs-207	CTGGCGGAAAACGCCGATAAACTGGGTATCATTCTGCGCAATGAGCTG
SEQ ID NO. 3414	nhs-2448	GGCGAAGCGGTTTTAGATCATGCGTTAACGCTGAAAAAGGGCGAGAAT
SEQ ID NO. 3415	nhs-2449	CTGGGCGATGTTTTAGAACGTGAAGCCTCTGCGCAGCAACGTTTAGGC
SEQ ID NO. 3416	nhs-160	GTGGAAAGCATGAACAAGGAACTGAAAAAGATCATTGGCCAAGTGCGT
SEQ ID NO. 3417	nhs-1403	GCGGAAGAACGCAAGGCGACCATTTTAGCCAGCCTGGCCCGTTACCTG
SEQ ID NO. 3418	nhs-931	ACCGATCTGATGAACTTCCTGAAAACCGTTCGCAGCACCACGGAAAAA
SEQ ID NO. 3419	nhs-206	ACCCGTGATTCTGGTCTGGTGATTAAGACGCTGGTGGACCTGTTCCGT
SEQ ID NO. 3420	nhs-239	CTGGAAGATTTAGTTCGTCTGGTGGAGGCCAAAATTTCTCGTACGCTG
SEQ ID NO. 3421	nhs-624	CAGGTGCATGTTATCCGTGAAGTGGCCTCTATGGCGAAAGAGAAACTG
SEQ ID NO. 3422	nhs-842	AAAACCAATTTAATGGCCGAACTGGAAAAGATGAACAAAATTATCCAG
SEQ ID NO. 3423	nhs-680	CTGAATAAAGCCGTTCGTGAAACCGCCCACGAAACCATCAGCGCCATT
SEQ ID NO. 3424	nhs-2266	ACCAATCATTCTATCGTGCGTGAATACATCGTGCAGTCTCTGCGCGAT
SEQ ID NO. 3425	nhs-1309	CGTGAACGTTTCTTAAATGCGCGTGACACGCTGCGTGCCCTGTTAGAT
SEQ ID NO. 3426	nhs-853	CGTACCCTGGAGACGAGCGTGAAAGACGCCCTGGCGCGCGCGAACGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3427	nhs-2288	GATCAGCAGGCCCGCCTGAAACTGGAGGAGATTGCGGCCGATATCAAA
SEQ ID NO. 3428	nhs-2	GAACCGTGGGCGCAACGCGTGGAAGCGGCCGTTCAGCGTGTTCTGGAT
SEQ ID NO. 3429	nhs-2321	GATGAAAAACAAAAGGTGGCGGTGGAGGTTATTAAAAACCTGTTAACC
SEQ ID NO. 3430	nhs-2435	GTGGGCGAATTAAACACCCGTCTGACGGACGATGTGTCTAAAATCAAT
SEQ ID NO. 3431	nhs-2322	GATACCGAAAAGCGCGATTTTGTGCGCACGGTGCTGATCCTGAAGGAA
SEQ ID NO. 3432	nhs-166	GAACGTAATTTAGACCTGAAAAGCACGATCAAAACCATCATTACGAGC
SEQ ID NO. 3433	nhs-900	ATGGCGAAATTAAACCAGGAACTGGAGGGTAAAGTGGCCGATTCTCTG
SEQ ID NO. 3434	nhs-2324	GATGTGGTGAAGAACGATGCGCGTGCCACGGCGAGCGCCTATTTAGAA
SEQ ID NO. 3435	nhs-639	GCGGCGGATTTAAAGGCGGTGCAGGACAAGCTGAAAACGTTTGTTGAA
SEQ ID NO. 3436	nhs-908	ATTACCCTGGAGCAAGCGAAAAAATTAGAGAAACGTTTAAATGAGGTG
SEQ ID NO. 3437	nhs-1422	CTGAGCGAAATCATCGTGGATTTTCACGACAAAATTAAGAGCATCAGC
SEQ ID NO. 3438	nhs-2801	CATAAACTGGACGCCCAGCTGACCCAAGTTCTGGAACGCGCGCAAAAT
SEQ ID NO. 3439	nhs-217	AGCGCGGCGAACAAGGATGCGATTCGCAAGCAGATGGATGCCGCGGCG
SEQ ID NO. 3440	nhs-899	AAAGAAAGCGCCATCAAAGTGCTGGAGAAGGCGATTAAGGCGTACCAG
SEQ ID NO. 3441	nhs-2299	GATAAAGCGTTAAAGACCATGGTGGAAGGTTTACGTCAGGTTGCGACC
SEQ ID NO. 3442	nhs-1426	CGTGAAGGCAAGACGGATCTGCTGCGCATCGTGGAAAAGTGGAAAACC
SEQ ID NO. 3443	nhs-2297	GTGAAAGAAACGGACCGTATTGCGGCCATGGTTGATGGCTTACAGAAA
SEQ ID NO. 3444	nhs-1329	AGCCGTGCGGACGCCGCGGTGACCGACGACGCGCGTGGTCTGTTAGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3445	nhs-221	CCGTATAGCGTTCGCGCGAAAGATTTAGCCGAAAAATTAAGCAACGAA
SEQ ID NO. 3446	nhs-1321	AAAGAACTGGTTGACCAGTATAAAGCCGCCCAGGAAGCCGCGCGCGTG
SEQ ID NO. 3447	nhs-222	GAAAGCGATTGGAAGATCGCGCGTCAGATCGGTCCGACCTTAAAAGAA
SEQ ID NO. 3448	nhs-2290	CTGAAACTGAAGGAGATTAATGTGGTTAACGAAATTACGAAAATCCTG
SEQ ID NO. 3449	nhs-211	GATGAACTGCGCGACAAAGTGAATGGTGCCCTGAAAACGCTGCGCGAA
SEQ ID NO. 3450	nhs-1423	CCGGCGTTTATCGTTGAAGAAAGCATCAAGGCGCAGCGCAAATTACTG
SEQ ID NO. 3451	nhs-832	ACCGAACTGAAGCACACCCTGGAATCTGAGGGCCGTGAGCTGGTTAAA
SEQ ID NO. 3452	nhs-168	CATGAATATCACGCCGAAACCATTAAGAACGTGCGTACGGCGACGGAA
SEQ ID NO. 3453	nhs-681	GGCACCGAAGCCAACGAAGCGGCGTTAAAGTTTGCGCGCGCGCACACC
SEQ ID NO. 3454	nhs-613	ATTAGCACCTTAGACTTTGAAATTCGCCACCAGCTGACGAAAATCCAT
SEQ ID NO. 3455	nhs-612	CCGAAATTTCGCGAGGCGGTGAAAGCCGCCAGCGATGAGCTGTCTAAA
SEQ ID NO. 3456	nhs-645	GAAATTAGCAAGGCCGTGGATGTGTACAACAGCCTGAAGGATCGCCTG
SEQ ID NO. 3457	nhs-256	TTTCGTCAGGCCCACACCGCGAGCGGTAAGGCGGTGCACCTGGCCGAA
SEQ ID NO. 3458	nhs-2710	GCGAGCCAGCGCGAGGCGGCGGAACGCGCCATGCGTCAGCGCGATCGT
SEQ ID NO. 3459	nhs-61	CCGGATCAGATCGGTGCGAAAGGCGTTGAGACCGCGGACAAAGTTCTG
SEQ ID NO. 3460	nhs-2358	AGCGAAGGCTTAGCCCGTATTGATGCCTACCTGAAAAACGAAATCCAG
SEQ ID NO. 3461	nhs-2359	AATACCGTGAACGTTCATATTCATCGCATCCGTGAAAAGCTGGAGAAA
SEQ ID NO. 3462	nhs-2205	GGCCAGGTGGGTCGCCAGCTGAAAATCATCGGCGATGACATTAACCGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3463	nhs-610	TGGGATGTGATCCGCGATAAAACCAAGACGAAAATTGAGAGCTTAAAA
SEQ ID NO. 3464	nhs-2465	AAAAGCCGTTTAATCGATCGTGCGTCTCAACTGCTGGAGGTGATCCGT
SEQ ID NO. 3465	nhs-2203	CCGACCGCGAAGGCCGAACTGGTGAAGTTAATTAAAGCCATGCAGGAA
SEQ ID NO. 3466	nhs-1415	CGTGATGCGAACGAGCGTGTGGCGGAGTTCATTCGTAACAAAATCCGT
SEQ ID NO. 3467	nhs-201	CGTCTGCATACGGTTATGGAACGTCTGATGGACAAGATTAGCTTCAGC
SEQ ID NO. 3468	nhs-2418	CCGTATAGCAAGCAACATACCATTACGTTAGCGCGTGAGCTGGCCAAA
SEQ ID NO. 3469	nhs-2694	AAACTGAGCTTAAACGTGGTGCGTAAGTTAATTGAATTACTGAAGGAA
SEQ ID NO. 3470	nhs-1385	CCGCAGGATCGCGCCGCGCTGCTGGCCCGCGTGGATCAACTGGCCCGT
SEQ ID NO. 3471	nhs-2194	CTGGAAAGCGCCTTAGCGATGCTGGCGGACGCCCAGCAGCGCAAAGAT
SEQ ID NO. 3472	nhs-2473	AATGAAGATTTAAAGAAACTGGAAGCCTCTGCGATTGAGCTGGCCAAA
SEQ ID NO. 3473	nhs-54	ATTTTTGCGTTAGCCCAGGAAATTAACGAGCTGGCGGAGAAAGCCCGT
SEQ ID NO. 3474	nhs-606	GAACAGGCGGTTTTAGCGCAGCGTATCGTTGATAAAATCTGGCGTGAT
SEQ ID NO. 3475	nhs-2186	CCGCTGGGCCAAGCCCTGCGTGCGATCGGTGATGAATTCGAAACGCGT
SEQ ID NO. 3476	nhs-609	AGCGAAACCGTTGACCGTGCGTTTGGTCAAATGAAAGCGGCCATTCGT
SEQ ID NO. 3477	nhs-1308	TTTCGTGATTTAGCCCTGCGTGTGGACCAAATTCGTGACCAGATGGCG
SEQ ID NO. 3478	nhs-614	AGCGCGGTGCAAATCAAACGTGAATTAAACCATCTGTTATATCAACGT
SEQ ID NO. 3479	nhs-2353	GCGGAAGTGAAGGAGACCCTGGCGTTAGCCGAAGCGGCCGCGAACAAA
SEQ ID NO. 3480	nhs-2812	AAAAAAGATGACGAGGTGTTTCGTACGGCCGTGGGCGACCTGAACCAG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3481	nhs-247	GATGCGGAAGTTAACCGTGCGAAAGCCCAACTGAAAGCCGCGTTACTG
SEQ ID NO. 3482	nhs-859	AAAAGCGAACGCGAGGATCTGATTAAGTACCTGAAACAAGCGACGAGC
SEQ ID NO. 3483	nhs-2458	CCGAAAGGCCAAATGGCCCTGAAATTTAAGGAGCTGGTGGAGCAGCGT
SEQ ID NO. 3484	nhs-1463	CCGGAACAGGCCTTAAATGATGCGGTTAAGATTATGAAAGAGAAAATT
SEQ ID NO. 3485	nhs-2460	AGCAAAAATGTTTCTGATATGATTGATAAGGTTCATGAAGAGATGAAA
SEQ ID NO. 3486	nhs-1399	GCGGATGCGGTTTTCGCGGAAGTGCACCGCGCGAATTTAAGCAAGGCG
SEQ ID NO. 3487	nhs-2462	CAGCTGAGCAAGTCTATGGATGCGGTGGCCGAGAGCATTTACGAAAAA
SEQ ID NO. 3488	nhs-2347	TTTGATACCGCCTTAAATACCGTGATCGACGCGATTGACAAAATCCGT
SEQ ID NO. 3489	nhs-682	GAACAGGGCGTTATGAAGGCGTTTGAAGCCGCCCTGAAAGACACCGCG
SEQ ID NO. 3490	nhs-2218	CCGGTGGAAGTTGCCGAACGTATTCGCACGGTGGTGGCCGCGGAGACC
SEQ ID NO. 3491	nhs-947	GGCGATGCGAAGTTAGCGGAAGCGAAGGCCGCGGCGCGCCAGAACCTG
SEQ ID NO. 3492	nhs-617	AGCGGCAAATTCGTTAATGGCATTTTAGACCGTATTGCCAAAGAGCAT
SEQ ID NO. 3493	nhs-2349	CAGCGTGCGTTCGTTAAAAATGTGGACGCCATTGAACGCGCGAAGGGC
SEQ ID NO. 3494	nhs-2228	AGCCGTGTGGAGCAAGTGCTGGCGGACTTAAAAAATTTCAGCAAGGAA
SEQ ID NO. 3495	nhs-861	AAAACCCAGATCTACGCGGTGAAAGACAAGATTGAAACGCTGTTAATT
SEQ ID NO. 3496	nhs-174	GATCGTCAGAACAAGGCGTATAAAGAGGCCATGGAAGCGTTAAAAGAA
SEQ ID NO. 3497	nhs-950	AATGAAGCGGCCGACCTGATTGAAAAGGCCATTAATATGGCCATTCGT
SEQ ID NO. 3498	nhs-251	GTGGCGGCGCGCTCTGATCTGCTGGTTGACCAGTGGAAAAAGAAAGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3499	nhs-2709	GTGCGTGAAGTTTTCGAAATGGCGACCCGCGCCGCGCTGCAAGCGCGT
SEQ ID NO. 3500	nhs-951	GAAAATGATTTACAACGTGCGACCGACTTAGCGTATCGCATGGTGAGC
SEQ ID NO. 3501	nhs-2664	CATGAAAAATTAACGCAGGCGCGTAACCAACTGCTGGCCGAAGCCGCG
SEQ ID NO. 3502	nhs-2230	CTGGGCCATCAAGTTGCGAGCGATTACTTACGTATTATGGAGCGTGCG
SEQ ID NO. 3503	nhs-2104	CGTGATAAAATCTTAAGCGATGTGTTAGCCAAATTTTCTGCGGCCATT
SEQ ID NO. 3504	nhs-464	GATATTCATCAAATCATTGATAGCATCCAAGAAACCAAGAAATTAAAA
SEQ ID NO. 3505	nhs-1274	CGTGATATTATCAACGCGCGTCTGCGCGAGGAACTGGACAAAATCACC
SEQ ID NO. 3506	nhs-1103	ATTGGCAAAATCACGCGTACCGTGTCTGACTATGTGCAAGAAGCCCGT
SEQ ID NO. 3507	nhs-2558	GAAAATGTGCACGCCCGTATTGAAGGTTTCAAAAGCGCCCTGGACGTG
SEQ ID NO. 3508	nhs-1104	AAACAGGCGGTTTCTATGTTTCTGGGCGCCGTTGAAGAAGCCAAAAAA
SEQ ID NO. 3509	nhs-1661	CCGGATGAAATGCGCAAGGAAGTGCTGATGCAATTACTGAATGTTAAA
SEQ ID NO. 3510	nhs-1894	CATCGTGAAGCCGTTGAACATTTTTTAGAGGCGCTGAACATGCAGCGT
SEQ ID NO. 3511	nhs-1106	CGTGTGCCGGAGCAAAAACTGGGCGCCGCCATTGATGAGTTTGCCAGC
SEQ ID NO. 3512	nhs-510	GGCGATCAGGCCGACCGTTATGCGGTTAAGCTGCTGAACCATTTACGT
SEQ ID NO. 3513	nhs-1891	ATTAGCTATGTTCAAGGCGAACGTCAAGCCCGTAATGTTCTGCGCGAA
SEQ ID NO. 3514	nhs-1663	GATAAATTTTTACAAGATAAAAAATTATTAATTAGCATCCTGGAGAAA
SEQ ID NO. 3515	nhs-507	GCGGAAGGCCAAGCCTATCGTGATAACGTTGCGCGTATCATTAAGAAT
SEQ ID NO. 3516	nhs-505	GAAGGCGATTTATTCACCCAGCTGCGCAAGATTGTGAAGATGGCGAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3517	nhs-1667	CTGGATGAATTAGTTAAAGAAACCAAGAAGAAAATTATCGATACGCTG
SEQ ID NO. 3518	nhs-1216	CCGGCGACCGTTGTTACCGCGCTGGAGCAACTGGCGCACCATCACCAT
SEQ ID NO. 3519	nhs-511	GCGCGTGAAATGGCCAACGCGAAAGAAATCGCCCGTACCGTTCAGATT
SEQ ID NO. 3520	nhs-1884	GTGGAACTGGGTCGCCAGCTGGGCGCCGCCTATCAGCGCCTGGACGAT
SEQ ID NO. 3521	nhs-1881	CGTGATGAATTAAAGGCGCTGATTCAAAAGGTGACCCACAATTTAGTG
SEQ ID NO. 3522	nhs-1215	CGTAGCGAATTATCTGATCTGGGCACGTTAATTAAAGACAATTTAAAA
SEQ ID NO. 3523	nhs-716	GTGCAGGATTTAGGTAGCACCGTGATCAAGGAAGTGTTAAAACGCGCG
SEQ ID NO. 3524	nhs-1673	ATTATTCCGCGCACGCTGCATCAGATCTTCGAAAAATTAACCGACAAT
SEQ ID NO. 3525	nhs-1876	ACCAATGAATTAAAGGAAATTGTGCGCAAGATTGGCAAGGATTTAAGC
SEQ ID NO. 3526	nhs-1675	CCGACCATTCGCGAGCGTATTGAAGCCATGACGGCGGAAGCCAGCAAA
SEQ ID NO. 3527	nhs-107	CAGGAAGCGCGCTTAGGCATTAAACCACACATTCAGCGCCTGTTAGAT
SEQ ID NO. 3528	nhs-717	ACCGCGGATCGCGACATTCTGGCGCGCTTACATAAAGCCGTGACGAGC
SEQ ID NO. 3529	nhs-2755	GATGGCGAATTAAACCTGATGAAAAAAGCCGCCAGCATTACGAGCGAA
SEQ ID NO. 3530	nhs-2565	ACCGATGCGATCAACCGTGGCAATGAGCGCCTGCTGCGCTATTTACAG
SEQ ID NO. 3531	nhs-409	CGTGAAAAAGCCTTAGAACTGGCGGTTGCCCAGATTGAGAAATCTTAT
SEQ ID NO. 3532	nhs-1120	GGCGATGTGAAGGTTTGGATGCAGAATCTGGAGGACCTGCATACGCGT
SEQ ID NO. 3533	nhs-1679	GAAAATTTTACGCAACGTGTGAGCACGAACCTGGAAAAGATGAAACAG
SEQ ID NO. 3534	nhs-2560	CATGCGGCGGGTGACCGTATGCTGCAGGAGGTTGCGACCCGCCTGAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3535	nhs-2615	AAAACCGATCGCATCAAACTGGAACAAGTTATTAGCGGTGCGTTAAAA
SEQ ID NO. 3536	nhs-2758	GAAAAAAGCCGCGAGTTTGCGGAAAAGTTAAATCGTGAGGCGCGCGAT
SEQ ID NO. 3537	nhs-1221	AGCGCGAATACGAAGCGTGTGATGGATATCTTCCTGAAAATCAATGAA
SEQ ID NO. 3538	nhs-2546	CGTCAGGAATTAGAGCTGAGCGTGAAGAAGGAACTGGAGAAAATCCTG
SEQ ID NO. 3539	nhs-1944	AGCGAACATTTAGCCAAAATGCTGAGCAAGCACCTGGAACGCGTGATT
SEQ ID NO. 3540	nhs-1943	GTGTTTGAAACGTTAAAAGAAGTGTCTCGCCTGGTGTTAGCGCGCGTG
SEQ ID NO. 3541	nhs-1228	GATAGCGTGAAGATCGAAGCGGCGAAGTTAAAAAAATCTTTTTTAACC
SEQ ID NO. 3542	nhs-2405	CCGACCGCGCGCGAGCGTACCACCGGTGCCGTGGATGCCCTGAAGGCG
SEQ ID NO. 3543	nhs-1227	TTTAAACAGTTAGTTGAAGATCTGGACCGCATTCTGACGCTGACGACC
SEQ ID NO. 3544	nhs-1937	ACCGGCGCGATGATCACGGGCACCATGGTGGACGAGCTGGAACGCCGT
SEQ ID NO. 3545	nhs-1936	GAAACCGTGTTAGAGAGCTATCGTACGAACAGCCTGCGCAAAATCAAT
SEQ ID NO. 3546	nhs-1935	GATCTGGAAAAGGCCAAAACCCATTTAGTTGTGCTGTGGGCCAGCCAG
SEQ ID NO. 3547	nhs-1084	AAACGTACCTTAAACCGTTATGAAAAGATCGCGAATGACATTGACGCG
SEQ ID NO. 3548	nhs-1932	GATAAAGCGGCCTTCGCGGCGCAGAAGCAAAAAGCGGACGCGTTACTG
SEQ ID NO. 3549	nhs-2550	CAGGCGCTGAAGGACTATGAAGCGCACTTAGCGAGCTTAGGCCGCAGC
SEQ ID NO. 3550	nhs-1086	CCGAAAACCGTTAACGAAATGATTGATGCCTTCACCAAAGCCCGTGAT
SEQ ID NO. 3551	nhs-390	GCGGGCCTGTCTGAGAAAGTGGATCGCTTACATAGCTACCTGAACCGT
SEQ ID NO. 3552	nhs-2496	CATCAGGGCGTTGCCATTGATACCTTCGCCAAAGAAGTTGAAAAGCGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3553	nhs-1087	GTGGAAAAATCTGTTGAAACCCTGTTAGACCTGATTATGAAGCGTATG
SEQ ID NO. 3554	nhs-1225	CCGAAAGAAATCCAAATTCAGATTCGCAAGTTTGTGGGTGAATTAATT
SEQ ID NO. 3555	nhs-1921	GATGATGTGAAGAAGCTGGCGGAAGAGACGGAAGCGCGCATTAAGAGC
SEQ ID NO. 3556	nhs-1918	GATGATCTGATGGAGGCCGCGGCGAAACGCTTCAAAGAACAAGTGAGC
SEQ ID NO. 3557	nhs-2552	ATGCGTAATCACGCCAAAACCGATCGCGTTTTTGATTTAGCGGCCCGT
SEQ ID NO. 3558	nhs-82	GCGCGTCATATGCGCGAGCTGCTGACCCAAATGGGTCATCTGTACGGC
SEQ ID NO. 3559	nhs-1649	CCGTATAATTCTCGCGCGGATGAATTAGCCCGTCTGGCCATTAAGGAA
SEQ ID NO. 3560	nhs-1913	ACCGATCTGATCAAGCGTATTGGCCAAGCCACCGCGAAGGAAGTTGCG
SEQ ID NO. 3561	nhs-518	CCGTATGGCCGCGACCGTGATGGCCAAGTTGCGGCGGCCCTGAAGACC
SEQ ID NO. 3562	nhs-1223	AAAGAACTGGTTTTACGTATTCTGACGGTTCGTGAAAACCTGGCCGAA
SEQ ID NO. 3563	nhs-1910	AAAAATACCGCCGACCAGGTGGCGGTTGAGGCGATGCGTGAGCGTATG
SEQ ID NO. 3564	nhs-515	GCGAAAGGCCAACAAGAAGCGGCGCGCGCCGGCGAATTACTGAAGGAA
SEQ ID NO. 3565	nhs-514	GATGTGCTGTACTCTCTGAGCAAAACGTTAAAAGATGCCCGTGACAAA
SEQ ID NO. 3566	nhs-1924	CTGACCGAATTAAACAGCCTGATTTCTCGCCTGGCGGACGATACGAAA
SEQ ID NO. 3567	nhs-1861	GGCACCAAAGTTACGAAAATGGAAGATGACATCAAAAAATTACTGGGC
SEQ ID NO. 3568	nhs-718	GGCCTGCAGCGCGCCAAAACCGGCACGGACAAAACCTTAGTGAAGGAA
SEQ ID NO. 3569	nhs-1124	CCGGAAAAAACGAAGGCGGTGGAAAACTACCTGATTCAAATGGCGCGT
SEQ ID NO. 3570	nhs-2736	GATGAAAAAACGGCCATTACCAAAGGTTACGAAGCGTTAATTAAGCGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3571	nhs-91	GCGGAAGTGTACGACATTATTAAAAAGGAGAGCAATCGCCAGCGCG TG
SEQ ID NO. 3572	nhs-1727	GCGGCGCGTACGGTTCGTGCGCAGTTACGCGAATGGCTGGCCGAAA TT
SEQ ID NO. 3573	nhs-2603	GTGAGCAGCATCCGCGATGCGGATCGCGTTATTGGCTTACTGGAGA GC
SEQ ID NO. 3574	nhs-1731	AGCGCGGAAGCCGTTAAAAAAACCGCCGAGGATCTGGCCAAAGAG CTG
SEQ ID NO. 3575	nhs-100	AATGCGGTGTCTTTAGTGATGCGTCGTATCCGCAAAGAAAACGTGG AT
SEQ ID NO. 3576	nhs-1161	CTGAGCCAGCACGAGCGTTATGTGGAGCAACTGAAACAAGCGTTAA AA
SEQ ID NO. 3577	nhs-1733	GAAGCGGATATGAAGCGCGTGGTGCTGTCTTTAGTGACCATGTTAC AT
SEQ ID NO. 3578	nhs-2585	CCGGAAGCGATCAACCGTGGCAATGAGCGCCTGCTGCGCTATTTAC AG
SEQ ID NO. 3579	nhs-1736	GAAAAAACCCGCGACGCGGCGCTGATCTTAGCGCAGAAGGCGCACG CG
SEQ ID NO. 3580	nhs-2602	AAAAATGAATTAGTTCAGCGTCTGATCAAGGATGATGAGGAATCTA AA
SEQ ID NO. 3581	nhs-1784	ATTTTTGAACGCTTAACCAGCGAATTATTAGGCGTGATGGCCAAAA AA
SEQ ID NO. 3582	nhs-1783	ATGGAAGAAATGCGCAAGGAAATTATTGCCGTTATTCAGAAGTATA CC
SEQ ID NO. 3583	nhs-1804	CTGGATGATGTTGACTTTATTAATAAGCGCATTACCGTTCTGGCCAA T
SEQ ID NO. 3584	nhs-1782	ATTGCGACCCGCAAGAAATGGGTGAGCTTAGTTGAAGGCGTTAAAG AA
SEQ ID NO. 3585	nhs-1742	CGTGCGGAATTAGACGCGCTGCTGACGCAAGCGGCGTTATTTAAGC GT
SEQ ID NO. 3586	nhs-92	GCGCAGGAATTAGACATTAAAGCGCGCAACTTTCTGATCAATAAGA AA
SEQ ID NO. 3587	nhs-740	GAAAAAAGCATCTTAGGCGCGAAAGAGGCCCTGAGCATCCTGAACC GT
SEQ ID NO. 3588	nhs-1172	AATGAACTGCGCGAGGCGCTGAATAAGGCCTTTGCGGAGATGCGTG CG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3589	nhs-739	GATAAAGGCTTCCAAAAAGTGATTGCCGACATGAGCGGCCCACATG TG
SEQ ID NO. 3590	nhs-472	CTGAGCTATCGCGAGGCGGTGCTGCGCGCCGTGGATCGCCTGAACG AA
SEQ ID NO. 3591	nhs-2595	CATCTGAGCGGTGACGAAGTGCTGAAGACGGTGAGCAAGCGTATCC TG
SEQ ID NO. 3592	nhs-2598	ACCGAACTGAAGAAGATTACCGATAAGACGATTAAAGCCTTTATGG AT
SEQ ID NO. 3593	nhs-1762	TTTCGTGATTTAGCCCTGCGTGTGGACCAAATTCGTGACAATATGGC G
SEQ ID NO. 3594	nhs-468	GTGCAGGATATCGAGCGTGCGGTGGCCAAGCTGGCGCAAAAATTAA AA
SEQ ID NO. 3595	nhs-1760	GTGGAAATTGGTGAGAAAATTGCGCAAATCGCGATTGACCGTGCCA GC
SEQ ID NO. 3596	nhs-2745	GCGCATACCTACATCGCGGCGAAAAAGATCGAAAATGAGGCGAAG AAA
SEQ ID NO. 3597	nhs-1758	GAAGAAACCTTAATCAATCATGCGAAGGCCTGGGCGAGCGCCATTC GT
SEQ ID NO. 3598	nhs-99	CGTGCGGAACGCCGCGAAGTGGAAAACGTTGTGGTGACGGCGTTAG CG
SEQ ID NO. 3599	nhs-1719	ACCAATCTGACGAAGCTGGAAGTGTTATTAGAAATTTCTGATAAGCT G
SEQ ID NO. 3600	nhs-1809	CCGGAATTTCGCGAGAAAGCGCTGAAGGCCATGGAAACCGAGCGTC AG
SEQ ID NO. 3601	nhs-1716	GATGCGATTAACCAAAAAGCGCAGGAGTTAGCGCGTAAGGCGGTTG CG
SEQ ID NO. 3602	nhs-760	CCGCGTGAATTATTAATTGCGCGTCAAGCCGCGAATGTTATTGAGCA T
SEQ ID NO. 3603	nhs-1684	CAGGAAGAAGCCTTAGAACTGATTAACGGTTATATTCAAAAAATCA AA
SEQ ID NO. 3604	nhs-493	GATGAACGTAACCGCCAGATTGCGGAGATCGGCGCGTCTCTGATCA AA
SEQ ID NO. 3605	nhs-1686	CTGAAAGAAGCCATGGACCTGGGCACCGAGGCCGCGAAATACGTGA GC
SEQ ID NO. 3606	nhs-2567	GCGCATATTCAACACGATAAAACCACGTCTGCGCTGAAGATTTTAA GC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3607	nhs-1689	GCGAGCCTGAAGGAGTTTCTGAAATCTTTACTGGAAGCCATTATCAAA
SEQ ID NO. 3608	nhs-24	AGCGAAACCGTTGACCGTGCGTTTTCTCAAATGAAAGCGGCCATTCGT
SEQ ID NO. 3609	nhs-1131	CGTGAAAATTTCGAGATTCTGATGAAATTAAAGGAAAGCTTAGAACTG
SEQ ID NO. 3610	nhs-722	CCGCAGCTGGCCCACGATCGTATTACGGAGGCGGCGCGCCAGGTTCGT
SEQ ID NO. 3611	nhs-492	GCGCCGTATCGCAAGGAACAGCGTTTACGCGAAGTGTTAAGCGGTCTG
SEQ ID NO. 3612	nhs-1139	CGTCAGGAAGTTCAAGATACCGCGCGCGGTCAGATTAACGATTACATT
SEQ ID NO. 3613	nhs-421	ATGACCCTGGCCAAGACCGAAGCGAAGTTACTGCATGAGAAAATCAGC
SEQ ID NO. 3614	nhs-2572	AGCGATCTGGTTTACGAAACCATTAACCGCGTGAAACGCATTAAGGAT
SEQ ID NO. 3615	nhs-2573	CGTCGTAAATTCGAGGAAGTGGATACGAACCTGAAAGTTCTGTTACAT
SEQ ID NO. 3616	nhs-2574	CTGGATCGTTTACGCCAGTTTATTGGTGAGCTGGCGACGCTGTTAGAT
SEQ ID NO. 3617	nhs-2608	GTGAGCAAAATGAACGACATGGTGAAACTGGTTGAGAAACTGTTAGCG
SEQ ID NO. 3618	nhs-2751	GGCGGCGAAGCCAAGGCGGTGGAAACGTTAAAACAGCAAATTCAAAAA
SEQ ID NO. 3619	nhs-1702	AAAGAAGATGTTGACGTGGCGGTGGCCGCCGCGAAAACGGCGTTAACC
SEQ ID NO. 3620	nhs-2732	GCGACCGATGTTTCTAAACGTCTGGACTTAGCGGTGCGCCTGTTAATT
SEQ ID NO. 3621	nhs-1707	CGTGAAGAAGCCATCAGCAATATGGTGGTTGCCCTGAAAGAGCTGAGC
SEQ ID NO. 3622	nhs-752	GCGGTGATTGAGATGACGAAAAAAGTGAAGCCACATCTGGTTGCGAGC
SEQ ID NO. 3623	nhs-751	GCGGTGATTGAGATGACGCAGAAAACCAAGGAGCATCTGATCAAAACC
SEQ ID NO. 3624	nhs-1709	CTGAGCGCGGCCGAGCATCTGCTGAAGGCCCAGGAACACCTGATCGGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3625	nhs-486	GATAATGATCGCGCCTTTACCATTAAGAAGCTGGCGGAGCTGGTTAAA
SEQ ID NO. 3626	nhs-1815	AAAGAAGAACACACGGAACTGGTGAAGGACCTGATTGCCAAATTAAAT
SEQ ID NO. 3627	nhs-727	ACCCAGCATTGGGTTTTAGAAGGCATTGAGCGCGCGGTGAAGGAAGCG
SEQ ID NO. 3628	nhs-1713	GGCGATAGCCAAGACACCGCGTATAAGGTTAGCCAGTTAGCGGACCGT
SEQ ID NO. 3629	nhs-1714	GGCGCGCGTTTAGCCGAATATCATGCCAAGGCGACCGAGCATTTAAGC
SEQ ID NO. 3630	nhs-437	TATAAAAAACGCTTAAATGAACTGATCACGGATGCGTTAATTACGAGC
SEQ ID NO. 3631	nhs-524	CGTCAGGAAGCCTTAGAACTGATTAAGAAGGGCTATACGCAGCAACTG
SEQ ID NO. 3632	nhs-2544	AGCGTGCGTATGCGCGCCATTCAGAATCGCTTACTGCATGAGCTGGGC
SEQ ID NO. 3633	nhs-1925	AGCGAACCGTTATTACATCTGCGTGAGAAGATTGCGCGCCTGGTTACC
SEQ ID NO. 3634	nhs-1355	CGTGGCCATCAAAAGCTGATTAATGCCACGGTGGAAAAGGCGCGCGAA
SEQ ID NO. 3635	nhs-16	CTGGAAAGCTCTCACGCGCTGGCGCACGCCCTGAAAATGATGCGCGAA
SEQ ID NO. 3636	nhs-336	AAACAGACCGAGTCTCATGCGGTGAAGATCGTGGTGGAGGCGGCCCGT
SEQ ID NO. 3637	nhs-700	CCGGAAGATATGTTAGAGCAGTTTAAAACGGTTCGTGCGTTAATTCGT
SEQ ID NO. 3638	nhs-2058	GAAGATGATGTTAAGAGCCTGAGCCGCGTTATGATTCATGTTTTTAGC
SEQ ID NO. 3639	nhs-315	GCGTATGCGGACGTTATTGTGAATTCTGCCCTGGAAAAGCTGCGCAAA
SEQ ID NO. 3640	nhs-2522	ATTTATGAACACTTACAGAAACTGGTTCAAGCGGAATTAAAATTAATT
SEQ ID NO. 3641	nhs-1042	AAAGATGCGTTCTTACTGATTCAGCGCTTAACCCGTATCATTTTACAT
SEQ ID NO. 3642	nhs-1590	GAACAGGGCAACCGCGAAGCGCGTCAAGCCGGCCAGTTACTGAAGGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3643	nhs-547	CAGGCGACCTTAGACAAACTGGAAGCCGGTTTTAAAAAGCTGCAAGAA
SEQ ID NO. 3644	nhs-1592	GCGGTGATTTACTTAATTAGCCATAAGTTAGTGAAAAAGAGCTTAGAT
SEQ ID NO. 3645	nhs-1264	CGTGTGCATAAGATCAATAATGTGAACAAGGCGCTGGACTTTATCGCG
SEQ ID NO. 3646	nhs-570	TTTGATACCGCCTTAACCGATCTGAAGACGATTATTCGCGCGGAGCGT
SEQ ID NO. 3647	nhs-1594	GATGGCACCCAACGCGGCGCGCTGGTTATCAGCCAGGAGGCGAAGCGT
SEQ ID NO. 3648	nhs-790	GATGCGCAGAAGATCGCGATTGATAAGTTATTTAGCATGTTAAAAGAT
SEQ ID NO. 3649	nhs-1557	AATCATGTGAACGAGGCGCTGAAAGCCTTAAAACAGATCAAAGAGGAA
SEQ ID NO. 3650	nhs-1018	GAACGTGATCGCACGCATAGCATTATCAAGGGCATTAAGGATCGCACC
SEQ ID NO. 3651	nhs-788	AAACAGGTGGGTGCCCTGAAAAGCATGGTTGAGGATAAAATCCAGAAA
SEQ ID NO. 3652	nhs-346	GTGTATGGCAAGACGAAACTGGCGGGTGAGAAAGCGTTACAGGACAAT
SEQ ID NO. 3653	nhs-1598	AGCGAAGCGGCCAACCAGCGTCTGGAGGCCGGCAAATCTGCGGTTGAA
SEQ ID NO. 3654	nhs-787	AAAGAACAGGTTCAAGCGAGCCTGGAGAACATGGCGAAAGTTGTGGAT
SEQ ID NO. 3655	nhs-1257	CAGGAAACCCAAAAGGGCGCGCTGAAGGAGATTCAGGCCTTTATCCGT
SEQ ID NO. 3656	nhs-1603	CCGCGTGCGAAGAAGGTGCTGGAATTATCTCTGCGTGAGGGCTTACAG
SEQ ID NO. 3657	nhs-2628	AAACTGCATTCTCAAGCGAATCTGATGCGCTTAAAAAGCGACCTGTTT
SEQ ID NO. 3658	nhs-1020	GGCGAAGCGTACAAGCAGCAGGTGGCCCGCGCGGTGGCCGAAATCCGT
SEQ ID NO. 3659	nhs-349	AAAGAAGATTTCGGTAAACTGATGACCAAGAACCATGAATTACTGAAA
SEQ ID NO. 3660	nhs-549	AAAGAAGCGGCCTCTGTGACCCGTGACCACATGGTGATGGTGGGTACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3661	nhs-1038	CGTACCGAAGCCGCCAATGTGGAAAAGATCACCACCAAGCTGTTAAAA
SEQ ID NO. 3662	nhs-2040	GTGGGCGATGACTTCAGCCGTGTGGTTAACCGTCAGTTAGATCAAACC
SEQ ID NO. 3663	nhs-71	GCGGGCGAACGCATCGTGGATATTATCGCCACCGATATCCAGACGAAA
SEQ ID NO. 3664	nhs-1028	GTGGGCGATGCCATCAGCGCGCTGTCTCGCAAAATTGCCAAAGAGACC
SEQ ID NO. 3665	nhs-2035	CGTCAGGCGATCTTCGAAACCCTGGTTGCCAAAGGCCGCGAATTACTG
SEQ ID NO. 3666	nhs-2772	AGCGTGGGCGCCAAGACCCTGAAATCTGTTATTAAAGAGTATAACGAA
SEQ ID NO. 3667	nhs-2032	ATTGATCTGCAAAAGGAAGTGGAAGCCTTACTGGATAAGCAGATCAAA
SEQ ID NO. 3668	nhs-2636	AATGCGAGCGACCGCCTGCTGGAAATCATGCGCCTGTATCAAAAACAG
SEQ ID NO. 3669	nhs-1580	ATTGATGCGGCCCACAAAGAAATTACGGACGGCGTGGCCAATTTCAAA
SEQ ID NO. 3670	nhs-323	GATGAATGGAAAAACAAGCTGGATAGCTTAATCGATCGTATCATTAAA
SEQ ID NO. 3671	nhs-127	GGCCGTGAATCTGTTGGCTTTCTGGTTACGATTAAAGAGCTGTTAGAA
SEQ ID NO. 3672	nhs-2027	GTGGAAAAAGTTTTAAAAACCCGTTACCACGATGCGACGAGCAAGCTG
SEQ ID NO. 3673	nhs-1582	CCGAAAGTGATCAACCGTCTGGCGCACGAGGTGATTGAGGCGCAACAG
SEQ ID NO. 3674	nhs-1583	AGCCTGGCGGAGATGGGTGCGAATCGTTTATGGAAGCTGATTCACGAA
SEQ ID NO. 3675	nhs-1570	CGTAATGATTACCGCACCCTGCGTCAAGGTATTATTGACATGGTGCTG
SEQ ID NO. 3676	nhs-1035	GTGCGTGGCCGCTTAGCGGAAACCTTATTAATTCTGAAGGAAAACTTT
SEQ ID NO. 3677	nhs-2022	CTGGGCCGTGAGAAGGCGGTGCAGGAGGCCATTCGTGACCTGATCCAG
SEQ ID NO. 3678	nhs-2640	AGCCCGCGTGAGACGCTGACCGATACGATCATGATGGCGAAAATCCGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3679	nhs-2049	GGCCCGGATAACTTACGTAAAGGCATCGAGCTGGCGGTTGCGGAGACC
SEQ ID NO. 3680	nhs-1565	CGTGAAACCTTAGAGATTAGCTATCGCAACGCGATTGCCCGTTTAAGC
SEQ ID NO. 3681	nhs-1261	CCGGCGGATTGGGCCAAGAAACTGACCGACGCCGTGCTGCGCCAGAAA
SEQ ID NO. 3682	nhs-1251	ATTAGCACCTTAGACTTTGAAATTCGCCACCAGCTGACGCAGATCCAT
SEQ ID NO. 3683	nhs-2520	AAAACCGTGAACATGATGGAGCTGATTAATAACATCGCGAAAGAGCAT
SEQ ID NO. 3684	nhs-551	CAGCATCTGCACACGCTGCTGGATTTATACGATAAAATCAATACGAAA
SEQ ID NO. 3685	nhs-1634	AAACCGCAGGTTTTCGCGAATGCGGAGAAGATTGTGGAGCAGTTAAAA
SEQ ID NO. 3686	nhs-2071	CCGGATCAGCAACGCGATTTTCAGCGCGAGATTCAGATCCTGAAGGCG
SEQ ID NO. 3687	nhs-1994	CTGGAAGGCTTATTAAGCCAGATGAAAGCCATCGATGATTTAGTGAAA
SEQ ID NO. 3688	nhs-1014	TTTGAAACCAACGTTCGTGAAACCAAGCGCGTGGTGGAGGCGGCCCAT
SEQ ID NO. 3689	nhs-780	CCGGATGATACGGCCCGTATTCTGCGCGAGTTTCTGTCTGATGCCCGT
SEQ ID NO. 3690	nhs-2507	GAAGCGCGTCAACGCCTGGTGGAAGCCCAAATTAAAGAGGCGGTTCTG
SEQ ID NO. 3691	nhs-1071	AAAACCGAATTATTACGTGCGGTGGCCGACCGTATTTTACTGTCTGCG
SEQ ID NO. 3692	nhs-1545	CCGGATCATAAGGCCACCCGTGATGCCACGCTGCTGGCCGCGCGCGAA
SEQ ID NO. 3693	nhs-1967	ATTAGCACCTTAGACTTTAAAATTCGCCACCAGCTGACGCAGACGCAT
SEQ ID NO. 3694	nhs-1271	AAAAGCAAAAAGTTAGAATTTCTGTTAAAGGTGAGCGACCGTTTAGAA
SEQ ID NO. 3695	nhs-2724	GCGAGCCTGGTTAAGAGCCGTCTGGAGCACGAACTGGGTCGTATCCGT
SEQ ID NO. 3696	nhs-1965	TTTGTGGAAAACGCCATTATTAAAGCCCGCCATGCGGCCAAACAAACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3697	nhs-2644	CTGGCGGCGCGCAAGGATTTTCAGCGCGAGGCGGAATTACTGACGAAT
SEQ ID NO. 3698	nhs-2090	AATCAGCGTGCCGCCATTGTGGAAAAGAAGATTGAATTAGCGAAGACC
SEQ ID NO. 3699	nhs-2091	GATGAAGCGGTTGCCAAATTTAGCACGGCCATTAATGAGCTGAAGGCG
SEQ ID NO. 3700	nhs-1618	GATAGCACCCGCGAGACCGTGCTGAAGCAAATTCGTGAGTTTTTAGAA
SEQ ID NO. 3701	nhs-2626	GAAATGGAACGCGAGCAGCTGGAAGTTTTAAAACAGCGCGGCATCGCG
SEQ ID NO. 3702	nhs-1962	ATGGATGAACGCAACCGTCAGATTGCCGAGATTGGCGCCAGCTTAATT
SEQ ID NO. 3703	nhs-2540	GCGCTGAATGAGAAGCTGGTGAAAGAGACGCTGCAGTTAGCGGAGCAG
SEQ ID NO. 3704	nhs-778	CGTGATGAATTAGTTGAAAAAGTGAACAAGACCCTGGCCAAACGCCTG
SEQ ID NO. 3705	nhs-528	AAAGAAGCGAAGAACGCGGCGGCGAAGTTAGCGGTGGAGATTTTAAAT
SEQ ID NO. 3706	nhs-2093	GCGGATGCGATGAACCGCGAAGTGAGCTCTTTAAAAAATAAGCTGCGT
SEQ ID NO. 3707	nhs-1539	CATCGTCTGATCGACCAGGCGACCGCCGAGATTGTGGAGACCGCCAAA
SEQ ID NO. 3708	nhs-1956	CCGAAATTTAAGAAGATTCTGAGCTTAATGGACCATGTGGAGGAACAG
SEQ ID NO. 3709	nhs-804	CAGGCGGCGGCCTCTGAATGGCGTGCGCGCGTTGTGGATGCCCTGAAA
SEQ ID NO. 3710	nhs-1951	ACCCAGGGCGTTAAGCGTATGAATGGCTTCATCCAGGCGCACCGTGAA
SEQ ID NO. 3711	nhs-1950	GTGGCGAATGCCGTTCAGAAAATTAAGGGTATTGTGGAGACCGAGCAT
SEQ ID NO. 3712	nhs-2099	ATGGATAGCAAGAAGTATGTGCAGTTAAAGCATAAAGCCGCGGCCGAA
SEQ ID NO. 3713	nhs-361	AGCAAAACCGGTGAGAAAATTATGCAGTTATTAAAAAAATTAAATGAA
SEQ ID NO. 3714	nhs-574	CGTACCGAATTAAAGGAAATTGTGACGTCTGATCTGAAGCAGTTACTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3715	nhs-1972	GGCCGTGTGGTTTTAGATGAAGCGGTTAAGCTGCTGAAGCAGGCCAGC
SEQ ID NO. 3716	nhs-1610	CGTGAACTGATGGAGACGGGCCGTAGCGTTGTTCAGAAATACCTGAAT
SEQ ID NO. 3717	nhs-539	CAGGAACTGGAGTTAAGCCTGAATATGGCCTTCGCGCGTGCCCGTGAA
SEQ ID NO. 3718	nhs-537	CCGCAGGTGGACAAGGTGCGTGAAGCCACGGAAATTGCCACCGGTCTG
SEQ ID NO. 3719	nhs-1066	GGCCATGAAAAGTTAACCCAGGCGCGCAACCAGCTGTTAGCGGAGGCG
SEQ ID NO. 3720	nhs-1243	CTGGAAAAAACGCGCGAACTGAAAGAGGTTCTGAATAAGGTGAAGTAT
SEQ ID NO. 3721	nhs-1980	CCGCTGACCGTTAAGAAACATCTGCGCGCCCAGGCGATCGCGTTAGAA
SEQ ID NO. 3722	nhs-541	AATCAGCTGCAAAACGGCATTAAACGCGTTAAAGAATTCCTGGAGAGC
SEQ ID NO. 3723	nhs-1613	AGCACCGTGGCCGAGAAAAGCCTGACGGAGCTGCTGAAGAGCTTACAT
SEQ ID NO. 3724	nhs-1269	GATACCCATCGCCGCCTGGTGATGGAAACGTTAATTAAAGCCGGCGAT
SEQ ID NO. 3725	nhs-309	GAAAATGTGAAGAAGAAACTGAGCTTAGCCCTGGAAGCCGCGAAGATG
SEQ ID NO. 3726	nhs-785	GCGGATCTGGTTAAGTTTGGCCAGCGCTTACGTGAATTACGTACGGCG
SEQ ID NO. 3727	nhs-1056	GGCCCGAAAGTTCGCACCTGGCTGAGCGAGAACGGCGAAGAGCGTCTG
SEQ ID NO. 3728	nhs-131	AGCATTATTCGCGACCTGACCGATGCCGCCGTGAAAATGGTTCGTGTG
SEQ ID NO. 3729	nhs-308	CGTGAAGCGGCCGTTGAACAGCTGAAGTCTATTCGTGAGGATATCGTG
SEQ ID NO. 3730	nhs-2499	GCGAAAGGCCAACAAGAAGCGGCGCGCCGGCGAATTACTGAAGGAAAAA
SEQ ID NO. 3731	nhs-2606	GATGAACATGCCGTTGAAGCGGTGCGCGGTGGCCAGTACATTTTACAGCGT
SEQ ID NO. 3732	nhs-2511	CGTGATGCGGGTCAACTGTATAGCAAGGGTATGGAAAGCTTAAAAGTTATG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3733	nhs-2508	ACCGCGATTATCGACCAGATTCTGAAGTTACGTCTGGAGAAAGCCAAACTG
SEQ ID NO. 3734	nhs-2747	TTTGAAACCGTTCGCAGCGCGGCGAAGACGATTCGTGAGGCGTTAGATGCG
SEQ ID NO. 3735	nhs-2740	CTGGCGGAAGCCCAAGCGGATTTTTTAACGCGTGTGTTACAGCGCCTGGAA
SEQ ID NO. 3736	nhs-2690	AGCGCGGCGATCCGCGAAATGCTGGGCCACTTCAGCGATGCCAATCAAAAA
SEQ ID NO. 3737	nhs-2510	CGTACCGGCACGTTCATTGTGATTGACATCCTGATTGACATTATCCGTGAA
SEQ ID NO. 3738	nhs-179	AATGAAACCCGCAAGAGCCTGATTGCCGGTCATATGACCGAGATTATGCAG
SEQ ID NO. 3739	nhs-55	AGCGGCGAACGCGACCGTACCCATTCTATCATTAAAGGTATTAAGGATCGT
SEQ ID NO. 3740	nhs-2581	TTTAAACAGTTAGTTGAAGCGCTGGACAAGGTGCTGTTAGCGGTTAGCGAA
SEQ ID NO. 3741	nhs-40	AGCGAAGTGGACATCCAGGGCAGCATGGCCTACGCGAAAGCCCTGGAGAAA
SEQ ID NO. 3742	nhs-2587	AGCCTGCTGAAGCGCACCTGGGAACAGGCCGTTAAAGGCTTAAATGAGAGC
SEQ ID NO. 3743	nhs-2588	CCGGTGGATCAAGCCACCCTGACCGCCTTCCGTGATATGCGCGCGGCCCAT
SEQ ID NO. 3744	nhs-15	GCGAGCGAACGCGGTCGTCTGCTGAACCGCCTGGCGGACCTGATCGAACGT
SEQ ID NO. 3745	nhs-2502	GATCGTGAAAAGGCCCTGGAACTGGCCGTTGCGCAGATCGAAAAGAGCTAT
SEQ ID NO. 3746	nhs-2503	CCGGATCGTGAGAAGGCGCTGGAATTAGCCGTGGCGCAAATTGAGAAAAGC
SEQ ID NO. 3747	nhs-2600	GGCGAAACCAAGACGAAATATGATGCCATGAAGAAAGATAACGTGGAGAGC
SEQ ID NO. 3748	nhs-2591	AAAGCGGAATTACAAAAAGCGGCGCAAGACGCGAAAGCCGCGTACGAAGCG
SEQ ID NO. 3749	nhs-2575	CTGGAAGCGGTTATGGACGCGATTCGTACGACGGTGACCCACTGGGTGAAA
SEQ ID NO. 3750	nhs-30	GTGAAAGAAACGGTTGAAGCGATGCGTGTTGTTGAAGCGACGCTGTCTGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3751	nhs-2792	GTGAGCACCAACGTTACCACCGCGGAGCGCCTGGTGCGCGCGGCCCATAAA
SEQ ID NO. 3752	nhs-2607	GCGACCCTGGAGGCCGAATATAATTTAGAGCGTGCGCAAAAAGCCGTGAAT
SEQ ID NO. 3753	nhs-2656	GCGGCGCAGGTTAAGGATGCGCTGACGAAGATGCGTGCGGCCGCGTTAGAT
SEQ ID NO. 3754	nhs-2730	GCGAGCGATAAGTTATGGGTGACCCGTGTTATCGCGCATGAGCTGGCCCAT
SEQ ID NO. 3755	nhs-2797	GCGGAAAAATTATTCAATCAGGATGTTGACGCGGCGGTTCGTGGTATTCTG
SEQ ID NO. 3756	nhs-2759	ATTCAGGAACACATCAATCGTCTGGTTGCCATTCGTGCCCAGGCCGATATT
SEQ ID NO. 3757	nhs-2471	AAAGCGGAATCTGACGCGGCGTATGAGCGCCAGGCGCGCAAAATCCTGGAA
SEQ ID NO. 3758	nhs-2760	GGCACCGATTTAATGAACTTTCTGAAAACGGTTCGTAGCACGACCGAGAAA
SEQ ID NO. 3759	nhs-2446	AATGATGAAATGAAGGCCGTGGCGGATGCCTACAAACAGGTTCTGAAGGAT
SEQ ID NO. 3760	nhs-84	AAAGAAAGCGTTGAGGCGATGATTATTGCCGGTAAAAGCGCCAATGAGCAT
SEQ ID NO. 3761	nhs-2763	TGGGATAAAACGGGTGATATTCTGGCCGAGGCGGCGTTAGGCTTACAGCGT
SEQ ID NO. 3762	nhs-60	AGCGCGGCGCGCGAGCGTGGCGAAGGTTTCCAGCAGGCCGTGGCCGCGCAT
SEQ ID NO. 3763	nhs-152	GCGAAAGAAGCCTTAGAACAGGCGCGCCAAAATGTGGAGAAAACGGCGGAA
SEQ ID NO. 3764	nhs-8	ATGCTGGCGTACTCTGAAATGATTGCGGAGAAGGTGCGTACGGCGGCCCGT
SEQ ID NO. 3765	nhs-11	CATGAATATCACGCCGAAACCATTAAGAACGTGCGTACGGCGACGGAAAGC
SEQ ID NO. 3766	nhs-2670	CGTGAAACCGTTCGCGTGATGGCGGAAGTTTCTGCGCTGGAGGCGACGGCG
SEQ ID NO. 3767	nhs-2669	ACCACCGAATTAACGATGATTGCGAATCGCATCCGTGAATTAATGGAAGCG
SEQ ID NO. 3768	nhs-2706	CGTGGCAAAGTTGAGCGTAGCATTAAGATCGTGGATGAGTATTTAAGCGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3769	nhs-2668	GCGAAAGAAATCGCCCAGCTGGTGCAAGACTATACCCAACATAACG GCCGT
SEQ ID NO. 3770	nhs-2549	GGCCCGGATGGTGACGCGGTGGTGTCTTTAGCGAAAGAGTATTCTA AAACC
SEQ ID NO. 3771	nhs-2548	GTGGCGGCGTTAATCGCGGAACGTGAGCGCGTGACCACGAGCTTAA ATGAT
SEQ ID NO. 3772	nhs-153	CTGCATCTGGTTGACCTGGCGCGTTTCGCCGTGACCGAGCATAACAA AAAA
SEQ ID NO. 3773	nhs-2666	AGCGCGGCGCGCGAGCGTGGCGAAGGTTTCAAACAGGCCATTGAGG CGCAT
SEQ ID NO. 3774	nhs-155	CGTGAACAGGTTGTTGTGCGTCTGTTAGACATGCTGACCAAGGCGG CCAGC
SEQ ID NO. 3775	nhs-20	CAGGCGGTGGTTCAAAAAAGCCTGGCCGCCATTGCGGACGATTCTA AAAAA
SEQ ID NO. 3776	nhs-43	ATGGATGAACGCAACCGTCAGATTGCCGAGATTGGCGCCAGCTTAA TTAAA
SEQ ID NO. 3777	nhs-2538	CGTCATGTGGACTACGTGGCGGATCAAATCGTGACCAAGCTGGTTG ATGTG
SEQ ID NO. 3778	nhs-66	GCGGTGGATCAACGCCGTGCGGCGCGCACGGGCATGGCGTTCGAAA TGCTG
SEQ ID NO. 3779	nhs-2787	GCGGTGCTGGACGACTGGCTGAAACAGAAGGGTCTGAAAAACCAGG CCCTG
SEQ ID NO. 3780	nhs-2786	CAGCAGCTGGTTACGGATATTATTCACTTAGCGCGTGTTGCGCGCGA TAGC
SEQ ID NO. 3781	nhs-124	AATGCGGTGTCTTTAGTGATGCGTCGTATCCGCAAAGAAAACGTGG ACGCG
SEQ ID NO. 3782	nhs-2609	CGTGAACTGACGGAGAAAGCGTTTTCTTTAGTGAAATTAGCGTTACG TGAT
SEQ ID NO. 3783	nhs-64	AAAGATAGCTTAGGTGAAACCGCGTTCAACATGCTGCTGGACCGTA TCGTG
SEQ ID NO. 3784	nhs-146	CTGGAAAAAAAACTTCCAGGCGGCGAAGAACATGATTGAACGCGCGG GTGAA
SEQ ID NO. 3785	nhs-87	GCGAATCTGACGGCCACCTATCGTAAGTTAGAAGAAATGGCCAAAC AAGTG
SEQ ID NO. 3786	nhs-122	GATAGCGGCATCAAGCGTATTGCGGAGGCCGCGTGGCAGGTTAATG AGAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3787	nhs-2652	GCGGCGGAACGCGGTCGTGTGCTGATGCGCTTAAGCGCGCGCGTGACGGAT
SEQ ID NO. 3788	nhs-13	AAACCGCAGTTAGACAAAGTGCTGGGTTTCGTGGCGCAAGCGAAGAAAGAA
SEQ ID NO. 3789	nhs-2719	GATAAAGATCGCGCCAATCTGATTAACAACATTTTTGAGCTGGCCGGCCTG
SEQ ID NO. 3790	nhs-2566	CCGCTGGCGATCCACGCGCTGCTGGAGCGCATGAATGAACAAAAAGCCAAA
SEQ ID NO. 3791	nhs-167	CAGTGGGTGAAGGACGCGATGCAGCATTTAGACCGTCAGGCCGCGGCCCTG
SEQ ID NO. 3792	nhs-2802	GCGCGTCATCGCGAGCTGGCGGCGGGTATCGAAGCGTGGGCCACCCAACAT
SEQ ID NO. 3793	nhs-2433	AGCACCAATGAGTCTGTGAAAAATTTATTACTGGAACGCGTGAAGGAAAGC
SEQ ID NO. 3794	nhs-2698	CGTAATAATATGCAACACGTGGCGGGCATCACGGAAGCGGCCAAAGAGACC
SEQ ID NO. 3795	nhs-2563	GAAGAACATTTCAAGGTGCTGGTGAAGATGACGGCGCAGGAGCTGGCCAAT
SEQ ID NO. 3796	nhs-2808	AGCGCGGAACGCATCCGTCAGCTGAAGACGGTGCTGGGTAAAATGCAAGAA
SEQ ID NO. 3797	nhs-2711	GAAACCCTGAAGTTAGAAACCGCGAAGGCCATTCTGCACGGCTTCCAGACC
SEQ ID NO. 3798	nhs-2561	CTGAGCCTGTTAATGAAGAATGCGGATACGGCCATGTATCATGCCAAAGAA
SEQ ID NO. 3799	nhs-2700	TATGCGGATGTTGAGCTGAATAGCCGCAAGGTGGCGGCCGGCTTACATAAA
SEQ ID NO. 3800	nhs-2437	GAAACCGATGAGTACCAGCTGCTGCAAGTTAAAAAATTAATTGCCCTGAGC
SEQ ID NO. 3801	nhs-2438	GTGGTGCTGGCCGAGAAAGCGCAGCAAATCGCGAAAATCCTGGTTAAAGAA
SEQ ID NO. 3802	nhs-2674	GAAAGCCTGGTTATGGCCGGCGATCTGGTTATCAAAACCGCCAAAAAGCAT
SEQ ID NO. 3803	nhs-2785	AAAGAAGGCGTTTACGGCCTGGCGCGCACGCTGCTGCACCTGGCCCAGGAA
SEQ ID NO. 3804	nhs-2474	GTGCAGGATCGCGCCGCGCTGATTCACAAGATTGCGGACGGCATCCAGGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3805	nhs-148	GAAGCGAGCATCGCCATTAGCCAGGCCCGCCTGGATGAGAAAATCG CGCAG
SEQ ID NO. 3806	nhs-2754	AAAGAACAGAAGGCCGAACTGGTGTTAAACGCGCTGGTTGCGATCC GTTAT
SEQ ID NO. 3807	nhs-1843	CCGCTGGAAGAGAAGACCATTCGTGCCGTTGCGCGTGCCCATCACG AAACC
SEQ ID NO. 3808	nhs-2396	GCGGATATGCGTTCTCAACGTGCGCAGTTAGCCAAAGGCGTTTTTGA CCGT
SEQ ID NO. 3809	nhs-1522	ACCGATCTGCGCATCGCGTTTATTGCCGAGGTGCGTAAGGTGGCCA ATGAA
SEQ ID NO. 3810	nhs-1523	GGCAAACAGGCCTCTGAAGTGTTTGCCGTTCTGATTAACAAAGACA AAGCG
SEQ ID NO. 3811	nhs-1537	AATCAGGTGTTAAACAAAGTGAAAGCCGACAAAAGCTTAGAAGCCA ATAAT
SEQ ID NO. 3812	nhs-1541	CTGGCGCAGGTTCGCGAAGAAGTGACGGCCAAATATGCCGAATTAA AAGCG
SEQ ID NO. 3813	nhs-1554	GTGGAAGAAAAGACGGAACTGTTTAACGTTGTGGTGTCTCTGATCC GTGCG
SEQ ID NO. 3814	nhs-1560	ATGGATGAATTAAACCGTCAGATTGCCGAGATTGGCGCCAGCTTAA TTAAA
SEQ ID NO. 3815	nhs-1563	CATGAATATCACCAAACCACCATTAACAACGTGCGTCAAGCGGCCG CGGAA
SEQ ID NO. 3816	nhs-1515	GGCGAACGTATCAAGAAAATTGTGAACGACATTCTGGGTGGCAAGA ATGCG
SEQ ID NO. 3817	nhs-1568	CTGGAACCGTTCTTAGCGCAGATGAAAGCCTTAGATGATTTAATTAA GAGC
SEQ ID NO. 3818	nhs-557	ATGAAACAGACGGAGAGCCATGCGGTTAAGATTGTGGTTGAAGCCG CGCGT
SEQ ID NO. 3819	nhs-556	GATTTTATTACGTCTAAACTGCTGTCTGGTGCGGAAGACGCGTTACT GCGT
SEQ ID NO. 3820	nhs-555	ACCGATCTGCGCTTAGCGTTTACCGCCTTAATTCGTGAGGCGTTAAA TAAA
SEQ ID NO. 3821	nhs-1581	CCGAAAGTGATCAACCGTCTGGCGCACGAGGTGATTGAGGCGCAAC AGGCG
SEQ ID NO. 3822	nhs-554	TTTGAAACCAACGTTCGTGAAACCCGCCGCGTGGTGGAGGCGGCCC ATGCG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3823	nhs-552	GAAGAACTGGCCATCCAGAATGCGCGCTTAGCGATTTCTATTGCCCG TAAA
SEQ ID NO. 3824	nhs-1600	GAACAGGGCAACCGCGAAGCGCGTCAAGCCGGCCAGTTACTGAAG GAAGCG
SEQ ID NO. 3825	nhs-1575	GGCACCAAAGTTACGAAAATGGAAGATGACATCAAAAAATTACTGG GTCGT
SEQ ID NO. 3826	nhs-1601	CAGCGTGCGAAGAAGGCGATTGATTTAGCCTTTGAATCTGCGAAGA GCCTG
SEQ ID NO. 3827	nhs-1511	AAAGAAAGCCAAGTTCGTACCGCGAAGATCCTGAATGTTCTGAAGG AAACC
SEQ ID NO. 3828	nhs-1499	CCGCTGGAAGCCGTTCGTATGCAGAATTTAATCGCGCGTGAGGCGG AGGCG
SEQ ID NO. 3829	nhs-1391	GCGCGTGATATCGACACCTGGGCGAATGTTACGGCGCGTTCTATTCG CGCG
SEQ ID NO. 3830	nhs-1393	GTGGTGACCGACGTTCGTGATTTTTTAGCCGCGCGTGCCCAGGCCCT GCGT
SEQ ID NO. 3831	nhs-1409	GCGGAAAAAGCCCAAGCGATTGCGGCCGCCCGTAATACGTTTGCCC GTGAT
SEQ ID NO. 3832	nhs-643	GGCGCGACCCACGAGATTCAGCGTATGATCGGTCGTGCGATGCGCA CCGCG
SEQ ID NO. 3833	nhs-641	ACCGAAGCGTCTATCGCGAAAGCGAAGCGCCTGATTAAGCTGTACA ATGAT
SEQ ID NO. 3834	nhs-1427	GTGGAAGCGGTTCGCCATATGCGTCTGATGAACGAGGCGATTGCCC AGCTG
SEQ ID NO. 3835	nhs-1433	AAAACCGATAACTTAAAAATTGGCAAGGACTATCTGGAGGATGTTA TTAAT
SEQ ID NO. 3836	nhs-1507	GCGGTGACCGCCAAGCTGGATGAATCTTTAACCAAAGTTATTGACTT TATT
SEQ ID NO. 3837	nhs-635	GATCGTGAAAAGGCCCTGGAACTGGCCATGGCCCAGATTGACAAAA ACTTT
SEQ ID NO. 3838	nhs-1454	AATGAACTGGGTCGCATTAATAAAATCATCGCGGAAGTTGCGGAGA AATTT
SEQ ID NO. 3839	nhs-615	GTGGATGTGTTCAAGACCAAAGCGCAACCACTGATTAAGCATATCC TGACC
SEQ ID NO. 3840	nhs-1482	CTGAGCGCGGCCCAAACCCTGCGTGCCGCCTTTATTAAGGCGGAGA AAGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3841	nhs-1485	CTGGATGATTTAGAGAAAGCGCGTACGGTTCTGGAAAACCGTATCAATGCG
SEQ ID NO. 3842	nhs-611	GCGGGCGAACAAGCCATTCGTCAGATCTTAGATGAAGCCGGCAAGGTGGGC
SEQ ID NO. 3843	nhs-608	GGCCTGCAGCGCGCCAAAACCGGCACGGACAAAACCTTAGTGAAGGAAGTG
SEQ ID NO. 3844	nhs-1497	GGCACCCAGTTAGAGAAACTGATGGAAAACATGCGCAATGATATCGCGAGC
SEQ ID NO. 3845	nhs-626	GATAGCATTCGCTTACTGGCGCTGTTATCTCTGGGCGAGGTGGGTCATCAT
SEQ ID NO. 3846	nhs-1384	ATTCCGAGCATCTCTATTATGCTGCATGAGTTAATTAAATTACTGCACCAT
SEQ ID NO. 3847	nhs-1604	CTGGATGATGTTAAGGCGCTGCATTCTAAGCTGACCTCTGTGTTCGCGACC
SEQ ID NO. 3848	nhs-1624	AGCAAAGAATCTGGTGTGATTCAGGGTGACCTGATTGCCAAACACTGGCAG
SEQ ID NO. 3849	nhs-1770	ACCTATGCGCGCGCCGAAAAAGCGTTAGTTGATATTGTTCGTCACAGCCAG
SEQ ID NO. 3850	nhs-1772	ACCAATGAACGCATCGCGCAGCGTGCCTTAGAAGGCTTCACCCGCAGCCTG
SEQ ID NO. 3851	nhs-454	GCGCTGCAGAAGGAGCAGGCGAAATTATCTCTGGAATCTTGGGCGGACGTG
SEQ ID NO. 3852	nhs-1780	GTGGTGGATCGCTTCCTGGCGGATTTACAAGATGCGGTTGCGCAAGTGCGT
SEQ ID NO. 3853	nhs-1781	CGTGAAGAATTAGGTCGTCATAGCTGGGCCGTTCTGCATACGCTGGCCGCG
SEQ ID NO. 3854	nhs-1785	CTGCCGACCGCCAAGGATGAACTGACGAAGGCGCTGGACCTGTTAAATAGC
SEQ ID NO. 3855	nhs-1788	CGTCTGGAATTAAAGGCGCTGGAAGTTGCCGCGCGTACGAGCATCCTGACC
SEQ ID NO. 3856	nhs-459	GCGAGCGAACGCGGTCAGCTGATTTACAAGCTGGCGGACCTGATCGAACGT
SEQ ID NO. 3857	nhs-452	GCGAGCCATCGCGGTCGTCTGCTGAACCGCCTGGCGGACCTGATCGAACGT
SEQ ID NO. 3858	nhs-1798	GATGCGGGCGTTTTAGATGCGTATACGCACCATACCGAGCGTTTAAAAAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3859	nhs-1802	GGCGAAAGCCGCGTTATTAGCGTGGCCGAGGTGAAAGGTCTGGTTGAACAG
SEQ ID NO. 3860	nhs-438	AAAGAAGAAGCCTTAGAACTGATTAACGGTTATATTCAAAAAATCAAAAGC
SEQ ID NO. 3861	nhs-1814	GATAAAGGCCAAAAGATTGCGCAGCAAATCAAAAGCATCATTGACATTATG
SEQ ID NO. 3862	nhs-1818	TATATTGAATTAGACCGTCTGAGCACGAACCTGGCGACGCGTTTAGCGGAA
SEQ ID NO. 3863	nhs-426	CCGGAAGTGGCCGCCGAAGTGATTAAGGACCTGGTGAACACCGTTCGTAGC
SEQ ID NO. 3864	nhs-424	TGGGAAGATACGGACGCGCTGCTGCGCCAACTGGCGAACGCGGTTAAAGCG
SEQ ID NO. 3865	nhs-445	ATTGAAGCGGCCACGCATGTGGGCAAGCAAATTGTGGAGAAAATCCTGAAA
SEQ ID NO. 3866	nhs-536	GATGAAACCATCGAGCTGCTGCTGAACTCTGTGAAAGCCGCGTTCGGCAAA
SEQ ID NO. 3867	nhs-1767	CAGGCGGATCGCAAGGCGGAAAAAATCATCTTTAATGAGCTGTCTAAAGCG
SEQ ID NO. 3868	nhs-1763	ACCGAAGCGGCCGCCGAACAGGGCGCCAAGCTGCTGGCCAAATTCCGTCAG
SEQ ID NO. 3869	nhs-1627	ATTAAAGAATCTATCAAAGAACTGGTTGAGGAACTGTCTATGTTTGCCAAA
SEQ ID NO. 3870	nhs-529	AGCCGTCTGTCTGGTGCGCTGAATCGCGCCGAAGGCTTAATGGAAGAGCTG
SEQ ID NO. 3871	nhs-1645	CTGGAAAATTTAGCCGATGGCTATAAGCACATGAGCCTGGCCCTGAACCGT
SEQ ID NO. 3872	nhs-516	GCGCGTGAAATGGCCAACGCGAAAGAAATCGCCCGTACCGTTCAGATCATG
SEQ ID NO. 3873	nhs-1676	GCGGAAAAAATCGACCGTTGGGTGATTTTAAACAGCATTAAGCTGTTAGCG
SEQ ID NO. 3874	nhs-1677	GCGCATGTGAAGTCTCATGGCGCGAAGGTTCTGGCGTCTTTTTCTGAAGGC
SEQ ID NO. 3875	nhs-1680	AGCGCGGCGATCCACCGTCTGGTGGACACGAGCGAAAAGCTGTCTAAAAAA
SEQ ID NO. 3876	nhs-1765	CGTAGCGAACGCGCCGAAGCGAATTTAAAGCTGCTGTTAAATGCCTTTGAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3877	nhs-1682	ACCCGTGAAGCCGTTGCGAAACTGACGGCCGCGCGTTTAGCGGCCGATGTG
SEQ ID NO. 3878	nhs-2399	CATGAATATCACCAAACCACCATTAACAACCTGCGTGCCGCGGCCACCGAA
SEQ ID NO. 3879	nhs-1692	GATGTGAGCTTAGAGCTGCTGACCAAGGGTCGTAGCTTAGCGAACGAACTG
SEQ ID NO. 3880	nhs-1696	CAGGAAGAAGCCTTAGAACTGATTAACGGTTATATTCAAAAAATCAAAAGC
SEQ ID NO. 3881	nhs-1701	CCGGATAAAAACTACAGCAAAGCGGAGAAGCTGATTAAGGAAGCCAGCAAA
SEQ ID NO. 3882	nhs-487	GATAATGATCGCGCCTTTACCATTAAGAAGCTGGCGGAGCTGGTTAAAGAA
SEQ ID NO. 3883	nhs-475	CTGACCAAATTCGGTGAACTGCTGAACGCCAGCCATGCCAGCTTAAAAGAT
SEQ ID NO. 3884	nhs-1743	GCGAATGATAAGAACGCGTTTATTTTAAACAAAATTAAGGTGATCCATGGC
SEQ ID NO. 3885	nhs-1687	GTGGATGAAGCCATGTCTTTTGCGGAAGTTTTAAAACAGGTTAAATCTCTG
SEQ ID NO. 3886	nhs-1845	CTGGTGGAAAAGAACCTGAAAATTTTCAAGGGCATTGTTAGCGAGGTGATG
SEQ ID NO. 3887	nhs-1378	GTGAAAAGCGCCCGCATTGCGCGTAACACGCAGATTATCATTCAAGAAGAA
SEQ ID NO. 3888	nhs-1342	ATTGATGAAGCCTTAGCGTTTGCGGAGATCCTGAAACAAATTAAGAGCATG
SEQ ID NO. 3889	nhs-821	CAGACCCGTATCAAGGAACTGGTGAAGGTTGCGCAGGAGGTGGGTGCGGCG
SEQ ID NO. 3890	nhs-820	GCGCAGGTGAAGGACGCGCTGACCAAGATGCGCGCGGCGGCCCTGGACGCG
SEQ ID NO. 3891	nhs-813	GCGAAAGCGTTAAAGGCGGTGCAGGACAAGCTGAAAGCCTTTGTTGAAAGC
SEQ ID NO. 3892	nhs-1013	CGTGATCGTGCCCAAGCGGTGGAAACGTACCTGAAAAAGCTGATCGCGACC
SEQ ID NO. 3893	nhs-800	ATTCCGGAATTAACGAATCTGAAAAACGCCCTGGAAGCCAAATCTAAAGAA
SEQ ID NO. 3894	nhs-1029	CCGAAAGTGGGTCGCGAAGCGATTACGTCTATTATTGACACCTTAGAAACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3895	nhs-1030	AAAGAAAGCGGTATCATTCAGGGCGACTTAATTGCGAAGCATTGGGCCGCG
SEQ ID NO. 3896	nhs-825	GTGACCGTGAAGCGCAATAGCGCGAACGTTATTGCGCACGAAATCGCGCAT
SEQ ID NO. 3897	nhs-1041	CGTACCGAAGCCGCCAATGTGGAAAAGATCACCACCAAGCTGTTAAAAGCG
SEQ ID NO. 3898	nhs-1058	ACCGCGCGTGTTGAGACCGTGATTGGTATCGCGGATACGTTTTTAAAACGT
SEQ ID NO. 3899	nhs-1062	CGTGAAGAAGCCATCAGCAATATGGTGGTTGCCCTGAAAGAGCTGTCTATT
SEQ ID NO. 3900	nhs-783	AAAAAAATTGCCGAGGATGTGAAAACGGCCGGCGCGACGATTATCAAAAAT
SEQ ID NO. 3901	nhs-1065	ATTGCGGCGCAAAAGAATGATGATGACCGCCAGGCGCGCGCGTTAGCGGCG
SEQ ID NO. 3902	nhs-1079	GAAGATGTGCAATTAACCCTGCGTAACATGGCCCTGGAAGCCTTTAAGGCG
SEQ ID NO. 3903	nhs-1096	AGCGATAGCCGCATGGCCATGACCGGCGCGATCCGCAAAGTGTTCGTGGAA
SEQ ID NO. 3904	nhs-1097	AAAGATGCGTCTGAGATGATTAAAAAAGCCGTTGAAATGACCATCAGCAGC
SEQ ID NO. 3905	nhs-1054	AAAGGCCCGAAGGTTCGTACCTGGCTGTCTGAGAATGGCGAGGAACGCCTG
SEQ ID NO. 3906	nhs-765	CCGGATACCTTCAAGGAACTGAAACAAGGTGCGCATGCCCTGAAGCTGGCG
SEQ ID NO. 3907	nhs-974	CCGGAACTGTTAGCCCATGGCCGTCAAAAGATTCTGGACCTGTTAAATGAA
SEQ ID NO. 3908	nhs-962	CTGGAAACCGTTCGCAAAGCGACCAAGTCTGCGCTGGAGAAAGCCGTGGAA
SEQ ID NO. 3909	nhs-893	CAGAATATTCGCTTAACCAGCGAAACGCAACTGAAAAAGCTGTCTAATGAT
SEQ ID NO. 3910	nhs-856	AGCGAAACCGTTGACCGTGCGTTTTCTCAAATGAAAGCGGCCATTCGCGCG
SEQ ID NO. 3911	nhs-905	GAAAAAATTGTTAAGATGAATACCGATGCCGTTGATCAGGCCGTGACGAGC
SEQ ID NO. 3912	nhs-907	GATGCGGGCCGCGAGGCGCTGGATTTAGCCGCGGCGTCTATTCGCAGCGGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3913	nhs-911	CCGAAAATGATGGCGGACGGTATTGATAAAACGTTAGAAGTGGCCC TGACC
SEQ ID NO. 3914	nhs-914	CGTGCGGCGCGCGAGCTGCAGGCGGACGCCCTGGAACAACTGGGTT ATCAG
SEQ ID NO. 3915	nhs-915	AAAACCGTGAAGGACCTGACCAAATTATTATATGAAACGGCGTTAC TGACC
SEQ ID NO. 3916	nhs-965	GGCACCGAAGCCAACGAAGCGGCGATCAAGATTGCGCGCAAATAC GGCAAA
SEQ ID NO. 3917	nhs-916	CTGAAAGTGCAATTAATTGATAAATTAGGTGAAGTGGACTTTCGCCT GACC
SEQ ID NO. 3918	nhs-852	GAAAAACGTCAAGGTGCGCTGGAATTAATCAAAAAAGGTTATACGC AGCAG
SEQ ID NO. 3919	nhs-926	CCGGAAGCGGCCGACAAATTTAAAGAGATCAATAATGCCCATGCCA TTCTG
SEQ ID NO. 3920	nhs-930	AAAGAACTGGCCGAGAAAGCGCTGCAAGCCGTGGAAATCGCGCGC GATACC
SEQ ID NO. 3921	nhs-839	CGTAAACAGCACGTTGCGGGCCTGAAGGCCCTGCAGGACTGGGCGC AAAAT
SEQ ID NO. 3922	nhs-946	AAAGCGGCGGTTGACCGTGCGCTGCAACAAGTGACCTCTACCAAGG ATGCG
SEQ ID NO. 3923	nhs-948	AAAGCGGATGTTGACAATGCGCTGAACGCCGTGACCCGCGCGAAGG CGGCG
SEQ ID NO. 3924	nhs-837	CTGGATATTTCTTTACATGTGCTGTTAGAGACCTTTATCAAAGGTCT GCGT
SEQ ID NO. 3925	nhs-854	GAAGTGTATGGTGAGAAAATTGTGAAGGTTCAGGAATTAGCGATCA AAACC
SEQ ID NO. 3926	nhs-1347	CGTGCGGAACGCGCCGGCGAAGCGACGCGCAGCCTGATCGATAAGA TTACC
SEQ ID NO. 3927	nhs-1114	AAACATGCGGCCGAGCGTCTGCAGCAAGCCCTGGCGCAAGCGGCCG AACGT
SEQ ID NO. 3928	nhs-1121	GAACAGTATACGGAGAATCTGAAAGTTATCGTGGCGGAGAAATTAG CGGGC
SEQ ID NO. 3929	nhs-705	CGTGCGGAAGCCGAGGCGGAAGTGCAACGCAGCGTGGAGCGTTTCA AAGCG
SEQ ID NO. 3930	nhs-1252	AATGCGGATAAGCAAGTGACCAGCATCTTAAAAAAAGCCGGCGACC TGCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3931	nhs-1258	CAGGAAACCCAAAAGGGCGCGCTGAAGGAGATTCAGGCCTTTATCCGTAGC
SEQ ID NO. 3932	nhs-1260	GTGGAAACCACGCGCAAAATTATTACGAACCTGACCGAGGGCGCCAGCCGT
SEQ ID NO. 3933	nhs-701	AAAGATGGCGAGACGAAAATTCTGAAGGAGACCGTGGAGGAATTAAAAAAA
SEQ ID NO. 3934	nhs-1290	AAAGATGTGGAGAAGGTGATTCGTGCCGCCGCGATTGCCAATAAGGAAACC
SEQ ID NO. 3935	nhs-1296	GGCTGGCGTGCCGCCGAAACCAATGTTGCCAAAAGCGAGGCGGAGAAACGT
SEQ ID NO. 3936	nhs-1245	CGTCTGATTGACGCCCATAATCAGGCCGTTGATTTTGCCGTGCGCCAGGTG
SEQ ID NO. 3937	nhs-1301	GATGAAACCCGCCGCGAAATGGGCAATGCCGCCGTGCGTGCCGCGAAGGCG
SEQ ID NO. 3938	nhs-1312	GTGAATGATTTAATCAAAGAAAATGTTAAGATGGCGGTGAAGAATGTTGTG
SEQ ID NO. 3939	nhs-676	GAACAGGATTTCGCCGTGCTGACCGCCGAGATTACCTCTAAAATCGCGCGT
SEQ ID NO. 3940	nhs-1325	AATCAGGCGGTTTCTATTCTGGTGGCCAAGGTGGAAGAGATTTTCAAAGAT
SEQ ID NO. 3941	nhs-1327	ATGGGCGCGTTAACGGCGCTGATTCGCGACCAGAAAGCCCGTGTTGAAGCG
SEQ ID NO. 3942	nhs-1328	AGCCGTGCGGACGCCGCGGTGACCGACGACGCGCGTGGTCTGTTAGCGGCG
SEQ ID NO. 3943	nhs-1330	GGCGAAGAAAAGTCTCGTGCGCTGGCCGTTCTGAAAGCCGCGTTAAATAGC
SEQ ID NO. 3944	nhs-661	CTGGCGGCGCAAAAGACCCTGGTGGACGGTATTCGTAAGGAAGTTGCGGCG
SEQ ID NO. 3945	nhs-1311	CATGAATTTACGAAGCTGGTGAAAGAGTTAGAAGGCGTTATTACGAAAGCG
SEQ ID NO. 3946	nhs-1119	GTGGAAGCGGCCTTAGATAATCTGATGATCAAGGTGTATGAGATTACGAAA
SEQ ID NO. 3947	nhs-1237	GATGGCAAACGCTTAGAAAATCTGGTTCGCGGCATTTTCGCGGGTAATATT
SEQ ID NO. 3948	nhs-1231	CTGCAGGCGACGATCGCGGGCAAATTAGACAAACTGCGCGATGCCCAGCGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3949	nhs-1141	AAAAAAGATGCCGAGATTAGCGCGGGTCGCACCGCGTTACTGGCCATTCAG
SEQ ID NO. 3950	nhs-1147	GCGGATGTGTTAAAGAAAACCATTAAGAACACCCTGGACATTCACAAAAGC
SEQ ID NO. 3951	nhs-1156	CTGAATCTGAAGCAAGCGAAAGAAGAGGCCATTAAAGAGCTGGTTGATGCG
SEQ ID NO. 3952	nhs-734	GAAACCCATGCCAACAAAATTGTGCGCGCCTATGAATTAGCGTTAAAAGTG
SEQ ID NO. 3953	nhs-1180	CATGAACTGTTAGACGAAAGCGCGAAGAAGATTGTGGAGGTGGCCAAAAGC
SEQ ID NO. 3954	nhs-1183	CATATGGCGTCTAAGCGTGATAAAATCGCCGATATTCAAGAAGCCCTGGCG
SEQ ID NO. 3955	nhs-1188	GATGATCTGCAACGCGCGATTGCGTTATCTCTGGCGGAGAGCAACCGTGCG
SEQ ID NO. 3956	nhs-710	GATAGCACCGCCGCCGTGGCGGTGTTAAAGCGTGCGGTTGAATTAGATGCG
SEQ ID NO. 3957	nhs-1190	GAACAGACCGCCGACCAGATTTTTAAGTTAAGCCATTTACTGAAGCTGACC
SEQ ID NO. 3958	nhs-1192	ATTACCGTGGACCGCCTGGTGAGCAAGGCCCTGAATATGTGGGGTAAAGAA
SEQ ID NO. 3959	nhs-731	AGCATTGATTACGCCGCGGAAATTGCCAAGGATATGATTAAGAAAGCCAAT
SEQ ID NO. 3960	nhs-1200	ATTGGCGAACGCGTTGTGCGTGCGCACTTAAGCGTGTGGGACGATGTTAGC
SEQ ID NO. 3961	nhs-713	CCGAGCCTGGCCGAGCATGCGCTGAAGGCCCTGGATCGCATTATGGCCCAG
SEQ ID NO. 3962	nhs-1218	AAAGGCCGTGACATCCTGACCAAAACGATCATTCTGGCCCTGCGCGAAGTG
SEQ ID NO. 3963	nhs-1222	GCGCGTGATGTTGACAATACCATTAAGTTAGCGAAAGCCCTGTTAGAAGAA
SEQ ID NO. 3964	nhs-1229	AATGCGGCGTTAGCCAAATTTGAAACGATCCGTGCGCACGGCGCCCTGCGT
SEQ ID NO. 3965	nhs-1191	CATATTACCGTTGACCGTCTGGTGTCTAAGGCGCTGAACATGTGGGGCAAA
SEQ ID NO. 3966	nhs-1847	GAAGATATGGAAAAGCGCGCGAATGAAGTTGCCAATCTGTTAAAAACGCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3967	nhs-1688	GATGTGCAGATCCAAAAAGATAATTTAGTTAAAGATGCCATTCGCG CGAAT
SEQ ID NO. 3968	nhs-0	AAAGGCACCTTCGCCATTGCGAAAGCCATGGGTCGTGGCACGCATG AGCAT
SEQ ID NO. 3969	nhs-238	CGTGAACGTGTTTTAGAAGCGGCGCAAGGTCTGCGTCAAGCGTTAC TGGCG
SEQ ID NO. 3970	nhs-237	AAAAAAGCGGAGGCCGTGGCGACCGTTGTTGCGGCGGTTGATCAAG CGCGT
SEQ ID NO. 3971	nhs-2087	GGCGGCGGCACGGACCTGGGCAAATTCGTTCTGGCGAAGAAAGAGG AAAAT
SEQ ID NO. 3972	nhs-2262	AATGATCAGTTAAAGACCGTGGTGGGTGAGTTTACCGCCCTGTTAG ATAAA
SEQ ID NO. 3973	nhs-303	CTGGATAAAAACTACAGCAAAGCGGAGAAGCTGATTAAGGAAGCC AGCAAA
SEQ ID NO. 3974	nhs-235	CATCATGCGGTTGAGCAGATTCGTGCCAAGATTAGCACGGCGATCTT TCAG
SEQ ID NO. 3975	nhs-2265	GATCAGCGTCGCTTAGATCTGGTGCACACGGCGGCGTTAATGCTGG ACAAA
SEQ ID NO. 3976	nhs-307	GCGAAAGAAAAGTCTAAATTTGAAGACATGGCCAAAAGCGACAAA GCCCGT
SEQ ID NO. 3977	nhs-2269	AAACTGGGCGAGACGGAACAGGAAGGTATCGCGGGCCGCATGATTC GCAAT
SEQ ID NO. 3978	nhs-2073	AAAGATGAAGTTTACCAGATTCTGGAGAAGGGCGCGGCCAAACGCA CCACC
SEQ ID NO. 3979	nhs-229	ATTCCGGGCATCGTTGAAGATTATCGCCAAGCGGCGCAACGTGCCA AACGT
SEQ ID NO. 3980	nhs-2068	CCGACCCTGGTTAACGAAATTGCGAAGGAGATTGTGAACTATTTAA AAAAA
SEQ ID NO. 3981	nhs-2066	CAGCGTGCGCGCGCCGTGCTGGATCGCGCCGCGGAATTAGCGACGA TTGCG
SEQ ID NO. 3982	nhs-2278	GCGGAAGCGGAGAAGCGTATTCAGGAGGCCGCGGTGACGATTTACA AAGCG
SEQ ID NO. 3983	nhs-2050	CCGCGTGCGAAGAAGGTGCTGGAATTATCTCTGCGTGAGGCGTTAC AGCTG
SEQ ID NO. 3984	nhs-2045	TTTATTCAGCGCACGGCGCATGATCGCATCCTGCCGGCCCTGATCAG CAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 3985	nhs-2042	CATCGTCTGATCGACCAGGCGACCGCCGAGATTGTGGAGACCGCCAAACGT
SEQ ID NO. 3986	nhs-2281	TGGCCGCGTGTTCGCCGTGATATTGCCAACCTGGGCCAAGCGGCCGAAGCG
SEQ ID NO. 3987	nhs-2028	CCGCGTCTGTTAGGTGAAACCGCGGGTTTAAAACAGGTTGAAGCCGATACC
SEQ ID NO. 3988	nhs-333	GAAAAAACCTTCAACCTGGCGATGGCGTTAAAGGTGGAATCTATTTTAAAA
SEQ ID NO. 3989	nhs-2017	TATGGCGTGGCCCGCCAGCTGAAAGAGTCTCAGGATAAGAGCATCGATAAT
SEQ ID NO. 3990	nhs-2016	GAAGCGACCCGCGCCAAAATGCGTGCGGCCTCTGAACGTTTAGGCTCTCTG
SEQ ID NO. 3991	nhs-338	ACCGCGCATAAGAACGCGGTGACCTTACGCGTGAATGCCCTGAAGGAACAG
SEQ ID NO. 3992	nhs-340	CAGCTGGCGGTTGAGAAAGGCAATTTAGAGAATAAAAAGAGCATCACCGAA
SEQ ID NO. 3993	nhs-1997	TATCCGCTGTTAGTTAAAATTCTGGACTCTCTGGGCGAGCGTAAGGTGACC
SEQ ID NO. 3994	nhs-2092	CGTGGCCATCAAAAGCTGATTAATGCCACGGTGGAAAAGGCGCGCGAAGTG
SEQ ID NO. 3995	nhs-2298	ACCGCGGCGAAGAACGCGGCGCTGGAGGCCGTGGCGCGCGCGATCGAACGT
SEQ ID NO. 3996	nhs-2257	CCGGAAACCTTACGCCAGGTGACCCAACACGCGGAACACGTGGTTAATGCG
SEQ ID NO. 3997	nhs-2096	GGCGCGCATCGCGCCACCTATCTGCGCGCCATTGCGGCCAAAATCACCGAA
SEQ ID NO. 3998	nhs-2180	CGTGAAAATGTTGACCGTGTGACCGAGGCCCTGCGTGCCGCGTTACAGCAT
SEQ ID NO. 3999	nhs-265	GCGGAAGCGGCCAAGGCGGAAATTGTTGCCAGCTTTGAGCGTGCCAAAAAT
SEQ ID NO. 4000	nhs-261	ACCGAAGTGGACATCCAGGCGAGCATGGCCTACGCGAAAGCCCTGGAGAAA
SEQ ID NO. 4001	nhs-2162	CATAGCAGCAAGAACGATATTCATACGTTACTGATGGATTTAAATTCTTAT
SEQ ID NO. 4002	nhs-259	ATTAGCAGCATCACGGATGGCCTGAAGACGAAAATTGTTGCGGAGCGTCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4003	nhs-2208	AGCGATATTCGCGACATTGTGCAGTCTGCCCATATGCGTGTTGTGAAGGAA
SEQ ID NO. 4004	nhs-258	TTTCGTCAGGCCCACACCGCGAGCGGTAAGGCGGTGCACCTGGCCGAAACC
SEQ ID NO. 4005	nhs-2149	CATAGCAGCAAGAACGATATTCATACGTTACTGAAAGACCTGAACAGCTAT
SEQ ID NO. 4006	nhs-290	CTGGCGGTGGAGTTAAAACAGAGCACGGCCCAGGCGCACGAAAAGGCGGAA
SEQ ID NO. 4007	nhs-2136	GAACTGGAAGCCGAGGCGACCCATCGCGTTATTACCATCGCGAACCGTACC
SEQ ID NO. 4008	nhs-255	AGCGAAGTGGACATCCAGGCGAGCATCGCCTATGCGAAGGCGTTAGAAAAA
SEQ ID NO. 4009	nhs-254	AAAATTCTGGAGGCCAGCGTGATTATCTGGCGCGTGATTGACGATACGGCG
SEQ ID NO. 4010	nhs-2216	CGTGGCCAGCGCCAAATGGAAGTGCTGTCTGCCATTATTGACAAATCTAAA
SEQ ID NO. 4011	nhs-292	CATGAAAAATTAACGCAGGCGCGTAACCAACTGCTGGCCGAAGCCGCGAAA
SEQ ID NO. 4012	nhs-2130	CCGGAAGTGCACCGCCTGACCCATGCCTTACGTGCGGCCACCCGCATTGTG
SEQ ID NO. 4013	nhs-2127	AAAGATGCGCGCGCCCTGCAGGCGGACGCCATGGAACAGTTAGGCTACCAG
SEQ ID NO. 4014	nhs-2123	CAGCGTCATGTTGAGCGTGCGGCGCGCCGCGGTGCAAGCGTTACAGCTG
SEQ ID NO. 4015	nhs-2241	GTGGAAGATACGGTTGAAGCGCTGGGTAAGATTCGTAACGCGATCGCGCGT
SEQ ID NO. 4016	nhs-245	AATGAAGCGGCCGACCTGGTGATTAAGTCTATGGAAAAAACGATTGCCAGC
SEQ ID NO. 4017	nhs-2121	GCGACCGATCAAAAGGTGGAAAAAATGTTAATCAGCAGCATCAAAGAGAAA
SEQ ID NO. 4018	nhs-2119	GCGGATGATACGTTAGCGCTGGCGCGCGCCCGTGGCGAGGCGATGTCTGCG
SEQ ID NO. 4019	nhs-2245	CGTGAAGTGTCTTTAACCAGCGGCCGCTTAGTGCTGCAAGGCTTACGTGAT
SEQ ID NO. 4020	nhs-2256	CCGGATGTGCGCGAGATGAATGGCGTGTTAAAGGGCATGCTGTCTGAATGG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4021	nhs-2113	GTGGAAGAAGCCGTTCGTATTGTGAAGGAGGTGATTCAAAAATTAG CGAAT
SEQ ID NO. 4022	nhs-2103	CTGATTAAACAAGCCGAAGCGAAAAAGGAGCTGGAAGTTTTTTTTAG ATACC
SEQ ID NO. 4023	nhs-2095	GTGAATCTGATCCGCGAACGTGGCCAATTCATTGGCGAGGAAGTTA AAGCG
SEQ ID NO. 4024	nhs-1983	CTGGATGAATCTTTAAAAATTGTGAAGGAGTATCTGATCGCGGCCA CCGCG
SEQ ID NO. 4025	nhs-2031	GCGAAAGTGTTAGCCCATGGCGAAAAGGTTCTGACCTCTTTTGGTGA AGGC
SEQ ID NO. 4026	nhs-2345	CGTTATGAACGCCAAAAAATTCTGTTAGCCACCGCGGAGGCGTTAG CGGCG
SEQ ID NO. 4027	nhs-382	CCGACCATTTCTTTAAAAACCGTGAAGTTAATGAAAGAAGGTCTGG AGGCG
SEQ ID NO. 4028	nhs-1961	ACCAAAGAAAAGATCGCGATTACCGAGAACGCGCTGGCCGTGGCCC ATCAG
SEQ ID NO. 4029	nhs-208	GGCGTGCCGGCCTCTAAAACCATTGCCGAGCGTGATTTAAAAGCCA TGGAT
SEQ ID NO. 4030	nhs-1954	ACCTATCTGAAGCACGATAGCGTGTTAAAGACCATTCGCGGCTTAGT GGAA
SEQ ID NO. 4031	nhs-400	GCGGAAGTGGCCGAGACCAAAGTGGCCATGGTTAATAAATACGCGC GCGAA
SEQ ID NO. 4032	nhs-2362	GATGCGCTGGTTCGCGATGCGCAGCAAGCCGCGGCGCGCATTGCCG ATAGC
SEQ ID NO. 4033	nhs-2342	GATACCATGGCGGACTCTTATGGCAAAGTTATGGGTCGTGATGGTC GTGCG
SEQ ID NO. 4034	nhs-2381	CCGGGCCTGGTTAAGGAAACCAAACGCGCCCTGAATCGCGCGTTAG AAACC
SEQ ID NO. 4035	nhs-1931	TATCTGAAAGAGGCCCTGCGTCTGGCCCAAGAAGCGTTAAATCGCC TGGGC
SEQ ID NO. 4036	nhs-2350	CATAGCGTGTGGCAACGCATGGGCGATGAATTATTAGCGAAAGCCG CGGAA
SEQ ID NO. 4037	nhs-2301	GCGGATGAAATCAAGAATGTGTGGAAAGAGGAGGTGAGCCGCCTG GTTGGC
SEQ ID NO. 4038	nhs-2343	GAAGCGGCGGTTACGCGTAGCGCGGAGCGCATTGTGGGTCAGATGG AGAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4039	nhs-1953	GAAGCGCAGCGCACGGCGCTGTATACGAAGGCGGAACAACAGTTAGATAAA
SEQ ID NO. 4040	nhs-1947	CTGGAAGATCGCGCCGCGACCCTGTCTAAGATTATTCAAGTGGCCGTGGAA
SEQ ID NO. 4041	nhs-196	GAAACCGGCATCAAGGAAGCGAAATTAGGTGGCGAACGCCTGAAGAGCCGT
SEQ ID NO. 4042	nhs-1966	CAGCAGCAGTTAGACCGTGCGATTGAGGCCTTTGGCCAAGTGGGTAAAAAA
SEQ ID NO. 4043	nhs-2344	CCGGCGGCGGCCGACGCGACCATTGCCGAGGCGGTGAAGAGCGCCCGTAAA
SEQ ID NO. 4044	nhs-374	GAAGAAAATTTAAAGCAGGCGCGTGCCGCCCTGGAACGCCTGTACACCGCG
SEQ ID NO. 4045	nhs-2326	CCGGAAGTGACGGTTGAAGCGATTAAGCGCCTGAGCGACCTGTTCGCGCGT
SEQ ID NO. 4046	nhs-386	AGCCATGATGCCCGCAAAGAACATAAGCAATTTGTGGCCGAATTAAAAGCG
SEQ ID NO. 4047	nhs-1858	GCGGCGCAGCGCGCCCGTGTGGAAACGGAGGCGCTGAAGTATTTACGTGCG
SEQ ID NO. 4048	nhs-1979	CCGCTGACCGTTAAGAAACATCTGCGCGCCCAGGCGATCGCGTTAGAAAAT
SEQ ID NO. 4049	nhs-200	ACCGATGCGGTTAAGAAAATTGCGGAGGCCGCGTTTCGCGTGAACGAAAAA
SEQ ID NO. 4050	nhs-2318	CTGGAAAATTCTAAGCTGAATCAGAAGGTTATTGATGCCATTTACCGTGCG
SEQ ID NO. 4051	nhs-1923	CTGACCGAATTAAACAGCCTGATTTCTCGCCTGGCGGACGATACGAAAACC
SEQ ID NO. 4052	nhs-209	ATTAATGATGGTTTACGTATTGCGCGCAAGCTGCTGTTAGATATCAATGAT
SEQ ID NO. 4053	nhs-213	AATGAAGCGTCTAAGGCGCTGACCTCTGCCCGTTTTGTTCTGTCTGATAAA
SEQ ID NO. 4054	nhs-388	GCGGTGAGCGAGCGCGGCGCGGCGGAGGCCCTGACCGCCATTCGCCGTGGC
SEQ ID NO. 4055	nhs-2352	CGTACCGGCGTTTTCATTGCGCTGGACCACCTGACCCAACATATCAATGAT
SEQ ID NO. 4056	nhs-191	CTGCATGAAAAGTTATTTCTGCTGGCCATCGTGCGTTCTCTGAAGATTAGC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4057	nhs-2384	AAAGATACCTCTAAGAAAGTGCAGATGGCCCGCCTGGCGTGGGAGGCGAGC
SEQ ID NO. 4058	nhs-1975	GGCCTGCAGAAGGAGCAGGCGAAATTATCTCTGGAATCTTGGGCGGACGTG
SEQ ID NO. 4059	nhs-2325	CTGACCAAAAACTTAAAAGTGGTGAAGGAGCTGATTTCTGAAGCCATTCAG
SEQ ID NO. 4060	nhs-1971	GATGCGACCACGGCCGCGCGTGCGGCCCGCCTGGCGGCCGTGGCCGAAGAT
SEQ ID NO. 4061	nhs-1977	GAAGCGCATGCCGAGAAAGTGCATTCTTACGTGACCGCCGGCATCACCAGC
SEQ ID NO. 4062	nhs-2224	CAGCTGGTGGCCCGCCTGGAAGGCGAGGTTATGCTGAGCGCCCTGGCCCGTAAA
SEQ ID NO. 4063	nhs-2237	ACCGCGCGTGTTGAGGAAGCGCAGCAAGCCGCGGTGCGCATTGCCGATACCCTG
SEQ ID NO. 4064	nhs-1224	CCGCGTAGCGTTGGTAAAGCGAGCGAGCAACTGGCGGGTAAAGTTGCGGAAGTG
SEQ ID NO. 4065	nhs-1219	GAAGCGGATATCCACGAAGGCATGCAGCGCTTCGCGCAGGCCGTGGGTAAAGTG
SEQ ID NO. 4066	nhs-910	CCGAAACTGGTTCGCGCGGCGGTGGAGGCCCATAGCAAGGCGTTAGATAGCGCG
SEQ ID NO. 4067	nhs-2371	CTGGAAACCGTTCGCAAAGCGACCAAGTCTGCGCTGGAGAAAGCCGTGGAACTG
SEQ ID NO. 4068	nhs-2378	AGCCTGGAAACGGTTCGTAAAGCGACGAAGAGCGCGTTAGAAAAGGCGGTGGAA
SEQ ID NO. 4069	nhs-2804	GAACGTTTTAACGCCGCGCTGCATGAGTCTGCGCATACGGTGATCGCGCAGGTG
SEQ ID NO. 4070	nhs-257	AGCGAAGTGGACATCCAGGGCAGCATGGCCTACGCGAAAGCCCTGGAGAAAGCG
SEQ ID NO. 4071	nhs-2721	CGTGCGGCGGCCGCCGAAATTGCGGTTAAGACCGTGTCTGAATTCATTACCCGT
SEQ ID NO. 4072	nhs-178	ATTGCGGCGGGTCAAAATGAACTGTTAAAGCGTGCGAAGGCGAACGGCGATGCG
SEQ ID NO. 4073	nhs-702	GATGCGGGCCGCAAGAATTTTGCGAAGACGGCGGTGAAGCTGTTACAGGATCTG
SEQ ID NO. 4074	nhs-895	GAAATGGCGTTCAAGATTGCGGGCTCTATGGCCATTAAAGAGGCGGTTCAGAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4075	nhs-2390	GCGCGTGAATTAGCCGAACTGGGCATGAAGATCACCGCGGCCGCGAACGAACAG
SEQ ID NO. 4076	nhs-887	GAAAAAACCATGTTAGTTCTGGCGCTGTTATTAGCGAAAAAGGTGGCCAGCCAT
SEQ ID NO. 4077	nhs-880	GCGGATGCGCAAAAGCGTGAAGTGGCCGCCTTTCTGGCCCAGACGAGCCATGAA
SEQ ID NO. 4078	nhs-698	ATTGCGCATAACTTAGCGCAGGTGCGCGACAAAATTTCTGCGGCCGCGACCCGT
SEQ ID NO. 4079	nhs-2464	GGCGATCCGATCGAGATTAATGGCTTAAAGGCGGCGTTCAAAGAGCTGAGCAAT
SEQ ID NO. 4080	nhs-1201	CTGCCGGGCCGCATCGTGCAGGATCAAAAGAATGCGCGCGCGCACGCGGTGACC
SEQ ID NO. 4081	nhs-219	GAATTTGATTTATTAGGCCAGGCGGCCGCCAGCAAATTAGCGCGCGATCTGACC
SEQ ID NO. 4082	nhs-850	ACCGATGAAGGTTTAAAAGAAGCGACGAAGCTGACCCAAAGCGTTAAAAAACTG
SEQ ID NO. 4083	nhs-1044	GATGCGGAATTAGCCCAGAGCATTTCTATGACGCGTGCGGAGGCGAAGGCGGCG
SEQ ID NO. 4084	nhs-1060	GGCAGCGCGTTCGAGAGCGCGATGGTGAACCACGTGACCAAGGTGGCCGATCAT
SEQ ID NO. 4085	nhs-2313	GCGAAAGTGAAGGCCCATGGCAAAAAGGTTATTGATTCTTTTTCTGAAGGCCTG
SEQ ID NO. 4086	nhs-215	AGCAAAGAATCTGGTATTATTCAGGGTGACCTGATTGCCAAACACTGGGCGGCG
SEQ ID NO. 4087	nhs-2285	GCGGAACAGGCCCAACAGGTGCATGCCTTCCTGCGTGGTCGTTTAGCGGCGAAA
SEQ ID NO. 4088	nhs-1016	GCGGATCTGAAGGGTCAGCTGGCGCAACGCATTGTGGACGATGTTAGCGTGGCG
SEQ ID NO. 4089	nhs-994	AGCGAAAGCTTAGTTAAAACCCTGATCTCTGAATTTGCCGCGGTTGCGGAAAAA
SEQ ID NO. 4090	nhs-41	TTTCGTCAGGCCCACACCGCGAGCGGTAAGGCGGTGCACCTGGCCGAAACCAAA
SEQ ID NO. 4091	nhs-2283	ATTCAGAGCAAGGTTGCGCTGAAAACGTTCGCGGCGGCCGATCAACGTGAAGCG
SEQ ID NO. 4092	nhs-2275	GATAATGTGATGACGGCCGAAATGCGTAAAATCGCCATGGCGGCGGTTCTGGAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4093	nhs-1099	ATTAGCTATATCATCCGTAAAGCGGACTCTGTGAATAAGGCGTTAGATAGCGCG
SEQ ID NO. 4094	nhs-161	GTGAGCAAAATGTTAGCCAGCTTTGAAAAGATCATTACCGAGACCGTTGCGAAA
SEQ ID NO. 4095	nhs-970	GCGGCGGAAGTTAACACCCGTGTGGCCAAGGTGGTGCAAGATGCCGCGAATAAA
SEQ ID NO. 4096	nhs-2334	AATAAAGAACAAGCCAAAGCGCGTGAGGCCATTGGCAACGGCTTAACCATGCTG
SEQ ID NO. 4097	nhs-757	CCGATGATTGCCAAGCATGGCACCACGATCCTGCATGGTCTGGACCGTGCGGTG
SEQ ID NO. 4098	nhs-755	GAAAAAATTTTAAACGATGTGAGCCAAGCCAAAGCGCAACATTTAAAAGCGGCG
SEQ ID NO. 4099	nhs-959	GTGGTGGCGGAGGTTAAAGCGTTTTTAGAGGCGCAGGCCCGTCGCGCGCTGAGC
SEQ ID NO. 4100	nhs-956	CCGATTGCGATCGCCGAAGTGCGTGAGGCCCTGACCCGCACCTTAGCGACCGAA
SEQ ID NO. 4101	nhs-749	GCGGGCGCGGCCACGGAAGAATTTATCAAGCGTGCGGAGGTGAACGGCCTGGCG
SEQ ID NO. 4102	nhs-742	GCGAAAGATGCCGGTCTGTTTATTGGTTCTATTGTGCAAGAAATCGCGGAACGT
SEQ ID NO. 4103	nhs-1179	TATGATATTGCCATGGAGATTGTGAATGGTGTTGATCGTGTTATTAAGGCGAGC
SEQ ID NO. 4104	nhs-2742	GATGCGGCGACGATCAAAGCGCTGTTATCTCATGCGCACGAAGCCCAGCGTAGC
SEQ ID NO. 4105	nhs-841	AAAAATGAACAATTAGCGATTGCGCACGGTATTCAGAAGATTATCGCGGAAAAT
SEQ ID NO. 4106	nhs-244	CTGGCGGCGCAAAAGACCCTGGTGGACGGTATTCGTAAGGAAGTTGCGGCGGAA
SEQ ID NO. 4107	nhs-846	AAAGCGGCGTTCTTAAAAGCGACCGACGAGCTGATTGCCGCGGTTACCGCGCAT
SEQ ID NO. 4108	nhs-2240	GCGGAAGCGCGCGGTAATCGTATGGCGGACCAAGCGGCGCGCGAAGCCGCGATG
SEQ ID NO. 4109	nhs-2189	GGCGCGCAGGCCTTAAAAGCGGTGTTAGAGCATGGCCCAACCTTACGTCAGCGT
SEQ ID NO. 4110	nhs-2692	AAAGTGGGCAACATCATTGATACCATGATCACGGATGCGTTCCTGAAGGCGGAT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4111	nhs-1300	GGCGGCGCGAAGGCCAGCGATGATGCCCGCACCCTGGCCGAAGTTTTTACCAAA
SEQ ID NO. 4112	nhs-513	CGTGCGAAAGCCTCTTTTGATACCCGCGTTGCGGCGGCCGAATTAGCGCTGGCG
SEQ ID NO. 4113	nhs-1978	ACCGATCAGTTATTAGAACATGCGAAGGAGAGCCTGACGCATGCCAAAGCGGCG
SEQ ID NO. 4114	nhs-1647	CGTGCGGAAGTTGACCTGGTGGTGCAAGACCTGAAACAAGCGGTTGCGCAGCTG
SEQ ID NO. 4115	nhs-2622	GGCGCGGATTTAGAGAATCTGCTGAACGAGGCGGCGTTACTGGCCGCGCGTAAA
SEQ ID NO. 4116	nhs-2529	GCGGATGTGCGCAAGAATGCGAATGAGGCCGTGCTGGGTATTATGATCCATCTG
SEQ ID NO. 4117	nhs-1981	ATTGCGGCGGCCATCGAAACCACCCGCACGGTGCTGGCCGCGGCCCGTGAACGT
SEQ ID NO. 4118	nhs-1996	GTGGAAGCGGACGTTACCATTGGCCCATACCTGAAAGCCCAGGCCGATAAACAG
SEQ ID NO. 4119	nhs-2534	ACCAAACAGATCTTAGATGCGAAAGGTCCAGAAGGCGTTGTGGACTGGGTGAAA
SEQ ID NO. 4120	nhs-2188	GGCGCGCAGGCCTTAAAAGCGGTGTTAGAGCATGGCCCAACCTTAAATGAACGT
SEQ ID NO. 4121	nhs-327	CGTCCGGAAGCCGAGGCGGTGAGCATGTTAGTTAAAGAAGCCGTGGTTACCTTT
SEQ ID NO. 4122	nhs-319	ATTGCGGATAAGGCCGAACAGGTGATCCAAAATATTAAGAATGTTCTGGAAGCG
SEQ ID NO. 4123	nhs-2064	CCGATGGTGCGCGCCCATGGCAAAAAGGTTCTGACCTCTTTTGGTGATGCGGTG
SEQ ID NO. 4124	nhs-2069	AGCAATAAAGAGGCCCTGGCGAAAGGTATGTTACTGCTGTTCGCGCACCATCTG
SEQ ID NO. 4125	nhs-591	CCGCTGGAAGCCGTTCGTATGCAGAATTTAATCGCGCGTGAGGCGGAGGCGGCG
SEQ ID NO. 4126	nhs-2075	GCGACCGGCGACTTAGCGCTGAAAAAGTTAGAAAATGCCATTAAGAAAGTGCAG
SEQ ID NO. 4127	nhs-1494	GTGGAAACCCGCAAGGTGATGGCGGATTTAGTTGTGGGCAACCTGGAGGCGCAT
SEQ ID NO. 4128	nhs-70	GCGCAGACCCGCGACGGCATTATTGCCGGTTTTAAAAAGGCGTTAGATGAAACC

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4129	nhs-1968	AAAGATCTGGCCTCTGCGCTGGAATTATTAACCGGCTTACGTAAGA AAATTGCG
SEQ ID NO. 4130	nhs-1960	CGTGCGCAGGCCCAAAAACTGGCGGGTACGGCGCATGACGGCTTAG CGCGTGCG
SEQ ID NO. 4131	nhs-481	CCGACCCTGGTTAAGCGTCAGGCGACGACGATTGCGAAGGAATTAG CGGAACTG
SEQ ID NO. 4132	nhs-1846	GTGGAAAAAAACTTAAAAATTTTTAAGGGTATTGTGTCTGAAGTTAT GGCGAGC
SEQ ID NO. 4133	nhs-423	GAAAATGCGGCCAACACCGTGGCGCACGCCCGTAAAGCCATTCACA AAATTCTG
SEQ ID NO. 4134	nhs-407	GAAGATCTGAAGAAGGTGGGCAATCGCGTTCTGACCGCCCTGGGTG GCATTCTG
SEQ ID NO. 4135	nhs-405	GAAGATCTGAAGAAGCATGGCGTGACGTTCCTGACCGCCCTGGGTG CGATTCTG
SEQ ID NO. 4136	nhs-404	GAAGATCTGAAGAAGCATGGCGTGACGGCCCTGACCGCCCTGGGTG CGATTCTG
SEQ ID NO. 4137	nhs-102	GTGCAGGATATCAAGAATAATCTGAAGGAGGCGATTGAGACCATCG TGGCGGCG
SEQ ID NO. 4138	nhs-1803	GGCGAAAGCCGCGTTATTAGCGTGGCCGAGGTGAAAGGTCTGGTTG AACAGTGG
SEQ ID NO. 4139	nhs-395	GCGGCGCAGGTTAAGGATGCGCTGACGAAGATGCGTGCGGCCGCGT TAGATGCG
SEQ ID NO. 4140	nhs-1905	GAAGATCTGAAGAAGCATGGCGCGACGGTTCTGACCGCCCTGGGTG GCATTCTG
SEQ ID NO. 4141	nhs-1917	CAGGTGAAAGGTCACGGCAAAAAAGTTGCCGATGCGTTAACCAACG CGGTGGCG
SEQ ID NO. 4142	nhs-1779	GTGGTGGATCGCTTCCTGGCGGATTTACAAGATGCGGTTGCGCAAGT GCGTGCG
SEQ ID NO. 4143	nhs-455	GAAGATCTGAAGAAGGATGGCGTGACGTCTCTGACCGCCCTGGGTG CGATTCTG
SEQ ID NO. 4144	nhs-460	GCGGATGAACAACGCAGCGTGCGTGCCTTAGTGACCGCCACCACGG CGGTGGAT
SEQ ID NO. 4145	nhs-373	GAAGAAGTGAAGAAGCATGGCACCACGGTTCTGACCGCCCTGGGTC GTATTCTG
SEQ ID NO. 4146	nhs-480	GTGGATGAAGGTGTTGATCTGGTGATCCGCGCGATTTCTGCGGCCAA ACAGCGT

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4147	nhs-1725	GCGGAAAGCATCGCCAAAGCGCAGAAGTCTCGTGAAATCTTTGAGGGCATTGCG
SEQ ID NO. 4148	nhs-90	GAAGATCTGAAGAAGCATGGCGTGACGGTTCTGACCGCCCTGGGTGCGATTCTG
SEQ ID NO. 4149	nhs-1493	CGTGATGCGTTAATCGAAAATTATAAGACGAGCATTCGCAATGTTGGCGCGGCG
SEQ ID NO. 4150	nhs-1491	ACCGAAGAATTAGCCGTGGATGCGTTATACAATGCGATCAAAGTTCGTCTGGCG
SEQ ID NO. 4151	nhs-2010	CCGGGCACCGGTGAGATTGTGGCGGAGGCCGTGGATGCCGCGATCCGTAAAACC
SEQ ID NO. 4152	nhs-1407	CCGGAAACCGCCGCCGATAAACTGTTAGCCGCGATTAACGAACGCCGTGCGGGC
SEQ ID NO. 4153	nhs-655	CTGGGCGCGTCTGGTGCGCGTATTTTAACGACCCTGGTTCATGAGATGCGTCGT
SEQ ID NO. 4154	nhs-647	GAAGATCTGAAGAAGCATGGCGTGACGGTTCTGACCGGTCTGGGTGCGATTCTG
SEQ ID NO. 4155	nhs-2686	TATGAAGGCGAGTTAAATAAAGTGACGTCTAATGTGGCCATTGGTCGTAGCCAT
SEQ ID NO. 4156	nhs-301	GGCGCGACCTTAACGGGCACCGTGCAAGACATTATTCGCGAATTAGCGCGTCAT
SEQ ID NO. 4157	nhs-660	CGTGCGAAAGCCTCTTTTGATACCCGCGTTGCGGCGGCCGAATTAGCGCTGAAT
SEQ ID NO. 4158	nhs-669	GGCCCGGAAGTTATGGACGCGGCGATTCGCGTTCTGAAAACGGTGTTAGATAAT
SEQ ID NO. 4159	nhs-2146	CGTAGCGAAGCCGACGATCTGGCGACGCGCGTGGCGAACGCGGTTCGTGATGCG
SEQ ID NO. 4160	nhs-2481	GGCGCGACCCAAAACCTGCCGAAATTAGCCGAATTTATCCGTATCGCGAAAGAA
SEQ ID NO. 4161	nhs-1404	GTGGATGGCGCCGTTCGTATGGGCCAGCGCACGGCGGCGGACATTATCGCGCGT
SEQ ID NO. 4162	nhs-2161	CATGCGCAGATCACGGAAACCGCGGGTGCCGTGAAACGCGCGATGCGCGATGCG
SEQ ID NO. 4163	nhs-1405	GCGAAAGAATTAGTTGATCGTAGCGTTTCTCTGAGCAAGGCGGTTAAAGCGATT
SEQ ID NO. 4164	nhs-417	GAAGATCTGAAGAAGCATGGCAATACGGTTCTGACCGCCCTGGGTGGCATTCTG

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4165	nhs-1324	CCGGAAGCGTTATTAAAACGTGCGGACGAGGGCGTGTACCAGGCCAAAGCGAGC
SEQ ID NO. 4166	nhs-2122	GAAGTGTATCAAATCCTGGAAAAAGGTGCCGCGAAACGCACCACGGCGGCGACC
SEQ ID NO. 4167	nhs-50	CTGGATGAAGTTAACAAAAAAGCGTTCCAAGGCACCTTACTGGCCCATGTGGAT
SEQ ID NO. 4168	nhs-1320	GGCGATAAAAAGGCCGCGCTGGTGTCTTACATTGGCGAGACCCGCCAGCAGCTG
SEQ ID NO. 4169	nhs-47	GAAGATCTGAAGAAGCATGGCACCGTTGTTCTGACCGCCCTGGGTGGCATTCTG
SEQ ID NO. 4170	nhs-2673	AAAGAAAGCTTAGTTATGGCGGGCGATTTAGTTATTAAAACGGCGAAGAAACAT
SEQ ID NO. 4171	nhs-1483	AATACCTATGTTAAGGGCGCGAATGCCGCCCTGGAAAAGATTGAGAAACATCTG
SEQ ID NO. 4172	nhs-2175	GAAAGCGAAAAGGTTAATGAAATTGTTAAGGCGGTGAAGACCGCCCTGACCGGC
SEQ ID NO. 4173	nhs-2187	GGCGCGCAGGCCTTACATACCGTGTTAGACCTGGAACCAGCGTTAGGCAAACGT
SEQ ID NO. 4174	nhs-1305	GATGAAGATAAGGCCGTGGATCTGATCGTTTTTAAAAAGGCGGTTCTGAGCACC
SEQ ID NO. 4175	nhs-2675	GTGGGCGCGACGGGTGGCCGTATGCTGGCCACGCTGGCGCGCGAATTACATCGT
SEQ ID NO. 4176	nhs-620	AGCGAAGTGGACATCCAGGCGAGCATCGCCTATGCGAAGGCGTTAGAAAAAGCG
SEQ ID NO. 4177	nhs-1476	ACCGATACCGCCATCCTGCTGAAAGACGCCCTGGCGGCCGCGCACGCGCGTTAT
SEQ ID NO. 4178	nhs-1471	CGTGATCTGTTAGAGACCGCGGGCAAGTTAATGGCGAAAGAGAGCATCGCGAAA
SEQ ID NO. 4179	nhs-401	GAAGATCTGAAGAAGCAGGGCGTGACGGTTCTGACCGCCCTGGGTGCGATTTTAAAA
SEQ ID NO. 4180	nhs-377	GCGGCGCAGGTTAAGGATGCGCTGACGAAGATGCGTGCGGCCGCGTTAGATGCGCAG
SEQ ID NO. 4181	nhs-876	ACCAAAGCGGGTGTTCTGGCGGATGCCTTAGATAAAGCCACCGAGAAACTGTTAAAT
SEQ ID NO. 4182	nhs-384	GAAGATCTGAAGAAGGATGGCGTGACGGCCCTGACCGCCCTGGGTGCGATTTTAAAA

SEQ ID NO.	ID	NUCLEIC ACID SEQUENCE
SEQ ID NO. 4183	nhs-1907	GAAGATCTGAAGGAGCATGGCACCGTTGTTCTGACCGCCCTGGGTG GCATTTTAAAA
SEQ ID NO. 4184	nhs-408	GAAGATCTGAAGAAGGTGGGCAATACGACGCTGACCGCCCTGGGTG GCATTTTAAAA
SEQ ID NO. 4185	nhs-446	GATGCGGAATTAAACAGCCTGGCGAAGGGTGCGGTGAAGGAATTAG CGAGCTTATAT
SEQ ID NO. 4186	nhs-1900	AATAGCGCGATCGGTTATGAAGAAGCCGCCAAAGTGGCCAAACAAG CGCTGGCCGAA
SEQ ID NO. 4187	nhs-1897	ACCGGCCCGGCCATCGATCATGCGGCCGACCTGCTGTTAAGCCACG CGCGTAACGTG
SEQ ID NO. 4188	nhs-898	GCGGAAGAATTAGACAAAGTGGCGCGCTTAGCGGCGAAGGCGTTAG CGAGCGTTAGC
SEQ ID NO. 4189	nhs-38	GGCGAACTGGCCAAGCATGCGGTGTCTGAGGGCACCAAGGCGGTTA CCAAATACACC
SEQ ID NO. 4190	nhs-2360	GATGCGGATTTAGCCGCGGCGGTGGAGTCTGCGAAAGCCGCGCAAC CGAAATGGGCG
SEQ ID NO. 4191	nhs-2661	GAAAAAGCGAAGGTTCTGGCGAAAGCCTTAGATACCGCCACCGGTA AACTGTTAGAA
SEQ ID NO. 4192	nhs-295	GATGCGGAACAAGCCCAGGAACTGGCCCGCATTGCGAAGGCGGCCA CCTTTGCCGCG
SEQ ID NO. 4193	nhs-1737	ATTGATAGCACGATCAAAAGCGGCTTAACGGCGGCGCGCGATGTTA ATCGTGCCAGC
SEQ ID NO. 4194	nhs-306	GAAGATCTGAAGAAGCATGGCGTGACGGTTCTGACCGGTCTGGGTG CGATTTTAAAA
SEQ ID NO. 4195	nhs-2088	GGCGGCGGCACGGACCTGGGCAAATTCGTTCTGGCGAAGAAAGAGG AAAATGCCAAA
SEQ ID NO. 4196	nhs-68	CCGAGCGTGGGTTCTCTGGCGGAAAAGGTTGATGCGGAGCGTATCG CGATTGCCAAA
SEQ ID NO. 4197	nhs-1181	GAAGATCTGAAGAAGCTGGGCGTGACGGTTCTGACCGCCCTGGGTG CGATTTTAAAA
SEQ ID NO. 4198	nhs-775	GCGCAGGTGAAGGGTCATGGCAAAAAGGTTGCGGATGCCCTGACGA ATGCGGTTGCG
SEQ ID NO. 4199	nhs-627	AAACTGCTGTCTGCCGCGAAAATTTTAGCCGATGCGACGGCGAAGA TGGTGGAAGCG

Table 2: Table providing exemplary list of binder and barcode amino acid sequences

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4200	dc-001	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAADPLDEWDAYLFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCEAWESDTRIF GQGTKVEIK
SEQ ID NO. 4201	dc-002	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAGSTYDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQS PATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRA TGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDNNVVFGQGTKVE IK
SEQ ID NO. 4202	dc-003	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAGSTYDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQS PATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRA TGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSGVVFGQGTK VEIK
SEQ ID NO. 4203	dc-004	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAHGGTNSRGWKALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTT PTVVFGQGTKVEIK
SEQ ID NO. 4204	dc-005	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAGAGSSAASGFATWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGAASGVFG QGTKVEIK
SEQ ID NO. 4205	dc-006	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDEVWIAAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGHVVFG QGTKVEIK
SEQ ID NO. 4206	dc-007	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDRGGDVVTAGRGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWP PITFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4207	dc-008	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGRWDFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDKPYVFG QGTKVEIK
SEQ ID NO. 4208	dc-009	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILAYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHW VFGQGTKVEIK
SEQ ID NO. 4209	dc-010	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILAYGSASDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHW VFGQGTKVEIK
SEQ ID NO. 4210	dc-011	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILTYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDGGSDHWV FGQGTKVEIK
SEQ ID NO. 4211	dc-012	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILTYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDNGSDHWV FGQGTKVEIK
SEQ ID NO. 4212	dc-013	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILTYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSISDHWVF GQGTKVEIK
SEQ ID NO. 4213	dc-014	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILTYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHWV FGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4214	dc-015	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILTYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDTNTDHWL FGQGTKVEIK
SEQ ID NO. 4215	dc-016	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNRYSYGDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDLSGWVFGQ GTKVEIK
SEQ ID NO. 4216	dc-017	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CANGRSSAYFNHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPYTFGQGT KVEIK
SEQ ID NO. 4217	dc-018	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAPNSNSPSYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCHMWNASRNHWVFGQ GTKVEIK
SEQ ID NO. 4218	dc-019	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAPNSNSPSYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCHVWDSSGDHWVFGQG TKVEIK
SEQ ID NO. 4219	dc-020	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARANVYQQTWAFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGERWPLA FGQGTKVEIK
SEQ ID NO. 4220	dc-021	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARARGANTWDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEYSFPVTFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4221	dc-022	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDFHRAYGMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPPTFGQ GTKVEIK
SEQ ID NO. 4222	dc-023	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGSRDYGAGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGNTHLVF GQGTKVEIK
SEQ ID NO. 4223	dc-024	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPRGDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYHTTPPTFGQGT KVEIK
SEQ ID NO. 4224	dc-025	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYSGYGLRYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDHNSVVFGQ GTKVEIK
SEQ ID NO. 4225	dc-026	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRTSRAALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGDTHLVFG QGTKVEIK
SEQ ID NO. 4226	dc-027	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDTGFGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTWGFGQG TKVEIK
SEQ ID NO. 4227	dc-028	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDTSSGAMDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSFGGNDNLIFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4228	dc-029	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDVQYRFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGQNKQFPWTFGQGT KVEIK
SEQ ID NO. 4229	dc-030	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDWWGAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQFNSLGWIFGQGT KVEIK
SEQ ID NO. 4230	dc-031	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQ EGSSPITFGQGTKVEIK
SEQ ID NO. 4231	dc-032	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQ YDTTPPLTFGQGTKVEIK
SEQ ID NO. 4232	dc-033	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQ YGSSPITFGQGTKVEIK
SEQ ID NO. 4233	dc-034	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQS YDFGLGIMVFGQGTKVEIK
SEQ ID NO. 4234	dc-035	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQS YDISNLSHVVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4235	dc-036	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSY TSSSKVFGQGTKVEIK
SEQ ID NO. 4236	dc-037	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREWGGSWFGMDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSSSITFGQ GTKVEIK
SEQ ID NO. 4237	dc-038	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREWGGSWFGMDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSNAVFG QGTKVEIK
SEQ ID NO. 4238	dc-039	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREWLGTTGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSAPFYV FGQGTKVEIK
SEQ ID NO. 4239	dc-040	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREWLGTTGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSGPLKV FGQGTKVEIK
SEQ ID NO. 4240	dc-041	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREYYGIDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSSPNVVFGQ GTKVEIK
SEQ ID NO. 4241	dc-042	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARFGVGYDTHYMYFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQFHSFPL TFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4242	dc-043	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGDFLFRYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTPFYVFGQGT KVEIK
SEQ ID NO. 4243	dc-044	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGDSSGWDYFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNSPPPITFGQ GTKVEIK
SEQ ID NO. 4244	dc-045	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGGASIGVFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGMVFGQG TKVEIK
SEQ ID NO. 4245	dc-046	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGGSVDIAYGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPLTFG QGTKVEIK
SEQ ID NO. 4246	dc-047	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLIMTPGYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGGLVFG QGTKVEIK
SEQ ID NO. 4247	dc-048	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGPGYSYAAMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQDYSFPPTFG QGTKVEIK
SEQ ID NO. 4248	dc-049	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGPRFGELPFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSNTTWLFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4249	dc-050	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYLASSSAHGGYYALDYWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAY SPPISFGQGTKVEIK
SEQ ID NO. 4250	dc-051	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYLASSSAHGGYYALDYWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAY SPPITFGQGTKVEIK
SEQ ID NO. 4251	dc-052	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYRNLSYDDDDFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSST GVVFGQGTKVEIK
SEQ ID NO. 4252	dc-053	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGSVSTGIAFYYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSSLVFGQ GTKVEIK
SEQ ID NO. 4253	dc-054	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHDFSTGAYDWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGARWPLAFGQG TKVEIK
SEQ ID NO. 4254	dc-055	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLGYKGFAYLGSYSSYAFDLWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNS PPITFGQGTKVEIK
SEQ ID NO. 4255	dc-056	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLSGTYYYAMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDRLPLTFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4256	dc-057	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLYHTAYRYTYYFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCHVWDSSDV VFGQGTKVEIK
SEQ ID NO. 4257	dc-058	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMRWGIYRGKLSVYMDVWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSS LSGVFGQGTKVEIK
SEQ ID NO. 4258	dc-059	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMSRYGAFDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWPLTFGQG TKVEIK
SEQ ID NO. 4259	dc-060	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNHHSDFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQEYNAYPTTFGQGTK VEIK
SEQ ID NO. 4260	dc-061	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNHHSDFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQTVTPPFTFGQGTK VEIK
SEQ ID NO. 4261	dc-062	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNHHSDFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPRTFGQGTK VEIK
SEQ ID NO. 4262	dc-063	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNHHSDFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTPRTFGQGTK VEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4263	dc-064	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRGTGDLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDNGSDHLVV FGQGTKVEIK
SEQ ID NO. 4264	dc-065	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRGTGDLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHLVVF GQGTKVEIK
SEQ ID NO. 4265	dc-066	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGDLNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLLSSSLVVF GQGTKVEIK
SEQ ID NO. 4266	dc-067	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGDLNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDTSTSSHVVFG QGTKVEIK
SEQ ID NO. 4267	dc-068	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGDLNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSASPHVVFG QGTKVEIK
SEQ ID NO. 4268	dc-069	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGDLNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDGLVVFG QGTKVEIK
SEQ ID NO. 4269	dc-070	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGELKPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDTSGNHPVVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4270	dc-071	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGELNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDASSDPFVVFG QGTKVEIK
SEQ ID NO. 4271	dc-072	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGELNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHHVVF GQGTKVEIK
SEQ ID NO. 4272	dc-073	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGELNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSPVVVFGQ GTKVEIK
SEQ ID NO. 4273	dc-074	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNWNDFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQRYESSPRTFGQGTK VEIK
SEQ ID NO. 4274	dc-075	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARPLPNVGYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLLLSYV FGQGTKVEIK
SEQ ID NO. 4275	dc-076	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARQGWLATTRGMDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAGDRTTGQF GQGTKVEIK
SEQ ID NO. 4276	dc-077	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARQKLRGDGFDTWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQHYGGPFTFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4277	dc-078	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSGNSYGQFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGHVVFGQ GTKVEIK
SEQ ID NO. 4278	dc-079	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSGQYGGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEYSFPVTFGQ GTKVEIK
SEQ ID NO. 4279	dc-080	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTAAYVLGHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSIPFTFGQGTK VEIK
SEQ ID NO. 4280	dc-081	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTAAYVLGHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSIPLTFGQGTK VEIK
SEQ ID NO. 4281	dc-082	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTRIGYSHHADYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCYSYVGSSTWVFG QGTKVEIK
SEQ ID NO. 4282	dc-083	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGAAAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTLDSILRSWVFGQ GTKVEIK
SEQ ID NO. 4283	dc-084	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAISFPLTFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4284	dc-085	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPITFGQ GTKVEIK
SEQ ID NO. 4285	dc-086	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPLTFG QGTKVEIK
SEQ ID NO. 4286	dc-087	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPPTFG QGTKVEIK
SEQ ID NO. 4287	dc-088	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSFPPTFG QGTKVEIK
SEQ ID NO. 4288	dc-089	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQGINWPLTFG QGTKVEIK
SEQ ID NO. 4289	dc-090	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGSGIVFGQ GTKVEIK
SEQ ID NO. 4290	dc-091	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARWNIAIVGAAPVPVMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFP LTFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4291	dc-092	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARWNIAIVGAAPVPVMDVWGQWGQGTLVTVSSGGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFP VSFGQGTKVEIK
SEQ ID NO. 4292	dc-093	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARWNIAIVGAAPVPVMDVWGQWGQGTLVTVSSGGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFP VTFGQGTKVEIK
SEQ ID NO. 4293	dc-094	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYGSNYRYFDRWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGSHWPWAFG QGTKVEIK
SEQ ID NO. 4294	dc-095	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASAGPDDDFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTGVVFGQ GTKVEIK
SEQ ID NO. 4295	dc-096	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASAGPDDDFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSTVFGQGTK VEIK
SEQ ID NO. 4296	dc-097	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASPKYGDFYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQHYAIPLTFGQGT KVEIK
SEQ ID NO. 4297	dc-098	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATNDWWGHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSQSNSWVFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4298	dc-099	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATYDVLTGFEYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGIRVFGQGT KVEIK
SEQ ID NO. 4299	dc-100	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATYLGGIVGASDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEYTAPVTFGQ GTKVEIK
SEQ ID NO. 4300	dc-101	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CSGGELARGFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSVTIPRTFGQGTK VEIK
SEQ ID NO. 4301	dc-102	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRHSGWLFPSAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQNWGTGVGGF GQGTKVEIK
SEQ ID NO. 4302	dc-103	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAADPLDEWDAYLFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCEAWESDTRIF GQGTKVEIK
SEQ ID NO. 4303	dc-104	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAGSTYDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQS PATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRA TGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDNNVVFGQGTKVE IK
SEQ ID NO. 4304	dc-105	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAGSTYDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQS PATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRA TGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSGVVFGQGTK VEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4305	dc-106	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAHGGTNSRGWKALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTT PTVVFGQGTKVEIK
SEQ ID NO. 4306	dc-107	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAGAGSSAASGFATWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGAASGVFG QGTKVEIK
SEQ ID NO. 4307	dc-108	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDEVWIAAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGHVVFG QGTKVEIK
SEQ ID NO. 4308	dc-109	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDRGGDVVTAGRGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWP PITFGQGTKVEIK
SEQ ID NO. 4309	dc-110	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGRWDFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDKPYVFG QGTKVEIK
SEQ ID NO. 4310	dc-111	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILAYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHW VFGQGTKVEIK
SEQ ID NO. 4311	dc-112	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILAYGSASDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHW VFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4312	dc-113	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILTYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDGGSDHWV FGQGTKVEIK
SEQ ID NO. 4313	dc-114	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILTYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDNGSDHWV FGQGTKVEIK
SEQ ID NO. 4314	dc-115	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILTYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSISDHWVF GQGTKVEIK
SEQ ID NO. 4315	dc-116	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILTYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHWV FGQGTKVEIK
SEQ ID NO. 4316	dc-117	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNDILTYGSAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDTNTDHWL FGQGTKVEIK
SEQ ID NO. 4317	dc-118	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNRYSYGDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDLSGWVFGQ GTKVEIK
SEQ ID NO. 4318	dc-119	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CANGRSSAYFNHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPYTFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4319	dc-120	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAPNSNSPSYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCHMWNASRNHWVFGQ GTKVEIK
SEQ ID NO. 4320	dc-121	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAPNSNSPSYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCHVWDSSGDHWVFGQG TKVEIK
SEQ ID NO. 4321	dc-122	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARANVYQQTWAFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGERWPLA FGQGTKVEIK
SEQ ID NO. 4322	dc-123	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARARGANTWDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEYSFPVTFGQG TKVEIK
SEQ ID NO. 4323	dc-124	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDFHRAYGMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPPTFGQ GTKVEIK
SEQ ID NO. 4324	dc-125	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGSRDYGAGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGNTHLVF GQGTKVEIK
SEQ ID NO. 4325	dc-126	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPRGDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYHTTPPTFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4326	dc-127	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRTSRAALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGDTHLVFG QGTKVEIK
SEQ ID NO. 4327	dc-128	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDTGFGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTWGFGQG TKVEIK
SEQ ID NO. 4328	dc-129	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDTSSGAMDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSFGGNDNLIFGQGT KVEIK
SEQ ID NO. 4329	dc-130	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDVQYRFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGQNKQFPWTFGQGT KVEIK
SEQ ID NO. 4330	dc-131	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQ EGSSPITFGQGTKVEIK
SEQ ID NO. 4331	dc-132	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQ YDTTPPLTFGQGTKVEIK
SEQ ID NO. 4332	dc-133	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQ YGSSPITFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4333	dc-134	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQS YDFGLGIMVFGQGTKVEIK
SEQ ID NO. 4334	dc-135	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQS YDISNLSHVVFGQGTKVEIK
SEQ ID NO. 4335	dc-136	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGGDYGSGYYLPNYGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSY TSSSKVFGQGTKVEIK
SEQ ID NO. 4336	dc-137	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREWGGSWFGMDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSSSITFGQ GTKVEIK
SEQ ID NO. 4337	dc-138	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREWGGSWFGMDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSNAVFG QGTKVEIK
SEQ ID NO. 4338	dc-139	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREWLGTTGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSAPFYV FGQGTKVEIK
SEQ ID NO. 4339	dc-140	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREWLGTTGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSGPLKV FGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4340	dc-141	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREYYGIDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSSPNVVFGQ GTKVEIK
SEQ ID NO. 4341	dc-142	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARFGVGYDTHYMYFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQFHSFPL TFGQGTKVEIK
SEQ ID NO. 4342	dc-143	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGDFLFRYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTPFYVFGQGT KVEIK
SEQ ID NO. 4343	dc-144	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGDSSGWDYFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNSPPPITFGQ GTKVEIK
SEQ ID NO. 4344	dc-145	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGGASIGVFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGMVFGQG TKVEIK
SEQ ID NO. 4345	dc-146	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLIMTPGYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGGLVFG QGTKVEIK
SEQ ID NO. 4346	dc-147	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGPGYSYAAMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQDYSFPPTFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4347	dc-148	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGPRFGELPFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSNTTWLFG QGTKVEIK
SEQ ID NO. 4348	dc-149	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYLASSSAHGGYYALDYWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAY SPPISFGQGTKVEIK
SEQ ID NO. 4349	dc-150	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYLASSSAHGGYYALDYWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAY SPPITFGQGTKVEIK
SEQ ID NO. 4350	dc-151	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYRNLSYDDDDFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSST GVVFGQGTKVEIK
SEQ ID NO. 4351	dc-152	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGSVSTGIAFYYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSSLVFGQ GTKVEIK
SEQ ID NO. 4352	dc-153	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHDFSTGAYDWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGARWPLAFGQG TKVEIK
SEQ ID NO. 4353	dc-154	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLGYKGFAYLGSYSSYAFDLWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNS PPITFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4354	dc-155	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLSGTYYYAMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDRLPLTFGQ GTKVEIK
SEQ ID NO. 4355	dc-156	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLYHTAYRYTYYFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCHVWDSSDV VFGQGTKVEIK
SEQ ID NO. 4356	dc-157	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMRWGIYRGKLSVYMDVWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSS LSGVFGQGTKVEIK
SEQ ID NO. 4357	dc-158	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMSRYGAFDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWPLTFGQG TKVEIK
SEQ ID NO. 4358	dc-159	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNHHSDFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQEYNAYPTTFGQGTK VEIK
SEQ ID NO. 4359	dc-160	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNHHSDFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQTVTPPFTFGQGTK VEIK
SEQ ID NO. 4360	dc-161	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNHHSDFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPRTFGQGTK VEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4361	dc-162	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNHHSDFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTPRTFGQGTK VEIK
SEQ ID NO. 4362	dc-163	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRGTGDLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDNGSDHLVV FGQGTKVEIK
SEQ ID NO. 4363	dc-164	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRGTGDLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHLVVF GQGTKVEIK
SEQ ID NO. 4364	dc-165	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGDLNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLLSSSLVVF GQGTKVEIK
SEQ ID NO. 4365	dc-166	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGDLNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDTSTSSHVVFG QGTKVEIK
SEQ ID NO. 4366	dc-167	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGDLNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSASPHVVFG QGTKVEIK
SEQ ID NO. 4367	dc-168	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGDLNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDGLVVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4368	dc-169	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGELKPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDTSGNHPVVF GQGTKVEIK
SEQ ID NO. 4369	dc-170	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGELNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDASSDPFVVFG QGTKVEIK
SEQ ID NO. 4370	dc-171	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGELNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHHVVF GQGTKVEIK
SEQ ID NO. 4371	dc-172	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGELNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSPVVVFGQ GTKVEIK
SEQ ID NO. 4372	dc-173	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNWNDFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQRYESSPRTFGQGTK VEIK
SEQ ID NO. 4373	dc-174	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARPLPNVGYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLLLSYV FGQGTKVEIK
SEQ ID NO. 4374	dc-175	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARQGWLATTRGMDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAGDRTTGQF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4375	dc-176	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARQKLRGDGFDTWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQHYGGPFTFGQG TKVEIK
SEQ ID NO. 4376	dc-177	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSGQYGGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEYSFPVTFGQ GTKVEIK
SEQ ID NO. 4377	dc-178	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTAAYVLGHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSIPFTFGQGTK VEIK
SEQ ID NO. 4378	dc-179	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTAAYVLGHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSIPLTFGQGTK VEIK
SEQ ID NO. 4379	dc-180	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTRIGYSHHADYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCYSYVGSSTWVFG QGTKVEIK
SEQ ID NO. 4380	dc-181	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAISFPLTFGQ GTKVEIK
SEQ ID NO. 4381	dc-182	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPITFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4382	dc-183	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPLTFG QGTKVEIK
SEQ ID NO. 4383	dc-184	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPPTFG QGTKVEIK
SEQ ID NO. 4384	dc-185	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSFPPTFG QGTKVEIK
SEQ ID NO. 4385	dc-186	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQGINWPLTFG QGTKVEIK
SEQ ID NO. 4386	dc-187	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGSGIVFGQ GTKVEIK
SEQ ID NO. 4387	dc-188	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARWNIAIVGAAPVPVMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFP LTFGQGTKVEIK
SEQ ID NO. 4388	dc-189	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARWNIAIVGAAPVPVMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFP VSFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4389	dc-190	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARWNIAIVGAAPVPVMDVWGQWGQGTLVTVSSGGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFP VTFGQGTKVEIK
SEQ ID NO. 4390	dc-191	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYGSNYRYFDRWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGSHWPWAFG QGTKVEIK
SEQ ID NO. 4391	dc-192	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASAGPDDDFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTGVVFGQ GTKVEIK
SEQ ID NO. 4392	dc-193	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASAGPDDDFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSTVFGQGTK VEIK
SEQ ID NO. 4393	dc-194	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASPKYGDFYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQHYAIPLTFGQGT KVEIK
SEQ ID NO. 4394	dc-195	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATNDWWGHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSQSNSWVFGQG TKVEIK
SEQ ID NO. 4395	dc-196	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATYLGGIVGASDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEYTAPVTFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4396	dc-197	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRHSGWLFPSAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQNWGTGVGGF GQGTKVEIK
SEQ ID NO. 4397	dc-198	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAAKNGASLGVNLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSGSPVV FGQGTKVEIK
SEQ ID NO. 4398	dc-199	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDNSLSAVVFGQGTK VEIK
SEQ ID NO. 4399	dc-200	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLSWDSSLSAEVFGQGTKV EIK
SEQ ID NO. 4400	dc-201	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTRGVFGQGTKV EIK
SEQ ID NO. 4401	dc-202	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSVPWTFGQGTKVEI K
SEQ ID NO. 4402	dc-203	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSWDAGTNRVFGQGTKV EIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4403	dc-204	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHPVFGQGTK VEIK
SEQ ID NO. 4404	dc-205	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADNGPDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHWVFGQGTK VEIK
SEQ ID NO. 4405	dc-206	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADTAYSLPVDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQHYDNWPPTFGQG TKVEIK
SEQ ID NO. 4406	dc-207	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAGDSSSSMPYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQDGTPPRTFGQ GTKVEIK
SEQ ID NO. 4407	dc-208	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAGGGNYGQFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQADSPPITFGQGT KVEIK
SEQ ID NO. 4408	dc-209	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAGGGNYGQFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSPPITFGQGT KVEIK
SEQ ID NO. 4409	dc-210	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAGGGNYGQFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPITFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4410	dc-211	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAGVGRIFPYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSTPFTFGQGTKV EIK
SEQ ID NO. 4411	dc-212	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAGVGRIFPYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQTYMTPLTFGQGTKV EIK
SEQ ID NO. 4412	dc-213	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAHRLANYTRVDRYYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWHSGDN RWVFGQGTKVEIK
SEQ ID NO. 4413	dc-214	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAHSRSISPYYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSYYSGAFG QGTKVEIK
SEQ ID NO. 4414	dc-215	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKALYGGLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSTTFTFGQGT KVEIK
SEQ ID NO. 4415	dc-216	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKAPFWPRSYTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSHHSR VFGQGTKVEIK
SEQ ID NO. 4416	dc-217	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKAVALGWAFDRWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSAGVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4417	dc-218	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDAPSGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWPRTFGQG TKVEIK
SEQ ID NO. 4418	dc-219	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDFRGGGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDNLLWTFGQ GTKVEIK
SEQ ID NO. 4419	dc-220	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDFRGGGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSYLWTFGQG TKVEIK
SEQ ID NO. 4420	dc-221	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGAVTYGALGDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDISSTYV FGQGTKVEIK
SEQ ID NO. 4421	dc-222	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGAVNFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTSGTQVVFGQGT KVEIK
SEQ ID NO. 4422	dc-223	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLLSYSSVRVFGQ GTKVEIK
SEQ ID NO. 4423	dc-224	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPAWTFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4424	dc-225	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSGLRGKVF GQGTKVEIK
SEQ ID NO. 4425	dc-226	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSRSGYVF GQGTKVEIK
SEQ ID NO. 4426	dc-227	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDNSSDPHY VFGQGTKVEIK
SEQ ID NO. 4427	dc-228	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGLYRYFYYYKVGDAFDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSA DSSGTYPWVFGQGTKVEIK
SEQ ID NO. 4428	dc-229	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDD SLIDPVFGQGTKVEIK
SEQ ID NO. 4429	dc-230	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDD SLNAVVFGQGTKVEIK
SEQ ID NO. 4430	dc-231	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDD SPNGRVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4431	dc-232	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAGWDD SLSGWVFGQGTKVEIK
SEQ ID NO. 4432	dc-233	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCASWDD SLNGRVFGQGTKVEIK
SEQ ID NO. 4433	dc-234	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGVWDS SVGGWVFGQGTKVEIK
SEQ ID NO. 4434	dc-235	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDS NTAVFGQGTKVEIK
SEQ ID NO. 4435	dc-236	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSP PPTFGQGTKVEIK
SEQ ID NO. 4436	dc-237	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSS LLPGVVFGQGTKVEIK
SEQ ID NO. 4437	dc-238	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSF GQVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4438	dc-239	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGRSAAIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSSLVVFGQG TKVEIK
SEQ ID NO. 4439	dc-240	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDHSAYRGGFYSYTFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDST DHVVFGQGTKVEIK
SEQ ID NO. 4440	dc-241	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDHTMLGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSRGSGVF GQGTKVEIK
SEQ ID NO. 4441	dc-242	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDHTMLGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSRSPVWSF GQGTKVEIK
SEQ ID NO. 4442	dc-243	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDHTMLGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSLYYGGGDRLFG QGTKVEIK
SEQ ID NO. 4443	dc-244	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDIWYYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSWAKSGGNRVFGQ GTKVEIK
SEQ ID NO. 4444	dc-245	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLGTGFMQGYWALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCNSRDSRG NNLWVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4445	dc-246	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIGSSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDIGTYVVFGQG TKVEIK
SEQ ID NO. 4446	dc-247	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSPLVVFGQG TKVEIK
SEQ ID NO. 4447	dc-248	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTSLVVFGQG TKVEIK
SEQ ID NO. 4448	dc-249	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQHFGSSPKLTFGQG TKVEIK
SEQ ID NO. 4449	dc-250	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFGQGT KVEIK
SEQ ID NO. 4450	dc-251	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSFPLTFGQGT KVEIK
SEQ ID NO. 4451	dc-252	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSGVVFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4452	dc-253	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSSLVVFGQ GTKVEIK
SEQ ID NO. 4453	dc-254	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGQVFGQGT KVEIK
SEQ ID NO. 4454	dc-255	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDQGVFG QGTKVEIK
SEQ ID NO. 4455	dc-256	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLPGTMSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWPWTFG QGTKVEIK
SEQ ID NO. 4456	dc-257	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLRFSGVFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDRSSDQYVFG QGTKVEIK
SEQ ID NO. 4457	dc-258	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLRWNNVNNDSYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDS SGAVVFGQGTKVEIK
SEQ ID NO. 4458	dc-259	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETGDSNNLVVFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4459	dc-260	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSPYVVFG QGTKVEIK
SEQ ID NO. 4460	dc-261	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDTSTWVFGQ GTKVEIK
SEQ ID NO. 4461	dc-262	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRKNNPRTFGQG TKVEIK
SEQ ID NO. 4462	dc-263	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWPPLTFGQ GTKVEIK
SEQ ID NO. 4463	dc-264	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSSSFSPYTFGQG TKVEIK
SEQ ID NO. 4464	dc-265	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPITFGQGT KVEIK
SEQ ID NO. 4465	dc-266	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4466	dc-267	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSTLYTFGQG TKVEIK
SEQ ID NO. 4467	dc-268	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSTLWTFGQG TKVEIK
SEQ ID NO. 4468	dc-269	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPLISFGQG TKVEIK
SEQ ID NO. 4469	dc-270	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNGLRTFGQGT KVEIK
SEQ ID NO. 4470	dc-271	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSFPLTFGQG TKVEIK
SEQ ID NO. 4471	dc-272	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGQVFGQG TKVEIK
SEQ ID NO. 4472	dc-273	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSDSDHVVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4473	dc-274	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSGDQVFG QGTKVEIK
SEQ ID NO. 4474	dc-275	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQYYGSYPLYAFGQ GTKVEIK
SEQ ID NO. 4475	dc-276	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYSGSSTFWVFGQ GTKVEIK
SEQ ID NO. 4476	dc-277	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLVTGSLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYITPWTFGQGT KVEIK
SEQ ID NO. 4477	dc-278	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLVVGALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPWTFGQG TKVEIK
SEQ ID NO. 4478	dc-279	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLVVGALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQHKSYPHFTFGQ GTKVEIK
SEQ ID NO. 4479	dc-280	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLVVGALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYKSHSTFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4480	dc-281	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLYAISLFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSRTWVFGQ GTKVEIK
SEQ ID NO. 4481	dc-282	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDQEGYRAYGYNGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS LSGNWVFGQGTKVEIK
SEQ ID NO. 4482	dc-283	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDQEGYRAYGYNGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGAH WPWAFGQGTKVEIK
SEQ ID NO. 4483	dc-284	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDRRHTRGTWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCTSYTSSSELYAFGQGT KVEIK
SEQ ID NO. 4484	dc-285	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDRSVVPTYYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWPPSFG QGTKVEIK
SEQ ID NO. 4485	dc-286	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDSGTHGTFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTLDSILRSWVFGQ GTKVEIK
SEQ ID NO. 4486	dc-287	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCEEWDD SLKGQVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4487	dc-288	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS LLGAGVFGQGTKVEIK
SEQ ID NO. 4488	dc-289	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS LRAVVFGQGTKVEIK
SEQ ID NO. 4489	dc-290	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGVWDS SGAVVVFGQGTKVEIK
SEQ ID NO. 4490	dc-291	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLQHNSY PWTFGQGTKVEIK
SEQ ID NO. 4491	dc-292	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDS SSDHVVFGQGTKVEIK
SEQ ID NO. 4492	dc-293	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDS STSHVVFGQGTKVEIK
SEQ ID NO. 4493	dc-294	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSN PYSFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4494	dc-295	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSP PPTFGQGTKVEIK
SEQ ID NO. 4495	dc-296	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSS PRTFGQGTKVEIK
SEQ ID NO. 4496	dc-297	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYKRP LTFGQGTKVEIK
SEQ ID NO. 4497	dc-298	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDS SSSSLPVVFGQGTKVEIK
SEQ ID NO. 4498	dc-299	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKEMYWQSYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCNAWDSTLRQVVF GQGTKVEIK
SEQ ID NO. 4499	dc-300	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKERRYAGHSVDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSGLSY VFGQGTKVEIK
SEQ ID NO. 4500	dc-301	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKESVSGSRLGWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDG YVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4501	dc-302	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKETTGIGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTASVVFG QGTKVEIK
SEQ ID NO. 4502	dc-303	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKETTGIGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQLWGTGGDLVFG QGTKVEIK
SEQ ID NO. 4503	dc-304	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKETTGIGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYSSSSSIAWIFGQ GTKVEIK
SEQ ID NO. 4504	dc-305	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKFNPVGGFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLLSAWVFG QGTKVEIK
SEQ ID NO. 4505	dc-306	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGGWAYIFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSSSAVFG QGTKVEIK
SEQ ID NO. 4506	dc-307	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGGYGHSGYAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTLDSSLSLWV FGQGTKVEIK
SEQ ID NO. 4507	dc-308	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGHSSTYVIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTTGYVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4508	dc-309	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGIPLQYTYGNDRWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYHHWPLTFG QGTKVEIK
SEQ ID NO. 4509	dc-310	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGLSWAGSYGYVIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTPPA TFGQGTKVEIK
SEQ ID NO. 4510	dc-311	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGLWGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSRTPYVFGQ GTKVEIK
SEQ ID NO. 4511	dc-312	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGRGWKGLDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGSYGSTSGLYVFG QGTKVEIK
SEQ ID NO. 4512	dc-313	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGRGWKGLDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSLVVFGQ GTKVEIK
SEQ ID NO. 4513	dc-314	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGRGWKGLDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSSLVVFG QGTKVEIK
SEQ ID NO. 4514	dc-315	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGRGWKGLDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSSSLVVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4515	dc-316	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGRGWKGLDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSSGPLVVFG QGTKVEIK
SEQ ID NO. 4516	dc-317	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGRGWKGLDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSTTDLNYVF GQGTKVEIK
SEQ ID NO. 4517	dc-318	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGTQYRAWWSVRGYMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLSYTS THNWVFGQGTKVEIK
SEQ ID NO. 4518	dc-319	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGTTRLGDNWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLGARYVFG QGTKVEIK
SEQ ID NO. 4519	dc-320	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGTTRLGDNWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSSPDYVFGQ GTKVEIK
SEQ ID NO. 4520	dc-321	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGWGYRGDIYGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSAYTSSSTV FGQGTKVEIK
SEQ ID NO. 4521	dc-322	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGYGPANAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSDHFVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4522	dc-323	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGYGPANAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGSRWPLAFG QGTKVEIK
SEQ ID NO. 4523	dc-324	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGYGPANAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSTLYTFGQ GTKVEIK
SEQ ID NO. 4524	dc-325	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGYGPANAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSADPYTFG QGTKVEIK
SEQ ID NO. 4525	dc-326	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGYGPANAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSWDSNTVMFG QGTKVEIK
SEQ ID NO. 4526	dc-327	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKHGDVDTMAVPFHSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLLSY VFGQGTKVEIK
SEQ ID NO. 4527	dc-328	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKHSPSESWPLDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGSWESNVNRFYV FGQGTKVEIK
SEQ ID NO. 4528	dc-329	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKHTISERPFKPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQGNTPGQTFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4529	dc-330	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKIWRRYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSFPPTFGQGTK VEIK
SEQ ID NO. 4530	dc-331	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKLRVSRDWSTNYQWNPYFDIWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYT SSSTWVFGQGTKVEIK
SEQ ID NO. 4531	dc-332	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNYGGSLDNWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQATWPPQTFGQG TKVEIK
SEQ ID NO. 4532	dc-333	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKNYGGSLDNWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDNPPPTFGQGT KVEIK
SEQ ID NO. 4533	dc-334	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKRHDALWAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGAWDSNHLRIFG QGTKVEIK
SEQ ID NO. 4534	dc-335	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKRHDALWAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWPPYTFG QGTKVEIK
SEQ ID NO. 4535	dc-336	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKRHDALWAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSSHHVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4536	dc-337	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSGKYRRFGIYPDYMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNILPI TFGQGTKVEIK
SEQ ID NO. 4537	dc-338	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSGKYRRFGIYPDYMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSQP ITFGQGTKVEIK
SEQ ID NO. 4538	dc-339	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSKTYRTGTPPAPAMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYISSGT YVFGQGTKVEIK
SEQ ID NO. 4539	dc-340	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSLWGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDNNSGVFGQG TKVEIK
SEQ ID NO. 4540	dc-341	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSLWGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSSAVFGQG TKVEIK
SEQ ID NO. 4541	dc-342	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSLWGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTVVFGQGT KVEIK
SEQ ID NO. 4542	dc-343	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSLYGGMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSRLNSAVFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4543	dc-344	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSSLMVRGDMVPHFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSI VVFGQGTKVEIK
SEQ ID NO. 4544	dc-345	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKVIPEKVAGLDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQLWDDTNTQVLF GQGTKVEIK
SEQ ID NO. 4545	dc-346	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKVIPEKVAGLDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSAHLVF GQGTKVEIK
SEQ ID NO. 4546	dc-347	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKVSAGVGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYTHRGVEVFG QGTKVEIK
SEQ ID NO. 4547	dc-348	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKYSAPGYADYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSSLGVFGQ GTKVEIK
SEQ ID NO. 4548	dc-349	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CALGSYWTGPWKDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSTDQW VFGQGTKVEIK
SEQ ID NO. 4549	dc-350	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CANHKPYGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSSPNVVFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4550	dc-351	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAPYADYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSYSQYSFGQGTK VEIK
SEQ ID NO. 4551	dc-352	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAPYADYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSQDSSGDFRVFGQGT KVEIK
SEQ ID NO. 4552	dc-353	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAPYADYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDDYVFGQG TKVEIK
SEQ ID NO. 4553	dc-354	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAPYADYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHVVFGQG TKVEIK
SEQ ID NO. 4554	dc-355	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAPYADYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTVVFGQGTK VEIK
SEQ ID NO. 4555	dc-356	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARAGGVPRGYAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTGVFG QGTKVEIK
SEQ ID NO. 4556	dc-357	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARAGRSRGWYGFDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQASDSSSVVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4557	dc-358	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARAGVGATPDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQALQTPLTFGQG TKVEIK
SEQ ID NO. 4558	dc-359	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARAGVGATPDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQARQSPLTFGQG TKVEIK
SEQ ID NO. 4559	dc-360	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARALTWNYPFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQKYYSAPRTFGQ GTKVEIK
SEQ ID NO. 4560	dc-361	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARAQGVLTRESYYGGMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQENSPP ITFGQGTKVEIK
SEQ ID NO. 4561	dc-362	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARARVGATPTHAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCRVWDSSSTW VFGQGTKVEIK
SEQ ID NO. 4562	dc-363	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARATRYFDWQYRYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYSSTS TPYVFGQGTKVEIK
SEQ ID NO. 4563	dc-364	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARATRYFDWQYRYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSS VYVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4564	dc-365	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDAAYGDVVRPAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCDVAVTDGR WVFGQGTKVEIK
SEQ ID NO. 4565	dc-366	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDAAYGDVVRPAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSNPA VVFGQGTKVEIK
SEQ ID NO. 4566	dc-367	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDAAYGDVVRPAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSAVGGSAR WVFGQGTKVEIK
SEQ ID NO. 4567	dc-368	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDAFRYDPRGEYGLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGNTH LVFGQGTKVEIK
SEQ ID NO. 4568	dc-369	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDARYVPDDGWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTYVFGQG TKVEIK
SEQ ID NO. 4569	dc-370	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDARYVPDDGWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVGDSSTVLFGQG TKVEIK
SEQ ID NO. 4570	dc-371	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDDSYRGPLHGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTL VVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4571	dc-372	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDDSYRGPLHGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGQ VFGQGTKVEIK
SEQ ID NO. 4572	dc-373	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDDSYRGPLHGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTYDDNRS AVVFGQGTKVEIK
SEQ ID NO. 4573	dc-374	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGASGDLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQLNTYPPWTFGQ GTKVEIK
SEQ ID NO. 4574	dc-375	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGGGDYGFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDRLPLTFGQ GTKVEIK
SEQ ID NO. 4575	dc-376	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGGTAAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSPLVVFGQ GTKVEIK
SEQ ID NO. 4576	dc-377	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGGYRRTNYWFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCNSRDSDSHQ AVFGQGTKVEIK
SEQ ID NO. 4577	dc-378	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGRAPASDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSVVFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4578	dc-379	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTMYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQS YDSSLSGDVVFGQGTKVEIK
SEQ ID NO. 4579	dc-380	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYNSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQS YSPPPTFGQGTKVEIK
SEQ ID NO. 4580	dc-381	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAW DDSSLSGYVFGQGTKVEIK
SEQ ID NO. 4581	dc-382	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQA NRFPFTFGQGTKVEIK
SEQ ID NO. 4582	dc-383	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQS DTPMYTFGQGTKVEIK
SEQ ID NO. 4583	dc-384	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQS YSPPAYTFGQGTKVEIK
SEQ ID NO. 4584	dc-385	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQS YSPPPTFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4585	dc-386	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQY YSYPQTFGQGTKVEIK
SEQ ID NO. 4586	dc-387	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSY DSSLSGWLFGQGTKVEIK
SEQ ID NO. 4587	dc-388	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTW DSFGQVFGQGTKVEIK
SEQ ID NO. 4588	dc-389	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVW DSNSSPRVVFGQGTKVEIK
SEQ ID NO. 4589	dc-390	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVW DSSSDLQGVFGQGTKVEIK
SEQ ID NO. 4590	dc-391	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYT SSSTRGFGQGTKVEIK
SEQ ID NO. 4591	dc-392	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDIGSGAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPITFGQGTKV EIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4592	dc-393	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDKEAYRSSNSYWYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWD SSSGAGVFGQGTKVEIK
SEQ ID NO. 4593	dc-394	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDKGADTPFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLQYHAFASFGQG TKVEIK
SEQ ID NO. 4594	dc-395	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDKGGMVPFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSVPLTFGQ GTKVEIK
SEQ ID NO. 4595	dc-396	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDKGGMYGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSLPLTFGQ GTKVEIK
SEQ ID NO. 4596	dc-397	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDKSGYRSGHIGIYGGLGMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQV WDSSSFWVFGQGTKVEIK
SEQ ID NO. 4597	dc-398	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLFAYRHVGYGCFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSRL LSGGMFGQGTKVEIK
SEQ ID NO. 4598	dc-399	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLGNYRSKQVYFNAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSR SANVAFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4599	dc-400	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLRGAWGPGGFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYYTPL TFGQGTKVEIK
SEQ ID NO. 4600	dc-401	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLRGIAVAANWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDISLSALVFGQ GTKVEIK
SEQ ID NO. 4601	dc-402	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLRGYRGGGTYDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS LLRASWVFGQGTKVEIK
SEQ ID NO. 4602	dc-403	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLRGYRGGGTYDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS TTAGVFGQGTKVEIK
SEQ ID NO. 4603	dc-404	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLTGYRSRSYQWDGMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQAL TPTISFGQGTKVEIK
SEQ ID NO. 4604	dc-405	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLTGYRSRSYQWDGMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDS SLSAYVFGQGTKVEIK
SEQ ID NO. 4605	dc-406	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLTGYRSRSYQWDGMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDS SLSGYVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4606	dc-407	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDNGAGAFGVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQLNSNPPWTFGQ GTKVEIK
SEQ ID NO. 4607	dc-408	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDNLGYRGTHSGYAMDSWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSS TSVVFGQGTKVEIK
SEQ ID NO. 4608	dc-409	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDNQYGADDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQTYTLPITFGQGT KVEIK
SEQ ID NO. 4609	dc-410	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPALYSGMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWGRDTRVFGQ GTKVEIK
SEQ ID NO. 4610	dc-411	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPDSYRSSGTYYFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSPP WTFGQGTKVEIK
SEQ ID NO. 4611	dc-412	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPHGVMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGEVVFGQG TKVEIK
SEQ ID NO. 4612	dc-413	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPLGYLDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGIHGVFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4613	dc-414	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPMATRYYYYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSG LGVFGQGTKVEIK
SEQ ID NO. 4614	dc-415	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPSGSLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGTVVFGQGT KVEIK
SEQ ID NO. 4615	dc-416	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPSGSLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDYSSDLHVVFG QGTKVEIK
SEQ ID NO. 4616	dc-417	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPSGSSGLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSAHVVFG QGTKVEIK
SEQ ID NO. 4617	dc-418	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPSGSSGLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSGPNWV FGQGTKVEIK
SEQ ID NO. 4618	dc-419	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPTGYRLSSLYYYAGFAYGMDLWGQWGQGTLVTVSSGGSSRSSS SGGGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQ KPGQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYC QAWDSSTYVFGQGTKVEIK
SEQ ID NO. 4619	dc-420	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPTGYRLSSLYYYAGFAYGMDVWGQWGQGTLVTVSSGGSSRSSS SGGGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQ KPGQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYC MQETHWPHTFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4620	dc-421	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPTRRFDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTPGVVFGQG TKVEIK
SEQ ID NO. 4621	dc-422	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDQRGYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSPSVVFGQ GTKVEIK
SEQ ID NO. 4622	dc-423	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDQTYYDSSLSYGYAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWGSN TRVFGQGTKVEIK
SEQ ID NO. 4623	dc-424	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGGLVFDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCKAWDSSTSVVFGQG TKVEIK
SEQ ID NO. 4624	dc-425	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGGRDGYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSPPLTFG QGTKVEIK
SEQ ID NO. 4625	dc-426	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYRGYYAGNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS LAARWVFGQGTKVEIK
SEQ ID NO. 4626	dc-427	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYRGYYAGNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS NSAWVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4627	dc-428	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYRGYYAGNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPP PTFGQGTKVEIK
SEQ ID NO. 4628	dc-429	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYRGYYAGNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTFDRSL SGAVFGQGTKVEIK
SEQ ID NO. 4629	dc-430	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYRGYYAGNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSF GQVFGQGTKVEIK
SEQ ID NO. 4630	dc-431	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYRSRELFWQFDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSRT SAVFGQGTKVEIK
SEQ ID NO. 4631	dc-432	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWDSYTHTFGQG TKVEIK
SEQ ID NO. 4632	dc-433	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGAWDSSLLSAAGV FGQGTKVEIK
SEQ ID NO. 4633	dc-434	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSRLLSGGMF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4634	dc-435	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSRTGVFGQ GTKVEIK
SEQ ID NO. 4635	dc-436	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSTDVVFG QGTKVEIK
SEQ ID NO. 4636	dc-437	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSSPYTFGQG TKVEIK
SEQ ID NO. 4637	dc-438	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTCDSFGQVFGQG TKVEIK
SEQ ID NO. 4638	dc-439	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGQVFGQG TKVEIK
SEQ ID NO. 4639	dc-440	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHWVF GQGTKVEIK
SEQ ID NO. 4640	dc-441	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRKDFRMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAEWADSLSGGVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4641	dc-442	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSRTVIFGQGT KVEIK
SEQ ID NO. 4642	dc-443	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSTVVFGQG TKVEIK
SEQ ID NO. 4643	dc-444	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTGVVFGQ GTKVEIK
SEQ ID NO. 4644	dc-445	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTPDVVFGQ GTKVEIK
SEQ ID NO. 4645	dc-446	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTVIFGQGT KVEIK
SEQ ID NO. 4646	dc-447	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTVVFGQGT KVEIK
SEQ ID NO. 4647	dc-448	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTAGTVFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4648	dc-449	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTTAVVFGQ GTKVEIK
SEQ ID NO. 4649	dc-450	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSGDQAVFG QGTKVEIK
SEQ ID NO. 4650	dc-451	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDQGVFG QGTKVEIK
SEQ ID NO. 4651	dc-452	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETW DSFNHLVFGQGTKVEIK
SEQ ID NO. 4652	dc-453	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQA TQFPRTFGQGTKVEIK
SEQ ID NO. 4653	dc-454	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQHY DSTPITFGQGTKVEIK
SEQ ID NO. 4654	dc-455	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQY GSSSPDYTFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4655	dc-456	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSY DSSNHVVFGQGTKVEIK
SEQ ID NO. 4656	dc-457	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTW DSFGQVFGQGTKVEIK
SEQ ID NO. 4657	dc-458	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSAW DSSRSAGVFGQGTKVEIK
SEQ ID NO. 4658	dc-459	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGTFSTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTLVVFGQG TKVEIK
SEQ ID NO. 4659	dc-460	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSLYRGGGYLYYASWWMDLWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGT WDNSLSDGHYVFGQGTKVEIK
SEQ ID NO. 4660	dc-461	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSSNWFGIDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSADSSGAIFGQGT KVEIK
SEQ ID NO. 4661	dc-462	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDTGYRGTSMLIDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGLQGPTFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4662	dc-463	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDTGYRGTSMLIDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGTHGRPST FGQGTKVEIK
SEQ ID NO. 4663	dc-464	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDVFPYWFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYAGRHVVFGQGT KVEIK
SEQ ID NO. 4664	dc-465	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDVGRGRDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPITFGQGTK VEIK
SEQ ID NO. 4665	dc-466	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDVIVVGSWTYAFGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLT GLSGVFGQGTKVEIK
SEQ ID NO. 4666	dc-467	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDVKNYRAYELHSLNFMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWD SSSSDRVVFGQGTKVEIK
SEQ ID NO. 4667	dc-468	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDVSGDGFDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLLGPYVVF GQGTKVEIK
SEQ ID NO. 4668	dc-469	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREAVSPYSNSPRADYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTPG VVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4669	dc-470	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREGGFGASDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSPPITFGQGTK VEIK
SEQ ID NO. 4670	dc-471	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREGGRLGFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSAPAVVFGQ GTKVEIK
SEQ ID NO. 4671	dc-472	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREGRRGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEDSPPITFGQGTK VEIK
SEQ ID NO. 4672	dc-473	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREGSGYESDSSSRVDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSPPVT FGQGTKVEIK
SEQ ID NO. 4673	dc-474	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREGYRCASCGAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSGV FGQGTKVEIK
SEQ ID NO. 4674	dc-475	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARENLWSASGGAPSMDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCTQSLQPPI VFGQGTKVEIK
SEQ ID NO. 4675	dc-476	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREPYRVRLFRYMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSRLSGF YVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4676	dc-477	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERAGYGVWSATRMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSPP VTFGQGTKVEIK
SEQ ID NO. 4677	dc-478	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCASWDDSLNGR VFGQGTKVEIK
SEQ ID NO. 4678	dc-479	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSAGG VFGQGTKVEIK
SEQ ID NO. 4679	dc-480	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSPPVTFG QGTKVEIK
SEQ ID NO. 4680	dc-481	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEDSPPITFGQ GTKVEIK
SEQ ID NO. 4681	dc-482	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSPPITFGQ GTKVEIK
SEQ ID NO. 4682	dc-483	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNSPPITFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4683	dc-484	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPITFGQ GTKVEIK
SEQ ID NO. 4684	dc-485	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFGQ GTKVEIK
SEQ ID NO. 4685	dc-486	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDDTGPLFG QGTKVEIK
SEQ ID NO. 4686	dc-487	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGSGEYAVDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSPPITFGQG TKVEIK
SEQ ID NO. 4687	dc-488	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREVGRASRHYFIYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSPP ITFGQGTKVEIK
SEQ ID NO. 4688	dc-489	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREWRGFPYYYYASWMDPWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDS STYVFGQGTKVEIK
SEQ ID NO. 4689	dc-490	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARFGQDTLRYAYGMDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDNLPIT FGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4690	dc-491	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARFGQDTLRYAYGMDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSLPIT FGQGTKVEIK
SEQ ID NO. 4691	dc-492	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARFSGRYNGDFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSGSLHPVF GQGTKVEIK
SEQ ID NO. 4692	dc-493	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARFYGRVGYYYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDLPPIS FGQGTKVEIK
SEQ ID NO. 4693	dc-494	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGADLTYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQS PATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRA TGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSSPGYSFGQGTK VEIK
SEQ ID NO. 4694	dc-495	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGASSSYWEPDNYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDSSLNLLY VFGQGTKVEIK
SEQ ID NO. 4695	dc-496	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGAYRRVPKMFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSAPYTFG QGTKVEIK
SEQ ID NO. 4696	dc-497	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGAYRRVPKMFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSPPHTFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4697	dc-498	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGDYNAFDRWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWDSFNHLVFGQG TKVEIK
SEQ ID NO. 4698	dc-499	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGDYRVTGSTTYFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSG GGVFGQGTKVEIK
SEQ ID NO. 4699	dc-500	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGGSPSDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYDGRRTFGQGTK VEIK
SEQ ID NO. 4700	dc-501	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGGYSSSYYWYGMDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQALQAPI TFGQGTKVEIK
SEQ ID NO. 4701	dc-502	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGKAWGWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQFDSIPWTFGQGT KVEIK
SEQ ID NO. 4702	dc-503	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGKAWGWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSFPWTFGQG TKVEIK
SEQ ID NO. 4703	dc-504	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGKRASGDAFGPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSGLSY VFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4704	dc-505	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLRGYRGGGTYDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS LSDQGWVFGQGTKVEIK
SEQ ID NO. 4705	dc-506	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLRGYRGGGTYDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSS SPRWVFGQGTKVEIK
SEQ ID NO. 4706	dc-507	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLRGYRGGGTYDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQTSDFP YTFGQGTKVEIK
SEQ ID NO. 4707	dc-508	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLRGYRGGGTYDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSY SWTFGQGTKVEIK
SEQ ID NO. 4708	dc-509	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLYRGFGVGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSYSPVTFG QGTKVEIK
SEQ ID NO. 4709	dc-510	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGPGGMSGWIGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSSLDY VFGQGTKVEIK
SEQ ID NO. 4710	dc-511	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGPYRRSYFSYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWGSTGIV FGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4711	dc-512	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGPYRRSYFSYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEDNLPPT FGQGTKVEIK
SEQ ID NO. 4712	dc-513	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGQGPYLPYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTPKVVFGQG TKVEIK
SEQ ID NO. 4713	dc-514	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRAYRSAPAAYWMDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSL NVVVFGQGTKVEIK
SEQ ID NO. 4714	dc-515	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRGIYYSGGSRSLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLGAA WIFGQGTKVEIK
SEQ ID NO. 4715	dc-516	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRGVIVDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCNSWDSRGGHLVVFG QGTKVEIK
SEQ ID NO. 4716	dc-517	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRGVIVDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSPSVVFGQGT KVEIK
SEQ ID NO. 4717	dc-518	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRGVSYYGLDMWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSSLD YVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4718	dc-519	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRSRMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSSDNATDITQPVFG QGTKVEIK
SEQ ID NO. 4719	dc-520	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYDILTRYGYYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSPIF MFGQGTKVEIK
SEQ ID NO. 4720	dc-521	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYLASSSAHGGYYALDYWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAY SPPISFGQGTKVEIK
SEQ ID NO. 4721	dc-522	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYSGRTGYSYWLHYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDSL NGPVVFGQGTKVEIK
SEQ ID NO. 4722	dc-523	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYYDSSPPYGYAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPIT FGQGTKVEIK
SEQ ID NO. 4723	dc-524	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGSAAHGYHFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSSLAVV FGQGTKVEIK
SEQ ID NO. 4724	dc-525	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGSGKRGSGVDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSGLSY VFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4725	dc-526	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGSYASILDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWPSPGFTFG QGTKVEIK
SEQ ID NO. 4726	dc-527	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGSYRTSSSKQYLDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDRLNG YVFGQGTKVEIK
SEQ ID NO. 4727	dc-528	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGSYRTSSSKQYLDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYDSSSGSLV FGQGTKVEIK
SEQ ID NO. 4728	dc-529	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGSYRTSSSKQYLDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSPVFG QGTKVEIK
SEQ ID NO. 4729	dc-530	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSDA VFGQGTKVEIK
SEQ ID NO. 4730	dc-531	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSST YVVFGQGTKVEIK
SEQ ID NO. 4731	dc-532	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTPR AVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4732	dc-533	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWPL TFGQGTKVEIK
SEQ ID NO. 4733	dc-534	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWWP PFTFGQGTKVEIK
SEQ ID NO. 4734	dc-535	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPT FGQGTKVEIK
SEQ ID NO. 4735	dc-536	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWPT FGQGTKVEIK
SEQ ID NO. 4736	dc-537	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSG SVFGQGTKVEIK
SEQ ID NO. 4737	dc-538	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSSLG AVVFGQGTKVEIK
SEQ ID NO. 4738	dc-539	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGQ VFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4739	dc-540	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSA HVVFGQGTKVEIK
SEQ ID NO. 4740	dc-541	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSD HSVVFGQGTKVEIK
SEQ ID NO. 4741	dc-542	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGYSYRSMYRDYFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSNTP YTFGQGTKVEIK
SEQ ID NO. 4742	dc-543	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGYYRTANYLYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSH LAFGQGTKVEIK
SEQ ID NO. 4743	dc-544	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHADFEQQLAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQSRQLPLTFG QGTKVEIK
SEQ ID NO. 4744	dc-545	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHAGLISIAALDEWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSWFPHVVFGQG TKVEIK
SEQ ID NO. 4745	dc-546	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHAGLISIAALDEWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSGSVVFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4746	dc-547	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHAGLRGYSYGYNSTPPRPNWFDPWGQWGQGTLVTVSSGGSSRSS SSGGGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQ QKPGQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYY CQTWGTGEVVFGQGTKVEIK
SEQ ID NO. 4747	dc-548	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGARRHLLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGQVFGQ GTKVEIK
SEQ ID NO. 4748	dc-549	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGGGTSSGPDGYDYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQH NSYPLTFGQGTKVEIK
SEQ ID NO. 4749	dc-550	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGGLLDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDYLVSFGQGT KVEIK
SEQ ID NO. 4750	dc-551	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGKIGPNAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSYPPTFGQ GTKVEIK
SEQ ID NO. 4751	dc-552	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGLNWNVMDFAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSPPVT FGQGTKVEIK
SEQ ID NO. 4752	dc-553	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGRELIPQFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDSLNIGW VFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4753	dc-554	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGRELIPQFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDGRSGPN WVFGQGTKVEIK
SEQ ID NO. 4754	dc-555	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGSLAGRAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDNPPVTFGQ GTKVEIK
SEQ ID NO. 4755	dc-556	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGVLDFAMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQHSSPPITFGQG TKVEIK
SEQ ID NO. 4756	dc-557	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHHPSAAGAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSTPPWTFG QGTKVEIK
SEQ ID NO. 4757	dc-558	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHIRGGMNVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSPPITFGQGTK VEIK
SEQ ID NO. 4758	dc-559	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHPRHITASKPYTGGGSQYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDS STNHWVFGQGTKVEIK
SEQ ID NO. 4759	dc-560	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRAGYHIDGWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSPLVVFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4760	dc-561	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRFSGSQYAFFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTLVVF GQGTKVEIK
SEQ ID NO. 4761	dc-562	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRGSTLYENYMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQHEYWPLTF GQGTKVEIK
SEQ ID NO. 4762	dc-563	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRGVAGYYAYFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTLVV FGQGTKVEIK
SEQ ID NO. 4763	dc-564	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRRFRGSDYYSYNYPMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWD SSALVVFGQGTKVEIK
SEQ ID NO. 4764	dc-565	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRSQGYFDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLRSLVVFG QGTKVEIK
SEQ ID NO. 4765	dc-566	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRSQGYFDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTFVVFGQG TKVEIK
SEQ ID NO. 4766	dc-567	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRTSAGKIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSAPAVVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4767	dc-568	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRTSAGKIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLLPGYVF GQGTKVEIK
SEQ ID NO. 4768	dc-569	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRTSAGKIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLRVSYVF GQGTKVEIK
SEQ ID NO. 4769	dc-570	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRTSAGKIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTFVVFGQ GTKVEIK
SEQ ID NO. 4770	dc-571	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRTSAGKIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTYVVFGQ GTKVEIK
SEQ ID NO. 4771	dc-572	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRTSAGKIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTSLVVFGQ GTKVEIK
SEQ ID NO. 4772	dc-573	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRTSAGKIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTTLVVFGQ GTKVEIK
SEQ ID NO. 4773	dc-574	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHSGGSLRGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDIGTYVVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4774	dc-575	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHSSYYGNFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDSLNGYVF GQGTKVEIK
SEQ ID NO. 4775	dc-576	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHTGAIYFADYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWPPWTFG QGTKVEIK
SEQ ID NO. 4776	dc-577	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHTGDSRVGVIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTYVVF GQGTKVEIK
SEQ ID NO. 4777	dc-578	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHVITGSYGQGPFDDWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSST HVVFGQGTKVEIK
SEQ ID NO. 4778	dc-579	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHWGFRYFDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGAYTRANPQTLYV FGQGTKVEIK
SEQ ID NO. 4779	dc-580	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHYSRTSAPYYNAVDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPL TFGQGTKVEIK
SEQ ID NO. 4780	dc-581	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARINRVRTFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPPTFGQGTK VEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4781	dc-582	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLGYKGFAYLGSYSSYAFDLWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNS PPITFGQGTKVEIK
SEQ ID NO. 4782	dc-583	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLNRLFALDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSSGVVFGQGT KVEIK
SEQ ID NO. 4783	dc-584	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLPAGIDAGFDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCESWDDKAYWVF GQGTKVEIK
SEQ ID NO. 4784	dc-585	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLPGATSKSWYYTRGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGT GSLVFGQGTKVEIK
SEQ ID NO. 4785	dc-586	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLRGSYDYEAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWPRYT FGQGTKVEIK
SEQ ID NO. 4786	dc-587	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLRGSYYRNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCASFDLDALWVF GQGTKVEIK
SEQ ID NO. 4787	dc-588	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLTPGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSRADHWVFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4788	dc-589	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMGTIPRHHFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDNPPVSFGQ GTKVEIK
SEQ ID NO. 4789	dc-590	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMQRYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLNPVVFGQ GTKVEIK
SEQ ID NO. 4790	dc-591	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMQRYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSAVAVFG QGTKVEIK
SEQ ID NO. 4791	dc-592	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMQRYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSSHLKVFG QGTKVEIK
SEQ ID NO. 4792	dc-593	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMQRYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTVVFGQGTK VEIK
SEQ ID NO. 4793	dc-594	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMRPELDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSSTVVFGQGT KVEIK
SEQ ID NO. 4794	dc-595	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMRRSSYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSSLWVFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4795	dc-596	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMRSGGWFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSPSVVFGQ GTKVEIK
SEQ ID NO. 4796	dc-597	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMRSGGWFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWASSGWVFGQ GTKVEIK
SEQ ID NO. 4797	dc-598	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMSAGGKLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSVDSSGTWVFGQ GTKVEIK
SEQ ID NO. 4798	dc-599	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNGRTVTKGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQVNSFPPTFG QGTKVEIK
SEQ ID NO. 4799	dc-600	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNGRTVTKGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSSPPITFG QGTKVEIK
SEQ ID NO. 4800	dc-601	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRGWTGSFDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNSPPITFGQG TKVEIK
SEQ ID NO. 4801	dc-602	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRRLSPGGGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSPPITFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4802	dc-603	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRRLSPGGGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFGQG TKVEIK
SEQ ID NO. 4803	dc-604	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGQGDLNPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDVSSDPAWVF GQGTKVEIK
SEQ ID NO. 4804	dc-605	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSGWYGVSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDQWVFG QGTKVEIK
SEQ ID NO. 4805	dc-606	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNSSGYYSYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGIRIFGQGTK VEIK
SEQ ID NO. 4806	dc-607	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARPKRTVLGSTRFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGAWDSSDNAR VFGQGTKVEIK
SEQ ID NO. 4807	dc-608	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRAPGYSSGIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGIRVFGQ GTKVEIK
SEQ ID NO. 4808	dc-609	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRAVGLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHQVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4809	dc-610	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRDPGTWQFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMSYTHANTVVAF GQGTKVEIK
SEQ ID NO. 4810	dc-611	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRDYSNSYYYYYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSNA MRIFGQGTKVEIK
SEQ ID NO. 4811	dc-612	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRGGGHDGFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDTSIPHVVF GQGTKVEIK
SEQ ID NO. 4812	dc-613	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRLVSSDSPYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCENWDSNTRVFGQ GTKVEIK
SEQ ID NO. 4813	dc-614	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRMSGIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCKQYNNLPITFGQGTKV EIK
SEQ ID NO. 4814	dc-615	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRMSGIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDNLPLTFGQGTKV EIK
SEQ ID NO. 4815	dc-616	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRMSGIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWPLTFGQGTK VEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4816	dc-617	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRMSGIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNRFPLIFGQGTKV EIK
SEQ ID NO. 4817	dc-618	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRMSGIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSFPLTFGQGTKV EIK
SEQ ID NO. 4818	dc-619	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRNMLRLGRAFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGIRVFG QGTKVEIK
SEQ ID NO. 4819	dc-620	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRPTYGVPMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSAVVF GQGTKVEIK
SEQ ID NO. 4820	dc-621	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRRIGSFSLGPFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYGGYNNYVF GQGTKVEIK
SEQ ID NO. 4821	dc-622	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSGVHYRAVGGSARLTDYMDVWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQH YDNWPPTFGQGTKVEIK
SEQ ID NO. 4822	dc-623	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSHGHFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNFPLTFGQGTKV EIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4823	dc-624	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSIAAAYAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQNYSTPPWTFGQG TKVEIK
SEQ ID NO. 4824	dc-625	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSKYHYYGLSNVTYGAGFDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQY NPPPVTFGQGTKVEIK
SEQ ID NO. 4825	dc-626	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSPGLRGNDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGSYGAVGVFGQGT KVEIK
SEQ ID NO. 4826	dc-627	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSQPRPRYNYGKFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSTR VFGQGTKVEIK
SEQ ID NO. 4827	dc-628	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSRLGDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDNLPLTFGQGT KVEIK
SEQ ID NO. 4828	dc-629	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSTFYYGSGRPYSAWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSR KTVVFGQGTKVEIK
SEQ ID NO. 4829	dc-630	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTGGSSGGFALYGFGIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSD LPVVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4830	dc-631	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTLPRAGAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPPTFGQG TKVEIK
SEQ ID NO. 4831	dc-632	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTLPRAGAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSPPPTFGQG TKVEIK
SEQ ID NO. 4832	dc-633	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTLPRAGAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNSPPPTFGQGT KVEIK
SEQ ID NO. 4833	dc-634	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTRGLYFGPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLLSSSLVVF GQGTKVEIK
SEQ ID NO. 4834	dc-635	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTRGLYFGPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCNSWDSRGGHLVVFG QGTKVEIK
SEQ ID NO. 4835	dc-636	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTRGLYFGPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDYSSDLHVVFG QGTKVEIK
SEQ ID NO. 4836	dc-637	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTRGSYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTPSVVFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4837	dc-638	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTSSGSTAAPIGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDSGGSPVF GQGTKVEIK
SEQ ID NO. 4838	dc-639	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTVGPYGRTYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSPPITFGQ GTKVEIK
SEQ ID NO. 4839	dc-640	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVARGGYKTADLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLVWDSSSDHVIF GQGTKVEIK
SEQ ID NO. 4840	dc-641	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVARGGYKTADLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYGNPHTFGQ GTKVEIK
SEQ ID NO. 4841	dc-642	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVARGGYKTADLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDNSLRGSKV FGQGTKVEIK
SEQ ID NO. 4842	dc-643	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVARGSYTSWVDSPYPASARYYMDVWGQWGQGTLVTVSSGGSSR SSSSGGGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWY QQKPGQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVY YCQTWGTGIRVFGQGTKVEIK
SEQ ID NO. 4843	dc-644	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVGWNGGNHGAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCRQAMRWPVA FGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4844	dc-645	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVGWVSAPEALATTPLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQALQ PPITFGQGTKVEIK
SEQ ID NO. 4845	dc-646	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVGYASAGYQIDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSASPYV FGQGTKVEIK
SEQ ID NO. 4846	dc-647	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVLPMKLLRGEFYYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSAGVF GQGTKVEIK
SEQ ID NO. 4847	dc-648	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVPGRTRYFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNSFPPTFGQGT KVEIK
SEQ ID NO. 4848	dc-649	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVRSGYSSSQPDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCVTWDSSLSVYV FGQGTKVEIK
SEQ ID NO. 4849	dc-650	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVTSRDGYGMGVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTLVAF GQGTKVEIK
SEQ ID NO. 4850	dc-651	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARWGDSEVGNAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSYPPTFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4851	dc-652	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAYDDSLLNPGK IFGQGTKVEIK
SEQ ID NO. 4852	dc-653	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDRSSLVVFG QGTKVEIK
SEQ ID NO. 4853	dc-654	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSSVVFG QGTKVEIK
SEQ ID NO. 4854	dc-655	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFGQG TKVEIK
SEQ ID NO. 4855	dc-656	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPRTFGQ GTKVEIK
SEQ ID NO. 4856	dc-657	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSAPPYTFG QGTKVEIK
SEQ ID NO. 4857	dc-658	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLLSGHE VFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4858	dc-659	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGQVFGQ GTKVEIK
SEQ ID NO. 4859	dc-660	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASDGGGYRSYGQSMYYMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGAWD SRSNVYVFGQGTKVEIK
SEQ ID NO. 4860	dc-661	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASEGYRTDRKYWLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSNLSA GVFGQGTKVEIK
SEQ ID NO. 4861	dc-662	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASEGYRTDRKYWLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSDHT VFGQGTKVEIK
SEQ ID NO. 4862	dc-663	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASLLDYGETGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSRSDHWVFG QGTKVEIK
SEQ ID NO. 4863	dc-664	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASSIAARRYGYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSPPITFG QGTKVEIK
SEQ ID NO. 4864	dc-665	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASTGVNYRRRAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSHTSRTQVVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4865	dc-666	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASVPRTYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDDSSGGRVFGQGTK VEIK
SEQ ID NO. 4866	dc-667	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATEQPNGGWPLDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTLVFGQ GTKVEIK
SEQ ID NO. 4867	dc-668	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGGYRDSSGYMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTAEV FGQGTKVEIK
SEQ ID NO. 4868	dc-669	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGGYRGVLAGVAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTGDGSLSG VVFGQGTKVEIK
SEQ ID NO. 4869	dc-670	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGGYRGVLAGVAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTNT GVFGQGTKVEIK
SEQ ID NO. 4870	dc-671	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGISVAGKYYYYYMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCRQGKHGP WKFGQGTKVEIK
SEQ ID NO. 4871	dc-672	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSGWPVHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHVLFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4872	dc-673	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFGQ GTKVEIK
SEQ ID NO. 4873	dc-674	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPSYSF GQGTKVEIK
SEQ ID NO. 4874	dc-675	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSSPTFTF GQGTKVEIK
SEQ ID NO. 4875	dc-676	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGTSPNTFG QGTKVEIK
SEQ ID NO. 4876	dc-677	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNPSWTFG QGTKVEIK
SEQ ID NO. 4877	dc-678	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDDSTGNY VFGQGTKVEIK
SEQ ID NO. 4878	dc-679	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATPQVSGLNFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSGPHVVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4879	dc-680	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATPQVSGLNFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYGGSSPVVFGQ GTKVEIK
SEQ ID NO. 4880	dc-681	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CLDNESDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGSWDSGLQDFVFGQGTK VEIK
SEQ ID NO. 4881	dc-682	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CMRHYSSGPRAVDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPITFGQG TKVEIK
SEQ ID NO. 4882	dc-683	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CRTDKRMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTSSWVFGQG TKVEIK
SEQ ID NO. 4883	dc-684	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CSKGHSTMQYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQAGQWPRTFG QGTKVEIK
SEQ ID NO. 4884	dc-685	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CSRDRPVYSDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSGDVVFGQG TKVEIK
SEQ ID NO. 4885	dc-686	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CSTGRARVVDWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSAHVVFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4886	dc-687	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRGLGWKIEPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSPSVVFGQGT KVEIK
SEQ ID NO. 4887	dc-688	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRGLGWKIEPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTPAVVFGQG TKVEIK
SEQ ID NO. 4888	dc-689	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRGLGWKIEPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGIQVVFGQGT KVEIK
SEQ ID NO. 4889	dc-690	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRHVSWYGDSAIYYYYYGQPYGMDYWGQWGQGTLVTVSSGGSSRS SSSGGGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWY QQKPGQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVY YCQAWDTSHVVFGQGTKVEIK
SEQ ID NO. 4890	dc-691	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTTARYRGSSWPSNMHYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSLT SGVFGQGTKVEIK
SEQ ID NO. 4891	dc-692	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTTGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHLVVFGQGT KVEIK
SEQ ID NO. 4892	dc-693	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVGDHGFVHHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSSEVFGQGTK VEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4893	dc-694	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVKDQRQTWSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGQYYSSQTFGQG TKVEIK
SEQ ID NO. 4894	dc-695	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVKKHRPPVNGASYLGSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSD HWVFGQGTKVEIK
SEQ ID NO. 4895	dc-696	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVNNNTGWAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSNSPPITFGQGTK VEIK
SEQ ID NO. 4896	dc-697	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSSPMYTFG QGTKVEIK
SEQ ID NO. 4897	dc-698	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSYPWTFGQG TKVEIK
SEQ ID NO. 4898	dc-699	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNTYPWTFGQG TKVEIK
SEQ ID NO. 4899	dc-700	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYNYPWTFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4900	dc-701	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSSPPVSFGQ GTKVEIK
SEQ ID NO. 4901	dc-702	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSPDSSGNWVFGQ GTKVEIK
SEQ ID NO. 4902	dc-703	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRDRNYYRSYWKGDVFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCNSSDSYG GNTVVFGQGTKVEIK
SEQ ID NO. 4903	dc-704	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRDSGGYRDQPGYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDFTPP TFGQGTKVEIK
SEQ ID NO. 4904	dc-705	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRDYDYSQVGHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTTDRVFGQ GTKVEIK
SEQ ID NO. 4905	dc-706	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVREGFSGTWTAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEDSPPITFGQG TKVEIK
SEQ ID NO. 4906	dc-707	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRHAFFYGYYQDDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSR LPAYVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4907	dc-708	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRILFGFKGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDRSTDLVVFG QGTKVEIK
SEQ ID NO. 4908	dc-709	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRKGRSVRGADYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHWV FGQGTKVEIK
SEQ ID NO. 4909	dc-710	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRLGTAVNTSLFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQNDTSPRTFGQ GTKVEIK
SEQ ID NO. 4910	dc-711	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRMQRYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSSHLKVFG QGTKVEIK
SEQ ID NO. 4911	dc-712	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRNRGWQQFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSLDSGLKSWVFG QGTKVEIK
SEQ ID NO. 4912	dc-713	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRPLSWGAYYRALDDWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSPLPTF GQGTKVEIK
SEQ ID NO. 4913	dc-714	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRRPRWFDSAYYAPFENWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWDSRR NAVVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4914	dc-715	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRRPRWFDSAYYAPFENWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSKWP LIFGQGTKVEIK
SEQ ID NO. 4915	dc-716	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVTDSYTATAPDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQDYSPPPTFGQG TKVEIK
SEQ ID NO. 4916	dc-717	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAAKNGASLGVNLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSPSGYV FGQGTKVEIK
SEQ ID NO. 4917	dc-718	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAAKNGASLGVNLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDRSRRGVVF GQGTKVEIK
SEQ ID NO. 4918	dc-719	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAAKNGASLGVNLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDTSTVVFGQ GTKVEIK
SEQ ID NO. 4919	dc-720	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAAAKNGASLGVNLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGPGIHVVFG QGTKVEIK
SEQ ID NO. 4920	dc-721	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDSNNDPVFGQGTK VEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4921	dc-722	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCHQYDSSPETFGQGTKVEI K
SEQ ID NO. 4922	dc-723	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGTAPIAFGQGTKVEI K
SEQ ID NO. 4923	dc-724	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCYSWDSTDTVVFGQGTKV EIK
SEQ ID NO. 4924	dc-725	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADTAYSLPGDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHWVFG QGTKVEIK
SEQ ID NO. 4925	dc-726	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADTAYSLPGDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDNNSDLWVFG QGTKVEIK
SEQ ID NO. 4926	dc-727	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAGVGRIFPYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSTPLTFGQGTKV EIK
SEQ ID NO. 4927	dc-728	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKAGAVWLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDGGRGTGVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4928	dc-729	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSKVVFG QGTKVEIK
SEQ ID NO. 4929	dc-730	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTTPFWV FGQGTKVEIK
SEQ ID NO. 4930	dc-731	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGQVFGQ GTKVEIK
SEQ ID NO. 4931	dc-732	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAARDDS LNGPWVFGQGTKVEIK
SEQ ID NO. 4932	dc-733	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSP PPYTFGQGTKVEIK
SEQ ID NO. 4933	dc-734	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSS LSGSVFGQGTKVEIK
SEQ ID NO. 4934	dc-735	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDHTMLGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPTLWTFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4935	dc-736	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDISSWYKSGAFGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCHAWDSFTASV FGQGTKVEIK
SEQ ID NO. 4936	dc-737	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLGTGFMQGYWALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNW PLTFGQGTKVEIK
SEQ ID NO. 4937	dc-738	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLRFSGVFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSTPRTFGQG TKVEIK
SEQ ID NO. 4938	dc-739	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLRFSGVFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSLHRVFG QGTKVEIK
SEQ ID NO. 4939	dc-740	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLRLVRVLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWTNTYTRYVF GQGTKVEIK
SEQ ID NO. 4940	dc-741	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDSLNPYVFG QGTKVEIK
SEQ ID NO. 4941	dc-742	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLLSLLVV FGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4942	dc-743	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSKTVVFGQ GTKVEIK
SEQ ID NO. 4943	dc-744	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSPPPYTFGQ GTKVEIK
SEQ ID NO. 4944	dc-745	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSADSSAGFVVFG QGTKVEIK
SEQ ID NO. 4945	dc-746	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTGTWTLDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWPPYTFG QGTKVEIK
SEQ ID NO. 4946	dc-747	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDPSQKYYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYNWPQTFG QGTKVEIK
SEQ ID NO. 4947	dc-748	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDRPGPACNRYHNYGCNVWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWNS SSDHWVFGQGTKVEIK
SEQ ID NO. 4948	dc-749	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDRRGAGYYYFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTPLTF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4949	dc-750	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDRRNWPRGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTVVF GQGTKVEIK
SEQ ID NO. 4950	dc-751	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDRRNWPRGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYTGGSSYV FGQGTKVEIK
SEQ ID NO. 4951	dc-752	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWDS DTYVFGQGTKVEIK
SEQ ID NO. 4952	dc-753	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGAWDN SRHPEVFGQGTKVEIK
SEQ ID NO. 4953	dc-754	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDS SSTFVFGQGTKVEIK
SEQ ID NO. 4954	dc-755	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSP PITFGQGTKVEIK
SEQ ID NO. 4955	dc-756	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSP PITFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4956	dc-757	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDTH LSGPIFGQGTKVEIK
SEQ ID NO. 4957	dc-758	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCVAWDD SLNGYVFGQGTKVEIK
SEQ ID NO. 4958	dc-759	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKETTGIGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFGQGT KVEIK
SEQ ID NO. 4959	dc-760	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKETTGIGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTPYVVFG QGTKVEIK
SEQ ID NO. 4960	dc-761	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGFLSSALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSVKEQVVFG QGTKVEIK
SEQ ID NO. 4961	dc-762	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGKDYFTTGYQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSATPPTF GQGTKVEIK
SEQ ID NO. 4962	dc-763	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGSTLGGSFDNWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSPPITFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4963	dc-764	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKIWRRYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPPTFGQGTK VEIK
SEQ ID NO. 4964	dc-765	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKRHDALWAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCNSRDSTDNHQAV FGQGTKVEIK
SEQ ID NO. 4965	dc-766	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSGSIWYYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSNTANWVF GQGTKVEIK
SEQ ID NO. 4966	dc-767	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSNAATGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSAPITFGQG TKVEIK
SEQ ID NO. 4967	dc-768	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKVIPEKVAGLDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSTNHVVF GQGTKVEIK
SEQ ID NO. 4968	dc-769	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKVNIGLYGVDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTRRNTYVFG QGTKVEIK
SEQ ID NO. 4969	dc-770	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CALEKQAPGAPGMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDTLPITFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4970	dc-771	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CANYHWDDSSDGRIFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGSWVF GQGTKVEIK
SEQ ID NO. 4971	dc-772	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARAGGSGSFYRLFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLQHNSYPFTF GQGTKVEIK
SEQ ID NO. 4972	dc-773	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARANYGFDYGSTYYSGNGFDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQS YSTRYTFGQGTKVEIK
SEQ ID NO. 4973	dc-774	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARASADDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQS PATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRA TGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWDSFHTVFGQGTKVE IK
SEQ ID NO. 4974	dc-775	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDAAYGDVVRPAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLQHNSYPLT FGQGTKVEIK
SEQ ID NO. 4975	dc-776	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDAGSGLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSPGFVFGQGT KVEIK
SEQ ID NO. 4976	dc-777	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDATILGLDAHGHGFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSW PPSFTFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4977	dc-778	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDDSYRGPLHGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPT FGQGTKVEIK
SEQ ID NO. 4978	dc-779	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGGDVMPFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCKQYDSFPITFGQG TKVEIK
SEQ ID NO. 4979	dc-780	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGGVAAVDDWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTLVVFGQ GTKVEIK
SEQ ID NO. 4980	dc-781	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGLKGYFGHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSSGLVVFG QGTKVEIK
SEQ ID NO. 4981	dc-782	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGSTTGISWGYGLDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCVGWDGSL SGEVFGQGTKVEIK
SEQ ID NO. 4982	dc-783	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYNSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSY DSINRDVVFGQGTKVEIK
SEQ ID NO. 4983	dc-784	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGAW DSRSNVYVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4984	dc-785	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTW DSSLSAGVFGQGTKVEIK
SEQ ID NO. 4985	dc-786	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAW DSRTVVFGQGTKVEIK
SEQ ID NO. 4986	dc-787	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDKGGMYGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCKQYDSFPITFGQG TKVEIK
SEQ ID NO. 4987	dc-788	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLGGRFTYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQHSSPPITFGQGTKV EIK
SEQ ID NO. 4988	dc-789	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLPGYLTFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNSPGVTFGQ GTKVEIK
SEQ ID NO. 4989	dc-790	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLRGAWGPGGFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYTTPV TFGQGTKVEIK
SEQ ID NO. 4990	dc-791	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLTGYRSRSYQWDGMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCASWD DSLNSGWVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4991	dc-792	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLYAIGAGMDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGQVFGQ GTKVEIK
SEQ ID NO. 4992	dc-793	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDMAGYNWIDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDSLNLPVF GQGTKVEIK
SEQ ID NO. 4993	dc-794	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPRGWGYAYGDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDSSSGRR WVFGQGTKVEIK
SEQ ID NO. 4994	dc-795	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPSGHGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSLPRTFGQGT KVEIK
SEQ ID NO. 4995	dc-796	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDQGYYGGSRASEYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYNPPQTF GQGTKVEIK
SEQ ID NO. 4996	dc-797	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRAGDGMDGWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLNPYVVF GQGTKVEIK
SEQ ID NO. 4997	dc-798	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGGRDGYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQADNFPLTF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 4998	dc-799	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGGRDGYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEDNYPLTF GQGTKVEIK
SEQ ID NO. 4999	dc-800	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGGRDGYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEDSPPLTF GQGTKVEIK
SEQ ID NO. 5000	dc-801	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGGRDGYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFG QGTKVEIK
SEQ ID NO. 5001	dc-802	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGTFPLFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGSYADGRYVFGQG TKVEIK
SEQ ID NO. 5002	dc-803	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYRGYYAGNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSS TNHVVFGQGTKVEIK
SEQ ID NO. 5003	dc-804	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYRGYYAGNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSPP ITFGQGTKVEIK
SEQ ID NO. 5004	dc-805	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCASYTPSRNTYVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5005	dc-806	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSRTVVFGQ GTKVEIK
SEQ ID NO. 5006	dc-807	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSIWVFGQG TKVEIK
SEQ ID NO. 5007	dc-808	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTVVFGQG TKVEIK
SEQ ID NO. 5008	dc-809	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSWDSFGQVFGQG TKVEIK
SEQ ID NO. 5009	dc-810	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSMSGWIFGQ GTKVEIK
SEQ ID NO. 5010	dc-811	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGLVFGQG TKVEIK
SEQ ID NO. 5011	dc-812	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRPWMYPDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHWVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5012	dc-813	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSLTAVFGQG TKVEIK
SEQ ID NO. 5013	dc-814	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRTGITGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSATVVFGQ GTKVEIK
SEQ ID NO. 5014	dc-815	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQS YSPPPTFGQGTKVEIK
SEQ ID NO. 5015	dc-816	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQY NNWPPPRTFGQGTKVEIK
SEQ ID NO. 5016	dc-817	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSHYYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSFTPSSTFVVFGQ GTKVEIK
SEQ ID NO. 5017	dc-818	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSKGYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEDSPPITFGQGTK VEIK
SEQ ID NO. 5018	dc-819	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDVGVGATDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPITFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5019	dc-820	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREAGYYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSPPLTFGQG TKVEIK
SEQ ID NO. 5020	dc-821	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREGATGTLQGAAQYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYN NPPVTFGQGTKVEIK
SEQ ID NO. 5021	dc-822	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREIGNVYYGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSPPITFGQG TKVEIK
SEQ ID NO. 5022	dc-823	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSRLLSGG MFGQGTKVEIK
SEQ ID NO. 5023	dc-824	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLLSAW VFGQGTKVEIK
SEQ ID NO. 5024	dc-825	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSRTGVF GQGTKVEIK
SEQ ID NO. 5025	dc-826	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTVVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5026	dc-827	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSPPLTFGQ GTKVEIK
SEQ ID NO. 5027	dc-828	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERFQTISYTTGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHD HVVFGQGTKVEIK
SEQ ID NO. 5028	dc-829	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERGVTRPFYYSGYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYASP PVSFGQGTKVEIK
SEQ ID NO. 5029	dc-830	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARERYNYSRGKLGIPAMDIWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDNL PITFGQGTKVEIK
SEQ ID NO. 5030	dc-831	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREWGGSWFGMDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSPPVTFG QGTKVEIK
SEQ ID NO. 5031	dc-832	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARFRSSNRGFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGTHWPPTFGQ GTKVEIK
SEQ ID NO. 5032	dc-833	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGGYRDWLKQSYYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSRL NSAVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5033	dc-834	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGKAWGWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSTPYTFGQG TKVEIK
SEQ ID NO. 5034	dc-835	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGKAWGWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWPYTFGQ GTKVEIK
SEQ ID NO. 5035	dc-836	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGKSLGALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPITFGQGTK VEIK
SEQ ID NO. 5036	dc-837	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLRGYRGGGTYDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSS SAYVFGQGTKVEIK
SEQ ID NO. 5037	dc-838	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGPYRRSYFSYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQDNNLPIT FGQGTKVEIK
SEQ ID NO. 5038	dc-839	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGPYRRSYFSYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQENSPPVT FGQGTKVEIK
SEQ ID NO. 5039	dc-840	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRSVYYYQPFDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTPFTFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5040	dc-841	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTH RVFGQGTKVEIK
SEQ ID NO. 5041	dc-842	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNTYGT FGQGTKVEIK
SEQ ID NO. 5042	dc-843	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYISGTTH VIFGQGTKVEIK
SEQ ID NO. 5043	dc-844	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGVGARSSNLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCRQGAHWPWAFG QGTKVEIK
SEQ ID NO. 5044	dc-845	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHAADYSFSYPYASYMDPWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDS SSIVVFGQGTKVEIK
SEQ ID NO. 5045	dc-846	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGDYYDSSGRVGYYGAFDIWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQA NSPPITFGQGTKVEIK
SEQ ID NO. 5046	dc-847	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGIALPTAMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDNPPVTFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5047	dc-848	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHGVSGSSYGAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSIVVF GQGTKVEIK
SEQ ID NO. 5048	dc-849	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHHYRSSTRSHGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDNNPITF GQGTKVEIK
SEQ ID NO. 5049	dc-850	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHHYYGSGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDNPPVSFGQ GTKVEIK
SEQ ID NO. 5050	dc-851	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHIRGGMNVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSSPGGVFG QGTKVEIK
SEQ ID NO. 5051	dc-852	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHQTDRLSSGYYYPVYMDLWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWD SSTGVFGQGTKVEIK
SEQ ID NO. 5052	dc-853	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRGGGYGHYMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSSTAVF GQGTKVEIK
SEQ ID NO. 5053	dc-854	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHVTLSSWYSIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSALLEVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5054	dc-855	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHYSSSPAGDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCATWDDSLNGPVFG QGTKVEIK
SEQ ID NO. 5055	dc-856	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHYSVMWDKPVYMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSTT HVVFGQGTKVEIK
SEQ ID NO. 5056	dc-857	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARIRYWSYQDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDYSRNNWVFG QGTKVEIK
SEQ ID NO. 5057	dc-858	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARKFVGASSTFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSTPPWTFG QGTKVEIK
SEQ ID NO. 5058	dc-859	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLGGRDGYFIRKGAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQHYNNWP PTFGQGTKVEIK
SEQ ID NO. 5059	dc-860	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLGSWYAGYGAMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSAA VVFGQGTKVEIK
SEQ ID NO. 5060	dc-861	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLLSTSNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSFGGNNNWIFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5061	dc-862	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLLWSRTGHRFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNPPGYTF GQGTKVEIK
SEQ ID NO. 5062	dc-863	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLRGSYYRNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSGLPYV FGQGTKVEIK
SEQ ID NO. 5063	dc-864	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLTRAQQSSSAYRLRSSYYMDPWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQ LDRYPPTFGQGTKVEIK
SEQ ID NO. 5064	dc-865	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLTSDHSYYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWHSGDNRWVFGQ GTKVEIK
SEQ ID NO. 5065	dc-866	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMDRVGSRGYTYYSTLGSYAMDIWGQWGQGTLVTVSSGGSSRSSS SGGGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQ KPGQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYC QQAYSPPITFGQGTKVEIK
SEQ ID NO. 5066	dc-867	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMGGGNDSGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSPPVTF GQGTKVEIK
SEQ ID NO. 5067	dc-868	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMGQHSYGKNSFAVYMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQFD DLPITFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5068	dc-869	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMKTRKDWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLPSVVF GQGTKVEIK
SEQ ID NO. 5069	dc-870	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMQRYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCASYSTGSTLYVFGQ GTKVEIK
SEQ ID NO. 5070	dc-871	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARMQRYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSFGQVFGQGT KVEIK
SEQ ID NO. 5071	dc-872	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNGRTVTKGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFGQ GTKVEIK
SEQ ID NO. 5072	dc-873	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNGSLGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSPPITFGQGTK VEIK
SEQ ID NO. 5073	dc-874	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRGWTGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPPTFGQ GTKVEIK
SEQ ID NO. 5074	dc-875	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRNYSAGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPMITFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5075	dc-876	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRVPKYPMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQMWDSSSDHSVF GQGTKVEIK
SEQ ID NO. 5076	dc-877	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNRVPKYPMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHVVF GQGTKVEIK
SEQ ID NO. 5077	dc-878	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARQYISGGYSYSSRLSYGMDPWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAN SPPITFGQGTKVEIK
SEQ ID NO. 5078	dc-879	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARQYISGGYSYSSRLSYGMDPWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYS PPVTFGQGTKVEIK
SEQ ID NO. 5079	dc-880	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRLVSSDSPYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSSTRVF GQGTKVEIK
SEQ ID NO. 5080	dc-881	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRPARSSQGRPIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHW VFGQGTKVEIK
SEQ ID NO. 5081	dc-882	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSGQYAGLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPLTFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5082	dc-883	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSLNGGAGDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSPPITFGQGT KVEIK
SEQ ID NO. 5083	dc-884	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSPRPHGGPYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSTPWTFG QGTKVEIK
SEQ ID NO. 5084	dc-885	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSSGSYRPFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYDWPPTFGQG TKVEIK
SEQ ID NO. 5085	dc-886	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSSGSYRPFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTPPYTFGQ GTKVEIK
SEQ ID NO. 5086	dc-887	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSYVYRIGTWSYDVYLGDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWD SSSSDQNYVFGQGTKVEIK
SEQ ID NO. 5087	dc-888	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTRYPYSMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLRSGFFG QGTKVEIK
SEQ ID NO. 5088	dc-889	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTSSGSTAAPIGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCEAWDDNLSRRVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5089	dc-890	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVARGGYKTADLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLQGDGLPRTFGQ GTKVEIK
SEQ ID NO. 5090	dc-891	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVASSSAGGVDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWPALTFG QGTKVEIK
SEQ ID NO. 5091	dc-892	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVGYGDYGGIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSALEFGQG TKVEIK
SEQ ID NO. 5092	dc-893	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVNYRYLAGFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQTNSFPPTFGQ GTKVEIK
SEQ ID NO. 5093	dc-894	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVPRDLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSISHWVFGQGT KVEIK
SEQ ID NO. 5094	dc-895	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVPRDLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHWVFGQG TKVEIK
SEQ ID NO. 5095	dc-896	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVPRGGDKFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWHSGDNRWVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5096	dc-897	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVRGGWSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQAYSPPITFGQGTK VEIK
SEQ ID NO. 5097	dc-898	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVSHGYRSMDNWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNGWPPWTF GQGTKVEIK
SEQ ID NO. 5098	dc-899	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYRRRGDLTRRYPFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTSGTGIPV FGQGTKVEIK
SEQ ID NO. 5099	dc-900	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSTPLTFGQ GTKVEIK
SEQ ID NO. 5100	dc-901	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASDGAKYYLSYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTLVVFGQG TKVEIK
SEQ ID NO. 5101	dc-902	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASGGLYKSGQFDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSIPRTFGQG TKVEIK
SEQ ID NO. 5102	dc-903	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASHDSSGYYDWIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTYTVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5103	dc-904	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASHDSSGYYYDWIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQIWDSSSYVVF GQGTKVEIK
SEQ ID NO. 5104	dc-905	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASKTPEWEGAPFQWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDYSRNNWV FGQGTKVEIK
SEQ ID NO. 5105	dc-906	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASQYSSGWPPDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQAIPHLRLTFGQ GTKVEIK
SEQ ID NO. 5106	dc-907	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASRGRGQQVGKNWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDYSRNNWV FGQGTKVEIK
SEQ ID NO. 5107	dc-908	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASWRKGYYYGRDGYPDNWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWHSG DNRWVFGQGTKVEIK
SEQ ID NO. 5108	dc-909	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATEQPNGGWPLDSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTLAFGQ GTKVEIK
SEQ ID NO. 5109	dc-910	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSGSDHW VFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5110	dc-911	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSYNDHV VFGQGTKVEIK
SEQ ID NO. 5111	dc-912	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYASSGTWVF GQGTKVEIK
SEQ ID NO. 5112	dc-913	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAYSGVYERFFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQTQTFPPTFGQGT KVEIK
SEQ ID NO. 5113	dc-914	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CGKGGFWHPSYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSRSDHWVFG QGTKVEIK
SEQ ID NO. 5114	dc-915	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CGRADYPFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSGDDWVFGQG TKVEIK
SEQ ID NO. 5115	dc-916	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CSRERPVGSYYSGLGYPKDSWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCRVWDSS NDHWVFGQGTKVEIK
SEQ ID NO. 5116	dc-917	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CSRKYYHPNYGYSSDNWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDYSRNN WVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5117	dc-918	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRDHWYSLDAWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEDSPPITFGQGTK VEIK
SEQ ID NO. 5118	dc-919	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRENAYVSFDAVDFGMDHWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPP ITFGQGTKVEIK
SEQ ID NO. 5119	dc-920	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRGGARYALNSWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSPPITFGQGTK VEIK
SEQ ID NO. 5120	dc-921	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRGGATDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQS PATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRA TGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPKTFGQGTKVE IK
SEQ ID NO. 5121	dc-922	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRHVSWYGDSAIYYYYYGQPYGMDYWGQWGQGTLVTVSSGGSSRS SSSGGGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWY QQKPGQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVY YCQAWDSNPMVVFGQGTKVEIK
SEQ ID NO. 5122	dc-923	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRHVSWYGDSAIYYYYYGQPYGMDYWGQWGQGTLVTVSSGGSSRS SSSGGGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWY QQKPGQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVY YCQGWDSSAHVVFGQGTKVEIK
SEQ ID NO. 5123	dc-924	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRQWEAQAPFDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWNSSLSAGVF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5124	dc-925	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVKKVAGSYPYDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTDHVLFG QGTKVEIK
SEQ ID NO. 5125	dc-926	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVNNNTGWAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFGQGT KVEIK
SEQ ID NO. 5126	dc-927	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCASWDDSLNGRVFG QGTKVEIK
SEQ ID NO. 5127	dc-928	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSRGWVF GQGTKVEIK
SEQ ID NO. 5128	dc-929	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLQYYTPARVFGQG TKVEIK
SEQ ID NO. 5129	dc-930	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGAHWPWAFGQ GTKVEIK
SEQ ID NO. 5130	dc-931	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPRTFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5131	dc-932	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSTPWTFGQG TKVEIK
SEQ ID NO. 5132	dc-933	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGRSMWTFGQ GTKVEIK
SEQ ID NO. 5133	dc-934	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNYPWTFGQ GTKVEIK
SEQ ID NO. 5134	dc-935	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTPQWTFGQ GTKVEIK
SEQ ID NO. 5135	dc-936	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTPTFGQGT KVEIK
SEQ ID NO. 5136	dc-937	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHWVF GQGTKVEIK
SEQ ID NO. 5137	dc-938	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYATSRPKFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5138	dc-939	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTPYVFGQ GTKVEIK
SEQ ID NO. 5139	dc-940	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRDSTYYGLDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTTAATLVFGQG TKVEIK
SEQ ID NO. 5140	dc-941	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRDSVGYRDQPGYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSRT GVFGQGTKVEIK
SEQ ID NO. 5141	dc-942	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVREGFSGTWTAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPPTFGQG TKVEIK
SEQ ID NO. 5142	dc-943	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRHSTVPDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDSPPLTFGQGTKV EIK
SEQ ID NO. 5143	dc-944	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDHTMLGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSSTDVVF GQGTKVEIK
SEQ ID NO. 5144	dc-945	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDHTMLGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRANWPLTFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5145	dc-946	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQVGSTPYTFGQGT KVEIK
SEQ ID NO. 5146	dc-947	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLLSPLVVFG QGTKVEIK
SEQ ID NO. 5147	dc-948	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSNAVFGQGT KVEIK
SEQ ID NO. 5148	dc-949	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCHQSSRF PITFGQGTKVEIK
SEQ ID NO. 5149	dc-950	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYST PPMYSFGQGTKVEIK
SEQ ID NO. 5150	dc-951	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVLDSS DDHPVVFGQGTKVEIK
SEQ ID NO. 5151	dc-952	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKETTGIGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCASWDDSLSGWVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5152	dc-953	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGGYGHSGYAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAVWDDSLSGY VFGQGTKVEIK
SEQ ID NO. 5153	dc-954	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGLIDRYTRTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSFPVTFGQ GTKVEIK
SEQ ID NO. 5154	dc-955	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSDEYRAVGPYDYWSYAAFDYWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQS WGDAYYVFGQGTKVEIK
SEQ ID NO. 5155	dc-956	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKVLSGTRATLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTLHGVFG QGTKVEIK
SEQ ID NO. 5156	dc-957	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSAD AGDNNLLFGQGTKVEIK
SEQ ID NO. 5157	dc-958	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPGYRNDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQEDSRPRTFGQGT KVEIK
SEQ ID NO. 5158	dc-959	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQY FSTPSFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5159	dc-960	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDTDGYRSSFYSTAYWMDPWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTS SSTLVFGQGTKVEIK
SEQ ID NO. 5160	dc-961	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARFRMSSDVYYNPAYMDIWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTHNT TWVFGQGTKVEIK
SEQ ID NO. 5161	dc-962	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGHYRRTGEGMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWTPP YTFGQGTKVEIK
SEQ ID NO. 5162	dc-963	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSSSH VVFGQGTKVEIK
SEQ ID NO. 5163	dc-964	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSTTQVFGQ GTKVEIK
SEQ ID NO. 5164	dc-965	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGGYRGVLAGVAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSTS EVFGQGTKVEIK
SEQ ID NO. 5165	dc-966	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CSKGHSTMQYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSFADSRYIFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5166	dc-967	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDSSGRWVFGQGTK VEIK
SEQ ID NO. 5167	dc-968	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTTPYTFGQGTKVE IK
SEQ ID NO. 5168	dc-969	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CADLQYDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQSP ATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRAT GIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSDGVVFGQGTKV EIK
SEQ ID NO. 5169	dc-970	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAHRLWTTGWGRDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWTTGHW VFGQGTKVEIK
SEQ ID NO. 5170	dc-971	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKAIDALAAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSSHHLVV FGQGTKVEIK
SEQ ID NO. 5171	dc-972	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKAIDALAAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSSLSVVF GQGTKVEIK
SEQ ID NO. 5172	dc-973	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDFRGGGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSSPRWTFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5173	dc-974	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDFRGGGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSGWVFG QGTKVEIK
SEQ ID NO. 5174	dc-975	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGKQWPKAFG QGTKVEIK
SEQ ID NO. 5175	dc-976	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTTVVFG QGTKVEIK
SEQ ID NO. 5176	dc-977	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGGGVYTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSIRRVFG QGTKVEIK
SEQ ID NO. 5177	dc-978	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRGN WPRLFSFGQGTKVEIK
SEQ ID NO. 5178	dc-979	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDS SSGHRVVFGQGTKVEIK
SEQ ID NO. 5179	dc-980	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDGHWYRGYYGSYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDS SSNVVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5180	dc-981	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDHTMLGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSMGTWV FGQGTKVEIK
SEQ ID NO. 5181	dc-982	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDHTMLGSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCKHHNSDRWTFG QGTKVEIK
SEQ ID NO. 5182	dc-983	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDISSWYKSGAFGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYHNRPLW TFGQGTKVEIK
SEQ ID NO. 5183	dc-984	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDISSWYKSGAFGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSAASSGSVV FGQGTKVEIK
SEQ ID NO. 5184	dc-985	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLGFTRGFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSSDWVFGQ GTKVEIK
SEQ ID NO. 5185	dc-986	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDS LSSGGVFGQGTKVEIK
SEQ ID NO. 5186	dc-987	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAEWADSLSGGVFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5187	dc-988	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQLRGYPLTFGQGT KVEIK
SEQ ID NO. 5188	dc-989	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSDSTLSWSFGQG TKVEIK
SEQ ID NO. 5189	dc-990	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLIYTAQDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSQGANWPWVFGQG TKVEIK
SEQ ID NO. 5190	dc-991	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLRFSGVFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSGPGWVFG QGTKVEIK
SEQ ID NO. 5191	dc-992	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCATGDDSRNGVVFG QGTKVEIK
SEQ ID NO. 5192	dc-993	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCEAWDDSSIGWVFG QGTKVEIK
SEQ ID NO. 5193	dc-994	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQSIQPGWTFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5194	dc-995	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSPDDVFGQ GTKVEIK
SEQ ID NO. 5195	dc-996	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAYDSGNIVFGQG TKVEIK
SEQ ID NO. 5196	dc-997	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQEWDSSIGVFGQG TKVEIK
SEQ ID NO. 5197	dc-998	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQPYDSSSSGPYVFG QGTKVEIK
SEQ ID NO. 5198	dc-999	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYTPTYTFGQG TKVEIK
SEQ ID NO. 5199	dc-1000	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNWPPYTFGQ GTKVEIK
SEQ ID NO. 5200	dc-1001	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDNTLRGSIFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5201	dc-1002	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSSLSAYVFG QGTKVEIK
SEQ ID NO. 5202	dc-1003	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDTSRGIKVFGQ GTKVEIK
SEQ ID NO. 5203	dc-1004	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSSTGVFGQG TKVEIK
SEQ ID NO. 5204	dc-1005	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHPSWV FGQGTKVEIK
SEQ ID NO. 5205	dc-1006	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTFARALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTEGVFGQ GTKVEIK
SEQ ID NO. 5206	dc-1007	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLTQLYFAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGTWGWV FGQGTKVEIK
SEQ ID NO. 5207	dc-1008	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDLVTGSLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWPPPAFTFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5208	dc-1009	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDQEGYRAYGYNGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQANSTP LTFGQGTKVEIK
SEQ ID NO. 5209	dc-1010	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDQEGYRAYGYNGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDAN NVVFGQGTKVEIK
SEQ ID NO. 5210	dc-1011	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDQSGTIALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSPVVFGQG TKVEIK
SEQ ID NO. 5211	dc-1012	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDRRGAGYYYFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYGSPLTF GQGTKVEIK
SEQ ID NO. 5212	dc-1013	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDSAAAAADYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTNTNTLVVFG QGTKVEIK
SEQ ID NO. 5213	dc-1014	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDTSRYSLAFGFGDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSPYVV FGQGTKVEIK
SEQ ID NO. 5214	dc-1015	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDD SLNGHYVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5215	dc-1016	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAEWAD SLSGGVFGQGTKVEIK
SEQ ID NO. 5216	dc-1017	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCEAWDD SLSGYVVFGQGTKVEIK
SEQ ID NO. 5217	dc-1018	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCESYDSS RNVVFGQGTKVEIK
SEQ ID NO. 5218	dc-1019	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDS NPAVVFGQGTKVEIK
SEQ ID NO. 5219	dc-1020	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNN PLFTFGQGTKVEIK
SEQ ID NO. 5220	dc-1021	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSS LWTFGQGTKVEIK
SEQ ID NO. 5221	dc-1022	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWDSF GQVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5222	dc-1023	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYASN THVKFGQGTKVEIK
SEQ ID NO. 5223	dc-1024	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKDWGWYRGYGHAGAVDIWGQWGQGTLVTVSSGGSSRSSSSGGGG SGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQA PRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSS THVVFGQGTKVEIK
SEQ ID NO. 5224	dc-1025	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKETTGIGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWWPAITFG QGTKVEIK
SEQ ID NO. 5225	dc-1026	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKETTGIGAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSHHWVF GQGTKVEIK
SEQ ID NO. 5226	dc-1027	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGFLSSALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQHYHNSVPVTFGQG TKVEIK
SEQ ID NO. 5227	dc-1028	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGFLSSALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWPPAFNFGQ GTKVEIK
SEQ ID NO. 5228	dc-1029	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGFLSSALDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSPSGLTFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5229	dc-1030	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGGWAYIFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSSGDGAGV FGQGTKVEIK
SEQ ID NO. 5230	dc-1031	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGHSSTYVIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSSAAVF GQGTKVEIK
SEQ ID NO. 5231	dc-1032	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGSPSGLYSLDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNNGPITFGQ GTKVEIK
SEQ ID NO. 5232	dc-1033	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKGYGPANAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSSHLVFG QGTKVEIK
SEQ ID NO. 5233	dc-1034	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKMDSYYAYGLDFWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSTNTLVFGQ GTKVEIK
SEQ ID NO. 5234	dc-1035	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKQNAISLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGTHWHLAFGQGT KVEIK
SEQ ID NO. 5235	dc-1036	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKQNAISLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCTTWDSLNGEVFGQGT KVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5236	dc-1037	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKRANGHTTFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGIRVFGQ GTKVEIK
SEQ ID NO. 5237	dc-1038	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKRHDALWAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSRMGAWV FGQGTKVEIK
SEQ ID NO. 5238	dc-1039	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKRPPISWGPAFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSLNNLW VFGQGTKVEIK
SEQ ID NO. 5239	dc-1040	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSDEYRAVGPYDYWSYAAFDYWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQS YDSSLSGSYVFGQGTKVEIK
SEQ ID NO. 5240	dc-1041	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSIGWIGLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYSSSLVAFGQGT KVEIK
SEQ ID NO. 5241	dc-1042	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKSLWGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWESSNHLVVFGQ GTKVEIK
SEQ ID NO. 5242	dc-1043	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAKYVYYGSYLRYAMDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAASDDSLN SWVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5243	dc-1044	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARAGGSGSFYRLFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYGIPLTFG QGTKVEIK
SEQ ID NO. 5244	dc-1045	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARASADDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQS PATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRA TGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSLRVFGQGTKVE IK
SEQ ID NO. 5245	dc-1046	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARAYTGRSGLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTPFPFGQ GTKVEIK
SEQ ID NO. 5246	dc-1047	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDARYVPDDGWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHVVFG QGTKVEIK
SEQ ID NO. 5247	dc-1048	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDDSYRGPLHGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGAWETSLS GGVFGQGTKVEIK
SEQ ID NO. 5248	dc-1049	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDDSYRGPLHGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSD HGVFGQGTKVEIK
SEQ ID NO. 5249	dc-1050	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGLGYRNLFGSHVSRWFDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSY DSSLSDVVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5250	dc-1051	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAW DSRSLVVFGQGTKVEIK
SEQ ID NO. 5251	dc-1052	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQA KSFPLTFGQGTKVEIK
SEQ ID NO. 5252	dc-1053	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQY CASPQTFGQGTKVEIK
SEQ ID NO. 5253	dc-1054	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQY GSWPLAVTFGQGTKVEIK
SEQ ID NO. 5254	dc-1055	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDGYFYRRNVTTYYSSYMDYWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVW DSSTDLVVFGQGTKVEIK
SEQ ID NO. 5255	dc-1056	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDHRLVPVAAQLYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPITFGQ GTKVEIK
SEQ ID NO. 5256	dc-1057	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLHYYVAMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGTHPPPTFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5257	dc-1058	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDLRGYRGGGTYDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS LSAGVFGQGTKVEIK
SEQ ID NO. 5258	dc-1059	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPSGHGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSTSPWVFGQ GTKVEIK
SEQ ID NO. 5259	dc-1060	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPSGSLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWQGTNSLVVFGQ GTKVEIK
SEQ ID NO. 5260	dc-1061	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDPTGYRLSSLYYYAGFAYGMDVWGQWGQGTLVTVSSGGSSRSSS SGGGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQ KPGQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCE TWDSNTQVFGQGTKVEIK
SEQ ID NO. 5261	dc-1062	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDQTYYDSSLSYGYAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWDSN TRVFGQGTKVEIK
SEQ ID NO. 5262	dc-1063	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYRGYYAGNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS LSSGVFGQGTKVEIK
SEQ ID NO. 5263	dc-1064	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRGYRGYYAGNWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGVWDSS SDHSVVFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5264	dc-1065	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRYSPNFTFGQG TKVEIK
SEQ ID NO. 5265	dc-1066	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRIVPAGSDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYRASQSFGQG TKVEIK
SEQ ID NO. 5266	dc-1067	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRKDFRMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDNSLNTGGVF GQGTKVEIK
SEQ ID NO. 5267	dc-1068	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRKSTPPDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYDSSSGNKVFGQ GTKVEIK
SEQ ID NO. 5268	dc-1069	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSDVVFGQG TKVEIK
SEQ ID NO. 5269	dc-1070	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDRRDLTLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSHDGVVFG QGTKVEIK
SEQ ID NO. 5270	dc-1071	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRSPVYYDYYYRESDRYGMDVWGQWGQGTLVTVSSGGSS RSSSSGGGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAW YQQKPGQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAV YYCQQALSSSPWTFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5271	dc-1072	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCEAW HDSGSGFVFGQGTKVEIK
SEQ ID NO. 5272	dc-1073	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQS YSTPRPTFGQGTKVEIK
SEQ ID NO. 5273	dc-1074	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVW DRSSSHVVFGQGTKVEIK
SEQ ID NO. 5274	dc-1075	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSGGYRTSGPYFQGYAMDVWGQWGQGTLVTVSSGGSSRSSSSGG GGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPG QAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVW DSSSDHPVFGQGTKVEIK
SEQ ID NO. 5275	dc-1076	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARDSTIYSTDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTNTNTLVVFGQ GTKVEIK
SEQ ID NO. 5276	dc-1077	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREPYRVRLFRYMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSDHY VFGQGTKVEIK
SEQ ID NO. 5277	dc-1078	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CAREQYYSSSGALAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSTVVFG QGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5278	dc-1079	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGAYRRVPKMFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPITFGQ GTKVEIK
SEQ ID NO. 5279	dc-1080	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGDYRVTGSTTYFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSSTPR LSFGQGTKVEIK
SEQ ID NO. 5280	dc-1081	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGGSWGYWMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNPPSFTFGQ GTKVEIK
SEQ ID NO. 5281	dc-1082	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGKAWGWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWDSNSWVFGQ GTKVEIK
SEQ ID NO. 5282	dc-1083	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLRGYRGGGTYDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSS LSDWVFGQGTKVEIK
SEQ ID NO. 5283	dc-1084	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLRGYRGGGTYDAFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGS GGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAP RLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSS SDHLYVFGQGTKVEIK
SEQ ID NO. 5284	dc-1085	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLRWGAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQSYSPPISFGQGTK VEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5285	dc-1086	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLYRGFGVGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGANGPPVFG QGTKVEIK
SEQ ID NO. 5286	dc-1087	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGLYRGFGVGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYSTTALTFG QGTKVEIK
SEQ ID NO. 5287	dc-1088	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGPEDMLSFDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQALDSSTGVVFGQ GTKVEIK
SEQ ID NO. 5288	dc-1089	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRDSGSFIIDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSYSTHVFGQ GTKVEIK
SEQ ID NO. 5289	dc-1090	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRQGFASGGVDLWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDRNSDRV FGQGTKVEIK
SEQ ID NO. 5290	dc-1091	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGRYRGFGVGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSNSAVV FGQGTKVEIK
SEQ ID NO. 5291	dc-1092	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGSYRTSSSKQYLDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQSYDSNLSGP VFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5292	dc-1093	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGSYRTSSSKQYLDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTYDNGLRGS IFGQGTKVEIK
SEQ ID NO. 5293	dc-1094	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCNSYAGSGY VFGQGTKVEIK
SEQ ID NO. 5294	dc-1095	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSTG YVFGQGTKVEIK
SEQ ID NO. 5295	dc-1096	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYHNTPTF GQGTKVEIK
SEQ ID NO. 5296	dc-1097	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSFPPT FGQGTKVEIK
SEQ ID NO. 5297	dc-1098	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARGTNSYRRLVYDAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSGST RLGVFGQGTKVEIK
SEQ ID NO. 5298	dc-1099	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHHPSAAGAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQNYSTPWTFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5299	dc-1100	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHPLYRNAADDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDYSRNNWV FGQGTKVEIK
SEQ ID NO. 5300	dc-1101	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRGPAAGRFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCETWDGSLSTVVF GQGTKVEIK
SEQ ID NO. 5301	dc-1102	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRGPAAGRFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDGSSVVFG QGTKVEIK
SEQ ID NO. 5302	dc-1103	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARHRGPAAGRFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSTYTFGQ GTKVEIK
SEQ ID NO. 5303	dc-1104	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARIPNRSHGGWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSSLSANV FGQGTKVEIK
SEQ ID NO. 5304	dc-1105	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARKEYRTFDSPYTLYRSSAYFDYWGQWGQGTLVTVSSGGSSRSSSSG GGGSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKP GQAPRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQS ADSSGPVFGQGTKVEIK
SEQ ID NO. 5305	dc-1106	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARKRPRPPYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDHQVFGQG TKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5306	dc-1107	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLGPHYGMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQTWGTGDVVFGQ GTKVEIK
SEQ ID NO. 5307	dc-1108	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARLHLRGSIGLPPDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYKRNPRTFG QGTKVEIK
SEQ ID NO. 5308	dc-1109	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARNAVAGTWLSSFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVLDSSSDDV VFGQGTKVEIK
SEQ ID NO. 5309	dc-1110	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARQYSSGWPWFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPFTFGQ GTKVEIK
SEQ ID NO. 5310	dc-1111	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRDPGTWQFDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEI VLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQARQTPVTFGQ GTKVEIK
SEQ ID NO. 5311	dc-1112	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRDSGNMYGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDSRSRLYMFG QGTKVEIK
SEQ ID NO. 5312	dc-1113	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRIRANSRYSPDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSRLSTGMF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5313	dc-1114	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRIRANSRYSPDPWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYDPPWTFGQ GTKVEIK
SEQ ID NO. 5314	dc-1115	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRLRGRAMETDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSRHDHWV FGQGTKVEIK
SEQ ID NO. 5315	dc-1116	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARRSGSGWLHYYKDYYMDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSN WPRMITFGQGTKVEIK
SEQ ID NO. 5316	dc-1117	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSRAGYRVDYLAWSGLFDYWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSTYDN SQRNGGSVFGQGTKVEIK
SEQ ID NO. 5317	dc-1118	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARSYVYRIGTWSYDVYLGDVWGQWGQGTLVTVSSGGSSRSSSSGGG GSGGGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQ APRLLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWD SSSDHYVFGQGTKVEIK
SEQ ID NO. 5318	dc-1119	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTMRGQLGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRSNWPGPFTFGQ GTKVEIK
SEQ ID NO. 5319	dc-1120	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARTRYPYSMDVWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYDSSSGFVVFGQ GTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5320	dc-1121	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVLSSRSWGSGYFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQHKNSYPLI FGQGTKVEIK
SEQ ID NO. 5321	dc-1122	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARVSYGGLGSLDFYFQHWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQAWDSSG VVFGQGTKVEIK
SEQ ID NO. 5322	dc-1123	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYTWIGFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLT QSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASS RATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQHYYTVPFTFGQGTK VEIK
SEQ ID NO. 5323	dc-1124	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAARDDNLDGWV FGQGTKVEIK
SEQ ID NO. 5324	dc-1125	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CARYYDPTGYLTDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGE IVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYG ASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQHYSTPRTFGQ GTKVEIK
SEQ ID NO. 5325	dc-1126	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASEGYRTDRKYWLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCGTWDSGSSAG IFGQGTKVEIK
SEQ ID NO. 5326	dc-1127	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CASEGYRTDRKYWLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCMQGAPRPFTF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5327	dc-1128	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGGYRDSSGYMDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGG GEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLI YGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSDH VVFGQGTKVEIK
SEQ ID NO. 5328	dc-1129	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGGYRGVLAGVAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCAAWDDSLS GFYVFGQGTKVEIK
SEQ ID NO. 5329	dc-1130	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGGYRGVLAGVAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLLSYSGARH VFGQGTKVEIK
SEQ ID NO. 5330	dc-1131	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGGYRGVLAGVAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYENYPL TFGQGTKVEIK
SEQ ID NO. 5331	dc-1132	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGGYRGVLAGVAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSSS HLVVFGQGTKVEIK
SEQ ID NO. 5332	dc-1133	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGGYRGVLAGVAFDIWGQWGQGTLVTVSSGGSSRSSSSGGGGSGG GGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRL LIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSTA VFGQGTKVEIK
SEQ ID NO. 5333	dc-1134	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCNSRDSRGEHVIF GQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5334	dc-1135	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYDDLPITFG QGTKVEIK
SEQ ID NO. 5335	dc-1136	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATGSYRKYAGGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGG EIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIY GASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGSSPKTFG QGTKVEIK
SEQ ID NO. 5336	dc-1137	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CATLGPNDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQS PATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSRA TGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCLQYNSTPWTFGQGTKVE IK
SEQ ID NO. 5337	dc-1138	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CSRKVGAFGNWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCTSYTSSSELYAFGQGT KVEIK
SEQ ID NO. 5338	dc-1139	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CTRDFIGRGFDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQRYSAPYTFGQGT KVEIK
SEQ ID NO. 5339	dc-1140	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRAFSYSWPFDHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIV LTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGA SSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYKNWHPTWSF GQGTKVEIK
SEQ ID NO. 5340	dc-1141	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRDSVGYRDQPGYYLDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYNSYPS TFGQGTKVEIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5341	dc-1142	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRKNQTAGGHWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSRADHWVFG QGTKVEIK
SEQ ID NO. 5342	dc-1143	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRRGAKGLGYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCRQGSRWPWAFGQG TKVEIK
SEQ ID NO. 5343	dc-1144	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVRRPRWFDSAYYAPFENWGQWGQGTLVTVSSGGSSRSSSSGGGGSG GGGEIVLTQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPR LLIYGASSRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCSSYTSSSTL VFGQGTKVEIK
SEQ ID NO. 5344	dc-1145	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVSDKSGSGFLYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVL TQSPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGAS SRATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCASFDSSSLSAWVFG QGTKVEIK
SEQ ID NO. 5345	dc-1146	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVTYFGRKDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQQYYTSPNTFGQGTKV EIK
SEQ ID NO. 5346	dc-1147	QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEW VAVISYDGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYY CVTYFGRKDYWGQWGQGTLVTVSSGGSSRSSSSGGGGSGGGGEIVLTQ SPATLSLSPGERATLSCRASQSVSSSYLAWYQQKPGQAPRLLIYGASSR ATGIPARFSGSGSGTDFTLTISRLEPEDFAVYYCQVWDSSLDLWVFGQG TKVEIK
SEQ ID NO. 5347	T109-C03	WTQPGNIVTNGA
SEQ ID NO. 5348	T109-C06	GDLLKIQFGGA
SEQ ID NO. 5349	T109-C12	SMSQSLSLA
SEQ ID NO. 5350	T109-F03	SSTENFITLVDLV
SEQ ID NO. 5351	T109-F04	GTHVIAAAR
SEQ ID NO. 5352	T109-H01	RDEFLALLVEHLRE

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5353	T109-H11	SAEDYVRQS
SEQ ID NO. 5354	T109-C06	GDLLKIQFGGA
SEQ ID NO. 5355	T109-C12	SMSQSLSLA
SEQ ID NO. 5356	T109-F03	SSTENFITLVDLV
SEQ ID NO. 5357	T109-F04	GTHVIAAAR
SEQ ID NO. 5358	T109-H01	RDEFLALLVEHLRE
SEQ ID NO. 5359	T109-H11	SAEDYVRQS
SEQ ID NO. 5360	C1R4-C02	SIYQDQEQRILKFLEEL
SEQ ID NO. 5361	C1R4-C08	DILKVLFKEFIEISLW
SEQ ID NO. 5362	C1R4-D06	KTMVDELFAEIVRQMNY
SEQ ID NO. 5363	C1R4-G11	FADYNLLDLLLIHQVL
SEQ ID NO. 5364	C1R2-A07	EDGVMARQLVYTIAD
SEQ ID NO. 5365	C1R2-A12	TSMATPHVSGVATLVW
SEQ ID NO. 5366	C1R2-B10	RLDRYADLIQKL
SEQ ID NO. 5367	C1R2-C09	YENGAMLEPLSVALAGLQRA
SEQ ID NO. 5368	C1R2-D03	EKETKEMVAFLN
SEQ ID NO. 5369	C1R2-D04	RSEAIRDLIRDFIIRH
SEQ ID NO. 5370	C1R2-D07	TIDILTAIRNAT
SEQ ID NO. 5371	C1R2-D11	VDGAIHRAA
SEQ ID NO. 5372	C1R2-D12	TIDILTAIRNAT
SEQ ID NO. 5373	C1R2-E02	YQYLAARLAIFHLRKKAY
SEQ ID NO. 5374	C1R2-E06	VGPAIARDIINLYNQH
SEQ ID NO. 5375	C1R2-E10	DMIFEIFKNYLTKVAYYARQ
SEQ ID NO. 5376	C1R2-F02	LGEWIALNVFEFFTNLNQFY
SEQ ID NO. 5377	C1R2-F05	FAFALRKAQDT
SEQ ID NO. 5378	C1R2-F07	GEELILKGIEAFKNWLKK
SEQ ID NO. 5379	C1R2-F12	FAFALRKAQDT
SEQ ID NO. 5380	C1R2-G09	HRELVHPDALNRFGKT
SEQ ID NO. 5381	C1R2-G12	TRKALNYVPKLFEELRKTY
SEQ ID NO. 5382	C1R2-H10	RENVDRVTEALRAALQH

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5383	C1R4-C02	SIYQDQEQRILKFLEEL
SEQ ID NO. 5384	C1R4-C03	TEKYLDFMPKLFDAVRNK
SEQ ID NO. 5385	C1R4-C08	DILKVLFKEFIEISLW
SEQ ID NO. 5386	C1R4-D06	KTMVDELFAEIVRQMNY
SEQ ID NO. 5387	C1R4-D09	GAVSLASMLTEIFLLQQAQ
SEQ ID NO. 5388	C1R4-G11	PAFYLTASQQRWEEYLKKG
SEQ ID NO. 5389	C1R2-A07	EDGVMARQLVYTIAD
SEQ ID NO. 5390	C1R2-A12	TSMATPHVSGVATLVW
SEQ ID NO. 5391	C1R2-B10	RLDRYADLIQKL
SEQ ID NO. 5392	C1R2-C09	YENGAMLEPLSVALAGLQRA
SEQ ID NO. 5393	C1R2-D03	EKETKEMVAFLN
SEQ ID NO. 5394	C1R2-D04	RSEAIRDLIRDFIIRH
SEQ ID NO. 5395	C1R2-D07	TIDILTAIRNAT
SEQ ID NO. 5396	C1R2-D11	VDGAIHRAA
SEQ ID NO. 5397	C1R2-D12	TIDILTAIRNAT
SEQ ID NO. 5398	C1R2-E02	SLYSGSKGAVDSFVRIFSKD
SEQ ID NO. 5399	C1R2-E06	VGPAIARDIINLYNQH
SEQ ID NO. 5400	C1R2-E10	DMIFEIFKNYLTKVAYYARQ
SEQ ID NO. 5401	C1R2-F02	LGEWIALNVFEFFTNLNQFY
SEQ ID NO. 5402	C1R2-F05	FAFALRKAQDT
SEQ ID NO. 5403	C1R2-F07	AQRRKMAQENPKMHNSEIL
SEQ ID NO. 5404	C1R2-F12	FAFALRKAQDT
SEQ ID NO. 5405	C1R2-G08	KLKDLSRFDASFFGVH
SEQ ID NO. 5406	C1R2-G09	HRELVHPDALNRFGKT
SEQ ID NO. 5407	C1R2-G12	TRKALNYVPKLFEELRKTY
SEQ ID NO. 5408	C1R2-H10	AKGREEEARKLLRWGQQN
SEQ ID NO. 5409	T18-A03	QTSLDAAQTLIRGA
SEQ ID NO. 5410	T18-A04	LPLVDFIIQN
SEQ ID NO. 5411	T18-A09	SSVVRGKMDGGW
SEQ ID NO. 5412	T18-A10	RDTIINTLKKASKL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5413	T18-A11	HGDLQRWQSALDA
SEQ ID NO. 5414	T18-B01	DGEIKELLEK
SEQ ID NO. 5415	T18-B05	AMVLESVMFAILAE
SEQ ID NO. 5416	T18-B06	LRLFVRIGAM
SEQ ID NO. 5417	T18-B07	PIKALMRYSEN
SEQ ID NO. 5418	T18-B09	GPQVGYLSEAFEA
SEQ ID NO. 5419	T18-B10	KSVIEALKHGGL
SEQ ID NO. 5420	T18-B12	PDAQNALLSSLSEQ
SEQ ID NO. 5421	T18-C03	TNADLLARAAS
SEQ ID NO. 5422	T18-C04	NAGALAVHQL
SEQ ID NO. 5423	T18-C07	IPEALRLLLQAL
SEQ ID NO. 5424	T18-C11	PVGLAAAASARL
SEQ ID NO. 5425	T18-D03	FAAIESVAKNIQ
SEQ ID NO. 5426	T18-D04	VEEDVQLLKDL
SEQ ID NO. 5427	T18-D06	HLELLLRDLEDSR
SEQ ID NO. 5428	T18-D07	KIAQHTADYEERF
SEQ ID NO. 5429	T18-D08	SGVAALIKVLLSL
SEQ ID NO. 5430	T18-D09	TARARKFANRIHGRF
SEQ ID NO. 5431	T18-D11	SFLARNRLVIAL
SEQ ID NO. 5432	T18-E02	AAEAAKVALE
SEQ ID NO. 5433	T18-E04	NIGASLAKRLEQT
SEQ ID NO. 5434	T18-E05	EADIKERKELLRKF
SEQ ID NO. 5435	T18-E06	DGEIKELLEK
SEQ ID NO. 5436	T18-E08	AARMATYMDTIDYF
SEQ ID NO. 5437	T18-E09	EFLLTGVLK
SEQ ID NO. 5438	T18-E10	ALGTIRDII
SEQ ID NO. 5439	T18-E11	PVDVITAIKA
SEQ ID NO. 5440	T18-F01	WNMLRGNATQAA
SEQ ID NO. 5441	T18-F02	SEPAWATALSVFAA
SEQ ID NO. 5442	T18-F06	SAAAKKLINDY

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5443	T18-F07	SAEILSAS
SEQ ID NO. 5444	T18-F09	DGTFLRAAELARN
SEQ ID NO. 5445	T18-F10	RTELMQAS
SEQ ID NO. 5446	T18-G04	QQNLILHYQAV
SEQ ID NO. 5447	T18-G09	ARAYYLLGLAYDG
SEQ ID NO. 5448	T18-G10	TEIAVDIARSVE
SEQ ID NO. 5449	T18-H01	QQGQALAATAN
SEQ ID NO. 5450	T18-H03	SQDIRALADA
SEQ ID NO. 5451	T18-H05	GYSLVARK
SEQ ID NO. 5452	T18-H07	WPKERDAATL
SEQ ID NO. 5453	T18-H08	IPHVQRLIG
SEQ ID NO. 5454	T18-H10	DLAVVKAA
SEQ ID NO. 5455	T18-H12	TPGMIMASEALLRK
SEQ ID NO. 5456	T110-A01	AEQFIGMSGSGYS
SEQ ID NO. 5457	T110-A02	KEEIEEVVSETV
SEQ ID NO. 5458	T110-A03	QEGMYQHFKAIAE
SEQ ID NO. 5459	T110-A06	ASLAALAL
SEQ ID NO. 5460	T110-A09	SRATLANIDRAREQ
SEQ ID NO. 5461	T110-A11	NVADIIRRVW
SEQ ID NO. 5462	T110-A12	ILDASLELF
SEQ ID NO. 5463	T110-B02	KTQLIDVIAEK
SEQ ID NO. 5464	T110-B05	IEAFFRLVKR
SEQ ID NO. 5465	T110-B06	AEEKSRARRHLRT
SEQ ID NO. 5466	T110-B07	RDEIFATINE
SEQ ID NO. 5467	T110-B10	LASRFFAMKRS
SEQ ID NO. 5468	T110-C01	QVTIDSALATQKY
SEQ ID NO. 5469	T110-C03	SFVLQKIVSAI
SEQ ID NO. 5470	T110-C04	DVMKKASELQK
SEQ ID NO. 5471	T110-C06	WGALRYIRDLAAD
SEQ ID NO. 5472	T110-C07	RKIMSLSNKL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5473	T110-C08	QEDLAREKA
SEQ ID NO. 5474	T110-C10	PLAGILFIIEE
SEQ ID NO. 5475	T110-D02	AEEKFKEIAEAYDV
SEQ ID NO. 5476	T110-D04	KVKQADALSSKT
SEQ ID NO. 5477	T110-D06	SQGQSYGMFSALA
SEQ ID NO. 5478	T110-D08	QEAAQKVVEQ
SEQ ID NO. 5479	T110-D09	GQAAAATLL
SEQ ID NO. 5480	T110-D10	EAILAAKAAG
SEQ ID NO. 5481	T110-D11	EYARILEERATS
SEQ ID NO. 5482	T110-E01	QGIIDHFQKA
SEQ ID NO. 5483	T110-E06	DIALWSGLAG
SEQ ID NO. 5484	T110-E07	AKAHYDGIVAFS
SEQ ID NO. 5485	T110-E08	AARMATYMDTIDYF
SEQ ID NO. 5486	T110-E09	VPQAMTAFAEFLNR
SEQ ID NO. 5487	T110-E10	TWYRTIQDRTITD
SEQ ID NO. 5488	T110-F01	QRDLLMYAVG
SEQ ID NO. 5489	T110-F03	TGALGLISDWLLT
SEQ ID NO. 5490	T110-F06	PVTTGFYEAI
SEQ ID NO. 5491	T110-F07	LIRMFKRLEELV
SEQ ID NO. 5492	T110-F08	GFFTAQTLHVAV
SEQ ID NO. 5493	T110-F10	FYPAAAFIDRALS
SEQ ID NO. 5494	T110-F12	SEEEARLKKSADTLWGIQ
SEQ ID NO. 5495	T110-G07	TIPVLLDIAERT
SEQ ID NO. 5496	T110-G08	PLLKASIKETLRL
SEQ ID NO. 5497	T110-G10	RGDAEVVISEWDQV
SEQ ID NO. 5498	T110-H01	IEDVIQANVKA
SEQ ID NO. 5499	T110-H05	NTLEEIIFKL
SEQ ID NO. 5500	T110-H07	RAATVGSLA
SEQ ID NO. 5501	T110-H09	WREILERDVRNIITYFSRTY
SEQ ID NO. 5502	T110-H11	PTIAFAHD

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5503	T110-H12	ANVSAAIS
SEQ ID NO. 5504	T28-A01	GLEEVLYEL
SEQ ID NO. 5505	T28-A07	DTLRARAVAAAR
SEQ ID NO. 5506	T28-A08	PSKTLMDNYEV
SEQ ID NO. 5507	T28-A09	DQEAVTAIEKFVDD
SEQ ID NO. 5508	T28-A12	PEAADMVFT
SEQ ID NO. 5509	T28-B04	SASQAEQFLKL
SEQ ID NO. 5510	T28-B10	AFREMSDMILQA
SEQ ID NO. 5511	T28-C04	TNSMRMMQQ
SEQ ID NO. 5512	T28-C07	GPEGMTSFMRS
SEQ ID NO. 5513	T28-C10	IERINELVAY
SEQ ID NO. 5514	T28-D06	HLLDQFATAMIERT
SEQ ID NO. 5515	T28-D10	VTEIAKKL
SEQ ID NO. 5516	T28-E03	GAQVQALADAALEAF
SEQ ID NO. 5517	T28-E06	TASLLSNVTDELRRMT
SEQ ID NO. 5518	T28-E07	PLLQQIHNITSFIRQAKA
SEQ ID NO. 5519	T28-E08	RHTIVNFVEQSLIVDM
SEQ ID NO. 5520	T28-E09	QAHAEAWAALRHLAER
SEQ ID NO. 5521	T28-E11	IVDLLQIVNQITQKLRQI
SEQ ID NO. 5522	T28-E12	AADLKAVQDKLKTFVE
SEQ ID NO. 5523	T28-F02	QTASHALDAALELAAD
SEQ ID NO. 5524	T28-F03	QAFVDATWPQAAKAAQSL
SEQ ID NO. 5525	T28-F04	RGHQKLINATVEKAREV
SEQ ID NO. 5526	T28-F05	ASIFFAIKDAIRAARAQH
SEQ ID NO. 5527	T28-F08	EQEHRKRVIRELNSLI
SEQ ID NO. 5528	T28-F09	APARLHWLATLLMDA
SEQ ID NO. 5529	T28-F12	KGFHAIQTHRLAHWLY
SEQ ID NO. 5530	T28-G01	LKDLVRKAEEIGRELS
SEQ ID NO. 5531	T28-G02	YQYLAARLAIFHLRKKAY
SEQ ID NO. 5532	T28-G03	PVGDVKELGAIQEVF

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5533	T28-G04	TQALLRFLADHSRSKDTV
SEQ ID NO. 5534	T28-G05	GRDLALLGRFYAEALVDS
SEQ ID NO. 5535	T28-G06	AELRSTFFRALSDAQN
SEQ ID NO. 5536	T28-G08	PREEERLKASAKARSRTLQE
SEQ ID NO. 5537	T28-G09	QEQAQAGEDNLGAQAAA
SEQ ID NO. 5538	T28-G11	VDELMMRLMAAMEIFTAQ
SEQ ID NO. 5539	T28-H02	EMETVIPVDVMRR
SEQ ID NO. 5540	T28-H03	IAEKVQYMIEWWTKSGEL
SEQ ID NO. 5541	T210-A01	KEVRASAKALVQKWTNEVF
SEQ ID NO. 5542	T210-A03	PAMKQIKRKIQEFHRT
SEQ ID NO. 5543	T210-A04	ETTQERLRSGYEDAVDYNR
SEQ ID NO. 5544	T210-A05	VQVAEEAIVNAMRVLYYR
SEQ ID NO. 5545	T210-A06	YALGVRSGLQELAPHL
SEQ ID NO. 5546	T210-A07	DTLRARAVAAAR
SEQ ID NO. 5547	T210-A08	VEEVRELLEWYNNMNRLLKM
SEQ ID NO. 5548	T210-A09	TELKHTLESEGRELVK
SEQ ID NO. 5549	T210-A10	TDTYVTRIRAAVQARQRI
SEQ ID NO. 5550	T210-A11	SEERAHRRMLQLQVK
SEQ ID NO. 5551	T210-B01	TTTAVVVAGELLRKAEELL
SEQ ID NO. 5552	T210-B02	GGPLGLMQAVLDHTIPYL
SEQ ID NO. 5553	T210-B04	IFYAELARGIEDIATM
SEQ ID NO. 5554	T210-B05	SEEIKKKALEFVKYINS
SEQ ID NO. 5555	T210-B06	AEQLLSQARDFINQYYSS
SEQ ID NO. 5556	T210-B07	ILHLVGDVVALLEAI
SEQ ID NO. 5557	T210-B08	AVARAALINMVFQMGETGVA
SEQ ID NO. 5558	T210-B09	AAGIAALAFSLNEL
SEQ ID NO. 5559	T210-B12	FARVVETVSEAMSGLLA
SEQ ID NO. 5560	T210-C01	SVNLLKSHLEELAKKQ
SEQ ID NO. 5561	T210-C03	PFALKPLIAWTERERAA
SEQ ID NO. 5562	T210-C04	AQAFLSEEQAFVNSILN

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5563	T210-C06	QQLRDAIEEYGNAIRQLAA
SEQ ID NO. 5564	T210-C09	VPFNIASYALLTMMIAQV
SEQ ID NO. 5565	T210-C10	RDQILLRLLASALQI
SEQ ID NO. 5566	T210-C11	AGATILRLAKDLAEN
SEQ ID NO. 5567	T210-C12	EEGLRMNISVGIQYIASWL
SEQ ID NO. 5568	T210-D01	KSLIQDYDAEMAEYMKKRT
SEQ ID NO. 5569	T210-D02	VGAVKAATDAGAAAAR
SEQ ID NO. 5570	T210-D03	HAAELAKAEAGVAEMAAK
SEQ ID NO. 5571	T210-D04	EEEKEKYAEMAREWRAAQGK
SEQ ID NO. 5572	T210-D05	QAHAEAWAALRHLAER
SEQ ID NO. 5573	T210-D06	QNRIDYLKAHIGQAWKAIQ
SEQ ID NO. 5574	T210-D07	DEQIVDNIEAVLNVVAKK
SEQ ID NO. 5575	T210-D08	ERHLDRKAELIVQVRILLK
SEQ ID NO. 5576	T210-D09	HQSDVWSFGVLLWEIF
SEQ ID NO. 5577	T210-D10	LPDLAARILPQAARALKE
SEQ ID NO. 5578	T210-E01	PYLGAQIAKAMVKGYQ
SEQ ID NO. 5579	T210-E03	EEQARKAFDRATKLEQEF
SEQ ID NO. 5580	T210-E04	FVDFLVYDVLDLHRIF
SEQ ID NO. 5581	T210-E06	YDKVIERILEFIREK
SEQ ID NO. 5582	T210-E08	GKWWRRQLNVYWSRWLVTA
SEQ ID NO. 5583	T210-E10	HLPRIERYVRLLAEHLAA
SEQ ID NO. 5584	T210-E12	PEEYEKTLDELVART
SEQ ID NO. 5585	T210-F03	ASSIMQTLFSQLKQF
SEQ ID NO. 5586	T210-F06	LPFGFVSMFLAPWIERRL
SEQ ID NO. 5587	T210-F07	LSEALKEATKEVHIRAEN
SEQ ID NO. 5588	T210-F12	SEEEARLKKSADTLWGIQ
SEQ ID NO. 5589	T210-G02	DSYNESIVNWLYRRH
SEQ ID NO. 5590	T210-G03	IMYKGHLNLMYGLYQLVT
SEQ ID NO. 5591	T210-G04	GAYSISVAEHAFALLLAHA
SEQ ID NO. 5592	T210-G05	VQVTNYVEDRIIALRN

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5593	T210-G06	FLPFGYLVDQWRWGVFS
SEQ ID NO. 5594	T210-H03	PASRFIRVAFLRDAMIKN
SEQ ID NO. 5595	T210-H05	FQELFGPG
SEQ ID NO. 5596	T210-H06	WLLEDAKGLFNATVRDA
SEQ ID NO. 5597	T210-H07	GERAKQLRRFSIATLR
SEQ ID NO. 5598	T210-H11	GNAIYERSFAIIRAE
SEQ ID NO. 5599	nhs-2346	REKLENLTE
SEQ ID NO. 5600	nhs-1406	DETKKARMQ
SEQ ID NO. 5601	nhs-2512	ENREIAQRE
SEQ ID NO. 5602	nhs-1443	ERIKSTLKE
SEQ ID NO. 5603	nhs-2273	DEQIREMKS
SEQ ID NO. 5604	nhs-2212	EKERLEAQT
SEQ ID NO. 5605	nhs-186	RIHETNLKK
SEQ ID NO. 5606	nhs-1744	NEEIKKLHT
SEQ ID NO. 5607	nhs-2470	DQRKHHTET
SEQ ID NO. 5608	nhs-1999	RDTRERLHT
SEQ ID NO. 5609	nhs-2364	DEKRMLKTT
SEQ ID NO. 5610	nhs-2233	NQELKEVRD
SEQ ID NO. 5611	nhs-1503	ENLKNLEKH
SEQ ID NO. 5612	nhs-1756	TEHEKQVKE
SEQ ID NO. 5613	nhs-1420	SSKAKELKDR
SEQ ID NO. 5614	nhs-1787	NDKIEAIKSH
SEQ ID NO. 5615	nhs-98	RERIREHLSS
SEQ ID NO. 5616	nhs-2011	RDVQDQLKEK
SEQ ID NO. 5617	nhs-1126	TSELREAMRK
SEQ ID NO. 5618	nhs-2594	QQAEDKIKEL
SEQ ID NO. 5619	nhs-1100	KETQKQLIDD
SEQ ID NO. 5620	nhs-1446	REGKDRTRQL
SEQ ID NO. 5621	nhs-2293	EKIRQTLEDA
SEQ ID NO. 5622	nhs-619	DKIIKRANEN

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5623	nhs-1059	REGAEKINQK
SEQ ID NO. 5624	nhs-1655	DDVVKKLDSS
SEQ ID NO. 5625	nhs-1051	DRTRKLMEVT
SEQ ID NO. 5626	nhs-2053	AEHVQQIKEH
SEQ ID NO. 5627	nhs-1919	RDELTQAAKK
SEQ ID NO. 5628	nhs-67	AQRIKEIQDR
SEQ ID NO. 5629	nhs-598	ENEIQAKAKE
SEQ ID NO. 5630	nhs-1789	SDDIRKLLES
SEQ ID NO. 5631	nhs-2545	KDSLKKIHSI
SEQ ID NO. 5632	nhs-1164	KKDIDDTIKS
SEQ ID NO. 5633	nhs-1160	KKELKELLQT
SEQ ID NO. 5634	nhs-686	RDLTERAMRQ
SEQ ID NO. 5635	nhs-2454	IDTRLEKLKN
SEQ ID NO. 5636	nhs-687	QIDEHHAVRT
SEQ ID NO. 5637	nhs-170	AEETIKELKN
SEQ ID NO. 5638	nhs-2422	EKDTVDQVRI
SEQ ID NO. 5639	nhs-354	DDETLRNVKS
SEQ ID NO. 5640	nhs-2000	RDELHRLLTQ
SEQ ID NO. 5641	nhs-1723	KEKLEATINE
SEQ ID NO. 5642	nhs-1241	DERVQQIKKS
SEQ ID NO. 5643	nhs-1729	RDQGKEMATK
SEQ ID NO. 5644	nhs-366	LSTDRKMDEV
SEQ ID NO. 5645	nhs-2415	VEDLTSKAEK
SEQ ID NO. 5646	nhs-2487	EDKLRTIANE
SEQ ID NO. 5647	nhs-665	REKLLDTMNR
SEQ ID NO. 5648	nhs-2406	NHNLERIREL
SEQ ID NO. 5649	nhs-2403	DKSRKLLESI
SEQ ID NO. 5650	nhs-1348	KNDIVELKNK
SEQ ID NO. 5651	nhs-725	HTDSHLHTRQ
SEQ ID NO. 5652	nhs-2380	QRLRTKLETE

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5653	nhs-2518	ERTRADIKSV
SEQ ID NO. 5654	nhs-1959	PHVTERVQKE
SEQ ID NO. 5655	nhs-2367	DNKLNEIGEK
SEQ ID NO. 5656	nhs-2413	KPKADQKLEQ
SEQ ID NO. 5657	nhs-2055	SAKKKDVISE
SEQ ID NO. 5658	nhs-1307	INEVKQHLER
SEQ ID NO. 5659	nhs-1631	KKEVDQAIKS
SEQ ID NO. 5660	nhs-923	ATDTHRLHKE
SEQ ID NO. 5661	nhs-310	HAERLKVQKN
SEQ ID NO. 5662	nhs-1850	TKIREKVRSD
SEQ ID NO. 5663	nhs-44	ADDVKQLKSK
SEQ ID NO. 5664	nhs-2762	LHQVRKKLDS
SEQ ID NO. 5665	nhs-2195	EVEVRQARDN
SEQ ID NO. 5666	nhs-824	HEKHTTALEK
SEQ ID NO. 5667	nhs-431	KEDVQASLER
SEQ ID NO. 5668	nhs-2193	EHIKDVLKSN
SEQ ID NO. 5669	nhs-280	KDELIRNNQE
SEQ ID NO. 5670	nhs-1571	LNTRLRKLDE
SEQ ID NO. 5671	nhs-1543	KDTINKIRDL
SEQ ID NO. 5672	nhs-1633	EMRDLVQRET
SEQ ID NO. 5673	nhs-958	NREVLEQVER
SEQ ID NO. 5674	nhs-809	NREVLDQVER
SEQ ID NO. 5675	nhs-425	SDKAHKVLKQ
SEQ ID NO. 5676	nhs-2748	EAQTRELRLK
SEQ ID NO. 5677	nhs-1586	PETLKENLDK
SEQ ID NO. 5678	nhs-2201	ETTAERIKKE
SEQ ID NO. 5679	nhs-2746	LDDLKTRVES
SEQ ID NO. 5680	nhs-993	KEHLNEIRKN
SEQ ID NO. 5681	nhs-2139	GQELERQLKE
SEQ ID NO. 5682	nhs-2215	DKVIQQIKKD

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5683	nhs-888	RDERKKSLLS
SEQ ID NO. 5684	nhs-901	HETRELTRMN
SEQ ID NO. 5685	nhs-2112	QPTIREKVRE
SEQ ID NO. 5686	nhs-814	ENTVKKLREA
SEQ ID NO. 5687	nhs-2140	SLMREKIRNES
SEQ ID NO. 5688	nhs-499	EPMLKNFEKDT
SEQ ID NO. 5689	nhs-2077	EWEQLTVELRK
SEQ ID NO. 5690	nhs-1591	GQKDLMDRLNE
SEQ ID NO. 5691	nhs-564	TKTFHEAIRDK
SEQ ID NO. 5692	nhs-2431	KGKITDFLSEH
SEQ ID NO. 5693	nhs-2165	QKRVDKIFDQM
SEQ ID NO. 5694	nhs-2374	INHTKDILKKF
SEQ ID NO. 5695	nhs-2440	DEQRKLLKEAQ
SEQ ID NO. 5696	nhs-1371	KSIAEDIIKKN
SEQ ID NO. 5697	nhs-1372	AEKIKQEVDAS
SEQ ID NO. 5698	nhs-2083	YKEDIKIMKQT
SEQ ID NO. 5699	nhs-1341	SDDVRHAVQRV
SEQ ID NO. 5700	nhs-2424	HSKYREEAMQN
SEQ ID NO. 5701	nhs-287	SYDTGKEIIKE
SEQ ID NO. 5702	nhs-2134	LNNKVDELKKS
SEQ ID NO. 5703	nhs-548	WEALRESIKTH
SEQ ID NO. 5704	nhs-2003	HSLVKAKLRET
SEQ ID NO. 5705	nhs-2081	ENDKEQLKAIS
SEQ ID NO. 5706	nhs-2394	SIGDRMKRYEN
SEQ ID NO. 5707	nhs-1335	RDKVNDIVDQV
SEQ ID NO. 5708	nhs-2137	DTVYKKLVQRE
SEQ ID NO. 5709	nhs-1622	SEKVVQEALDK
SEQ ID NO. 5710	nhs-2401	EKTLSAVKEKI
SEQ ID NO. 5711	nhs-558	RDQLVGKIQER
SEQ ID NO. 5712	nhs-343	HDEQTAIKNKL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5713	nhs-1319	PNDLKHVKKLS
SEQ ID NO. 5714	nhs-2141	DDRLNKVISEL
SEQ ID NO. 5715	nhs-1993	KKLLTWREETG
SEQ ID NO. 5716	nhs-532	VSEKEHATRLL
SEQ ID NO. 5717	nhs-2238	TNRDYLAERLR
SEQ ID NO. 5718	nhs-1625	IHRYVNEMNKE
SEQ ID NO. 5719	nhs-1699	NDRKSFLLRDS
SEQ ID NO. 5720	nhs-2057	LDAARENARKN
SEQ ID NO. 5721	nhs-2213	EKIQKEAQEAL
SEQ ID NO. 5722	nhs-587	DIARKEQLKSL
SEQ ID NO. 5723	nhs-1492	WSHTERLLKEH
SEQ ID NO. 5724	nhs-1651	KDSAARAKSDL
SEQ ID NO. 5725	nhs-1496	KETENKIIKDY
SEQ ID NO. 5726	nhs-1498	KDTLRETIKFM
SEQ ID NO. 5727	nhs-2276	FNTILKEIKER
SEQ ID NO. 5728	nhs-2261	SAQVDRLREEF
SEQ ID NO. 5729	nhs-521	KAETKKLIDLT
SEQ ID NO. 5730	nhs-321	SKERIPETVKK
SEQ ID NO. 5731	nhs-240	KQERTLFKELI
SEQ ID NO. 5732	nhs-1506	EKSKTAFKEAQ
SEQ ID NO. 5733	nhs-594	LSEALKEATKE
SEQ ID NO. 5734	nhs-2246	ETKIFEAVKQE
SEQ ID NO. 5735	nhs-597	EEQVTKLLHRK
SEQ ID NO. 5736	nhs-246	RTDLKDYITKN
SEQ ID NO. 5737	nhs-1513	TLLEKTLKERL
SEQ ID NO. 5738	nhs-1462	KEALASRFKET
SEQ ID NO. 5739	nhs-1453	ENQSKKLKELM
SEQ ID NO. 5740	nhs-1662	LEKVKNWQKDA
SEQ ID NO. 5741	nhs-1558	AKKQINDYVEK
SEQ ID NO. 5742	nhs-202	SSLKDIDIARE

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5743	nhs-1546	EEARTRKFQAM
SEQ ID NO. 5744	nhs-2348	GEDTWEAIKQK
SEQ ID NO. 5745	nhs-204	HHTRVRVYQEI
SEQ ID NO. 5746	nhs-2339	DARKKDLKSIQ
SEQ ID NO. 5747	nhs-1535	DEKAEHLQKTY
SEQ ID NO. 5748	nhs-1421	KEFQKESLSMD
SEQ ID NO. 5749	nhs-1521	PKEAEQFVKES
SEQ ID NO. 5750	nhs-2329	REEFTKKVRTN
SEQ ID NO. 5751	nhs-332	ERANELVESYR
SEQ ID NO. 5752	nhs-508	ASDVEERVQKS
SEQ ID NO. 5753	nhs-2197	RENALLELSKK
SEQ ID NO. 5754	nhs-630	VEEAKNRADQW
SEQ ID NO. 5755	nhs-2024	LEEWVEKAKSS
SEQ ID NO. 5756	nhs-2300	MTQKVEELKET
SEQ ID NO. 5757	nhs-2295	ENSKKTQELVE
SEQ ID NO. 5758	nhs-2200	ETTAERIKKEI
SEQ ID NO. 5759	nhs-509	TDQMREAVKRV
SEQ ID NO. 5760	nhs-2366	NHDVKLLRKLN
SEQ ID NO. 5761	nhs-1660	FATKLREKLES
SEQ ID NO. 5762	nhs-1282	EKGKRIRENYS
SEQ ID NO. 5763	nhs-1615	HDQAVRTYQEH
SEQ ID NO. 5764	nhs-72	KENLLDFIKHN
SEQ ID NO. 5765	nhs-792	MESTFERIKEL
SEQ ID NO. 5766	nhs-964	KDQARQALDKL
SEQ ID NO. 5767	nhs-1048	SKDMESHVFLK
SEQ ID NO. 5768	nhs-2633	VKDAMQHLDRQ
SEQ ID NO. 5769	nhs-1310	VDRLKDKVNNT
SEQ ID NO. 5770	nhs-786	NRDVERIAELS
SEQ ID NO. 5771	nhs-2738	DQVWDEIVKKN
SEQ ID NO. 5772	nhs-2752	HDALIQLHEQR

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5773	nhs-1067	KEKLEATINEL
SEQ ID NO. 5774	nhs-955	QAELDRLRVET
SEQ ID NO. 5775	nhs-1070	HAISTEKIKAK
SEQ ID NO. 5776	nhs-1797	QVKAKHLKDSM
SEQ ID NO. 5777	nhs-2756	HSKLAESVEKA
SEQ ID NO. 5778	nhs-1878	SYDRLMKTIKE
SEQ ID NO. 5779	nhs-2613	ETDHFDIKNLK
SEQ ID NO. 5780	nhs-1835	NGKAADRIHQD
SEQ ID NO. 5781	nhs-1792	SDDIRKLLESQ
SEQ ID NO. 5782	nhs-1088	KTQMQEKAKEI
SEQ ID NO. 5783	nhs-2604	ADTIKKLTDKI
SEQ ID NO. 5784	nhs-2599	PDKTVKKVQDK
SEQ ID NO. 5785	nhs-1037	TLKQEYERDRD
SEQ ID NO. 5786	nhs-1022	RQKELEQRKLT
SEQ ID NO. 5787	nhs-1808	QAELKELLQKE
SEQ ID NO. 5788	nhs-1810	SDKIKKFLTES
SEQ ID NO. 5789	nhs-39	KSDMEKLAKAT
SEQ ID NO. 5790	nhs-42	IKKLKENIAQH
SEQ ID NO. 5791	nhs-973	SSHLKAHLRTH
SEQ ID NO. 5792	nhs-2726	ELKSKLLDFRN
SEQ ID NO. 5793	nhs-433	VDFLTDQRLRE
SEQ ID NO. 5794	nhs-1896	SERGRQLADHL
SEQ ID NO. 5795	nhs-982	RISDKFTELKE
SEQ ID NO. 5796	nhs-984	DRLIKSHIKTN
SEQ ID NO. 5797	nhs-817	LKNWVRELRQH
SEQ ID NO. 5798	nhs-985	KAHLAQHQKTH
SEQ ID NO. 5799	nhs-770	DKADLDGQLTK
SEQ ID NO. 5800	nhs-2728	TDDKEKLLKTL
SEQ ID NO. 5801	nhs-53	KSELKELINNE
SEQ ID NO. 5802	nhs-393	IHRYIQEMNRK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5803	nhs-1832	PEQVERLTKEF
SEQ ID NO. 5804	nhs-990	SSHLKAHTRTH
SEQ ID NO. 5805	nhs-807	DEQVLEKVARQ
SEQ ID NO. 5806	nhs-391	KSELKELLTRE
SEQ ID NO. 5807	nhs-1811	KNQKDVLKELL
SEQ ID NO. 5808	nhs-389	GLEDKVSKQLE
SEQ ID NO. 5809	nhs-1904	ERKEMATILSK
SEQ ID NO. 5810	nhs-2650	SEDRLVNEKFR
SEQ ID NO. 5811	nhs-52	REQYEKMQKDG
SEQ ID NO. 5812	nhs-2717	EKKLITDALNK
SEQ ID NO. 5813	nhs-95	KTEINEALKKI
SEQ ID NO. 5814	nhs-1945	RQLEWGLERTR
SEQ ID NO. 5815	nhs-375	TAHRLQLHDEH
SEQ ID NO. 5816	nhs-132	DKDLTQLKKEA
SEQ ID NO. 5817	nhs-885	DFHHETRVTLT
SEQ ID NO. 5818	nhs-1211	DDAAKKLQRYT
SEQ ID NO. 5819	nhs-136	ASLVKELRERT
SEQ ID NO. 5820	nhs-1213	TTIHRIKQKEF
SEQ ID NO. 5821	nhs-715	LPRVMKDSKNE
SEQ ID NO. 5822	nhs-474	AHDRILKTIKT
SEQ ID NO. 5823	nhs-406	LEDVSNFLKER
SEQ ID NO. 5824	nhs-2488	EDKLRTIANEN
SEQ ID NO. 5825	nhs-142	VDKIRNQYRED
SEQ ID NO. 5826	nhs-1220	EKELSLLRNRK
SEQ ID NO. 5827	nhs-1856	NEKYQILARDH
SEQ ID NO. 5828	nhs-1256	ANDLLSKVKKD
SEQ ID NO. 5829	nhs-1612	HSIIKGIKDRT
SEQ ID NO. 5830	nhs-1984	PREQLMESIRK
SEQ ID NO. 5831	nhs-1867	ETQAKELAAHK
SEQ ID NO. 5832	nhs-1720	REKLLDTMNRL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5833	nhs-2459	DDFQQKIEKIK
SEQ ID NO. 5834	nhs-2453	RVHTSELKLRA
SEQ ID NO. 5835	nhs-1295	ETKLRETITRH
SEQ ID NO. 5836	nhs-5	ISDLHQTLKKE
SEQ ID NO. 5837	nhs-471	QHERLGTLVRE
SEQ ID NO. 5838	nhs-720	DEFDAQMTKAK
SEQ ID NO. 5839	nhs-860	VHEKWQKAIQK
SEQ ID NO. 5840	nhs-762	DAKILNDVQDR
SEQ ID NO. 5841	nhs-18	KSDMDKLAKAT
SEQ ID NO. 5842	nhs-1774	HVKETALKELN
SEQ ID NO. 5843	nhs-2765	LRSHDNFKAKL
SEQ ID NO. 5844	nhs-415	EITRLVETFKK
SEQ ID NO. 5845	nhs-921	HSTLEYKVKER
SEQ ID NO. 5846	nhs-919	IHQYREQIKRV
SEQ ID NO. 5847	nhs-1135	RDLDRQKQKLE
SEQ ID NO. 5848	nhs-1207	KADIVRQLSER
SEQ ID NO. 5849	nhs-1158	KKAWENMVTKD
SEQ ID NO. 5850	nhs-918	HKFIDTITDHM
SEQ ID NO. 5851	nhs-1754	PNDLKHYKKLS
SEQ ID NO. 5852	nhs-737	RDQGKEMATKY
SEQ ID NO. 5853	nhs-1175	KGELKQLLTKE
SEQ ID NO. 5854	nhs-2523	PNDLKHLKKLS
SEQ ID NO. 5855	nhs-735	ELKDQLENFRR
SEQ ID NO. 5856	nhs-909	VQDLTRELNEK
SEQ ID NO. 5857	nhs-892	RTSIDHLKEIA
SEQ ID NO. 5858	nhs-2800	KDKQLETMARL
SEQ ID NO. 5859	nhs-1205	LSRAKEFAQKH
SEQ ID NO. 5860	nhs-745	LTDLVEHFKKT
SEQ ID NO. 5861	nhs-975	FSENLKKAKEK
SEQ ID NO. 5862	nhs-534	DKDLEVWNRLTS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5863	nhs-1825	QERLDAIVSRTR
SEQ ID NO. 5864	nhs-1628	VDEVKRQIDLAS
SEQ ID NO. 5865	nhs-535	QTKIDAKKEQLA
SEQ ID NO. 5866	nhs-531	DNDIQDIRNRIF
SEQ ID NO. 5867	nhs-1710	LSDFKELLRTVK
SEQ ID NO. 5868	nhs-1635	KEWEKKISEAIQ
SEQ ID NO. 5869	nhs-491	GERFKENIRKVN
SEQ ID NO. 5870	nhs-1722	ERARTEFISSKL
SEQ ID NO. 5871	nhs-479	DIHQYREQIKRV
SEQ ID NO. 5872	nhs-1685	LDTDYQMTKRDM
SEQ ID NO. 5873	nhs-495	IDNVKSKIQDKE
SEQ ID NO. 5874	nhs-1745	KVLDAIIQEKKS
SEQ ID NO. 5875	nhs-1678	NAQVKDVEEKYS
SEQ ID NO. 5876	nhs-498	HSQFIKLVAEKR
SEQ ID NO. 5877	nhs-502	KDVLDELKNYIS
SEQ ID NO. 5878	nhs-1750	KKTIAAEDVLND
SEQ ID NO. 5879	nhs-466	EEAKIIKQYVKN
SEQ ID NO. 5880	nhs-1757	VTAVKDSFERHL
SEQ ID NO. 5881	nhs-462	KGTQGERIVEDY
SEQ ID NO. 5882	nhs-1764	GTHTKELDLWKS
SEQ ID NO. 5883	nhs-1668	YDEIKDVVTKLS
SEQ ID NO. 5884	nhs-506	QEYVRETIDKLM
SEQ ID NO. 5885	nhs-456	KDHLDLLSKSAY
SEQ ID NO. 5886	nhs-1664	KESIKKALELTM
SEQ ID NO. 5887	nhs-449	DGLEVAKTIRKT
SEQ ID NO. 5888	nhs-447	HDSIKMFIKNAK
SEQ ID NO. 5889	nhs-1794	FKNIDDLNKVLK
SEQ ID NO. 5890	nhs-444	PQDIQAFRELDK
SEQ ID NO. 5891	nhs-443	LKEKENNDSSDK
SEQ ID NO. 5892	nhs-1658	RDKVNDIVDQVI

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5893	nhs-1807	RKQFEKTMETSS
SEQ ID NO. 5894	nhs-1643	QDKLDKIIQRTR
SEQ ID NO. 5895	nhs-1817	EKETKEMVAFLN
SEQ ID NO. 5896	nhs-879	TKDLKKLIWNEI
SEQ ID NO. 5897	nhs-522	TKEREQVIAHLG
SEQ ID NO. 5898	nhs-1820	NEEWDLLISGKK
SEQ ID NO. 5899	nhs-1652	ETTERLLKQAVE
SEQ ID NO. 5900	nhs-2817	DSTRQRIVELAH
SEQ ID NO. 5901	nhs-540	DRDTLKNLGDRL
SEQ ID NO. 5902	nhs-1075	LAHLRAHQRTHT
SEQ ID NO. 5903	nhs-1077	LAEVSQRHAEKL
SEQ ID NO. 5904	nhs-1082	AASFLTRMKEKH
SEQ ID NO. 5905	nhs-774	ADREKQIITHLN
SEQ ID NO. 5906	nhs-766	MESTFERIKELS
SEQ ID NO. 5907	nhs-1111	ELQRLFRDAHMT
SEQ ID NO. 5908	nhs-1116	EHRALRKVVSSA
SEQ ID NO. 5909	nhs-1117	GEQRKTFVELMR
SEQ ID NO. 5910	nhs-1125	SEKIQKEVESLI
SEQ ID NO. 5911	nhs-1127	ISKVREMQKWLE
SEQ ID NO. 5912	nhs-1130	TQERDRLIDDFR
SEQ ID NO. 5913	nhs-1133	DAQRQATKDAGR
SEQ ID NO. 5914	nhs-1149	EDRMELYQTRLS
SEQ ID NO. 5915	nhs-1150	TSELREAMRKLL
SEQ ID NO. 5916	nhs-1152	TVEAYKTIAREE
SEQ ID NO. 5917	nhs-1174	KASLNWHMKKHD
SEQ ID NO. 5918	nhs-1182	DDVKSIVRFVQE
SEQ ID NO. 5919	nhs-1197	PTVRELKETLEN
SEQ ID NO. 5920	nhs-729	ENVTELKKNFNR
SEQ ID NO. 5921	nhs-1208	RHDILSAFDTRI
SEQ ID NO. 5922	nhs-719	TDSRNVDDYVRK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5923	nhs-1212	REGYEKLKQELN
SEQ ID NO. 5924	nhs-714	IYQQVRDELKRA
SEQ ID NO. 5925	nhs-1074	SDHLAEHQRTHT
SEQ ID NO. 5926	nhs-1068	HWGDRSADMATR
SEQ ID NO. 5927	nhs-782	KSGQLLHELLKE
SEQ ID NO. 5928	nhs-791	EALSKLLERIKQ
SEQ ID NO. 5929	nhs-881	RDLTDLMAKNME
SEQ ID NO. 5930	nhs-865	RYDTLVSVLERE
SEQ ID NO. 5931	nhs-882	QKEIDRLNEVAK
SEQ ID NO. 5932	nhs-848	ESLVEKVKEFLS
SEQ ID NO. 5933	nhs-845	KEDALKLVQLKQ
SEQ ID NO. 5934	nhs-939	VEQLRKEGNELF
SEQ ID NO. 5935	nhs-953	KTQMQEKAKEIY
SEQ ID NO. 5936	nhs-833	LNTKVEVLREVE
SEQ ID NO. 5937	nhs-967	QLKSVIKKYREE
SEQ ID NO. 5938	nhs-969	TSKWIDDVRTER
SEQ ID NO. 5939	nhs-826	KDEIDSKLVNFI
SEQ ID NO. 5940	nhs-1233	SDMRTEIIRMME
SEQ ID NO. 5941	nhs-822	TTKWIDDVRTER
SEQ ID NO. 5942	nhs-980	EIHLENMLKITR
SEQ ID NO. 5943	nhs-986	RLDLDFHQRVHT
SEQ ID NO. 5944	nhs-987	KSQLIIHERIHT
SEQ ID NO. 5945	nhs-988	SVERYIVSRLRD
SEQ ID NO. 5946	nhs-1003	KHDVETFRQLIG
SEQ ID NO. 5947	nhs-1004	YEKARTLIEKVS
SEQ ID NO. 5948	nhs-1010	ELSDRVLRAAKQ
SEQ ID NO. 5949	nhs-1011	KDQLMEKYRKIT
SEQ ID NO. 5950	nhs-1021	PERELTETREKL
SEQ ID NO. 5951	nhs-799	ELKELIRKHQND
SEQ ID NO. 5952	nhs-1025	FDDIKKIISKQL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5953	nhs-979	ITRDSVIRIAKD
SEQ ID NO. 5954	nhs-1616	WKDAIKEMKQTI
SEQ ID NO. 5955	nhs-1234	ESAVRVVERLNR
SEQ ID NO. 5956	nhs-1279	DLKALSSALHER
SEQ ID NO. 5957	nhs-1486	VDRGTELLERSL
SEQ ID NO. 5958	nhs-1488	GETHRHRKQMFM
SEQ ID NO. 5959	nhs-1495	KETENKIIKDYK
SEQ ID NO. 5960	nhs-603	KDKLLSFLDTHL
SEQ ID NO. 5961	nhs-601	EIAKETQARVLE
SEQ ID NO. 5962	nhs-1504	YTERDRIQRERL
SEQ ID NO. 5963	nhs-596	DTERAQLDVMKL
SEQ ID NO. 5964	nhs-1512	LTLLEKTLKERL
SEQ ID NO. 5965	nhs-586	RKITDDLVKNVE
SEQ ID NO. 5966	nhs-1519	QETIKHVKDLIA
SEQ ID NO. 5967	nhs-584	TDVDQKVDQVAR
SEQ ID NO. 5968	nhs-576	SDITDEQKKVRE
SEQ ID NO. 5969	nhs-1556	ENSRVLVKKLAE
SEQ ID NO. 5970	nhs-569	TDTALKELEKVT
SEQ ID NO. 5971	nhs-566	HKFIDTITDHMT
SEQ ID NO. 5972	nhs-1567	DETLAKIKKAWN
SEQ ID NO. 5973	nhs-563	KGTQADRIVEKY
SEQ ID NO. 5974	nhs-561	TGRIYSDVLRKE
SEQ ID NO. 5975	nhs-1573	NEDFVRLSTEAR
SEQ ID NO. 5976	nhs-550	PRFQELKSETLK
SEQ ID NO. 5977	nhs-1588	ARAQAKQLEHLK
SEQ ID NO. 5978	nhs-545	EVSINDARVRAR
SEQ ID NO. 5979	nhs-1599	EFKLTSAIKKEL
SEQ ID NO. 5980	nhs-1472	KETSDLLRKIAA
SEQ ID NO. 5981	nhs-1468	EHTSDRKLLAKE
SEQ ID NO. 5982	nhs-1450	KDKTKGDAIDLS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 5983	nhs-1449	ETATRDQLTKEA
SEQ ID NO. 5984	nhs-1285	PEDKTTVHRKWS
SEQ ID NO. 5985	nhs-1294	MNEGARHMREFT
SEQ ID NO. 5986	nhs-688	REKDLSWITQHA
SEQ ID NO. 5987	nhs-1302	DQVKEEMKILVQ
SEQ ID NO. 5988	nhs-1313	EDDLTKVLNYTK
SEQ ID NO. 5989	nhs-678	ERANELVESYRK
SEQ ID NO. 5990	nhs-677	RTSIDHLKEIAR
SEQ ID NO. 5991	nhs-1316	KDDLARIITAES
SEQ ID NO. 5992	nhs-674	SKLLRDSHVLHS
SEQ ID NO. 5993	nhs-1322	ATDLKETAKKLL
SEQ ID NO. 5994	nhs-1333	RTTRELVGDLLD
SEQ ID NO. 5995	nhs-1242	NSTIDKRVERLI
SEQ ID NO. 5996	nhs-667	PSKYRDELTAKL
SEQ ID NO. 5997	nhs-1339	EKEYKELRNAIS
SEQ ID NO. 5998	nhs-1352	EKTLRDKLVLAT
SEQ ID NO. 5999	nhs-1368	LFDRLDEHARQN
SEQ ID NO. 6000	nhs-652	LDTDYQMTKKDM
SEQ ID NO. 6001	nhs-1859	RKHEQMFREAVN
SEQ ID NO. 6002	nhs-1412	KESLEALDAAKT
SEQ ID NO. 6003	nhs-1416	HDVYRDEALNNR
SEQ ID NO. 6004	nhs-1436	EKDIENFMKNEK
SEQ ID NO. 6005	nhs-636	DFNLRTHVRIHT
SEQ ID NO. 6006	nhs-631	ATQVEEKLRAEY
SEQ ID NO. 6007	nhs-629	KVTHFERLHHKT
SEQ ID NO. 6008	nhs-1336	KEELELANWISK
SEQ ID NO. 6009	nhs-411	HDIYRDEALNNR
SEQ ID NO. 6010	nhs-1819	RDELNAYKSKLK
SEQ ID NO. 6011	nhs-2331	IENVKAKIQDKL
SEQ ID NO. 6012	nhs-2592	PEDKVKAVTKLN

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6013	nhs-291	KTVEEIDQKLKS
SEQ ID NO. 6014	nhs-2576	KDRLVESVQDVL
SEQ ID NO. 6015	nhs-105	KQERTLFKELIK
SEQ ID NO. 6016	nhs-106	EKVVSELKQLAE
SEQ ID NO. 6017	nhs-2562	QEKLDAMVERTR
SEQ ID NO. 6018	nhs-2155	MKTRFKIQHATE
SEQ ID NO. 6019	nhs-279	QYIEGEMRTRIR
SEQ ID NO. 6020	nhs-2158	SVTRVKIALEEK
SEQ ID NO. 6021	nhs-275	MRDASQWIKRME
SEQ ID NO. 6022	nhs-109	RKDRDTARQLHE
SEQ ID NO. 6023	nhs-2537	HELNSKIKDLET
SEQ ID NO. 6024	nhs-2536	DGTRLLDSIRDL
SEQ ID NO. 6025	nhs-2179	LIDVYKKTLKSD
SEQ ID NO. 6026	nhs-2535	KERLKELIFQET
SEQ ID NO. 6027	nhs-2533	SRINEARKEVEM
SEQ ID NO. 6028	nhs-2185	PDDIAELKTRLT
SEQ ID NO. 6029	nhs-96	HLDQLKEIMKVT
SEQ ID NO. 6030	nhs-2128	REMVDQINRVAR
SEQ ID NO. 6031	nhs-2423	HSKYREEAMQNR
SEQ ID NO. 6032	nhs-2605	ADTIKKLTDKIK
SEQ ID NO. 6033	nhs-2020	KIVELENEFLKS
SEQ ID NO. 6034	nhs-2639	LDDFNREIVKQL
SEQ ID NO. 6035	nhs-2034	ISSYKEKLEKEH
SEQ ID NO. 6036	nhs-2637	LRKQLSLDVLDK
SEQ ID NO. 6037	nhs-2037	REEFTKKVRTNA
SEQ ID NO. 6038	nhs-2631	KEEKSAIRDYTK
SEQ ID NO. 6039	nhs-2054	LDKVLSKLSEKY
SEQ ID NO. 6040	nhs-2056	EKTAEDFTPTVR
SEQ ID NO. 6041	nhs-2531	SIDKSELLYKVD
SEQ ID NO. 6042	nhs-317	KRIIKETEKLVS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6043	nhs-314	TAEEFANRLSKD
SEQ ID NO. 6044	nhs-312	LDNLRDTVRKFL
SEQ ID NO. 6045	nhs-2621	EKAKNRLNTELY
SEQ ID NO. 6046	nhs-2619	APEHTRLRKLVT
SEQ ID NO. 6047	nhs-2614	QHSAELIKHLIK
SEQ ID NO. 6048	nhs-2610	KEQKTQRLISEL
SEQ ID NO. 6049	nhs-2097	KDHFVKLETIDS
SEQ ID NO. 6050	nhs-2101	REMLASIDTLKD
SEQ ID NO. 6051	nhs-2627	ADEIKTAIDTAR
SEQ ID NO. 6052	nhs-2192	LSEKEALIKQIK
SEQ ID NO. 6053	nhs-2525	KDQEIKKLVDQN
SEQ ID NO. 6054	nhs-2521	ENLKRYVERMES
SEQ ID NO. 6055	nhs-2291	QSTLDKLMRDLD
SEQ ID NO. 6056	nhs-2305	AKDIADAVRKTS
SEQ ID NO. 6057	nhs-2480	DNALRKSHHAGM
SEQ ID NO. 6058	nhs-2478	DEVTNGIVKERL
SEQ ID NO. 6059	nhs-2320	KDITQKYRTILD
SEQ ID NO. 6060	nhs-2330	IENVKAKIQDKI
SEQ ID NO. 6061	nhs-2333	KDTVEKVRQTFE
SEQ ID NO. 6062	nhs-2361	EDRVKEVVTKYS
SEQ ID NO. 6063	nhs-2289	QMERVRTLTDVR
SEQ ID NO. 6064	nhs-2476	LKERYQKIGDTK
SEQ ID NO. 6065	nhs-2383	SKENMSLLKHLK
SEQ ID NO. 6066	nhs-2451	KGTQAERIVEKY
SEQ ID NO. 6067	nhs-2450	KGTQGEKIVEDY
SEQ ID NO. 6068	nhs-2388	RKESHLEKQKID
SEQ ID NO. 6069	nhs-2445	ASADAERLHRSM
SEQ ID NO. 6070	nhs-2408	KIGKEHINRITN
SEQ ID NO. 6071	nhs-2436	KESLLREVQLLK
SEQ ID NO. 6072	nhs-2412	RVRNQFLKEMDG

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6073	nhs-2382	RADIMTKLNEDF
SEQ ID NO. 6074	nhs-2643	SRGRDLLTDWLK
SEQ ID NO. 6075	nhs-225	PDRLAQIVERTR
SEQ ID NO. 6076	nhs-2492	SDKLQKEVEGLV
SEQ ID NO. 6077	nhs-2519	PKTQLLHFIREE
SEQ ID NO. 6078	nhs-2221	NEYRHLQHSIKE
SEQ ID NO. 6079	nhs-123	KWVQDSMDHLDK
SEQ ID NO. 6080	nhs-2223	QFELLERANHKL
SEQ ID NO. 6081	nhs-2232	DMRTEVIRMMES
SEQ ID NO. 6082	nhs-2250	KQREVLLKTLYH
SEQ ID NO. 6083	nhs-2252	RETMLEVVERTA
SEQ ID NO. 6084	nhs-2258	ENEAFKIDTRIG
SEQ ID NO. 6085	nhs-226	AETIDKLVERTR
SEQ ID NO. 6086	nhs-2514	KVDMAREISKQL
SEQ ID NO. 6087	nhs-2513	QRDREEALHQFR
SEQ ID NO. 6088	nhs-2264	YDEMVETMRKIS
SEQ ID NO. 6089	nhs-233	KSEKEAIVSYTK
SEQ ID NO. 6090	nhs-129	DAKARDVVNRLT
SEQ ID NO. 6091	nhs-232	DDVQKVFQVAKE
SEQ ID NO. 6092	nhs-231	KKQDDNLEHFIS
SEQ ID NO. 6093	nhs-2505	NVTFRKELEKIL
SEQ ID NO. 6094	nhs-2498	IQGKVDEVFRKQ
SEQ ID NO. 6095	nhs-236	EDKAVELYSRTA
SEQ ID NO. 6096	nhs-2649	DEQRKLLKEAQA
SEQ ID NO. 6097	nhs-93	PTIIKDHLKKAN
SEQ ID NO. 6098	nhs-2727	ELKKLELLRQNA
SEQ ID NO. 6099	nhs-1948	ETIKLLEKILES
SEQ ID NO. 6100	nhs-1949	TDNVVEKLRKKY
SEQ ID NO. 6101	nhs-36	VDEALKDAQTRI
SEQ ID NO. 6102	nhs-370	KVFETLEARMTE

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6103	nhs-1952	ARDVLDNLFEKT
SEQ ID NO. 6104	nhs-1957	PVLDRVLENNHR
SEQ ID NO. 6105	nhs-1946	DFSNQLRAELEK
SEQ ID NO. 6106	nhs-367	DKERSHSDIFS
SEQ ID NO. 6107	nhs-363	EEHTYLHAQRQK
SEQ ID NO. 6108	nhs-362	RDLRKAMQQTLE
SEQ ID NO. 6109	nhs-1963	KSELDAYTKKLV
SEQ ID NO. 6110	nhs-360	EKDRNDLITYLK
SEQ ID NO. 6111	nhs-45	TRKLSETVLEDV
SEQ ID NO. 6112	nhs-2705	DEMVETMRKISG
SEQ ID NO. 6113	nhs-1958	SDKIKKFLTESH
SEQ ID NO. 6114	nhs-357	KETKALADFIRN
SEQ ID NO. 6115	nhs-31	LSELENFKKELA
SEQ ID NO. 6116	nhs-2753	RVEKTLELIKQA
SEQ ID NO. 6117	nhs-2810	HEQKTRYLPRVA
SEQ ID NO. 6118	nhs-2809	KDVYEKTESIMG
SEQ ID NO. 6119	nhs-2807	YSHRAAQRERLA
SEQ ID NO. 6120	nhs-6	SDHLTTHIRTHT
SEQ ID NO. 6121	nhs-10	PSGTFVREKIRE
SEQ ID NO. 6122	nhs-2784	NDKRVHRLLTVL
SEQ ID NO. 6123	nhs-2733	ADELSNAKKVRA
SEQ ID NO. 6124	nhs-2773	TEKAWEVLTKAR
SEQ ID NO. 6125	nhs-1893	IIDKLYEKVSKN
SEQ ID NO. 6126	nhs-1899	EKSLTDAVKLAH
SEQ ID NO. 6127	nhs-383	EDIARKEQLKSL
SEQ ID NO. 6128	nhs-22	KSDKDAIVNAWK
SEQ ID NO. 6129	nhs-381	EKLNQLWEKAQR
SEQ ID NO. 6130	nhs-1933	PLEFLRANQRKH
SEQ ID NO. 6131	nhs-2770	TDSAEGVRKFIR
SEQ ID NO. 6132	nhs-356	EADITAIKRLSD

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6133	nhs-2421	QEDLDKIFINVR
SEQ ID NO. 6134	nhs-2684	SNRHKEFENQIR
SEQ ID NO. 6135	nhs-2685	QKELLEVMDQLR
SEQ ID NO. 6136	nhs-2678	REALARLETLDT
SEQ ID NO. 6137	nhs-2660	KSLLKIINDYEE
SEQ ID NO. 6138	nhs-2691	INHAIRQAYEDK
SEQ ID NO. 6139	nhs-2662	EKAEKIKNLFNE
SEQ ID NO. 6140	nhs-2683	KHFRTREVAITQ
SEQ ID NO. 6141	nhs-1986	ISARIKEELLKN
SEQ ID NO. 6142	nhs-1985	SSLKDIDIAREN
SEQ ID NO. 6143	nhs-355	TLKVLRHHQEKL
SEQ ID NO. 6144	nhs-344	KEDIARKEQLKS
SEQ ID NO. 6145	nhs-2665	TLVKVKDAEDQL
SEQ ID NO. 6146	nhs-2782	GDLIRAIQETHDR
SEQ ID NO. 6147	nhs-1253	LDNMREVVERNRA
SEQ ID NO. 6148	nhs-1024	PHQEKLLKILAKT
SEQ ID NO. 6149	nhs-1249	KITQDAAEAIKKY
SEQ ID NO. 6150	nhs-1247	LEKTHELKEVLNK
SEQ ID NO. 6151	nhs-2479	DATKAANDALLKE
SEQ ID NO. 6152	nhs-920	NGLEQAKKFHEAV
SEQ ID NO. 6153	nhs-2776	RSDVLDAAVTRKI
SEQ ID NO. 6154	nhs-1262	VVADSMQRHARKY
SEQ ID NO. 6155	nhs-1235	ESAVRVVERLNRQ
SEQ ID NO. 6156	nhs-2611	DRDTETLVHWIRK
SEQ ID NO. 6157	nhs-922	TVLVHRVHSYLER
SEQ ID NO. 6158	nhs-2484	EEYLTSLGRKHRA
SEQ ID NO. 6159	nhs-1217	SYELERVVRQLEN
SEQ ID NO. 6160	nhs-1214	VNHLVDNTRKLEE
SEQ ID NO. 6161	nhs-996	VEKAETLRKWLNE
SEQ ID NO. 6162	nhs-1032	QDKVVELVDIMQK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6163	nhs-2491	SIHRHTVVKLAHT
SEQ ID NO. 6164	nhs-924	VTDVTTKAKQLKD
SEQ ID NO. 6165	nhs-2495	VDEVRKIFRQLAS
SEQ ID NO. 6166	nhs-2497	ETITLKKLEEWKN
SEQ ID NO. 6167	nhs-2638	LRKQLSLDVLDKL
SEQ ID NO. 6168	nhs-2504	EQADRIVKFAKAN
SEQ ID NO. 6169	nhs-2764	ADERAKINQIIFE
SEQ ID NO. 6170	nhs-932	RYQKERIENVARE
SEQ ID NO. 6171	nhs-2482	KDSDDDLVYRSLK
SEQ ID NO. 6172	nhs-2483	PESVLKVAHHASE
SEQ ID NO. 6173	nhs-1263	KHEAQRLEQEARG
SEQ ID NO. 6174	nhs-917	KHLVEQLIRDLKT
SEQ ID NO. 6175	nhs-1314	ENSLKTAQKVHTE
SEQ ID NO. 6176	nhs-2425	PRNNLKRILKEME
SEQ ID NO. 6177	nhs-2651	EDQINKLVELVKS
SEQ ID NO. 6178	nhs-1019	AQADLLNLKRKVD
SEQ ID NO. 6179	nhs-2441	DEQRKLLKEAQAE
SEQ ID NO. 6180	nhs-2658	MDITMFKEDLKSH
SEQ ID NO. 6181	nhs-2443	DGTIKKWQDIARK
SEQ ID NO. 6182	nhs-2444	VDRINDRLQAIDT
SEQ ID NO. 6183	nhs-1304	KDEVERKMKSLLN
SEQ ID NO. 6184	nhs-1303	VESLNRADREAQA
SEQ ID NO. 6185	nhs-2806	PTVRELKETLENS
SEQ ID NO. 6186	nhs-2647	PKELLDRATTLLE
SEQ ID NO. 6187	nhs-889	EEALSKLLERIKQ
SEQ ID NO. 6188	nhs-2805	KTELIQKAKLAEQ
SEQ ID NO. 6189	nhs-1209	EKLNQLWEKAQRL
SEQ ID NO. 6190	nhs-2455	TKTIAIYDKLKEL
SEQ ID NO. 6191	nhs-2463	PDFRDELTQAAKK
SEQ ID NO. 6192	nhs-2799	LDFKKELEQKVKQ

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6193	nhs-897	VEVKSVVDFIQKH
SEQ ID NO. 6194	nhs-1293	NEIRKKIYQKISE
SEQ ID NO. 6195	nhs-1292	ISKVRHMQEWLET
SEQ ID NO. 6196	nhs-1291	EDVREKLQASLKN
SEQ ID NO. 6197	nhs-2469	PKDQEIKKLVDQN
SEQ ID NO. 6198	nhs-2472	DEHKLLFRVLTNL
SEQ ID NO. 6199	nhs-1272	TTKELIKKLAEIN
SEQ ID NO. 6200	nhs-904	SEDVDIIFTRLKG
SEQ ID NO. 6201	nhs-1270	EDFVKALSDAKQR
SEQ ID NO. 6202	nhs-2790	MKETQEMLDFAAK
SEQ ID NO. 6203	nhs-1267	HLTRAVDRALARS
SEQ ID NO. 6204	nhs-1265	ETTLKRLGATHLR
SEQ ID NO. 6205	nhs-2461	HSKYREEAMQNRI
SEQ ID NO. 6206	nhs-935	EAARQDAQQYRKT
SEQ ID NO. 6207	nhs-1043	DTTLKRLGATHLK
SEQ ID NO. 6208	nhs-941	YQKEIVDKHNALR
SEQ ID NO. 6209	nhs-1148	HTQVIELERKFSH
SEQ ID NO. 6210	nhs-1063	DAERERFRNLTQE
SEQ ID NO. 6211	nhs-1145	KVQLKELEREYAT
SEQ ID NO. 6212	nhs-1064	PEQKKVNQVLKEF
SEQ ID NO. 6213	nhs-2716	EKIIKEFIQKTLT
SEQ ID NO. 6214	nhs-1143	HKTIDRFIALTKT
SEQ ID NO. 6215	nhs-2556	ALKDEALKTFVEQ
SEQ ID NO. 6216	nhs-977	PKLTEALKEQVEK
SEQ ID NO. 6217	nhs-2625	KAVEQVKSDFNKL
SEQ ID NO. 6218	nhs-2712	VESLRKLVDHLIN
SEQ ID NO. 6219	nhs-2569	DQDSNRLSDALTK
SEQ ID NO. 6220	nhs-2624	KEMYNEIIRVLKN
SEQ ID NO. 6221	nhs-2578	DGDLRATIQALHH
SEQ ID NO. 6222	nhs-2689	VEMKSEFLATKAK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6223	nhs-2582	AETLMDRIKKQLR
SEQ ID NO. 6224	nhs-1113	AALETHAQALRER
SEQ ID NO. 6225	nhs-2693	REKRVSNAVEFLL
SEQ ID NO. 6226	nhs-2590	RELTSLLKELLEM
SEQ ID NO. 6227	nhs-978	THEAVHLTAHAKE
SEQ ID NO. 6228	nhs-2707	LDELQLFTDAIRK
SEQ ID NO. 6229	nhs-1098	RDSLGALSKALKE
SEQ ID NO. 6230	nhs-1095	SDERAAVYRAIET
SEQ ID NO. 6231	nhs-2620	SKGAQDLARAIKD
SEQ ID NO. 6232	nhs-1091	DEIRNEAHQLLKL
SEQ ID NO. 6233	nhs-2704	PRTNERIFELLLR
SEQ ID NO. 6234	nhs-2616	LKEAVELAKFTTD
SEQ ID NO. 6235	nhs-1085	HSLNVKLVKELAK
SEQ ID NO. 6236	nhs-2697	HKNVMRMVNHEVS
SEQ ID NO. 6237	nhs-2583	PENAIKRADELIS
SEQ ID NO. 6238	nhs-2554	LKQFKNDLKHVLQ
SEQ ID NO. 6239	nhs-2541	QRVISHVEAEAKI
SEQ ID NO. 6240	nhs-1154	TDKLRGEALDLQH
SEQ ID NO. 6241	nhs-942	DRVNEAAQFARSK
SEQ ID NO. 6242	nhs-943	SWEARALLHTLEH
SEQ ID NO. 6243	nhs-2515	HTTVRNALKDLLK
SEQ ID NO. 6244	nhs-954	WDDQQKVKKTAEA
SEQ ID NO. 6245	nhs-1203	EKAYRQVNELLHN
SEQ ID NO. 6246	nhs-2672	EEDKVAVKAAVQN
SEQ ID NO. 6247	nhs-1199	HHTASESFMKHMQ
SEQ ID NO. 6248	nhs-1198	SAQVQKEEQLKID
SEQ ID NO. 6249	nhs-2517	LSDTVRVNRKMRD
SEQ ID NO. 6250	nhs-2635	LDDARALTTRAKA
SEQ ID NO. 6251	nhs-2750	AVQKESDEYILAK
SEQ ID NO. 6252	nhs-1046	AVERTRELFAKSL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6253	nhs-1047	DTRNRLLAQFADK
SEQ ID NO. 6254	nhs-1196	EFAKVIVQKLKDN
SEQ ID NO. 6255	nhs-1189	ERYVEQLKQALKT
SEQ ID NO. 6256	nhs-2731	LKDKLLHKQFASH
SEQ ID NO. 6257	nhs-1177	KKSYDEIAEKLND
SEQ ID NO. 6258	nhs-2634	DNEKNEFQLVLNK
SEQ ID NO. 6259	nhs-1007	QEAIQAAIKKVED
SEQ ID NO. 6260	nhs-2526	EKLTSQIYEETVK
SEQ ID NO. 6261	nhs-971	HDVHTLVLGREIT
SEQ ID NO. 6262	nhs-1173	QDLRKKIVDLHKS
SEQ ID NO. 6263	nhs-1171	EHVRKVFDEIQQK
SEQ ID NO. 6264	nhs-1168	KEQLAELKVSYLK
SEQ ID NO. 6265	nhs-1165	NWPKTLKLALEKE
SEQ ID NO. 6266	nhs-2630	THGSRMDFIVKEL
SEQ ID NO. 6267	nhs-2725	LTEFTNEKDTLSK
SEQ ID NO. 6268	nhs-976	LNYVKEKLEEVHS
SEQ ID NO. 6269	nhs-1155	VEGVWTLKDEIKT
SEQ ID NO. 6270	nhs-2761	NEDVARTKKIIQR
SEQ ID NO. 6271	nhs-2655	AETKKLLDIVARS
SEQ ID NO. 6272	nhs-1866	DYILKSLLESAEK
SEQ ID NO. 6273	nhs-2420	DRIGTHMINSAEK
SEQ ID NO. 6274	nhs-1666	SEDVVVSKVGRDL
SEQ ID NO. 6275	nhs-2014	HSETVAKHGAKLS
SEQ ID NO. 6276	nhs-2009	LDSTLEAVRKAKD
SEQ ID NO. 6277	nhs-1672	VESNLDVVRQKLE
SEQ ID NO. 6278	nhs-1674	ERNTEKVRDYLES
SEQ ID NO. 6279	nhs-2007	NDRLIATLKSMRD
SEQ ID NO. 6280	nhs-2005	KSTNRDYLAERLR
SEQ ID NO. 6281	nhs-2004	REEWKGGAETNKI
SEQ ID NO. 6282	nhs-1681	SAAIHRLVDTSEK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6283	nhs-1665	PKAGDEFVEKTLS
SEQ ID NO. 6284	nhs-2002	TPRKRLKESLDQI
SEQ ID NO. 6285	nhs-1694	EHSAKSLRLLLAE
SEQ ID NO. 6286	nhs-1992	QEFREAIRKALLT
SEQ ID NO. 6287	nhs-1698	TKDAEKVVSEIKA
SEQ ID NO. 6288	nhs-1991	LEGLKDITREVAS
SEQ ID NO. 6289	nhs-1703	VTDRIVRTLHDLS
SEQ ID NO. 6290	nhs-1706	DSKLVDKIANEIS
SEQ ID NO. 6291	nhs-1989	EGHLSLMRLARQH
SEQ ID NO. 6292	nhs-1717	QEYVRETIDKLMA
SEQ ID NO. 6293	nhs-1718	PTRKEEVVRALNN
SEQ ID NO. 6294	nhs-1683	SAIKDELIKTLDG
SEQ ID NO. 6295	nhs-2021	RDVDTTMELLKRL
SEQ ID NO. 6296	nhs-2023	VDTTRHVDVLHAW
SEQ ID NO. 6297	nhs-2029	EKLKETVVKAVSI
SEQ ID NO. 6298	nhs-2086	KSRLSHQITRMEN
SEQ ID NO. 6299	nhs-1621	SRLEDAVKKTVAE
SEQ ID NO. 6300	nhs-2085	SVDTLAKLAREKL
SEQ ID NO. 6301	nhs-2084	DADKTRYTALIIK
SEQ ID NO. 6302	nhs-2080	PEQVIAEAIRKKT
SEQ ID NO. 6303	nhs-2079	ETTLKRLGASHSK
SEQ ID NO. 6304	nhs-2078	DTSNRLKQIMAER
SEQ ID NO. 6305	nhs-2072	TSDVIKDLMERIK
SEQ ID NO. 6306	nhs-1629	PRQLKEIQDFVKE
SEQ ID NO. 6307	nhs-2061	EKAAQKVVSEVEA
SEQ ID NO. 6308	nhs-1632	TTGVHRLYQMEKD
SEQ ID NO. 6309	nhs-2059	DRTQTVLRDIRDA
SEQ ID NO. 6310	nhs-1637	DAQKEKYLPKLAT
SEQ ID NO. 6311	nhs-1644	QHGSRFIQQKLER
SEQ ID NO. 6312	nhs-1650	EADYIERTVSKVM

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6313	nhs-2044	LDKMQQFVTKLHR
SEQ ID NO. 6314	nhs-2041	DLKTIKKTLQELL
SEQ ID NO. 6315	nhs-1653	RETVNKALADFAH
SEQ ID NO. 6316	nhs-2038	WDQLLDNVAKLKK
SEQ ID NO. 6317	nhs-1659	DVPEALNRTLKDL
SEQ ID NO. 6318	nhs-2036	EKVADRLKFQLGQ
SEQ ID NO. 6319	nhs-1728	STEVELSMKLREY
SEQ ID NO. 6320	nhs-2106	PDLHLNRATLHKY
SEQ ID NO. 6321	nhs-1732	SLEAKAIVDKTMD
SEQ ID NO. 6322	nhs-1741	EHGKSIVEHSKKI
SEQ ID NO. 6323	nhs-1889	AQDFRKSMELARE
SEQ ID NO. 6324	nhs-1888	EQDVNAAHDRLAR
SEQ ID NO. 6325	nhs-1821	TDQKVSEAKRAMQ
SEQ ID NO. 6326	nhs-1885	VSTVQRSVKKLHE
SEQ ID NO. 6327	nhs-1828	TEKTLKLVKQAEK
SEQ ID NO. 6328	nhs-1829	EKTVELLRNVLKE
SEQ ID NO. 6329	nhs-1831	IDEARQELHRIIN
SEQ ID NO. 6330	nhs-1883	RDAQAVQRQRVAD
SEQ ID NO. 6331	nhs-1879	TREKLNRILSERT
SEQ ID NO. 6332	nhs-1898	IFASRTLIDRLKE
SEQ ID NO. 6333	nhs-1834	ADAHSNLASIHKD
SEQ ID NO. 6334	nhs-1836	RQEYEDIAVKLGT
SEQ ID NO. 6335	nhs-1839	HHAWHRLLDQALN
SEQ ID NO. 6336	nhs-1848	KSYKELVTLSAEE
SEQ ID NO. 6337	nhs-1873	PSRDRLLAHLGTE
SEQ ID NO. 6338	nhs-1851	TEKAWEVLTKARA
SEQ ID NO. 6339	nhs-1852	EYRKKLMDGLTNQ
SEQ ID NO. 6340	nhs-1871	KDKLKNLIWIHEN
SEQ ID NO. 6341	nhs-1854	EQYREPLRNALKD
SEQ ID NO. 6342	nhs-1868	NEEKSYKIPRVNS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6343	nhs-1874	ESNLKRLGAIHFK
SEQ ID NO. 6344	nhs-1812	EQLARKAEAQAKK
SEQ ID NO. 6345	nhs-1903	MGHAEKIASELKT
SEQ ID NO. 6346	nhs-1906	QEDTFAAELHRLK
SEQ ID NO. 6347	nhs-1974	LETNLRKLFDKLL
SEQ ID NO. 6348	nhs-1969	IKETQEMVDFSIK
SEQ ID NO. 6349	nhs-1747	ESTLYPILKKLEK
SEQ ID NO. 6350	nhs-1751	LKEVETSLSRFEQ
SEQ ID NO. 6351	nhs-1752	EQVAKEAQKILTK
SEQ ID NO. 6352	nhs-1766	EKEGLEVLSAIRN
SEQ ID NO. 6353	nhs-1768	ERVKETLRTVKKD
SEQ ID NO. 6354	nhs-1773	ESGQKELQIRYEK
SEQ ID NO. 6355	nhs-1775	EKSLRTMDRLVRA
SEQ ID NO. 6356	nhs-1777	QKDRDIFVKKAES
SEQ ID NO. 6357	nhs-1940	AKELAELANRAES
SEQ ID NO. 6358	nhs-1790	TSTILREVELLKK
SEQ ID NO. 6359	nhs-1938	QDERDIAATVRQF
SEQ ID NO. 6360	nhs-1934	RTAHNAREKLAES
SEQ ID NO. 6361	nhs-1793	VKEAKQIVKDWKS
SEQ ID NO. 6362	nhs-1929	DTTKKIIDEALYH
SEQ ID NO. 6363	nhs-1928	TSEAVELAKHAEK
SEQ ID NO. 6364	nhs-1799	YEVKRARELNQLL
SEQ ID NO. 6365	nhs-1800	SEVKAYETKVAVE
SEQ ID NO. 6366	nhs-1927	VWALDSEVKSLHR
SEQ ID NO. 6367	nhs-1908	EENRKAFEKALET
SEQ ID NO. 6368	nhs-1734	DQIVNNKVKKGLE
SEQ ID NO. 6369	nhs-1318	DGLIAERQKLLDS
SEQ ID NO. 6370	nhs-1607	QTHAKRAYRELVL
SEQ ID NO. 6371	nhs-1602	PQEKLKTVKENWK
SEQ ID NO. 6372	nhs-1432	SEKFLNDLVDSMK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6373	nhs-2323	PANFEAQMKHLKD
SEQ ID NO. 6374	nhs-1437	HGESLRVHALAES
SEQ ID NO. 6375	nhs-1440	RETVTKVIGELAR
SEQ ID NO. 6376	nhs-2317	LADFRQTIDKVDA
SEQ ID NO. 6377	nhs-1444	KPEIRALNELADS
SEQ ID NO. 6378	nhs-2315	RADVKSVMDSLIR
SEQ ID NO. 6379	nhs-2314	QRRIKKVTHDMDM
SEQ ID NO. 6380	nhs-2303	RELVKKVSDVIWN
SEQ ID NO. 6381	nhs-1863	VQTLRERLIDALE
SEQ ID NO. 6382	nhs-1448	DVRTERLRDRITQ
SEQ ID NO. 6383	nhs-1458	LSTAQKIIKEARD
SEQ ID NO. 6384	nhs-1460	EVSSRVVHAIKEA
SEQ ID NO. 6385	nhs-1461	SRVSRFADLSKEV
SEQ ID NO. 6386	nhs-1466	EKVESEIKKVENF
SEQ ID NO. 6387	nhs-2274	EDRLNQIVQELRG
SEQ ID NO. 6388	nhs-2267	RIRDEVFKVLQQH
SEQ ID NO. 6389	nhs-1473	PATVDRTHALMRK
SEQ ID NO. 6390	nhs-1478	SKVIIDRVTEYLE
SEQ ID NO. 6391	nhs-1479	KSAKSLKPLFDEL
SEQ ID NO. 6392	nhs-2287	VDKRNETTLKLIK
SEQ ID NO. 6393	nhs-1418	KETLLADMRQAER
SEQ ID NO. 6394	nhs-2336	MDIQARIKFETEG
SEQ ID NO. 6395	nhs-1390	VKSYDEIIKKLSD
SEQ ID NO. 6396	nhs-2419	KDTVEKVRQTFEN
SEQ ID NO. 6397	nhs-1326	DEVSTKILMEFNK
SEQ ID NO. 6398	nhs-1331	FDTVADKIHSVSR
SEQ ID NO. 6399	nhs-2411	ENVLEAARHLHQT
SEQ ID NO. 6400	nhs-1334	RDKVNDIVDQVIT
SEQ ID NO. 6401	nhs-2398	RERVASLLKERLT
SEQ ID NO. 6402	nhs-2393	VDKRNETTLRLIK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6403	nhs-2392	ESLVEKVKEFLST
SEQ ID NO. 6404	nhs-2391	PDKVKEFAQRITA
SEQ ID NO. 6405	nhs-1345	GEANVKKEIQLLR
SEQ ID NO. 6406	nhs-1349	RMREQLNFLAEEL
SEQ ID NO. 6407	nhs-1351	EKTLRDKLVLATE
SEQ ID NO. 6408	nhs-2387	PDATAETKALLHR
SEQ ID NO. 6409	nhs-1356	ESAVTDFAARLRE
SEQ ID NO. 6410	nhs-1362	ITKHMERYLDILN
SEQ ID NO. 6411	nhs-2370	QEFREAIRKALVS
SEQ ID NO. 6412	nhs-2368	DNKLNEIGEKYKK
SEQ ID NO. 6413	nhs-1374	RVTVTRLLGDLRE
SEQ ID NO. 6414	nhs-1375	AQRLHEIRTQLVE
SEQ ID NO. 6415	nhs-1382	GLDRKEVQQLTVK
SEQ ID NO. 6416	nhs-1389	TIDKVSDIVKEKL
SEQ ID NO. 6417	nhs-1480	AVLKDRVSRNSAD
SEQ ID NO. 6418	nhs-1606	PKARQEVDHHWQA
SEQ ID NO. 6419	nhs-1487	KAHSIRLRALAQE
SEQ ID NO. 6420	nhs-2263	TAMLKDTTELLKK
SEQ ID NO. 6421	nhs-2171	KDMKKAVMAFQDQ
SEQ ID NO. 6422	nhs-1559	TSLIKLVKDKIRE
SEQ ID NO. 6423	nhs-1561	KDVQKTLQNDVDN
SEQ ID NO. 6424	nhs-2169	TVSLTKKIKEAVD
SEQ ID NO. 6425	nhs-2163	DSDINRGIAKALK
SEQ ID NO. 6426	nhs-2154	GEELSHLKKALTI
SEQ ID NO. 6427	nhs-1574	NEDFVRLSTEARK
SEQ ID NO. 6428	nhs-2152	DDIVEQQKPIAIK
SEQ ID NO. 6429	nhs-1577	EVITSAMAKKAHE
SEQ ID NO. 6430	nhs-2172	SDLVDQGKERLNR
SEQ ID NO. 6431	nhs-1578	SHREMTSKLLSDL
SEQ ID NO. 6432	nhs-1584	LAELKSYHQAHKA

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6433	nhs-1585	KTKSVAEIIRDEF
SEQ ID NO. 6434	nhs-2143	SLTHAFKLLDKID
SEQ ID NO. 6435	nhs-1587	ASQVEKDSDLNQK
SEQ ID NO. 6436	nhs-2138	EAETRATVQKYKT
SEQ ID NO. 6437	nhs-2135	DTVYKKLVQREKT
SEQ ID NO. 6438	nhs-2131	KESLEALDAAKTA
SEQ ID NO. 6439	nhs-1597	RETVRQALRELLI
SEQ ID NO. 6440	nhs-2114	VQKDLERLTQERI
SEQ ID NO. 6441	nhs-1579	TTDVEKSFDKLLK
SEQ ID NO. 6442	nhs-2177	DRALTAAVKISER
SEQ ID NO. 6443	nhs-1550	VEFVKHELNRLLS
SEQ ID NO. 6444	nhs-1549	TAKDIAEAQKMLD
SEQ ID NO. 6445	nhs-2259	PEDVLKTAIKTVE
SEQ ID NO. 6446	nhs-1501	QEVEVAKSIAEKL
SEQ ID NO. 6447	nhs-2251	RETVSRVLHALAE
SEQ ID NO. 6448	nhs-2244	LKDISIIISHFDK
SEQ ID NO. 6449	nhs-2243	QATVQKIRDAIRD
SEQ ID NO. 6450	nhs-1505	AEKVDAINDVLRS
SEQ ID NO. 6451	nhs-1509	ADIRKEVEQIDKS
SEQ ID NO. 6452	nhs-2217	LKSHQVRLVLAEK
SEQ ID NO. 6453	nhs-1516	DADILSWANRKVR
SEQ ID NO. 6454	nhs-1518	QETIKHVKDLIAE
SEQ ID NO. 6455	nhs-2214	EKIQKEAQEALEK
SEQ ID NO. 6456	nhs-2210	EARVRNQFLKEMD
SEQ ID NO. 6457	nhs-2202	EKAILNVTKEWKK
SEQ ID NO. 6458	nhs-2199	HSQYREEALLNRL
SEQ ID NO. 6459	nhs-1527	IPDAERILKTLET
SEQ ID NO. 6460	nhs-1528	TEKSKELAEIVVQ
SEQ ID NO. 6461	nhs-1533	RKDRDTARQLHEV
SEQ ID NO. 6462	nhs-2191	VKEQEWSMAVERG

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6463	nhs-1542	TRTRLSFEKAARE
SEQ ID NO. 6464	nhs-2181	RKSADKALEVYKS
SEQ ID NO. 6465	nhs-1544	FNTLKNNMKDIHD
SEQ ID NO. 6466	nhs-1490	DAHSIRLRALAQE
SEQ ID NO. 6467	nhs-873	DATRERIKSAATR
SEQ ID NO. 6468	nhs-1408	SKAKDRVMDIART
SEQ ID NO. 6469	nhs-592	SEMALKWITKGEK
SEQ ID NO. 6470	nhs-724	ITRDSVIRIAKDL
SEQ ID NO. 6471	nhs-145	ENEVGVAIQEKLR
SEQ ID NO. 6472	nhs-573	DNVTKDVFADLNR
SEQ ID NO. 6473	nhs-285	KTLKKIAEKVESE
SEQ ID NO. 6474	nhs-812	MKETQEMIDFAAK
SEQ ID NO. 6475	nhs-289	EAQKEKYLPKLIS
SEQ ID NO. 6476	nhs-699	VQEGVDKIRHFQE
SEQ ID NO. 6477	nhs-282	QMLEKNAREAVKE
SEQ ID NO. 6478	nhs-568	RAEVVQQLEKELF
SEQ ID NO. 6479	nhs-567	DKERSIISDIFSH
SEQ ID NO. 6480	nhs-378	DRNDLITYLKKAT
SEQ ID NO. 6481	nhs-139	DQQKKKYLGRMTE
SEQ ID NO. 6482	nhs-137	AEADKAIQRYESL
SEQ ID NO. 6483	nhs-111	KANREKMTQIMFE
SEQ ID NO. 6484	nhs-369	RKITDDLVKNVEK
SEQ ID NO. 6485	nhs-74	MIGEETKAQILDK
SEQ ID NO. 6486	nhs-380	EQIAKEALKVLTK
SEQ ID NO. 6487	nhs-771	EKLVKNLFQLARE
SEQ ID NO. 6488	nhs-726	RQALGEAREVIKN
SEQ ID NO. 6489	nhs-588	QVTKDAAEAIKKH
SEQ ID NO. 6490	nhs-394	NEQVAEKVKVAID
SEQ ID NO. 6491	nhs-484	YDKTTEVIIRDIR
SEQ ID NO. 6492	nhs-485	SDEVRKNLMDMFR

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6493	nhs-835	VETGKKVVELSEK
SEQ ID NO. 6494	nhs-693	RKNVEYLEKLRES
SEQ ID NO. 6495	nhs-150	LLRETKVGVEVNK
SEQ ID NO. 6496	nhs-264	PRTREVLKEWIAS
SEQ ID NO. 6497	nhs-267	SKAVKEAYENAQK
SEQ ID NO. 6498	nhs-694	MESKARLLSLVKD
SEQ ID NO. 6499	nhs-65	EETRNAVWAAIKE
SEQ ID NO. 6500	nhs-268	QHGSRFIQLKLER
SEQ ID NO. 6501	nhs-768	DERMAQFTARLNE
SEQ ID NO. 6502	nhs-831	EHVQRLLLSSREA
SEQ ID NO. 6503	nhs-12	KNELVQKAKLAEQ
SEQ ID NO. 6504	nhs-272	AADRDGLRAQWQR
SEQ ID NO. 6505	nhs-829	DRIGFSMISDAEK
SEQ ID NO. 6506	nhs-387	DEDVREKLQASLK
SEQ ID NO. 6507	nhs-75	KENKKFLLDLMLN
SEQ ID NO. 6508	nhs-253	VKELEAYTDAIQR
SEQ ID NO. 6509	nhs-703	KAKIDPILEARQN
SEQ ID NO. 6510	nhs-302	WESAEKVVKTLLK
SEQ ID NO. 6511	nhs-19	IQEIDKAIKKAAQ
SEQ ID NO. 6512	nhs-121	AETIKELARLFES
SEQ ID NO. 6513	nhs-79	PTKFAEIVEENLK
SEQ ID NO. 6514	nhs-335	TDIVEAVAERLQR
SEQ ID NO. 6515	nhs-784	SKEIVTLVEDFHR
SEQ ID NO. 6516	nhs-117	DSGRETVRAALKH
SEQ ID NO. 6517	nhs-793	KADLREAIQTMLD
SEQ ID NO. 6518	nhs-711	TLELTRQVKEKLA
SEQ ID NO. 6519	nhs-37	KQYLELMQKVLDE
SEQ ID NO. 6520	nhs-342	LDLTKILSKKYKE
SEQ ID NO. 6521	nhs-789	VDQAKRIADELIS
SEQ ID NO. 6522	nhs-83	AAQIKKLKEAIDS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6523	nhs-119	EKEAKDSAITFIQ
SEQ ID NO. 6524	nhs-118	DAQRQATKDAGRI
SEQ ID NO. 6525	nhs-347	KQQFLKVLKEAES
SEQ ID NO. 6526	nhs-350	TLKVLRHHQEKLE
SEQ ID NO. 6527	nhs-80	TKIAEKIDEFLAT
SEQ ID NO. 6528	nhs-330	EKLALDLLEQIKN
SEQ ID NO. 6529	nhs-329	DIFNKNLRAHALE
SEQ ID NO. 6530	nhs-125	IQEIVDKVKPQLE
SEQ ID NO. 6531	nhs-777	MKQYLKTKLLEEV
SEQ ID NO. 6532	nhs-112	LEELFSKIKNTLK
SEQ ID NO. 6533	nhs-133	RDEVLAQLEKSLK
SEQ ID NO. 6534	nhs-32	QETRKKTMVDLET
SEQ ID NO. 6535	nhs-311	TWVRDVVRSMDRK
SEQ ID NO. 6536	nhs-78	DIFNKNMRAHALE
SEQ ID NO. 6537	nhs-359	LRKTADDFLNRIA
SEQ ID NO. 6538	nhs-801	FDVKIAEQISKET
SEQ ID NO. 6539	nhs-318	EALIRKASEISIK
SEQ ID NO. 6540	nhs-130	DAKARDVVNRLTA
SEQ ID NO. 6541	nhs-320	MDQVMKAHELYQK
SEQ ID NO. 6542	nhs-128	PSGTFVREKIRES
SEQ ID NO. 6543	nhs-542	LEKVREQVQAAHA
SEQ ID NO. 6544	nhs-325	RPRVEQITAELLD
SEQ ID NO. 6545	nhs-503	RDLASRIVSTQHH
SEQ ID NO. 6546	nhs-114	TSLMERVTEYAEK
SEQ ID NO. 6547	nhs-328	QENKKKTVVDFET
SEQ ID NO. 6548	nhs-776	LKEISDLIKKELT
SEQ ID NO. 6549	nhs-604	RKSLGELIHTLDG
SEQ ID NO. 6550	nhs-351	TASVDKKYAELVD
SEQ ID NO. 6551	nhs-482	AQELKQLIDTAKE
SEQ ID NO. 6552	nhs-457	DDKLEQIRKDYTS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6553	nhs-212	FKQLVEDLDRILT
SEQ ID NO. 6554	nhs-458	PRQKEALAKFREN
SEQ ID NO. 6555	nhs-25	AATLEEKLNKIFE
SEQ ID NO. 6556	nhs-97	KKSLTEIKDVLAS
SEQ ID NO. 6557	nhs-670	QKDLKDWVEALNQ
SEQ ID NO. 6558	nhs-1	ETTRLWREVVTEV
SEQ ID NO. 6559	nhs-736	KDATNEAIRDWIT
SEQ ID NO. 6560	nhs-218	YDDIKAAMKTASE
SEQ ID NO. 6561	nhs-7	EKVIKWAEQNAAE
SEQ ID NO. 6562	nhs-414	KEEDQRVIKLVQK
SEQ ID NO. 6563	nhs-758	EEQVDKINQRLKE
SEQ ID NO. 6564	nhs-164	VDEALKDAQTRIT
SEQ ID NO. 6565	nhs-410	NETRAYVLDRMKE
SEQ ID NO. 6566	nhs-416	KEELVRLIQTAHA
SEQ ID NO. 6567	nhs-463	EAEKTGAQELLRV
SEQ ID NO. 6568	nhs-741	LEDLKLTTDLLLK
SEQ ID NO. 6569	nhs-427	PEFQANEVRKVKK
SEQ ID NO. 6570	nhs-183	RADLEATLRKITD
SEQ ID NO. 6571	nhs-868	PRAIETAKENAKL
SEQ ID NO. 6572	nhs-185	QEALSVARAFDEK
SEQ ID NO. 6573	nhs-187	KDRNDLITYLKKA
SEQ ID NO. 6574	nhs-434	RETLLTMAERARA
SEQ ID NO. 6575	nhs-648	ETTRLALKALARH
SEQ ID NO. 6576	nhs-666	IPSKYRDELTAKL
SEQ ID NO. 6577	nhs-194	AKVSEALEKRYSM
SEQ ID NO. 6578	nhs-26	ISDTVKRAREAFN
SEQ ID NO. 6579	nhs-195	SDDRKKHLLIREQ
SEQ ID NO. 6580	nhs-862	TSTISALERVKKE
SEQ ID NO. 6581	nhs-754	THASIDLTKKATE
SEQ ID NO. 6582	nhs-662	ETRINIVKLTEKI

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6583	nhs-172	KQRIVEEVTRLLK
SEQ ID NO. 6584	nhs-430	SEDAKGLIKSAIR
SEQ ID NO. 6585	nhs-628	VRDERNVIRAASN
SEQ ID NO. 6586	nhs-220	PRDVETLLQGMRD
SEQ ID NO. 6587	nhs-477	AKDRVDLQFGVEQ
SEQ ID NO. 6588	nhs-684	TDGTGHIRAIKES
SEQ ID NO. 6589	nhs-241	QESVKSKVQYLKD
SEQ ID NO. 6590	nhs-163	EQLLRKAEAQAKK
SEQ ID NO. 6591	nhs-23	VENVTELKKNFNR
SEQ ID NO. 6592	nhs-473	MRQVEALVEASKE
SEQ ID NO. 6593	nhs-622	RDHLENFVKSLEA
SEQ ID NO. 6594	nhs-844	QKEIDRLNEVAKN
SEQ ID NO. 6595	nhs-763	LDEIISRAKKAET
SEQ ID NO. 6596	nhs-59	LEKLTQDVLDIAR
SEQ ID NO. 6597	nhs-476	DKLISETAKSVMK
SEQ ID NO. 6598	nhs-159	QRVEAMFHTLDKI
SEQ ID NO. 6599	nhs-470	VTESIDAHLLAKK
SEQ ID NO. 6600	nhs-467	EGLYDQIMRVKND
SEQ ID NO. 6601	nhs-242	NREIREINRVYKE
SEQ ID NO. 6602	nhs-690	LNVLERKLSEFDK
SEQ ID NO. 6603	nhs-396	MRERIEFLNEASV
SEQ ID NO. 6604	nhs-162	EQHLRKAEAQAKK
SEQ ID NO. 6605	nhs-46	VEVKSIVDFIKSH
SEQ ID NO. 6606	nhs-62	VEVKSIVDFVKNH
SEQ ID NO. 6607	nhs-1730	GTHSKEREVWKEAL
SEQ ID NO. 6608	nhs-512	NGKNRVKQWDTLVD
SEQ ID NO. 6609	nhs-1646	EKLKIKAQSYLDAI
SEQ ID NO. 6610	nhs-2579	PEQVIAEAIRKKTR
SEQ ID NO. 6611	nhs-1657	RDKVNDIVDQVITI
SEQ ID NO. 6612	nhs-442	EAEKTAAQELLKVL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6613	nhs-517	RHVAEREIATLAGS
SEQ ID NO. 6614	nhs-1738	NQDELKKLAATEAA
SEQ ID NO. 6615	nhs-519	LMDNARVVDQLMKD
SEQ ID NO. 6616	nhs-451	THLQVMAKERFHAG
SEQ ID NO. 6617	nhs-1791	ELSNRIREHGRNIA
SEQ ID NO. 6618	nhs-450	NVRELKNVIERAVL
SEQ ID NO. 6619	nhs-101	PTRDVVQRALAELE
SEQ ID NO. 6620	nhs-1715	NERNEALLKRINGR
SEQ ID NO. 6621	nhs-483	REELTAVMRFLTQR
SEQ ID NO. 6622	nhs-1739	QERAKELAENASFI
SEQ ID NO. 6623	nhs-1724	YRGKIEKAVDLTSS
SEQ ID NO. 6624	nhs-1656	RQHNFEVAKELLET
SEQ ID NO. 6625	nhs-448	DPVNQHVISEGLKK
SEQ ID NO. 6626	nhs-1697	FRDLALRVDQIRDN
SEQ ID NO. 6627	nhs-1740	EKLLDKAQRIVTNS
SEQ ID NO. 6628	nhs-453	HQAMRAAGDEFETR
SEQ ID NO. 6629	nhs-1695	RKTMLELVEKVAEQ
SEQ ID NO. 6630	nhs-465	RLENDIIRLINRTV
SEQ ID NO. 6631	nhs-1691	LSDFKELLRTVKAT
SEQ ID NO. 6632	nhs-1753	EDEVKTLLELKTKY
SEQ ID NO. 6633	nhs-1759	AQITEAIDGVRERL
SEQ ID NO. 6634	nhs-1761	QNRFDSLITELGKE
SEQ ID NO. 6635	nhs-2612	PDKIEKILSTLVKG
SEQ ID NO. 6636	nhs-86	PDIRERFTKSRDAT
SEQ ID NO. 6637	nhs-461	LRDRIKSKVDEQFD
SEQ ID NO. 6638	nhs-2597	QRDRLRSYRLLAEA
SEQ ID NO. 6639	nhs-488	LDEAIQLAKALEKN
SEQ ID NO. 6640	nhs-496	EEYLTSLGRKHRAV
SEQ ID NO. 6641	nhs-1721	LKSTQTVIHKALEK
SEQ ID NO. 6642	nhs-2617	EKSFKALMHLVSNE

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6643	nhs-1705	MKEVDEQMLNVQNK
SEQ ID NO. 6644	nhs-501	TVEMLVKVISEHKN
SEQ ID NO. 6645	nhs-1708	ADEVVKVANWAKDN
SEQ ID NO. 6646	nhs-2596	GDTHKRIWDAVASA
SEQ ID NO. 6647	nhs-1711	NSELIRLSMVLKEK
SEQ ID NO. 6648	nhs-2593	PEDKVKAVTKLNQH
SEQ ID NO. 6649	nhs-1771	KEGKATVEALINKY
SEQ ID NO. 6650	nhs-1671	DDEKNVAIAKYSQL
SEQ ID NO. 6651	nhs-1712	PTTDALEKKLAVLE
SEQ ID NO. 6652	nhs-1669	REVLAEKVKNAVNN
SEQ ID NO. 6653	nhs-2586	QTVDRLHFIKRMQE
SEQ ID NO. 6654	nhs-2584	ERQVRIQLKDHIDR
SEQ ID NO. 6655	nhs-870	KETIDKVSDIVKEK
SEQ ID NO. 6656	nhs-1596	VDDTSDVIDALRKR
SEQ ID NO. 6657	nhs-1639	AASIDAVFETLEKK
SEQ ID NO. 6658	nhs-1430	REQLTQLVEFAKKN
SEQ ID NO. 6659	nhs-1431	LSTAQKIIKEARDA
SEQ ID NO. 6660	nhs-1434	NEKTAELIKELKEK
SEQ ID NO. 6661	nhs-1435	KEVVKANIDKIKSL
SEQ ID NO. 6662	nhs-2671	DESRGKARAAGVES
SEQ ID NO. 6663	nhs-1438	AEVHSQFDALKARI
SEQ ID NO. 6664	nhs-634	PGQREKLFSKLIDI
SEQ ID NO. 6665	nhs-632	NKAAREMKERVGQT
SEQ ID NO. 6666	nhs-1445	PDQVKASIDHIFKE
SEQ ID NO. 6667	nhs-1429	EVITSAMAKKAHEL
SEQ ID NO. 6668	nhs-1451	KDKTKGDAIDLSNA
SEQ ID NO. 6669	nhs-1456	ADHLLKAHLQKLMS
SEQ ID NO. 6670	nhs-1459	SLQIMEKIIKKAGD
SEQ ID NO. 6671	nhs-2667	SKEILAEAKKLNDA
SEQ ID NO. 6672	nhs-1465	EKVESEIKKVENFL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6673	nhs-1467	ADRVLKEFKDLLNS
SEQ ID NO. 6674	nhs-1469	AEFLVKSKHRDLTA
SEQ ID NO. 6675	nhs-1470	KETSDLLRKIAADS
SEQ ID NO. 6676	nhs-1474	HRDDVAEVTKLLAT
SEQ ID NO. 6677	nhs-1475	PETGESAARHLERA
SEQ ID NO. 6678	nhs-1455	FDDALNIVRKIGEN
SEQ ID NO. 6679	nhs-1428	REKLEAAASRIASL
SEQ ID NO. 6680	nhs-1424	QEGLRKHFGKVAES
SEQ ID NO. 6681	nhs-640	RKLIDDAVAWAKQQ
SEQ ID NO. 6682	nhs-1364	DADKENIIALSKAL
SEQ ID NO. 6683	nhs-1365	PRTLNAWVKLVEEK
SEQ ID NO. 6684	nhs-1370	IQRRIKKVTHDMDM
SEQ ID NO. 6685	nhs-651	FDDALRLTQKLTEA
SEQ ID NO. 6686	nhs-650	KDRGMTLAVSKAVE
SEQ ID NO. 6687	nhs-1376	LSDYIKLTKENMRK
SEQ ID NO. 6688	nhs-2688	DRLTRAAKVLEQLS
SEQ ID NO. 6689	nhs-1383	VSEVKAIIKKQVDE
SEQ ID NO. 6690	nhs-1386	MSAVVKKVADRLTE
SEQ ID NO. 6691	nhs-1387	AVNHIKSVWKDLLE
SEQ ID NO. 6692	nhs-1388	HHELTRVASALRKL
SEQ ID NO. 6693	nhs-1392	RNDIVQSLEKAVDM
SEQ ID NO. 6694	nhs-56	AQADLLNLKRKVDA
SEQ ID NO. 6695	nhs-1394	LDRFQEAISAIREV
SEQ ID NO. 6696	nhs-1395	VNEIDKIVERTREL
SEQ ID NO. 6697	nhs-1396	RGFLKQLRELDKQL
SEQ ID NO. 6698	nhs-1397	RLERARQMGASLEA
SEQ ID NO. 6699	nhs-2681	LDLARKELKKMQDQ
SEQ ID NO. 6700	nhs-1410	LNQLKRIVDKASEL
SEQ ID NO. 6701	nhs-2677	EKIIKEFITKTLTD
SEQ ID NO. 6702	nhs-1417	LEVSRAAERVFKKQ

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6703	nhs-1481	RTTEKKIMDKLVQE
SEQ ID NO. 6704	nhs-2663	DRAEMVETQKTFTL
SEQ ID NO. 6705	nhs-2659	EDLKQKVLDNWTKM
SEQ ID NO. 6706	nhs-607	RHMVHELVSNLRKE
SEQ ID NO. 6707	nhs-559	LATLERYVETQAKE
SEQ ID NO. 6708	nhs-76	EDLIWKLLSKAQEK
SEQ ID NO. 6709	nhs-2632	QDYVKELHQQITRL
SEQ ID NO. 6710	nhs-1589	RDHETSHSLAREVY
SEQ ID NO. 6711	nhs-1593	KAEVLKDENSRLNA
SEQ ID NO. 6712	nhs-1806	EALIRKASEISIKA
SEQ ID NO. 6713	nhs-544	ESLVDQRIKEALSR
SEQ ID NO. 6714	nhs-77	PKLLHRVVEQLQKV
SEQ ID NO. 6715	nhs-2629	SENQVIAVDTQREK
SEQ ID NO. 6716	nhs-1605	RELARQIMDVVTEM
SEQ ID NO. 6717	nhs-1608	HAQAVDYIKKLMTK
SEQ ID NO. 6718	nhs-1609	STDKDTLAVFVDRV
SEQ ID NO. 6719	nhs-1611	ADESIDIVKAVKTR
SEQ ID NO. 6720	nhs-1614	DKSHDQAVRTYQEH
SEQ ID NO. 6721	nhs-1617	WVDKVKDLTKSEMN
SEQ ID NO. 6722	nhs-1620	KDEMKKILEDFLNT
SEQ ID NO. 6723	nhs-533	TDTLERVTEIFKAL
SEQ ID NO. 6724	nhs-1623	VRDVRDESNKLIAK
SEQ ID NO. 6725	nhs-530	REALRAEWQATAKE
SEQ ID NO. 6726	nhs-527	IVEKILQYRELTKL
SEQ ID NO. 6727	nhs-1636	PREIKNAIEKSVTD
SEQ ID NO. 6728	nhs-562	TNRVELLAKKITDL
SEQ ID NO. 6729	nhs-1641	PHELSRVAATLRKL
SEQ ID NO. 6730	nhs-1569	KGYKLIAEVITKTD
SEQ ID NO. 6731	nhs-1564	RETLEISYRNAIAR
SEQ ID NO. 6732	nhs-63	EETRNAVWAAIKEL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6733	nhs-600	DNGLKVEVRSILEK
SEQ ID NO. 6734	nhs-599	FQLATKIMDKLIRD
SEQ ID NO. 6735	nhs-595	LREGVLVSEVLKEN
SEQ ID NO. 6736	nhs-593	MYNGDRARKQVLVD
SEQ ID NO. 6737	nhs-1508	LDQAESIYKAAAER
SEQ ID NO. 6738	nhs-590	REEWKGQAETNKIL
SEQ ID NO. 6739	nhs-1514	LKSLQVRLELAREL
SEQ ID NO. 6740	nhs-1517	SEQVVHQLERLIAR
SEQ ID NO. 6741	nhs-1529	EAMWRETIARVRTE
SEQ ID NO. 6742	nhs-1532	KSTLAVELEHQLVR
SEQ ID NO. 6743	nhs-579	NEPHQRLESLVKSK
SEQ ID NO. 6744	nhs-1536	AFTKSVDELREMAG
SEQ ID NO. 6745	nhs-577	AERIRQLETEAGER
SEQ ID NO. 6746	nhs-575	EDDAIASIHRIFKN
SEQ ID NO. 6747	nhs-1547	QLDTAVVRALRERF
SEQ ID NO. 6748	nhs-1552	KEAETRVRALLKET
SEQ ID NO. 6749	nhs-1553	RELASQIHRELIKI
SEQ ID NO. 6750	nhs-1555	GPEASAFKKKMVEN
SEQ ID NO. 6751	nhs-2642	REGLEKHFQAIIDS
SEQ ID NO. 6752	nhs-1562	NVRELKNLIERAVI
SEQ ID NO. 6753	nhs-565	IEKVGKILTTAHWD
SEQ ID NO. 6754	nhs-440	EKDVVQILKAVSEF
SEQ ID NO. 6755	nhs-1882	ADSVEPMFRHLKNT
SEQ ID NO. 6756	nhs-2577	KKTLNEGLGLLERV
SEQ ID NO. 6757	nhs-2475	EKTIQYVKEAMKKH
SEQ ID NO. 6758	nhs-266	KGERQDLVAYLKSA
SEQ ID NO. 6759	nhs-262	PQDVVRLANWAHEH
SEQ ID NO. 6760	nhs-260	VSDLKKYIAELEVQ
SEQ ID NO. 6761	nhs-2204	QEVAKELAENARKI
SEQ ID NO. 6762	nhs-2207	EKNVAKIFKTAREL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6763	nhs-151	TENEKFLGKLVRDK
SEQ ID NO. 6764	nhs-2468	VIGNETKKQYEALE
SEQ ID NO. 6765	nhs-2220	TLKALQELIADVRD
SEQ ID NO. 6766	nhs-149	SKEVLVHVKNLEKN
SEQ ID NO. 6767	nhs-252	DIFNKNMRAHALEK
SEQ ID NO. 6768	nhs-2226	PNMNAERLQRTADR
SEQ ID NO. 6769	nhs-2227	TDKFIDAAKQVVRA
SEQ ID NO. 6770	nhs-2231	TPQVFKEIDRLREN
SEQ ID NO. 6771	nhs-250	TEKVVFEQTKVIAD
SEQ ID NO. 6772	nhs-249	DAHRQNLVNWVDKV
SEQ ID NO. 6773	nhs-2234	DANFERVRMLADQL
SEQ ID NO. 6774	nhs-154	GRDLTDYLMKILTE
SEQ ID NO. 6775	nhs-2242	KSTNRDYLAERLRE
SEQ ID NO. 6776	nhs-2456	PEVAKQWERLVRAT
SEQ ID NO. 6777	nhs-2225	KNAREDFLDNAASL
SEQ ID NO. 6778	nhs-270	PTRDALESLLAKLD
SEQ ID NO. 6779	nhs-2176	VGDLIKAYDNQKKL
SEQ ID NO. 6780	nhs-273	QEHRDLAREAARKS
SEQ ID NO. 6781	nhs-2109	NYRTITKAIIRHVE
SEQ ID NO. 6782	nhs-2111	TEQKKQVFKVAKEA
SEQ ID NO. 6783	nhs-2490	KTEVKEMLNLAAKH
SEQ ID NO. 6784	nhs-2124	EEVKKNVLTQLNRV
SEQ ID NO. 6785	nhs-2126	VEEFKSIIVDIQRS
SEQ ID NO. 6786	nhs-140	AATLEEKLNKIFEK
SEQ ID NO. 6787	nhs-141	ATQVLAEVEEAKKA
SEQ ID NO. 6788	nhs-294	ENRLRETRLNLSRL
SEQ ID NO. 6789	nhs-2133	ENLGARVKELYLQK
SEQ ID NO. 6790	nhs-2485	KAKAHTITVEAHST
SEQ ID NO. 6791	nhs-288	ESAYLDNLKKELAN
SEQ ID NO. 6792	nhs-284	TEMAKKITKLVKDS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6793	nhs-2147	RSDLHATLVDAARA
SEQ ID NO. 6794	nhs-2150	DEIVSAQKPFVAKH
SEQ ID NO. 6795	nhs-2151	DDIVEQQKPIAIKH
SEQ ID NO. 6796	nhs-2156	TEEMRDLVQRETGK
SEQ ID NO. 6797	nhs-278	AAAEKQRLASLLKD
SEQ ID NO. 6798	nhs-277	KKQLEDVFVLLNEN
SEQ ID NO. 6799	nhs-2166	TEYVDALKKLQMLH
SEQ ID NO. 6800	nhs-2167	KSSVAMLVERKLLE
SEQ ID NO. 6801	nhs-274	AKVSEALEKRYSMT
SEQ ID NO. 6802	nhs-2247	GEKLYTGLREVVTE
SEQ ID NO. 6803	nhs-243	GESLKNLIDFHINH
SEQ ID NO. 6804	nhs-2253	QLELRDAVEHARTT
SEQ ID NO. 6805	nhs-2254	AAITHTARMADKLR
SEQ ID NO. 6806	nhs-2432	ENARKYVERVSELT
SEQ ID NO. 6807	nhs-2430	LTEVQTIVEQVKEK
SEQ ID NO. 6808	nhs-2328	EMRKGIDLATTLER
SEQ ID NO. 6809	nhs-2332	LTRAAVELAKEWRT
SEQ ID NO. 6810	nhs-2426	RQTEDQLKKLKGYT
SEQ ID NO. 6811	nhs-2337	DQQRDFQREIQILK
SEQ ID NO. 6812	nhs-169	ADKLLTLEVKSLDT
SEQ ID NO. 6813	nhs-171	LEAARQFSEAVKAE
SEQ ID NO. 6814	nhs-203	SRVADYRDNMAKQT
SEQ ID NO. 6815	nhs-173	DHTKKAVLEAKEKT
SEQ ID NO. 6816	nhs-2351	ERGKKQAKLLAQEL
SEQ ID NO. 6817	nhs-2355	TEELVQKIKAIKEV
SEQ ID NO. 6818	nhs-199	LLKSAVELAKDWRT
SEQ ID NO. 6819	nhs-2375	PERTEVLGRAAEAT
SEQ ID NO. 6820	nhs-2379	LTNHQKFAKANVRE
SEQ ID NO. 6821	nhs-2385	QVRTEELLTGRALE
SEQ ID NO. 6822	nhs-2410	LENVLEAARHLHQT

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6823	nhs-189	PRDVAVSSFHHARL
SEQ ID NO. 6824	nhs-2395	DETLFKTLVKAKEL
SEQ ID NO. 6825	nhs-2407	PKVIHQALEDKIAQ
SEQ ID NO. 6826	nhs-2400	REQAEQVLRVALKH
SEQ ID NO. 6827	nhs-214	DGEMYQTLRLAKEL
SEQ ID NO. 6828	nhs-2107	DHGKTTLSKVLTEI
SEQ ID NO. 6829	nhs-2316	RAEVAMMLNDRNRE
SEQ ID NO. 6830	nhs-2312	PDEAARQALEKQRE
SEQ ID NO. 6831	nhs-158	DTLQARAMLDIVKR
SEQ ID NO. 6832	nhs-2452	QVRLERILDEISKE
SEQ ID NO. 6833	nhs-2260	LATKLFDNLERVKE
SEQ ID NO. 6834	nhs-230	PRTLNAWVKVVEEK
SEQ ID NO. 6835	nhs-2447	SAAERELIGRFQDR
SEQ ID NO. 6836	nhs-2270	KALDKVEKVLVSAQ
SEQ ID NO. 6837	nhs-2272	RKQLHQLVDFAKTN
SEQ ID NO. 6838	nhs-2279	LEEAVNAEARKIAN
SEQ ID NO. 6839	nhs-2280	AESVEQAIAAREHR
SEQ ID NO. 6840	nhs-2442	DEQRKLLKEAQAEH
SEQ ID NO. 6841	nhs-2282	FKEISDDVKEKNKN
SEQ ID NO. 6842	nhs-2284	VEKVLKTRYHDATS
SEQ ID NO. 6843	nhs-165	RETLLTMAERARAA
SEQ ID NO. 6844	nhs-2286	ADKVYKTLQRLRDL
SEQ ID NO. 6845	nhs-224	PDDQQKEVVNMAQK
SEQ ID NO. 6846	nhs-2292	VERIFSIVEQRLEA
SEQ ID NO. 6847	nhs-2294	FDDVTDLLRKTLVS
SEQ ID NO. 6848	nhs-2306	EREASDIINNLRNF
SEQ ID NO. 6849	nhs-2307	WDTLEAVVKEKLAS
SEQ ID NO. 6850	nhs-2309	ADAHSNLASIHKDS
SEQ ID NO. 6851	nhs-2311	EASVRLAERLAKQA
SEQ ID NO. 6852	nhs-2434	AAIKAKDDFQMEIT

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6853	nhs-439	KEAATAVAKAFEQE
SEQ ID NO. 6854	nhs-298	YKKRLNELITDALI
SEQ ID NO. 6855	nhs-299	GEVAQIIRKVGTRE
SEQ ID NO. 6856	nhs-1869	EVEKNLVREAVKKS
SEQ ID NO. 6857	nhs-1872	KLERERMQNEYAKS
SEQ ID NO. 6858	nhs-1875	ESDLKRIGAIHFKT
SEQ ID NO. 6859	nhs-1877	DNQIGEVVKGFEKK
SEQ ID NO. 6860	nhs-1880	YNDEKKLASNEIAN
SEQ ID NO. 6861	nhs-1363	ITKHMERYLDILNS
SEQ ID NO. 6862	nhs-1886	FNRDIQLLKALDNE
SEQ ID NO. 6863	nhs-1887	ILEAQKIKKLADSA
SEQ ID NO. 6864	nhs-398	KETQQRQIDLFTKV
SEQ ID NO. 6865	nhs-2564	DASEVTIRKAIARF
SEQ ID NO. 6866	nhs-1892	VQEAQGKWPALKEK
SEQ ID NO. 6867	nhs-2559	LGKTLDDQERKIAN
SEQ ID NO. 6868	nhs-392	LTKAAVELAKDWRT
SEQ ID NO. 6869	nhs-2557	DYRGGQLAAKHLQE
SEQ ID NO. 6870	nhs-1901	VEGIFNDVVENVKR
SEQ ID NO. 6871	nhs-1902	PEDKSRIVSELKDK
SEQ ID NO. 6872	nhs-108	EVTVRNRYKELVEK
SEQ ID NO. 6873	nhs-2553	KIVQERLEKVIASA
SEQ ID NO. 6874	nhs-1911	HEAFQNRVNELAAK
SEQ ID NO. 6875	nhs-1914	AEHRTLAREAVRKS
SEQ ID NO. 6876	nhs-1895	PPDHTRLRGLVSKA
SEQ ID NO. 6877	nhs-1865	TRELFEGAVRQIRL
SEQ ID NO. 6878	nhs-1864	EKTVEAFAEAVKTV
SEQ ID NO. 6879	nhs-1862	SDLVDQGKERLNRL
SEQ ID NO. 6880	nhs-436	TDVDAANLRETFRN
SEQ ID NO. 6881	nhs-1813	MRERIEFLNEASVM
SEQ ID NO. 6882	nhs-103	EKDRNDLITYLKKA

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6883	nhs-432	KSTVLAKVKEILDN
SEQ ID NO. 6884	nhs-1824	LTPRKRLKESLDQI
SEQ ID NO. 6885	nhs-1826	EETTAKLIYSKVRT
SEQ ID NO. 6886	nhs-1827	DRVRESLFNIVTAR
SEQ ID NO. 6887	nhs-428	DVTLLKTLDKAVKT
SEQ ID NO. 6888	nhs-1830	EKTVELLRNVLKES
SEQ ID NO. 6889	nhs-1837	GSKEIDTVIELKKH
SEQ ID NO. 6890	nhs-1840	RAVNNEYVKVMREK
SEQ ID NO. 6891	nhs-1841	EITSKKIARERIDA
SEQ ID NO. 6892	nhs-1842	EDISKKIAQERMDA
SEQ ID NO. 6893	nhs-1844	WGVTKAAEKQMKDK
SEQ ID NO. 6894	nhs-2571	SDLVYETINRVKRI
SEQ ID NO. 6895	nhs-2570	PKEIQIQIRKFVGE
SEQ ID NO. 6896	nhs-104	EKDRNDSITYLKKA
SEQ ID NO. 6897	nhs-419	TSVKVKEAVEAVRD
SEQ ID NO. 6898	nhs-1855	TSAVYNELDRLREV
SEQ ID NO. 6899	nhs-413	DKVALNWLKGLKEN
SEQ ID NO. 6900	nhs-1857	NRMIDSVLESARDM
SEQ ID NO. 6901	nhs-1915	LSVMKETYETVMKK
SEQ ID NO. 6902	nhs-1916	LYQRIAKIVSIDDD
SEQ ID NO. 6903	nhs-1920	EETQRTFLKEVKVM
SEQ ID NO. 6904	nhs-1922	PETAETLYKEIRKV
SEQ ID NO. 6905	nhs-337	LDAVRTLKTVIDEK
SEQ ID NO. 6906	nhs-2012	RTAVKKVIDQLKLE
SEQ ID NO. 6907	nhs-2013	PARVVQLFRDVEQK
SEQ ID NO. 6908	nhs-2015	HSETVAKHGAKLSA
SEQ ID NO. 6909	nhs-2018	SAHLDRLQKAADKI
SEQ ID NO. 6910	nhs-331	GKTLDTAKAVADEL
SEQ ID NO. 6911	nhs-2030	ESMNKELKKIIGQV
SEQ ID NO. 6912	nhs-2033	HDKAIEAYEKTISI

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6913	nhs-2516	LDTVREEVKTLKER
SEQ ID NO. 6914	nhs-326	NNRMELKAAIEGLK
SEQ ID NO. 6915	nhs-2046	KNVAAAERQLRELE
SEQ ID NO. 6916	nhs-2048	LTETVGELVRVAER
SEQ ID NO. 6917	nhs-2063	DMWVTIDKRMAEIT
SEQ ID NO. 6918	nhs-2065	PLKTAHDVRVTFAR
SEQ ID NO. 6919	nhs-2074	PHDTLNRIKKYLLT
SEQ ID NO. 6920	nhs-2076	ENTAIHHYLEALKV
SEQ ID NO. 6921	nhs-305	IGDTAKKLGEMWSE
SEQ ID NO. 6922	nhs-2082	SLDKAKALKEQLEK
SEQ ID NO. 6923	nhs-2500	ARQDFQREAELLTM
SEQ ID NO. 6924	nhs-2089	FRDLALRVDQIRDQ
SEQ ID NO. 6925	nhs-300	HDIKEDFSNLIRTL
SEQ ID NO. 6926	nhs-120	ERTRKTGEAFAAGL
SEQ ID NO. 6927	nhs-2102	PHQLRHSFATHMLE
SEQ ID NO. 6928	nhs-2006	KTLAGQLHSELKEF
SEQ ID NO. 6929	nhs-1998	LYDALEKARDLLNN
SEQ ID NO. 6930	nhs-2551	WRAAMRKADTALSE
SEQ ID NO. 6931	nhs-1926	DETLFKTLIRAKEL
SEQ ID NO. 6932	nhs-1939	VQEGVDKIRHFQEL
SEQ ID NO. 6933	nhs-376	REAHETLAIAMNRL
SEQ ID NO. 6934	nhs-2542	TDQLVRFIDEAHRA
SEQ ID NO. 6935	nhs-365	DQERQVFQKALGKL
SEQ ID NO. 6936	nhs-364	KTHLLQAAGNEAKK
SEQ ID NO. 6937	nhs-1964	HEFLSKVSHRIVNE
SEQ ID NO. 6938	nhs-2539	DTMKQAFDRMTKLR
SEQ ID NO. 6939	nhs-113	LEELFSKIKNTLKV
SEQ ID NO. 6940	nhs-1973	DIVRERAIKFLSTK
SEQ ID NO. 6941	nhs-1976	VTKIKEVQRIAVEE
SEQ ID NO. 6942	nhs-116	RASLKKLIDYHVAS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6943	nhs-2532	PAEFVDIKHRLTQI
SEQ ID NO. 6944	nhs-2528	LRDIVRANERGIQA
SEQ ID NO. 6945	nhs-1982	LGPHEANLFDMRQK
SEQ ID NO. 6946	nhs-2527	PIKHVSLMDQRARQ
SEQ ID NO. 6947	nhs-353	DLLKHTTNVVKAHT
SEQ ID NO. 6948	nhs-352	NETREKLHQLEKSL
SEQ ID NO. 6949	nhs-1988	DKVREKITLVEEKT
SEQ ID NO. 6950	nhs-1990	SEVREQINAKVAEW
SEQ ID NO. 6951	nhs-345	RKITDDLVKNVEKL
SEQ ID NO. 6952	nhs-1354	NQLDSQRLKERLYN
SEQ ID NO. 6953	nhs-1638	KKELEVLSQKLRAL
SEQ ID NO. 6954	nhs-181	TALADTGAKLHDKY
SEQ ID NO. 6955	nhs-2714	EVIDKIQKKTREFL
SEQ ID NO. 6956	nhs-798	PQEKDISSKLLKAL
SEQ ID NO. 6957	nhs-1023	PYSSRLKKIGELLD
SEQ ID NO. 6958	nhs-1259	PYSSRLKKVGELLD
SEQ ID NO. 6959	nhs-1027	RAKVLGARNLHELT
SEQ ID NO. 6960	nhs-2771	KELHTELEQAGRFV
SEQ ID NO. 6961	nhs-1031	ESVRDALVRAQDYI
SEQ ID NO. 6962	nhs-1036	DQLRAGYVARASER
SEQ ID NO. 6963	nhs-794	SEGLKSVVDHIKAN
SEQ ID NO. 6964	nhs-1039	PREVIEAIKNLAKT
SEQ ID NO. 6965	nhs-2769	LKDAINEAMRDWVT
SEQ ID NO. 6966	nhs-1045	YALRKHLVELAKTN
SEQ ID NO. 6967	nhs-1049	WERLLEKRQIGADT
SEQ ID NO. 6968	nhs-1246	QNGLEQAKKFHEAV
SEQ ID NO. 6969	nhs-2722	LDESVGKIWQKLVD
SEQ ID NO. 6970	nhs-1244	LEKTHELKEVLNKV
SEQ ID NO. 6971	nhs-1052	NRGLEIAKIAEKVS
SEQ ID NO. 6972	nhs-1053	EQLENEIIKAGKAS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 6973	nhs-2768	RESQLNDAIKILNE
SEQ ID NO. 6974	nhs-1055	SDQRDAIVKGLKAK
SEQ ID NO. 6975	nhs-707	ATQVLKELEEAKKA
SEQ ID NO. 6976	nhs-1057	DSVTARLREVEHRA
SEQ ID NO. 6977	nhs-1239	PGERDALLANEATK
SEQ ID NO. 6978	nhs-2767	NSKAKENAETTLLR
SEQ ID NO. 6979	nhs-2766	ITETAKKWVPEMRE
SEQ ID NO. 6980	nhs-2774	FENLIPILKTVHEK
SEQ ID NO. 6981	nhs-781	NKEAKAWAKGVLEN
SEQ ID NO. 6982	nhs-802	DVSKTIKEAIETTI
SEQ ID NO. 6983	nhs-696	SMELLKQAYDKVRE
SEQ ID NO. 6984	nhs-1298	KQEFDTHMANGKDT
SEQ ID NO. 6985	nhs-1297	RSKGKEVMESFIKA
SEQ ID NO. 6986	nhs-2789	QEKAKTLLDKALTQ
SEQ ID NO. 6987	nhs-957	THLADVLVSKQFHE
SEQ ID NO. 6988	nhs-2788	VDKIREFLQKISKE
SEQ ID NO. 6989	nhs-961	RARIHALLDQVAES
SEQ ID NO. 6990	nhs-689	PDVTRDILVNLDKV
SEQ ID NO. 6991	nhs-968	IDTVLYMKEKATKA
SEQ ID NO. 6992	nhs-2783	ELFRKEATKLIGQI
SEQ ID NO. 6993	nhs-1288	FIKINDLAEQIEKI
SEQ ID NO. 6994	nhs-828	KDRIGFSMISDAEK
SEQ ID NO. 6995	nhs-1286	LEKAKETILSILKK
SEQ ID NO. 6996	nhs-2781	EKVRESLRLTFHDA
SEQ ID NO. 6997	nhs-818	QQRDFQREIQILKA
SEQ ID NO. 6998	nhs-816	PHELTRVASALRKL
SEQ ID NO. 6999	nhs-2778	TEHLDAVFQRMKTE
SEQ ID NO. 7000	nhs-1277	EKIQKEAQEALEKL
SEQ ID NO. 7001	nhs-810	PENTRLFEMVKRKE
SEQ ID NO. 7002	nhs-997	QTHAKRAYRELVLM

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7003	nhs-998	MANMRAVRELTEAH
SEQ ID NO. 7004	nhs-1001	DTKLAEYTDLMLKL
SEQ ID NO. 7005	nhs-1005	QHERYVEQLKQALK
SEQ ID NO. 7006	nhs-1273	SEKGIADIRALLQK
SEQ ID NO. 7007	nhs-1008	HEVSLLSAEGVLRH
SEQ ID NO. 7008	nhs-1009	LEEAKENLYKAASL
SEQ ID NO. 7009	nhs-803	ESKVEALDELVTKK
SEQ ID NO. 7010	nhs-1299	VRHQRAVENRLREA
SEQ ID NO. 7011	nhs-2723	AEELSKAVVETVRA
SEQ ID NO. 7012	nhs-1236	PIRDKEAIRVLSDT
SEQ ID NO. 7013	nhs-1153	KESIDRIIQVAKET
SEQ ID NO. 7014	nhs-728	EKVKGIEELITNYS
SEQ ID NO. 7015	nhs-748	AEQKKELSDIALRI
SEQ ID NO. 7016	nhs-730	TEHHERAERVFNLL
SEQ ID NO. 7017	nhs-747	DANVKRVADLIKES
SEQ ID NO. 7018	nhs-27	VESAVTRVKAMMDE
SEQ ID NO. 7019	nhs-1157	LERQVYELEKLQEK
SEQ ID NO. 7020	nhs-1193	EENRKAVSDQLKKH
SEQ ID NO. 7021	nhs-746	GKNAELISEKILKE
SEQ ID NO. 7022	nhs-1159	EQLLRKAEAQAKKE
SEQ ID NO. 7023	nhs-744	KDNADTLAARAKNA
SEQ ID NO. 7024	nhs-29	RTERDKLMQTVAHV
SEQ ID NO. 7025	nhs-1162	SHDRLRVHQIAEEH
SEQ ID NO. 7026	nhs-1163	SLVVSELSLKLRKE
SEQ ID NO. 7027	nhs-732	IDEGVKIVLEITKS
SEQ ID NO. 7028	nhs-743	PRTVEVHRANVMAK
SEQ ID NO. 7029	nhs-1166	KEVLKESAKTIVDS
SEQ ID NO. 7030	nhs-1186	NGQLWKKVKDSLID
SEQ ID NO. 7031	nhs-1169	DVERAIETLIKNFH
SEQ ID NO. 7032	nhs-1184	EFQDSLKKVEKASL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7033	nhs-738	VDKTFHDLVRVIRQ
SEQ ID NO. 7034	nhs-1176	ATAQMEEKLRDFTR
SEQ ID NO. 7035	nhs-28	PEQKKELSDIAHRI
SEQ ID NO. 7036	nhs-1178	ETEKVQEFQRLLKE
SEQ ID NO. 7037	nhs-2744	STTDQREQGFKSEM
SEQ ID NO. 7038	nhs-2749	DNGEQRKGGALKAF
SEQ ID NO. 7039	nhs-1069	HADIYDKVSGDMQK
SEQ ID NO. 7040	nhs-1146	QATRNRVEKAAREV
SEQ ID NO. 7041	nhs-1134	EAVQKELLAEWKRT
SEQ ID NO. 7042	nhs-779	FRAMASDQRELMRT
SEQ ID NO. 7043	nhs-1232	IDDGLRKTIEWTKA
SEQ ID NO. 7044	nhs-1230	LADFRQTIDKVDAI
SEQ ID NO. 7045	nhs-1078	KVTRAIIENEVDKI
SEQ ID NO. 7046	nhs-1080	SSRLKDVEAGLKII
SEQ ID NO. 7047	nhs-773	PVLDEFVNHLNRLR
SEQ ID NO. 7048	nhs-772	PKERTEWIKAIQMA
SEQ ID NO. 7049	nhs-33	IPQAEKLDQMLKEQ
SEQ ID NO. 7050	nhs-769	EKATLEWLKAMKTN
SEQ ID NO. 7051	nhs-2729	KDLVLSVHNRAIRN
SEQ ID NO. 7052	nhs-1101	RDDMLAWIKTIQES
SEQ ID NO. 7053	nhs-1107	QKKADALNAEHIRM
SEQ ID NO. 7054	nhs-1108	VGDFTVRLRDHLDT
SEQ ID NO. 7055	nhs-1110	VNSLKKALEELKEK
SEQ ID NO. 7056	nhs-712	TYSITKRVKEVLTD
SEQ ID NO. 7057	nhs-1115	ETALLDWLGTMREK
SEQ ID NO. 7058	nhs-761	DNEKNRKLFDLLDV
SEQ ID NO. 7059	nhs-1122	DPTRERLKAAAQSI
SEQ ID NO. 7060	nhs-1123	VDEIVENLRKQVKA
SEQ ID NO. 7061	nhs-759	VPLTVKEMNRLIDE
SEQ ID NO. 7062	nhs-1128	AEQVVQGMKEAQER

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7063	nhs-1129	RELARQTLEVVQEM
SEQ ID NO. 7064	nhs-721	AKDVDSRAREVISK
SEQ ID NO. 7065	nhs-1132	STVREQLKKKLVEV
SEQ ID NO. 7066	nhs-756	EKQAKEVLKQHFEK
SEQ ID NO. 7067	nhs-1142	TVLVHRVHSYLERH
SEQ ID NO. 7068	nhs-2708	PHHLAQAERNVRAF
SEQ ID NO. 7069	nhs-2743	VERGITSLHHALEL
SEQ ID NO. 7070	nhs-2695	DEERKTMMNLMVAA
SEQ ID NO. 7071	nhs-894	EGTYRQLIRLHQTE
SEQ ID NO. 7072	nhs-1346	QNLLDELDNRIIKN
SEQ ID NO. 7073	nhs-1344	EKTLINKIAELKKF
SEQ ID NO. 7074	nhs-938	LDEINKKELSIKEA
SEQ ID NO. 7075	nhs-936	KASLNWHQRKHAET
SEQ ID NO. 7076	nhs-1323	KDTMAKISNELHAI
SEQ ID NO. 7077	nhs-2803	RDTLERTADEIRAA
SEQ ID NO. 7078	nhs-934	PKLTMEYVEQAIKK
SEQ ID NO. 7079	nhs-1343	PELIQPIQDKIKNE
SEQ ID NO. 7080	nhs-933	SKNELSRAFKSLLE
SEQ ID NO. 7081	nhs-2795	GEAHTRMRRLFNAV
SEQ ID NO. 7082	nhs-9	HREHMQRLHDSAKI
SEQ ID NO. 7083	nhs-2703	PDIEKQVMRQFADT
SEQ ID NO. 7084	nhs-851	KSTVTGLVKRLEAD
SEQ ID NO. 7085	nhs-890	REKAQELVNAAHEF
SEQ ID NO. 7086	nhs-1315	VDQKVKSTQDVLKS
SEQ ID NO. 7087	nhs-1332	DLLQHTANVVKAHK
SEQ ID NO. 7088	nhs-2813	AKDDRVFQLAVSDL
SEQ ID NO. 7089	nhs-664	SADREKLERFSHSE
SEQ ID NO. 7090	nhs-1340	AETVGRVKRFIQEA
SEQ ID NO. 7091	nhs-849	RQKAEQVADEIYQA
SEQ ID NO. 7092	nhs-673	VLSKLLRDSHVLHS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7093	nhs-1338	IENKAADYLKVSAK
SEQ ID NO. 7094	nhs-940	KELRDWIAQTLNDL
SEQ ID NO. 7095	nhs-659	ERQIKKQTALVELV
SEQ ID NO. 7096	nhs-886	GELGQAVSEGRKKE
SEQ ID NO. 7097	nhs-877	EKTGVDKIVEHVKS
SEQ ID NO. 7098	nhs-875	AHDRNLASLVEKYL
SEQ ID NO. 7099	nhs-903	YNLALDKAIQKLHD
SEQ ID NO. 7100	nhs-878	ENTIKTTRRVLELV
SEQ ID NO. 7101	nhs-874	LDVRMQLKELAQKE
SEQ ID NO. 7102	nhs-857	DDQLKSHVRGALNA
SEQ ID NO. 7103	nhs-945	EGQLKLALKTLEKA
SEQ ID NO. 7104	nhs-872	ETGKEKLLISKIFT
SEQ ID NO. 7105	nhs-2815	RLYRELQAVAESLK
SEQ ID NO. 7106	nhs-906	NVLTARVLDKLDKY
SEQ ID NO. 7107	nhs-2699	LNDAMNKATKFLKD
SEQ ID NO. 7108	nhs-683	LAAARQHARDVLDQ
SEQ ID NO. 7109	nhs-871	QEIQVLRVVKNFEH
SEQ ID NO. 7110	nhs-48	TWDLVADIERLRTH
SEQ ID NO. 7111	nhs-2814	REEAISNMVVALKE
SEQ ID NO. 7112	nhs-1306	ETYKSNLKIAELKL
SEQ ID NO. 7113	nhs-2811	EADLSKELAIQVRKV
SEQ ID NO. 7114	nhs-1102	VEEVNALKNEILKAH
SEQ ID NO. 7115	nhs-1105	KKITQWLETKGVERL
SEQ ID NO. 7116	nhs-1955	EDLRTKVENTTKKIF
SEQ ID NO. 7117	nhs-368	PTKFAEIVEENLKSA
SEQ ID NO. 7118	nhs-1942	VFETLKEVSRLVLAR
SEQ ID NO. 7119	nhs-2427	QIQRELKKLEQRLTA
SEQ ID NO. 7120	nhs-397	AKEKTDLVQKFGESL
SEQ ID NO. 7121	nhs-1109	HRELWAKIANSINDI
SEQ ID NO. 7122	nhs-205	WQDISMMRMKTIGEH

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7123	nhs-399	TQNLAKFAVDEENKI
SEQ ID NO. 7124	nhs-2757	SEKAVRELFARARDS
SEQ ID NO. 7125	nhs-1353	RGTKALMDEVVKATS
SEQ ID NO. 7126	nhs-402	LHQAMRAAGDEFETR
SEQ ID NO. 7127	nhs-764	LEETKGQINNSIKDL
SEQ ID NO. 7128	nhs-2354	STEVAERARDLVRAT
SEQ ID NO. 7129	nhs-1890	RDATLAQAKELWAKV
SEQ ID NO. 7130	nhs-1076	ERLHNQLKALKQDLA
SEQ ID NO. 7131	nhs-2543	MDDFIKALRTIKEKS
SEQ ID NO. 7132	nhs-891	SDEVQLIKKTWEIPV
SEQ ID NO. 7133	nhs-1941	PESDKLKSEGNAAMA
SEQ ID NO. 7134	nhs-21	VKYKNVAKEVANDIK
SEQ ID NO. 7135	nhs-1083	RTELLDIAATLFAER
SEQ ID NO. 7136	nhs-2547	RQLEALIRLSEAHAR
SEQ ID NO. 7137	nhs-379	RETKTLIVEAIVRET
SEQ ID NO. 7138	nhs-1930	ADEVKAMIKEVVSQF
SEQ ID NO. 7139	nhs-372	LDEVVAMQKPFVQKH
SEQ ID NO. 7140	nhs-2338	ASKSISDISFEVDRL
SEQ ID NO. 7141	nhs-1089	HSTNVLLSLNDQRKK
SEQ ID NO. 7142	nhs-371	EETAQKVIKLLNALE
SEQ ID NO. 7143	nhs-385	RQALGEAREVIKNLA
SEQ ID NO. 7144	nhs-403	ESETKSTLLFGQRAK
SEQ ID NO. 7145	nhs-1092	AEERKELRTQFQDTT
SEQ ID NO. 7146	nhs-1093	PDERLKLAQAYKEKT
SEQ ID NO. 7147	nhs-2335	LSQFRKIVDKVDQTA
SEQ ID NO. 7148	nhs-1912	DDLHVGLARLWQRLT
SEQ ID NO. 7149	nhs-1094	DSLMKTQAELLLERL
SEQ ID NO. 7150	nhs-2340	DRQNKAYKEAMEALK
SEQ ID NO. 7151	nhs-1909	IDEYRDTLRHLVATT
SEQ ID NO. 7152	nhs-2341	GEKLYTGLREVVTEH

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7153	nhs-110	VQDAVKQIIDYLDTK
SEQ ID NO. 7154	nhs-2555	DGAVKALETWKTLLD
SEQ ID NO. 7155	nhs-1081	PETEKVLKYLEATER
SEQ ID NO. 7156	nhs-767	HGEISLVLNTLREKE
SEQ ID NO. 7157	nhs-1090	ANDHIAVLVKKFSLE
SEQ ID NO. 7158	nhs-2791	PLSLVKKLKKDGLQD
SEQ ID NO. 7159	nhs-1118	PSDLREKLSELADAK
SEQ ID NO. 7160	nhs-2372	TGVVRDSMAKLRERL
SEQ ID NO. 7161	nhs-884	QRDAENTMRELAVRE
SEQ ID NO. 7162	nhs-883	PERVRPALENTLKDL
SEQ ID NO. 7163	nhs-2377	SESIQKKFQLMKEHV
SEQ ID NO. 7164	nhs-2414	ENTVNFHQKNMQKKI
SEQ ID NO. 7165	nhs-1805	DEIKIKLIKTLAFNA
SEQ ID NO. 7166	nhs-864	FDTALTDLKTIIRAE
SEQ ID NO. 7167	nhs-193	TDDRIKSWVAQLKSE
SEQ ID NO. 7168	nhs-2580	RLDHNRAISQLAAKT
SEQ ID NO. 7169	nhs-1801	EKLTFKTDLEKLERE
SEQ ID NO. 7170	nhs-441	HHTASESFMKHMQNE
SEQ ID NO. 7171	nhs-192	KKLLKEAFQKTLTDL
SEQ ID NO. 7172	nhs-1796	VDQIRKNYHSLVSQR
SEQ ID NO. 7173	nhs-2416	DRANFTLLLAELHKA
SEQ ID NO. 7174	nhs-1795	ESNKENREAHLAAML
SEQ ID NO. 7175	nhs-2389	HGSDLGKKLLEAANV
SEQ ID NO. 7176	nhs-2409	AADRLNYLKDLSRSH
SEQ ID NO. 7177	nhs-188	KFQEAVEKVTQHIHG
SEQ ID NO. 7178	nhs-1786	RAAWAAQLAQLREDE
SEQ ID NO. 7179	nhs-1167	MDEVQNRIKEILDKH
SEQ ID NO. 7180	nhs-2589	PERVTQAIREWLRKV
SEQ ID NO. 7181	nhs-1778	NEKVGELQAKALVDI
SEQ ID NO. 7182	nhs-1776	ANGYLDKLAQELGRK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7183	nhs-1170	RQAIFETLVAKGREL
SEQ ID NO. 7184	nhs-1769	PDQQRDFQREIQILK
SEQ ID NO. 7185	nhs-94	VGEVSKLVKKALSNE
SEQ ID NO. 7186	nhs-184	PQMVRDTQQLLKETR
SEQ ID NO. 7187	nhs-182	LTKHLQVFRDHLINQ
SEQ ID NO. 7188	nhs-190	EEMTKQAEKWIKDNL
SEQ ID NO. 7189	nhs-1870	REERAQLIATARKAV
SEQ ID NO. 7190	nhs-1151	TESAKEAYVKLLDTL
SEQ ID NO. 7191	nhs-435	EKDRNDLITYLKKAT
SEQ ID NO. 7192	nhs-2356	KADLIATARKTWDER
SEQ ID NO. 7193	nhs-1860	HEGRAAQKRLETLLE
SEQ ID NO. 7194	nhs-412	KEAATAVAKAFEQET
SEQ ID NO. 7195	nhs-2357	LGHQVASDYLRIMER
SEQ ID NO. 7196	nhs-175	VEQNLKHVVTIKREL
SEQ ID NO. 7197	nhs-1853	MEEHTQVIKEIIRVA
SEQ ID NO. 7198	nhs-2568	ERQVRIQLKDHIDRT
SEQ ID NO. 7199	nhs-2428	DEVFGAVKDRQRNLL
SEQ ID NO. 7200	nhs-1849	LKELDFKIRQQLVNN
SEQ ID NO. 7201	nhs-2363	TPNEKLLGHLVKEKY
SEQ ID NO. 7202	nhs-2417	SKEKWNDIDQIATSL
SEQ ID NO. 7203	nhs-2365	WKEDVKKMIVLSLTR
SEQ ID NO. 7204	nhs-869	GRDLTDYLMKILTER
SEQ ID NO. 7205	nhs-1816	KSLMKEAFQKTLSDL
SEQ ID NO. 7206	nhs-1136	EAETKSTLMFGQRAK
SEQ ID NO. 7207	nhs-1138	FKDIKKIMEEKIQIS
SEQ ID NO. 7208	nhs-420	DEVRKTNLAGLMDGY
SEQ ID NO. 7209	nhs-1838	TARLDRLMLERVLEQ
SEQ ID NO. 7210	nhs-422	YREAVLRAVDRLNEQ
SEQ ID NO. 7211	nhs-1833	HGAATANESFKRARA
SEQ ID NO. 7212	nhs-1140	IKERTIKIGKYIVET

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7213	nhs-1144	VSDLKKYIAELEVQT
SEQ ID NO. 7214	nhs-753	SEEKVALYRHVVSVV
SEQ ID NO. 7215	nhs-429	LPIIKDHLNDLYRQA
SEQ ID NO. 7216	nhs-2369	LATQAVQEIKHSLDH
SEQ ID NO. 7217	nhs-1823	EKDTVLEVLKSFRRA
SEQ ID NO. 7218	nhs-1822	EVAYLDRASQLVLRD
SEQ ID NO. 7219	nhs-750	GINIRQKVKELVEFA
SEQ ID NO. 7220	nhs-1137	QALLERIRAKEVQKQ
SEQ ID NO. 7221	nhs-1073	LMKDLIQTALEEMRQ
SEQ ID NO. 7222	nhs-902	QDEVKELNRLLGKVI
SEQ ID NO. 7223	nhs-1970	RDIDAMKSVAEASHK
SEQ ID NO. 7224	nhs-147	EASIAISQARLDEKI
SEQ ID NO. 7225	nhs-2159	LASRTRHLASVLDKL
SEQ ID NO. 7226	nhs-2249	PQVTVDKLKRLENDF
SEQ ID NO. 7227	nhs-2157	GAEANAITREILKDI
SEQ ID NO. 7228	nhs-281	PTTSARALRDFVVED
SEQ ID NO. 7229	nhs-2148	RSDLHATLVDAARAA
SEQ ID NO. 7230	nhs-937	RDDAIAWKTALMEAN
SEQ ID NO. 7231	nhs-2142	LGAFEHNIQTLKDRL
SEQ ID NO. 7232	nhs-843	VQASDRLMKELRDIY
SEQ ID NO. 7233	nhs-989	LEDLVRYVESKISRT
SEQ ID NO. 7234	nhs-2486	RGTKSLMDEVVKATS
SEQ ID NO. 7235	nhs-2255	YKEAVLRAIDGINQR
SEQ ID NO. 7236	nhs-2777	KDDQAKKVQEHLNKT
SEQ ID NO. 7237	nhs-2129	REMVDQINRVARQVI
SEQ ID NO. 7238	nhs-2489	SHVAERQARAAKDEL
SEQ ID NO. 7239	nhs-808	DKSLDTFVSKVGEIV
SEQ ID NO. 7240	nhs-157	DRTAGVLRDTLDQLY
SEQ ID NO. 7241	nhs-2116	KLETYLNKVEAEAKA
SEQ ID NO. 7242	nhs-1000	TEELKNFLKDLLEKA

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7243	nhs-297	YKKRLNELITDALIT
SEQ ID NO. 7244	nhs-1002	IPELRERIKNVAEKT
SEQ ID NO. 7245	nhs-1006	LTEKAIGDVFSLLEK
SEQ ID NO. 7246	nhs-2100	DEAINRAAINVGKKR
SEQ ID NO. 7247	nhs-2098	IAEISRELKTLAREL
SEQ ID NO. 7248	nhs-135	ERVQKHLKALTSELA
SEQ ID NO. 7249	nhs-134	PKEMKEFLDEHQKMT
SEQ ID NO. 7250	nhs-2094	EEGREAVSQIAASIK
SEQ ID NO. 7251	nhs-234	AADLKAVQDKLKTFV
SEQ ID NO. 7252	nhs-929	KDEVKELIWKSSLEV
SEQ ID NO. 7253	nhs-276	IIPRTLHQIFEKLTD
SEQ ID NO. 7254	nhs-2501	IKDVHARLQALAQAH
SEQ ID NO. 7255	nhs-2248	AHQVQKQTLKEILLK
SEQ ID NO. 7256	nhs-2794	FKQKIISILEDKKAV
SEQ ID NO. 7257	nhs-949	LESSHALAHALKMMR
SEQ ID NO. 7258	nhs-2222	MVSVVHDLQKAIAEK
SEQ ID NO. 7259	nhs-2229	AEETLKALKGSVKDL
SEQ ID NO. 7260	nhs-952	HWNRLRDDAANLKSK
SEQ ID NO. 7261	nhs-2219	FVENVMKKAIDSLKE
SEQ ID NO. 7262	nhs-838	EELVKWGKRVAAANS
SEQ ID NO. 7263	nhs-2466	KSRLIDRASQLLEVI
SEQ ID NO. 7264	nhs-2467	RESVHRLVENVAERF
SEQ ID NO. 7265	nhs-944	TPDGIIKADKVFNKV
SEQ ID NO. 7266	nhs-2211	YDDTVRLTMQHAQQH
SEQ ID NO. 7267	nhs-2209	ARVRNQFLKEMDGLA
SEQ ID NO. 7268	nhs-836	LADFRQTIDKVDAIA
SEQ ID NO. 7269	nhs-2235	EVKLLVERMMALQTD
SEQ ID NO. 7270	nhs-2206	VKDRLADIKSEIDLT
SEQ ID NO. 7271	nhs-2793	RDHWKRVMQGHAGAN
SEQ ID NO. 7272	nhs-2239	GRAVNHIKSVWKDLL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7273	nhs-840	TLIDQAKDRIQKTKS
SEQ ID NO. 7274	nhs-2198	VEEWLTHARKVTQEA
SEQ ID NO. 7275	nhs-263	HREHMQRLHDSAKIY
SEQ ID NO. 7276	nhs-2196	LQAVLKEDQEKLKLL
SEQ ID NO. 7277	nhs-834	SPMAEALFKSIAERE
SEQ ID NO. 7278	nhs-2190	REEVIKTLVDMVAKS
SEQ ID NO. 7279	nhs-966	QLEKLMENMRNDIAS
SEQ ID NO. 7280	nhs-2183	RDQVKQILVEMVAKS
SEQ ID NO. 7281	nhs-269	LDTLKKDIALGQEFV
SEQ ID NO. 7282	nhs-2477	PAELRAAGRADLTTR
SEQ ID NO. 7283	nhs-2457	MSAVSLKIVEKAKEA
SEQ ID NO. 7284	nhs-2173	LKGEVESIKKQINRQ
SEQ ID NO. 7285	nhs-972	LNAFRELRTQLEKAL
SEQ ID NO. 7286	nhs-156	AQEIDLKVRKFLIAQ
SEQ ID NO. 7287	nhs-1072	HTALKDIANKYSEKT
SEQ ID NO. 7288	nhs-2268	KALDKVEKVLVSAQQ
SEQ ID NO. 7289	nhs-227	HDHAVVSGRLAGENM
SEQ ID NO. 7290	nhs-2019	SEDAVNMARVLALKE
SEQ ID NO. 7291	nhs-913	EADIERTIAAARTVL
SEQ ID NO. 7292	nhs-1040	RTEAANVEKITTKLL
SEQ ID NO. 7293	nhs-2008	GKNAELISEKILKEM
SEQ ID NO. 7294	nhs-912	KTTVINEVYHRLVKD
SEQ ID NO. 7295	nhs-2296	RSHLHDALVNRARAL
SEQ ID NO. 7296	nhs-339	IMQILTRVNDRVARH
SEQ ID NO. 7297	nhs-2524	PLGDANETKALKRAF
SEQ ID NO. 7298	nhs-341	NWQKQMLDRLNEAVK
SEQ ID NO. 7299	nhs-2001	DRLRQFIGELATLLD
SEQ ID NO. 7300	nhs-2439	NGHALLMTDTRKRLL
SEQ ID NO. 7301	nhs-1050	MGAILETQRELREVL
SEQ ID NO. 7302	nhs-1995	HDAFIASVDESLRKL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7303	nhs-2302	KLTFKTDLEKLEREK
SEQ ID NO. 7304	nhs-4	PHVLRHAFATHLLNH
SEQ ID NO. 7305	nhs-2304	LDQIDQRIAAVFHHL
SEQ ID NO. 7306	nhs-855	RETLEISYRNAIARL
SEQ ID NO. 7307	nhs-348	ADARKKLEDSAELLT
SEQ ID NO. 7308	nhs-2308	SEAVVRLAEASQDRY
SEQ ID NO. 7309	nhs-3	KDKFHQLLHELVEKN
SEQ ID NO. 7310	nhs-1987	PQKAMEEYKEKLKAQ
SEQ ID NO. 7311	nhs-216	DAETLSTLRFGMRAK
SEQ ID NO. 7312	nhs-2319	IYEQIVQKIKEQVVK
SEQ ID NO. 7313	nhs-1061	REGVKELARQTAELL
SEQ ID NO. 7314	nhs-17	KDKLAEISYEAVKSV
SEQ ID NO. 7315	nhs-2327	QEADTLRFVSALRAR
SEQ ID NO. 7316	nhs-115	LEHLAERIANRINSQ
SEQ ID NO. 7317	nhs-858	RAKLLNVGFQEALKD
SEQ ID NO. 7318	nhs-210	IAQARKLVEQLKMEA
SEQ ID NO. 7319	nhs-334	PIVEKILQYRELTKL
SEQ ID NO. 7320	nhs-304	PRLREAIAQKLQRDN
SEQ ID NO. 7321	nhs-1034	THKLADDVLQLLDNR
SEQ ID NO. 7322	nhs-2026	VEKVLKTRYHDATSK
SEQ ID NO. 7323	nhs-1012	DDQARHLADLTRLGM
SEQ ID NO. 7324	nhs-14	VAESKKLLKKIFDQL
SEQ ID NO. 7325	nhs-2506	EKALELAVAQIEKSY
SEQ ID NO. 7326	nhs-2775	HHHHMQQIQRDIAQA
SEQ ID NO. 7327	nhs-2277	LKKGIDLFEQILKQL
SEQ ID NO. 7328	nhs-2070	SKGGNLIADELAEKY
SEQ ID NO. 7329	nhs-1755	GDKELEWLIGRSLIQ
SEQ ID NO. 7330	nhs-2067	RDQVFAAVEQARKTL
SEQ ID NO. 7331	nhs-1017	HSEIIIKAFNRVVDK
SEQ ID NO. 7332	nhs-2062	RDQFRSTLADAAKTL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7333	nhs-313	KEFITNRINDTVKKA
SEQ ID NO. 7334	nhs-2060	ALESKAKVDQLAQDY
SEQ ID NO. 7335	nhs-316	WEHAIDTARDLKNIL
SEQ ID NO. 7336	nhs-847	TGEHLEVLSKLAGKF
SEQ ID NO. 7337	nhs-322	EKSVMDGAKAVLDTL
SEQ ID NO. 7338	nhs-2052	EHTRLRGLVSDAFTR
SEQ ID NO. 7339	nhs-2051	TDDVKSIVRFVQEHS
SEQ ID NO. 7340	nhs-2798	AEDVKVLKSVKKQIS
SEQ ID NO. 7341	nhs-797	EKDRNDLITYLKKAS
SEQ ID NO. 7342	nhs-2047	ISDKLMVHLVERVQR
SEQ ID NO. 7343	nhs-796	RVGFDALLREHVSTH
SEQ ID NO. 7344	nhs-2043	GSHMAVSKVMEKILR
SEQ ID NO. 7345	nhs-126	EASRKSLYDLTKSLV
SEQ ID NO. 7346	nhs-324	EAQKTLAEEVTKFIH
SEQ ID NO. 7347	nhs-2039	MEVLKRVLKSMDETA
SEQ ID NO. 7348	nhs-1026	PGEFKTLISKERKSH
SEQ ID NO. 7349	nhs-223	ASGEARRNGATEAFK
SEQ ID NO. 7350	nhs-795	NAEALILEMNLIKKH
SEQ ID NO. 7351	nhs-1033	EKALELAMAQIDKNF
SEQ ID NO. 7352	nhs-2025	YGDLKARVDQVRQAT
SEQ ID NO. 7353	nhs-2509	LKETIDDTASQILKF
SEQ ID NO. 7354	nhs-1112	EIAKETQARVLETIL
SEQ ID NO. 7355	nhs-1548	VQLDTAVVRALRERF
SEQ ID NO. 7356	nhs-1226	NKEGLELLKTAIGKA
SEQ ID NO. 7357	nhs-1457	LSTAQKIIKEARDAL
SEQ ID NO. 7358	nhs-623	PLSLVRDHRAKDVLT
SEQ ID NO. 7359	nhs-1640	RKSIKQLAEVAEREM
SEQ ID NO. 7360	nhs-621	RSDLNARILKSVVDQ
SEQ ID NO. 7361	nhs-523	EIAKETQARVLEAIL
SEQ ID NO. 7362	nhs-1464	EKVESEIKKVENFLR

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7363	nhs-618	QALREAIAQKTERLY
SEQ ID NO. 7364	nhs-525	KLDAQIKNISDALGK
SEQ ID NO. 7365	nhs-526	EKLDAQIKNISDALG
SEQ ID NO. 7366	nhs-35	DQHRQELVNWVDKVG
SEQ ID NO. 7367	nhs-1630	REEAISNMVVALKEL
SEQ ID NO. 7368	nhs-616	KETVEAWSARIKEQL
SEQ ID NO. 7369	nhs-81	GQQEAARAGELLKEK
SEQ ID NO. 7370	nhs-1626	KETKGHIFRAVENAL
SEQ ID NO. 7371	nhs-1477	SKVIIDRVTEYLESH
SEQ ID NO. 7372	nhs-709	SVIGREAKAQILEAE
SEQ ID NO. 7373	nhs-708	TYEMNRIQDAIKKLN
SEQ ID NO. 7374	nhs-1619	WVDKVKDLTKSEMNI
SEQ ID NO. 7375	nhs-1484	REELTAVMRFLTQRL
SEQ ID NO. 7376	nhs-685	VDDIVTKIKSYTTEQ
SEQ ID NO. 7377	nhs-538	LPDVDRAVLRTQAKL
SEQ ID NO. 7378	nhs-1238	RPEREKLMQTVSSMF
SEQ ID NO. 7379	nhs-1642	YKIATSIDKAIDRIL
SEQ ID NO. 7380	nhs-580	EKDVQTALALAKGKF
SEQ ID NO. 7381	nhs-1452	REKALELAMAQIDKN
SEQ ID NO. 7382	nhs-625	VIMDLIQRTKDAVRE
SEQ ID NO. 7383	nhs-85	IKKVRASVLYNQDEH
SEQ ID NO. 7384	nhs-2676	KDDVYEISKLILKSI
SEQ ID NO. 7385	nhs-1419	PEAATRAVFKVLSRE
SEQ ID NO. 7386	nhs-500	TVEMLVKVISEHKNR
SEQ ID NO. 7387	nhs-1425	LESAIQKVVEKISHR
SEQ ID NO. 7388	nhs-1670	PEIINEMTRMRMEML
SEQ ID NO. 7389	nhs-2701	RGQFDLLLLKHAEEQ
SEQ ID NO. 7390	nhs-504	PELKAKMETLKEVIT
SEQ ID NO. 7391	nhs-671	NLDSARFRHLMGEKL
SEQ ID NO. 7392	nhs-638	TDVANEIEKKIKEKL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7393	nhs-58	RLDHNRALSQIAAKT
SEQ ID NO. 7394	nhs-1489	PEHTIAAAKVILKKS
SEQ ID NO. 7395	nhs-2702	KNARNDFLKEVKIMS
SEQ ID NO. 7396	nhs-1317	EKAVEKVEKQVNDAV
SEQ ID NO. 7397	nhs-1439	KDKIIDNAITLFSEK
SEQ ID NO. 7398	nhs-675	LKDAINEALRDWVAT
SEQ ID NO. 7399	nhs-1441	THADHARSFHALHQT
SEQ ID NO. 7400	nhs-1442	DEISDTLRTRLVALT
SEQ ID NO. 7401	nhs-1648	LKSTFDDIKKIISKQ
SEQ ID NO. 7402	nhs-633	DEQRKLLKEAQAEHN
SEQ ID NO. 7403	nhs-34	TNAMQDIATQFKKEK
SEQ ID NO. 7404	nhs-2623	GGINRKRALLELEKS
SEQ ID NO. 7405	nhs-679	AKERASLMKAHGETG
SEQ ID NO. 7406	nhs-1447	MRERIEFLNEASVMK
SEQ ID NO. 7407	nhs-2618	RPRITELVGQLLDEL
SEQ ID NO. 7408	nhs-1240	MTLAKQEAKLVHEKI
SEQ ID NO. 7409	nhs-2657	VKEAQAAAEQLKTTR
SEQ ID NO. 7410	nhs-706	EKSALAYLEKHTARL
SEQ ID NO. 7411	nhs-2715	EVIDKIQKKTREFLN
SEQ ID NO. 7412	nhs-2641	SERYGRVILDRVEQR
SEQ ID NO. 7413	nhs-583	KVDRILALAETNAEL
SEQ ID NO. 7414	nhs-2648	AGTKERMRDILREIQ
SEQ ID NO. 7415	nhs-571	SNKENREAHLAAMLE
SEQ ID NO. 7416	nhs-1524	KLHSQANLMRLKSDL
SEQ ID NO. 7417	nhs-1266	GASRVRDLFETAKKQ
SEQ ID NO. 7418	nhs-69	AESIVREFVQEAVRK
SEQ ID NO. 7419	nhs-1525	SQNRGRELVEKMKDL
SEQ ID NO. 7420	nhs-2713	RAQRKLALTTIIEHT
SEQ ID NO. 7421	nhs-1268	LEALESNLKKLGDWL
SEQ ID NO. 7422	nhs-1566	FRDLALRVDQIRDNM

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7423	nhs-1551	TDEKERILKTVIDLV
SEQ ID NO. 7424	nhs-733	PKERTEWIKAIQMAS
SEQ ID NO. 7425	nhs-697	EATLQAMDEKLRKWK
SEQ ID NO. 7426	nhs-581	LETVAELIASKTLEK
SEQ ID NO. 7427	nhs-578	IHEGLKLANEQIQKA
SEQ ID NO. 7428	nhs-1276	PAQADLEFLENAKKL
SEQ ID NO. 7429	nhs-1531	VELRDELAAYITKQT
SEQ ID NO. 7430	nhs-1275	TNNRMELKAAIEGLK
SEQ ID NO. 7431	nhs-1540	DKAIDNTVRRANTIT
SEQ ID NO. 7432	nhs-1538	EKDRNDLITYMTKAA
SEQ ID NO. 7433	nhs-2645	EATVKTHLVHIYSKL
SEQ ID NO. 7434	nhs-1534	SREMRLVASYLKEAQ
SEQ ID NO. 7435	nhs-572	AQELDIKARNFLINK
SEQ ID NO. 7436	nhs-497	ERKDFIKTTVKELIS
SEQ ID NO. 7437	nhs-589	EGDLFTQLRKIVKMA
SEQ ID NO. 7438	nhs-560	KPLNNFAAEVGKIRD
SEQ ID NO. 7439	nhs-691	KEFIRKIVQAKQSAD
SEQ ID NO. 7440	nhs-692	RKELETFIKNGIDST
SEQ ID NO. 7441	nhs-2720	LRTRMGHTMALERLA
SEQ ID NO. 7442	nhs-605	TEKVVFQETKAIADN
SEQ ID NO. 7443	nhs-546	IVQALEETFRIGREL
SEQ ID NO. 7444	nhs-1248	SNVVRELIERVSDKL
SEQ ID NO. 7445	nhs-2654	SSDVVSYVRDQLRKH
SEQ ID NO. 7446	nhs-1595	PLVTKVHMEVARASR
SEQ ID NO. 7447	nhs-704	LSVMKETYETVMKKG
SEQ ID NO. 7448	nhs-1500	RDKLNMQLQRIIDEA
SEQ ID NO. 7449	nhs-1250	VQATDRLMKELRDIY
SEQ ID NO. 7450	nhs-1572	RDEVVNTRFSALLKE
SEQ ID NO. 7451	nhs-1502	EEGSAYNEKLIPISR
SEQ ID NO. 7452	nhs-1287	WTKASQQINQHVKDK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7453	nhs-553	DEVKIKVLQRLSIAS
SEQ ID NO. 7454	nhs-1283	RAEAEAEVQRSVERF
SEQ ID NO. 7455	nhs-1254	AEVRQATAEAERAVA
SEQ ID NO. 7456	nhs-1510	KEVAKKMVEYIIVNS
SEQ ID NO. 7457	nhs-1281	AAQKTLAEEVTKLVH
SEQ ID NO. 7458	nhs-1255	LDELNKALRLEALTR
SEQ ID NO. 7459	nhs-73	VEQDLKHVVTIKREL
SEQ ID NO. 7460	nhs-1576	ENTEKLLKILRDNVS
SEQ ID NO. 7461	nhs-2718	KLVTKIIAHELAHQW
SEQ ID NO. 7462	nhs-695	GEDARAALTTLSERV
SEQ ID NO. 7463	nhs-1289	ATYEIDRVLSQLLKE
SEQ ID NO. 7464	nhs-642	NEYLNLVGRLRKIID
SEQ ID NO. 7465	nhs-520	PRELKTDLTAFVEQV
SEQ ID NO. 7466	nhs-1414	AESVTAVKEAEKAIR
SEQ ID NO. 7467	nhs-1369	SIQRRIKKVTHDMDM
SEQ ID NO. 7468	nhs-2682	AAITHTARMADKLRL
SEQ ID NO. 7469	nhs-1700	TKHLHNDVEKERKEK
SEQ ID NO. 7470	nhs-653	ALSKSMAEIIRADMR
SEQ ID NO. 7471	nhs-1187	ALEFLLKAHQTAVDK
SEQ ID NO. 7472	nhs-1401	ADAVFAEVHRANLSK
SEQ ID NO. 7473	nhs-1402	ERELEQLSRGWVRGL
SEQ ID NO. 7474	nhs-658	TGDRLNFGLAAEKAR
SEQ ID NO. 7475	nhs-490	PDFLKKSVDESLKRL
SEQ ID NO. 7476	nhs-723	HWNRLNSDASNLKSK
SEQ ID NO. 7477	nhs-1693	DIQMVESIKRYLERK
SEQ ID NO. 7478	nhs-1367	DEARINQLFLTALDK
SEQ ID NO. 7479	nhs-89	AATLEEKLNKIFEKL
SEQ ID NO. 7480	nhs-2696	AADVEVSLRASLHRL
SEQ ID NO. 7481	nhs-88	RKLLKEAFQKTLTDL
SEQ ID NO. 7482	nhs-656	MVQALNRALDEEMAK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7483	nhs-1206	QFEKLMENMRNDIAS
SEQ ID NO. 7484	nhs-1185	ESQAERVRAELARFL
SEQ ID NO. 7485	nhs-1204	GLVNKAIQDMISKHH
SEQ ID NO. 7486	nhs-1398	RAQELMIVLEEYIRT
SEQ ID NO. 7487	nhs-1194	THSLARFAVDQHNTK
SEQ ID NO. 7488	nhs-1195	RTSKVRQLLDTTDIQ
SEQ ID NO. 7489	nhs-2687	DLLKHTTNVVKAHTN
SEQ ID NO. 7490	nhs-1726	EDEARAIVAARLNTL
SEQ ID NO. 7491	nhs-2735	VYKSAEAVDLATKEL
SEQ ID NO. 7492	nhs-646	PLKTLETLRKEVGAY
SEQ ID NO. 7493	nhs-478	HEYHAETIKNVRTAT
SEQ ID NO. 7494	nhs-1704	GMRTYLDLLQHVLDH
SEQ ID NO. 7495	nhs-2734	ETMRERTLFDRARGL
SEQ ID NO. 7496	nhs-663	EKAQQEYRKTLEKII
SEQ ID NO. 7497	nhs-2739	NSIKDKFEQALIDRV
SEQ ID NO. 7498	nhs-1735	EKLKIKAQSYLDAIQ
SEQ ID NO. 7499	nhs-49	VERLKQVLLHQQAKF
SEQ ID NO. 7500	nhs-649	RARYVTLAARLEQET
SEQ ID NO. 7501	nhs-668	QMEKLKGALDLLEQF
SEQ ID NO. 7502	nhs-1373	RNEARMLVDNRLRQL
SEQ ID NO. 7503	nhs-1337	IENKAADYLKVSAKN
SEQ ID NO. 7504	nhs-1361	LKEIIDELGKQAKEQ
SEQ ID NO. 7505	nhs-489	DADILSWANRKVRTM
SEQ ID NO. 7506	nhs-57	ERTLDLAMQRLKAFV
SEQ ID NO. 7507	nhs-51	GAESVLQVFREAKAE
SEQ ID NO. 7508	nhs-494	RELATQIYHETLKIT
SEQ ID NO. 7509	nhs-1748	FTRLGQLAEDIQKEI
SEQ ID NO. 7510	nhs-1411	SDDVKKAIIEGTKAY
SEQ ID NO. 7511	nhs-2816	EAVDQLVKFNRALAD
SEQ ID NO. 7512	nhs-1749	EYVRKSVGNALRDIS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7513	nhs-1357	ADTLERVTKIIVDRL
SEQ ID NO. 7514	nhs-1746	ASQYIGDLIHKDIKE
SEQ ID NO. 7515	nhs-1210	YRQRLTDLGAIAKAE
SEQ ID NO. 7516	nhs-1413	SDDVKRAIEKGTNDY
SEQ ID NO. 7517	nhs-2741	LSQLESVMKELYRES
SEQ ID NO. 7518	nhs-644	THEIQRMIGRAMRTA
SEQ ID NO. 7519	nhs-469	NKDALDLIQEAIKKA
SEQ ID NO. 7520	nhs-1358	MDSVFAEAIAKVRKQ
SEQ ID NO. 7521	nhs-823	QYGEGLARAVQDGLKK
SEQ ID NO. 7522	nhs-2402	SADRASLIDDAFALAR
SEQ ID NO. 7523	nhs-2164	PDSKTKLALDIIKGLE
SEQ ID NO. 7524	nhs-1284	PKTVAEMIDAFSRARD
SEQ ID NO. 7525	nhs-654	SVNLLKSHLEELAKKQ
SEQ ID NO. 7526	nhs-1377	RKAVAHINSVWKDLLE
SEQ ID NO. 7527	nhs-2110	PETYGRLSVLLKRAAE
SEQ ID NO. 7528	nhs-2376	REAIAASIHDVVKEVQ
SEQ ID NO. 7529	nhs-2780	LADAQYLHELLTRKNI
SEQ ID NO. 7530	nhs-1530	KQALIDSVYARETNRI
SEQ ID NO. 7531	nhs-2779	PYTLDVIRKDLKKQLL
SEQ ID NO. 7532	nhs-2153	EKERLFNNLAHLGNIL
SEQ ID NO. 7533	nhs-2160	EGAQQRMAQEVLTHLK
SEQ ID NO. 7534	nhs-827	KQELDAALKKAKELAS
SEQ ID NO. 7535	nhs-2373	REAIEGWKKITDGVHS
SEQ ID NO. 7536	nhs-2108	SVLDEAVRVRLSRNVD
SEQ ID NO. 7537	nhs-197	PKEMKEFLDEHQKMTS
SEQ ID NO. 7538	nhs-2105	DEQVRGWNNVTKAVHA
SEQ ID NO. 7539	nhs-2182	KQEMVDIIETVYRGAR
SEQ ID NO. 7540	nhs-805	AERLRDKILASEASFA
SEQ ID NO. 7541	nhs-2653	AQAKADVLDQIKLALD
SEQ ID NO. 7542	nhs-2404	PADIVKNLKDNMTILE

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7543	nhs-1381	LQELDIKIRKILSDKY
SEQ ID NO. 7544	nhs-2178	PSLVKKINNIREARYE
SEQ ID NO. 7545	nhs-271	GELAKHAVSEGTRAVT
SEQ ID NO. 7546	nhs-830	EDLKQLKSALYTLLET
SEQ ID NO. 7547	nhs-2174	ESEKVNEIVKAVKTAL
SEQ ID NO. 7548	nhs-602	VEEAVRIVKEVTEKLS
SEQ ID NO. 7549	nhs-176	AAENKLNDSLIQELKK
SEQ ID NO. 7550	nhs-1380	AGTLDWIKESSALAKK
SEQ ID NO. 7551	nhs-806	YKDLEGKVKSVLESNR
SEQ ID NO. 7552	nhs-2170	SDVKQELIKYGKKLVE
SEQ ID NO. 7553	nhs-2168	ENLVREQIVRVLLERV
SEQ ID NO. 7554	nhs-1379	KTSHEELAKKLTQVEK
SEQ ID NO. 7555	nhs-1359	HKEVTTIVEAIKALAN
SEQ ID NO. 7556	nhs-296	NQAKELERLIDKAMKK
SEQ ID NO. 7557	nhs-819	KLTEKAIGDVFSLLEK
SEQ ID NO. 7558	nhs-143	KESVEAMIIAGKSANE
SEQ ID NO. 7559	nhs-991	AKELIEKSVALSKAVK
SEQ ID NO. 7560	nhs-138	AKIKTIGIEARKDMQE
SEQ ID NO. 7561	nhs-999	NEVIDKMRAVQEQVAS
SEQ ID NO. 7562	nhs-1520	TEKSKELAEIVVQAFL
SEQ ID NO. 7563	nhs-293	GPVKEKILSVIKEWGT
SEQ ID NO. 7564	nhs-992	VAKDSEAIIKNVIDKY
SEQ ID NO. 7565	nhs-2132	EVYQILEKGAAKRTTA
SEQ ID NO. 7566	nhs-582	QEHRVMLVNSMNTVKE
SEQ ID NO. 7567	nhs-1366	GESERAVRQVFQRAKN
SEQ ID NO. 7568	nhs-2397	QNTLDHTSERIARIRV
SEQ ID NO. 7569	nhs-2646	PLGSKIASAREVIKRD
SEQ ID NO. 7570	nhs-995	KVEIQVLEDIYNSLNK
SEQ ID NO. 7571	nhs-1526	QKRESIVQAAIAEFGD
SEQ ID NO. 7572	nhs-1350	LDVAAEKIDRFMQAVT

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7573	nhs-657	TGDRLNFGLAAEKARR
SEQ ID NO. 7574	nhs-180	KPKNLDASITSIIHEI
SEQ ID NO. 7575	nhs-2120	EDFKVDAQRDIMQRTG
SEQ ID NO. 7576	nhs-2493	VDVAESLAIERAKSLF
SEQ ID NO. 7577	nhs-811	HETALRVTAERAMNTR
SEQ ID NO. 7578	nhs-1360	QTTKEVLEAKVKGLIR
SEQ ID NO. 7579	nhs-983	LDEILKAFKEAHSTVL
SEQ ID NO. 7580	nhs-2125	SSALDQAAQLRTRLEK
SEQ ID NO. 7581	nhs-2115	PKTALKIVDTIRKDIL
SEQ ID NO. 7582	nhs-1280	VRTWLKDAKQVLPEAL
SEQ ID NO. 7583	nhs-866	IDEVRNALIRGFSETL
SEQ ID NO. 7584	nhs-177	LSERVRESLKVWKNAE
SEQ ID NO. 7585	nhs-144	RDDLNLVLATAAKLKA
SEQ ID NO. 7586	nhs-2145	KNVRDLAIKLRDAKQD
SEQ ID NO. 7587	nhs-283	LHEVRNAVENANRVLS
SEQ ID NO. 7588	nhs-2144	KTIQEVIEALKPLFEK
SEQ ID NO. 7589	nhs-2117	ESQYKEMEAKVSSTLS
SEQ ID NO. 7590	nhs-2386	ADRLKAWTEALIRDVN
SEQ ID NO. 7591	nhs-1278	KEEALELINGYIQKIK
SEQ ID NO. 7592	nhs-286	KFENMGAQMVREVASR
SEQ ID NO. 7593	nhs-867	SMSVEAAKNARELLLK
SEQ ID NO. 7594	nhs-585	RAEAEAEVQRSVERFK
SEQ ID NO. 7595	nhs-2118	ADDTLALARARGEAMS
SEQ ID NO. 7596	nhs-198	PDELARRAAQVIADRT
SEQ ID NO. 7597	nhs-815	GRAVNHIKSVWKDLLE
SEQ ID NO. 7598	nhs-2184	ITKLRTDLRFIAELTI
SEQ ID NO. 7599	nhs-960	EVRNIVDKTASFVARN
SEQ ID NO. 7600	nhs-863	VELIHKAFIKGIKNAT
SEQ ID NO. 7601	nhs-637	REKALELAMAQIDKNF
SEQ ID NO. 7602	nhs-896	LVDQEMNNVYERVMKL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7603	nhs-2679	NSIKDKFEQALIDRVK
SEQ ID NO. 7604	nhs-2680	RQHQEKVIGYINSAEQ
SEQ ID NO. 7605	nhs-925	EKNLAYARKVKAALET
SEQ ID NO. 7606	nhs-228	KELYEHVKQLIALRKQ
SEQ ID NO. 7607	nhs-2796	RHQMTDLLSMDALYRQ
SEQ ID NO. 7608	nhs-2271	VVDMEQIMTEKLARQV
SEQ ID NO. 7609	nhs-927	AFIRASRALTDKVTDL
SEQ ID NO. 7610	nhs-928	MRKVKSVVLFHHSELL
SEQ ID NO. 7611	nhs-672	PKAVEITSYIRKVLEE
SEQ ID NO. 7612	nhs-207	LAENADKLGIILRNEL
SEQ ID NO. 7613	nhs-2448	GEAVLDHALTLKKGEN
SEQ ID NO. 7614	nhs-2449	LGDVLEREASAQQRLG
SEQ ID NO. 7615	nhs-160	VESMNKELKKIIGQVR
SEQ ID NO. 7616	nhs-1403	AEERKATILASLARYL
SEQ ID NO. 7617	nhs-931	TDLMNFLKTVRSTTEK
SEQ ID NO. 7618	nhs-206	TRDSGLVIKTLVDLFR
SEQ ID NO. 7619	nhs-239	LEDLVRLVEAKISRTL
SEQ ID NO. 7620	nhs-624	QVHVIREVASMAKEKL
SEQ ID NO. 7621	nhs-842	KTNLMAELEKMNKIIQ
SEQ ID NO. 7622	nhs-680	LNKAVRETAHETISAI
SEQ ID NO. 7623	nhs-2266	TNHSIVREYIVQSLRD
SEQ ID NO. 7624	nhs-1309	RERFLNARDTLRALLD
SEQ ID NO. 7625	nhs-853	RTLETSVKDALARANA
SEQ ID NO. 7626	nhs-2288	DQQARLKLEEIAADIK
SEQ ID NO. 7627	nhs-2	EPWAQRVEAAVQRVLD
SEQ ID NO. 7628	nhs-2321	DEKQKVAVEVIKNLLT
SEQ ID NO. 7629	nhs-2435	VGELNTRLTDDVSKIN
SEQ ID NO. 7630	nhs-2322	DTEKRDFVRTVLILKE
SEQ ID NO. 7631	nhs-166	ERNLDLKSTIKTIITS
SEQ ID NO. 7632	nhs-900	MAKLNQELEGKVADSL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7633	nhs-2324	DVVKNDARATASAYLE
SEQ ID NO. 7634	nhs-639	AADLKAVQDKLKTFVE
SEQ ID NO. 7635	nhs-908	ITLEQAKKLEKRLNEV
SEQ ID NO. 7636	nhs-1422	LSEIIVDFHDKIKSIS
SEQ ID NO. 7637	nhs-2801	HKLDAQLTQVLERAQN
SEQ ID NO. 7638	nhs-217	SAANKDAIRKQMDAAA
SEQ ID NO. 7639	nhs-899	KESAIKVLEKAIKAYQ
SEQ ID NO. 7640	nhs-2299	DKALKTMVEGLRQVAT
SEQ ID NO. 7641	nhs-1426	REGKTDLLRIVEKWKT
SEQ ID NO. 7642	nhs-2297	VKETDRIAAMVDGLQK
SEQ ID NO. 7643	nhs-1329	SRADAAVTDDARGLLA
SEQ ID NO. 7644	nhs-221	PYSVRAKDLAEKLSNE
SEQ ID NO. 7645	nhs-1321	KELVDQYKAAQEAARV
SEQ ID NO. 7646	nhs-222	ESDWKIARQIGPTLKE
SEQ ID NO. 7647	nhs-2290	LKLKEINVVNEITKIL
SEQ ID NO. 7648	nhs-211	DELRDKVNGALKTLRE
SEQ ID NO. 7649	nhs-1423	PAFIVEESIKAQRKLL
SEQ ID NO. 7650	nhs-832	TELKHTLESEGRELVK
SEQ ID NO. 7651	nhs-168	HEYHAETIKNVRTATE
SEQ ID NO. 7652	nhs-681	GTEANEAALKFARAHT
SEQ ID NO. 7653	nhs-613	ISTLDFEIRHQLTKIH
SEQ ID NO. 7654	nhs-612	PKFREAVKAASDELSK
SEQ ID NO. 7655	nhs-645	EISKAVDVYNSLKDRL
SEQ ID NO. 7656	nhs-256	FRQAHTASGKAVHLAE
SEQ ID NO. 7657	nhs-2710	ASQREAAERAMRQRDR
SEQ ID NO. 7658	nhs-61	PDQIGAKGVETADKVL
SEQ ID NO. 7659	nhs-2358	SEGLARIDAYLKNEIQ
SEQ ID NO. 7660	nhs-2359	NTVNVHIHRIREKLEK
SEQ ID NO. 7661	nhs-2205	GQVGRQLKIIGDDINR
SEQ ID NO. 7662	nhs-610	WDVIRDKTKTKIESLK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7663	nhs-2465	KSRLIDRASQLLEVIR
SEQ ID NO. 7664	nhs-2203	PTAKAELVKLIKAMQE
SEQ ID NO. 7665	nhs-1415	RDANERVAEFIRNKIR
SEQ ID NO. 7666	nhs-201	RLHTVMERLMDKISFS
SEQ ID NO. 7667	nhs-2418	PYSKQHTITLARELAK
SEQ ID NO. 7668	nhs-2694	KLSLNVVRKLIELLKE
SEQ ID NO. 7669	nhs-1385	PQDRAALLARVDQLAR
SEQ ID NO. 7670	nhs-2194	LESALAMLADAQQRKD
SEQ ID NO. 7671	nhs-2473	NEDLKKLEASAIELAK
SEQ ID NO. 7672	nhs-54	IFALAQEINELAEKAR
SEQ ID NO. 7673	nhs-606	EQAVLAQRIVDKIWRD
SEQ ID NO. 7674	nhs-2186	PLGQALRAIGDEFETR
SEQ ID NO. 7675	nhs-609	SETVDRAFGQMKAAIR
SEQ ID NO. 7676	nhs-1308	FRDLALRVDQIRDQMA
SEQ ID NO. 7677	nhs-614	SAVQIKRELNHLLYQR
SEQ ID NO. 7678	nhs-2353	AEVKETLALAEAAANK
SEQ ID NO. 7679	nhs-2812	KKDDEVFRTAVGDLNQ
SEQ ID NO. 7680	nhs-247	DAEVNRAKAQLKAALL
SEQ ID NO. 7681	nhs-859	KSEREDLIKYLKQATS
SEQ ID NO. 7682	nhs-2458	PKGQMALKFKELVEQR
SEQ ID NO. 7683	nhs-1463	PEQALNDAVKIMKEKI
SEQ ID NO. 7684	nhs-2460	SKNVSDMIDKVHEEMK
SEQ ID NO. 7685	nhs-1399	ADAVFAEVHRANLSKA
SEQ ID NO. 7686	nhs-2462	QLSKSMDAVAESIYEK
SEQ ID NO. 7687	nhs-2347	FDTALNTVIDAIDKIR
SEQ ID NO. 7688	nhs-682	EQGVMKAFEAALKDTA
SEQ ID NO. 7689	nhs-2218	PVEVAERIRTVVAAET
SEQ ID NO. 7690	nhs-947	GDAKLAEAKAAARQNL
SEQ ID NO. 7691	nhs-617	SGKFVNGILDRIAKEH
SEQ ID NO. 7692	nhs-2349	QRAFVKNVDAIERAKG

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7693	nhs-2228	SRVEQVLADLKNFSKE
SEQ ID NO. 7694	nhs-861	KTQIYAVKDKIETLLI
SEQ ID NO. 7695	nhs-174	DRQNKAYKEAMEALKE
SEQ ID NO. 7696	nhs-950	NEAADLIEKAINMAIR
SEQ ID NO. 7697	nhs-251	VAARSDLLVDQWKKKA
SEQ ID NO. 7698	nhs-2709	VREVFEMATRAALQAR
SEQ ID NO. 7699	nhs-951	ENDLQRATDLAYRMVS
SEQ ID NO. 7700	nhs-2664	HEKLTQARNQLLAEAA
SEQ ID NO. 7701	nhs-2230	LGHQVASDYLRIMERA
SEQ ID NO. 7702	nhs-2104	RDKILSDVLAKFSAAI
SEQ ID NO. 7703	nhs-464	DIHQIIDSIQETKKLK
SEQ ID NO. 7704	nhs-1274	RDIINARLREELDKIT
SEQ ID NO. 7705	nhs-1103	IGKITRTVSDYVQEAR
SEQ ID NO. 7706	nhs-2558	ENVHARIEGFKSALDV
SEQ ID NO. 7707	nhs-1104	KQAVSMFLGAVEEAKK
SEQ ID NO. 7708	nhs-1661	PDEMRKEVLMQLLNVK
SEQ ID NO. 7709	nhs-1894	HREAVEHFLEALNMQR
SEQ ID NO. 7710	nhs-1106	RVPEQKLGAAIDEFAS
SEQ ID NO. 7711	nhs-510	GDQADRYAVKLLNHLR
SEQ ID NO. 7712	nhs-1891	ISYVQGERQARNVLRE
SEQ ID NO. 7713	nhs-1663	DKFLQDKKLLISILEK
SEQ ID NO. 7714	nhs-507	AEGQAYRDNVARIIKN
SEQ ID NO. 7715	nhs-505	EGDLFTQLRKIVKMAS
SEQ ID NO. 7716	nhs-1667	LDELVKETKKKIIDTL
SEQ ID NO. 7717	nhs-1216	PATVVTALEQLAHHHH
SEQ ID NO. 7718	nhs-511	AREMANAKEIARTVQI
SEQ ID NO. 7719	nhs-1884	VELGRQLGAAYQRLDD
SEQ ID NO. 7720	nhs-1881	RDELKALIQKVTHNLV
SEQ ID NO. 7721	nhs-1215	RSELSDLGTLIKDNLK
SEQ ID NO. 7722	nhs-716	VQDLGSTVIKEVLKRA

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7723	nhs-1673	IIPRTLHQIFEKLTDN
SEQ ID NO. 7724	nhs-1876	TNELKEIVRKIGKDLS
SEQ ID NO. 7725	nhs-1675	PTIRERIEAMTAEASK
SEQ ID NO. 7726	nhs-107	QEARLGIKPHIQRLLD
SEQ ID NO. 7727	nhs-717	TADRDILARLHKAVTS
SEQ ID NO. 7728	nhs-2755	DGELNLMKKAASITSE
SEQ ID NO. 7729	nhs-2565	TDAINRGNERLLRYLQ
SEQ ID NO. 7730	nhs-409	REKALELAVAQIEKSY
SEQ ID NO. 7731	nhs-1120	GDVKVWMQNLEDLHTR
SEQ ID NO. 7732	nhs-1679	ENFTQRVSTNLEKMKQ
SEQ ID NO. 7733	nhs-2560	HAAGDRMLQEVATRLS
SEQ ID NO. 7734	nhs-2615	KTDRIKLEQVISGALK
SEQ ID NO. 7735	nhs-2758	EKSREFAEKLNREARD
SEQ ID NO. 7736	nhs-1221	SANTKRVMDIFLKINE
SEQ ID NO. 7737	nhs-2546	RQELELSVKKELEKIL
SEQ ID NO. 7738	nhs-1944	SEHLAKMLSKHLERVI
SEQ ID NO. 7739	nhs-1943	VFETLKEVSRLVLARV
SEQ ID NO. 7740	nhs-1228	DSVKIEAAKLKKSFLT
SEQ ID NO. 7741	nhs-2405	PTARERTTGAVDALKA
SEQ ID NO. 7742	nhs-1227	FKQLVEDLDRILTLTT
SEQ ID NO. 7743	nhs-1937	TGAMITGTMVDELERR
SEQ ID NO. 7744	nhs-1936	ETVLESYRTNSLRKIN
SEQ ID NO. 7745	nhs-1935	DLEKAKTHLVVLWASQ
SEQ ID NO. 7746	nhs-1084	KRTLNRYEKIANDIDA
SEQ ID NO. 7747	nhs-1932	DKAAFAAQKQKADALL
SEQ ID NO. 7748	nhs-2550	QALKDYEAHLASLGRS
SEQ ID NO. 7749	nhs-1086	PKTVNEMIDAFTKARD
SEQ ID NO. 7750	nhs-390	AGLSEKVDRLHSYLNR
SEQ ID NO. 7751	nhs-2496	HQGVAIDTFAKEVEKR
SEQ ID NO. 7752	nhs-1087	VEKSVETLLDLIMKRM

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7753	nhs-1225	PKEIQIQIRKFVGELI
SEQ ID NO. 7754	nhs-1921	DDVKKLAEETEARIKS
SEQ ID NO. 7755	nhs-1918	DDLMEAAAKRFKEQVS
SEQ ID NO. 7756	nhs-2552	MRNHAKTDRVFDLAAR
SEQ ID NO. 7757	nhs-82	ARHMRELLTQMGHLYG
SEQ ID NO. 7758	nhs-1649	PYNSRADELARLAIKE
SEQ ID NO. 7759	nhs-1913	TDLIKRIGQATAKEVA
SEQ ID NO. 7760	nhs-518	PYGRDRDGQVAAALKT
SEQ ID NO. 7761	nhs-1223	KELVLRILTVRENLAE
SEQ ID NO. 7762	nhs-1910	KNTADQVAVEAMRERM
SEQ ID NO. 7763	nhs-515	AKGQQEAARAGELLKE
SEQ ID NO. 7764	nhs-514	DVLYSLSKTLKDARDK
SEQ ID NO. 7765	nhs-1924	LTELNSLISRLADDTK
SEQ ID NO. 7766	nhs-1861	GTKVTKMEDDIKKLLG
SEQ ID NO. 7767	nhs-718	GLQRAKTGTDKTLVKE
SEQ ID NO. 7768	nhs-1124	PEKTKAVENYLIQMAR
SEQ ID NO. 7769	nhs-2736	DEKTAITKGYEALIKR
SEQ ID NO. 7770	nhs-91	AEVYDIIKKESNRQRV
SEQ ID NO. 7771	nhs-1727	AARTVRAQLREWLAEI
SEQ ID NO. 7772	nhs-2603	VSSIRDADRVIGLLES
SEQ ID NO. 7773	nhs-1731	SAEAVKKTAEDLAKEL
SEQ ID NO. 7774	nhs-100	NAVSLVMRRIRKENVD
SEQ ID NO. 7775	nhs-1161	LSQHERYVEQLKQALK
SEQ ID NO. 7776	nhs-1733	EADMKRVVLSLVTMLH
SEQ ID NO. 7777	nhs-2585	PEAINRGNERLLRYLQ
SEQ ID NO. 7778	nhs-1736	EKTRDAALILAQKAHA
SEQ ID NO. 7779	nhs-2602	KNELVQRLIKDDEESK
SEQ ID NO. 7780	nhs-1784	IFERLTSELLGVMAKK
SEQ ID NO. 7781	nhs-1783	MEEMRKEIIAVIQKYT
SEQ ID NO. 7782	nhs-1804	LDDVDFINKRITVLAN

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7783	nhs-1782	IATRKKWVSLVEGVKE
SEQ ID NO. 7784	nhs-1742	RAELDALLTQAALFKR
SEQ ID NO. 7785	nhs-92	AQELDIKARNFLINKK
SEQ ID NO. 7786	nhs-740	EKSILGAKEALSILNR
SEQ ID NO. 7787	nhs-1172	NELREALNKAFAEMRA
SEQ ID NO. 7788	nhs-739	DKGFQKVIADMSGPHV
SEQ ID NO. 7789	nhs-472	LSYREAVLRAVDRLNE
SEQ ID NO. 7790	nhs-2595	HLSGDEVLKTVSKRIL
SEQ ID NO. 7791	nhs-2598	TELKKITDKTIKAFMD
SEQ ID NO. 7792	nhs-1762	FRDLALRVDQIRDNMA
SEQ ID NO. 7793	nhs-468	VQDIERAVAKLAQKLK
SEQ ID NO. 7794	nhs-1760	VEIGEKIAQIAIDRAS
SEQ ID NO. 7795	nhs-2745	AHTYIAAKKIENEAKK
SEQ ID NO. 7796	nhs-1758	EETLINHAKAWASAIR
SEQ ID NO. 7797	nhs-99	RAERREVENVVVTALA
SEQ ID NO. 7798	nhs-1719	TNLTKLEVLLEISDKL
SEQ ID NO. 7799	nhs-1809	PEFREKALKAMETERQ
SEQ ID NO. 7800	nhs-1716	DAINQKAQELARKAVA
SEQ ID NO. 7801	nhs-760	PRELLIARQAANVIEH
SEQ ID NO. 7802	nhs-1684	QEEALELINGYIQKIK
SEQ ID NO. 7803	nhs-493	DERNRQIAEIGASLIK
SEQ ID NO. 7804	nhs-1686	LKEAMDLGTEAAKYVS
SEQ ID NO. 7805	nhs-2567	AHIQHDKTTSALKILS
SEQ ID NO. 7806	nhs-1689	ASLKEFLKSLLEAIIK
SEQ ID NO. 7807	nhs-24	SETVDRAFSQMKAAIR
SEQ ID NO. 7808	nhs-1131	RENFEILMKLKESLEL
SEQ ID NO. 7809	nhs-722	PQLAHDRITEAARQVR
SEQ ID NO. 7810	nhs-492	APYRKEQRLREVLSGL
SEQ ID NO. 7811	nhs-1139	RQEVQDTARGQINDYI
SEQ ID NO. 7812	nhs-421	MTLAKTEAKLLHEKIS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7813	nhs-2572	SDLVYETINRVKRIKD
SEQ ID NO. 7814	nhs-2573	RRKFEEVDTNLKVLLH
SEQ ID NO. 7815	nhs-2574	LDRLRQFIGELATLLD
SEQ ID NO. 7816	nhs-2608	VSKMNDMVKLVEKLLA
SEQ ID NO. 7817	nhs-2751	GGEAKAVETLKQQIQK
SEQ ID NO. 7818	nhs-1702	KEDVDVAVAAAKTALT
SEQ ID NO. 7819	nhs-2732	ATDVSKRLDLAVRLLI
SEQ ID NO. 7820	nhs-1707	REEAISNMVVALKELS
SEQ ID NO. 7821	nhs-752	AVIEMTKKVKPHLVAS
SEQ ID NO. 7822	nhs-751	AVIEMTQKTKEHLIKT
SEQ ID NO. 7823	nhs-1709	LSAAEHLLKAQEHLIG
SEQ ID NO. 7824	nhs-486	DNDRAFTIKKLAELVK
SEQ ID NO. 7825	nhs-1815	KEEHTELVKDLIAKLN
SEQ ID NO. 7826	nhs-727	TQHWVLEGIERAVKEA
SEQ ID NO. 7827	nhs-1713	GDSQDTAYKVSQLADR
SEQ ID NO. 7828	nhs-1714	GARLAEYHAKATEHLS
SEQ ID NO. 7829	nhs-437	YKKRLNELITDALITS
SEQ ID NO. 7830	nhs-524	RQEALELIKKGYTQQL
SEQ ID NO. 7831	nhs-2544	SVRMRAIQNRLLHELG
SEQ ID NO. 7832	nhs-1925	SEPLLHLREKIARLVT
SEQ ID NO. 7833	nhs-1355	RGHQKLINATVEKARE
SEQ ID NO. 7834	nhs-16	LESSHALAHALKMMRE
SEQ ID NO. 7835	nhs-336	KQTESHAVKIVVEAAR
SEQ ID NO. 7836	nhs-700	PEDMLEQFKTVRALIR
SEQ ID NO. 7837	nhs-2058	EDDVKSLSRVMIHVFS
SEQ ID NO. 7838	nhs-315	AYADVIVNSALEKLRK
SEQ ID NO. 7839	nhs-2522	IYEHLQKLVQAELKLI
SEQ ID NO. 7840	nhs-1042	KDAFLLIQRLTRIILH
SEQ ID NO. 7841	nhs-1590	EQGNREARQAGQLLKE
SEQ ID NO. 7842	nhs-547	QATLDKLEAGFKKLQE

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7843	nhs-1592	AVIYLISHKLVKKSLD
SEQ ID NO. 7844	nhs-1264	RVHKINNVNKALDFIA
SEQ ID NO. 7845	nhs-570	FDTALTDLKTIIRAER
SEQ ID NO. 7846	nhs-1594	DGTQRGALVISQEAKR
SEQ ID NO. 7847	nhs-790	DAQKIAIDKLFSMLKD
SEQ ID NO. 7848	nhs-1557	NHVNEALKALKQIKEE
SEQ ID NO. 7849	nhs-1018	ERDRTHSIIKGIKDRT
SEQ ID NO. 7850	nhs-788	KQVGALKSMVEDKIQK
SEQ ID NO. 7851	nhs-346	VYGKTKLAGEKALQDN
SEQ ID NO. 7852	nhs-1598	SEAANQRLEAGKSAVE
SEQ ID NO. 7853	nhs-787	KEQVQASLENMAKVVD
SEQ ID NO. 7854	nhs-1257	QETQKGALKEIQAFIR
SEQ ID NO. 7855	nhs-1603	PRAKKVLELSLREGLQ
SEQ ID NO. 7856	nhs-2628	KLHSQANLMRLKSDLF
SEQ ID NO. 7857	nhs-1020	GEAYKQQVARAVAEIR
SEQ ID NO. 7858	nhs-349	KEDFGKLMTKNHELLK
SEQ ID NO. 7859	nhs-549	KEAASVTRDHMVMVGT
SEQ ID NO. 7860	nhs-1038	RTEAANVEKITTKLLK
SEQ ID NO. 7861	nhs-2040	VGDDFSRVVNRQLDQT
SEQ ID NO. 7862	nhs-71	AGERIVDIIATDIQTK
SEQ ID NO. 7863	nhs-1028	VGDAISALSRKIAKET
SEQ ID NO. 7864	nhs-2035	RQAIFETLVAKGRELL
SEQ ID NO. 7865	nhs-2772	SVGAKTLKSVIKEYNE
SEQ ID NO. 7866	nhs-2032	IDLQKEVEALLDKQIK
SEQ ID NO. 7867	nhs-2636	NASDRLLEIMRLYQKQ
SEQ ID NO. 7868	nhs-1580	IDAAHKEITDGVANFK
SEQ ID NO. 7869	nhs-323	DEWKNKLDSLIDRIIK
SEQ ID NO. 7870	nhs-127	GRESVGFLVTIKELLE
SEQ ID NO. 7871	nhs-2027	VEKVLKTRYHDATSKL
SEQ ID NO. 7872	nhs-1582	PKVINRLAHEVIEAQQ

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7873	nhs-1583	SLAEMGANRLWKLIHE
SEQ ID NO. 7874	nhs-1570	RNDYRTLRQGIIDMVL
SEQ ID NO. 7875	nhs-1035	VRGRLAETLLILKENF
SEQ ID NO. 7876	nhs-2022	LGREKAVQEAIRDLIQ
SEQ ID NO. 7877	nhs-2640	SPRETLTDTIMMAKIR
SEQ ID NO. 7878	nhs-2049	GPDNLRKGIELAVAET
SEQ ID NO. 7879	nhs-1565	RETLEISYRNAIARLS
SEQ ID NO. 7880	nhs-1261	PADWAKKLTDAVLRQK
SEQ ID NO. 7881	nhs-1251	ISTLDFEIRHQLTQIH
SEQ ID NO. 7882	nhs-2520	KTVNMMELINNIAKEH
SEQ ID NO. 7883	nhs-551	QHLHTLLDLYDKINTK
SEQ ID NO. 7884	nhs-1634	KPQVFANAEKIVEQLK
SEQ ID NO. 7885	nhs-2071	PDQQRDFQREIQILKA
SEQ ID NO. 7886	nhs-1994	LEGLLSQMKAIDDLVK
SEQ ID NO. 7887	nhs-1014	FETNVRETKRVVEAAH
SEQ ID NO. 7888	nhs-780	PDDTARILREFLSDAR
SEQ ID NO. 7889	nhs-2507	EARQRLVEAQIKEAVL
SEQ ID NO. 7890	nhs-1071	KTELLRAVADRILLSA
SEQ ID NO. 7891	nhs-1545	PDHKATRDATLLAARE
SEQ ID NO. 7892	nhs-1967	ISTLDFKIRHQLTQTH
SEQ ID NO. 7893	nhs-1271	KSKKLEFLLKVSDRLE
SEQ ID NO. 7894	nhs-2724	ASLVKSRLEHELGRIR
SEQ ID NO. 7895	nhs-1965	FVENAIIKARHAAKQT
SEQ ID NO. 7896	nhs-2644	LAARKDFQREAELLTN
SEQ ID NO. 7897	nhs-2090	NQRAAIVEKKIELAKT
SEQ ID NO. 7898	nhs-2091	DEAVAKFSTAINELKA
SEQ ID NO. 7899	nhs-1618	DSTRETVLKQIREFLE
SEQ ID NO. 7900	nhs-2626	EMEREQLEVLKQRGIA
SEQ ID NO. 7901	nhs-1962	MDERNRQIAEIGASLI
SEQ ID NO. 7902	nhs-2540	ALNEKLVKETLQLAEQ

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7903	nhs-778	RDELVEKVNKTLAKRL
SEQ ID NO. 7904	nhs-528	KEAKNAAAKLAVEILN
SEQ ID NO. 7905	nhs-2093	ADAMNREVSSLKNKLR
SEQ ID NO. 7906	nhs-1539	HRLIDQATAEIVETAK
SEQ ID NO. 7907	nhs-1956	PKFKKILSLMDHVEEQ
SEQ ID NO. 7908	nhs-804	QAAASEWRARVVDALK
SEQ ID NO. 7909	nhs-1951	TQGVKRMNGFIQAHRE
SEQ ID NO. 7910	nhs-1950	VANAVQKIKGIVETEH
SEQ ID NO. 7911	nhs-2099	MDSKKYVQLKHKAAAE
SEQ ID NO. 7912	nhs-361	SKTGEKIMQLLKKLNE
SEQ ID NO. 7913	nhs-574	RTELKEIVTSDLKQLL
SEQ ID NO. 7914	nhs-1972	GRVVLDEAVKLLKQAS
SEQ ID NO. 7915	nhs-1610	RELMETGRSVVQKYLN
SEQ ID NO. 7916	nhs-539	QELELSLNMAFARARE
SEQ ID NO. 7917	nhs-537	PQVDKVREATEIATGL
SEQ ID NO. 7918	nhs-1066	GHEKLTQARNQLLAEA
SEQ ID NO. 7919	nhs-1243	LEKTRELKEVLNKVKY
SEQ ID NO. 7920	nhs-1980	PLTVKKHLRAQAIALE
SEQ ID NO. 7921	nhs-541	NQLQNGIKRVKEFLES
SEQ ID NO. 7922	nhs-1613	STVAEKSLTELLKSLH
SEQ ID NO. 7923	nhs-1269	DTHRRLVMETLIKAGD
SEQ ID NO. 7924	nhs-309	ENVKKKLSLALEAAKM
SEQ ID NO. 7925	nhs-785	ADLVKFGQRLRELRTA
SEQ ID NO. 7926	nhs-1056	GPKVRTWLSENGEERL
SEQ ID NO. 7927	nhs-131	SIIRDLTDAAVKMVRV
SEQ ID NO. 7928	nhs-308	REAAVEQLKSIREDIV
SEQ ID NO. 7929	nhs-2499	AKGQQEAARAGELLKEK
SEQ ID NO. 7930	nhs-2606	DEHAVEAVRGGQYILQR
SEQ ID NO. 7931	nhs-2511	RDAGQLYSKGMESLKVM
SEQ ID NO. 7932	nhs-2508	TAIIDQILKLRLEKAKL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7933	nhs-2747	FETVRSAAKTIREALDA
SEQ ID NO. 7934	nhs-2740	LAEAQADFLTRVLQRLE
SEQ ID NO. 7935	nhs-2690	SAAIREMLGHFSDANQK
SEQ ID NO. 7936	nhs-2510	RTGTFIVIDILIDIIRE
SEQ ID NO. 7937	nhs-179	NETRKSLIAGHMTEIMQ
SEQ ID NO. 7938	nhs-55	SGERDRTHSIIKGIKDR
SEQ ID NO. 7939	nhs-2581	FKQLVEALDKVLLAVSE
SEQ ID NO. 7940	nhs-40	SEVDIQGSMAYAKALEK
SEQ ID NO. 7941	nhs-2587	SLLKRTWEQAVKGLNES
SEQ ID NO. 7942	nhs-2588	PVDQATLTAFRDMRAAH
SEQ ID NO. 7943	nhs-15	ASERGRLLNRLADLIER
SEQ ID NO. 7944	nhs-2502	DREKALELAVAQIEKSY
SEQ ID NO. 7945	nhs-2503	PDREKALELAVAQIEKS
SEQ ID NO. 7946	nhs-2600	GETKTKYDAMKKDNVES
SEQ ID NO. 7947	nhs-2591	KAELQKAAQDAKAAYEA
SEQ ID NO. 7948	nhs-2575	LEAVMDAIRTTVTHWVK
SEQ ID NO. 7949	nhs-30	VKETVEAMRVVEATLSA
SEQ ID NO. 7950	nhs-2792	VSTNVTTAERLVRAAHK
SEQ ID NO. 7951	nhs-2607	ATLEAEYNLERAQKAVN
SEQ ID NO. 7952	nhs-2656	AAQVKDALTKMRAAALD
SEQ ID NO. 7953	nhs-2730	ASDKLWVTRVIAHELAH
SEQ ID NO. 7954	nhs-2797	AEKLFNQDVDAAVRGIL
SEQ ID NO. 7955	nhs-2759	IQEHINRLVAIRAQADI
SEQ ID NO. 7956	nhs-2471	KAESDAAYERQARKILE
SEQ ID NO. 7957	nhs-2760	GTDLMNFLKTVRSTTEK
SEQ ID NO. 7958	nhs-2446	NDEMKAVADAYKQVLKD
SEQ ID NO. 7959	nhs-84	KESVEAMIIAGKSANEH
SEQ ID NO. 7960	nhs-2763	WDKTGDILAEAALGLQR
SEQ ID NO. 7961	nhs-60	SAARERGEGFQQAVAAH
SEQ ID NO. 7962	nhs-152	AKEALEQARQNVEKTAE

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7963	nhs-8	MLAYSEMIAEKVRTAAR
SEQ ID NO. 7964	nhs-11	HEYHAETIKNVRTATES
SEQ ID NO. 7965	nhs-2670	RETVRVMAEVSALEATA
SEQ ID NO. 7966	nhs-2669	TTELTMIANRIRELMEA
SEQ ID NO. 7967	nhs-2706	RGKVERSIKIVDEYLSA
SEQ ID NO. 7968	nhs-2668	AKEIAQLVQDYTQHNGR
SEQ ID NO. 7969	nhs-2549	GPDGDAVVSLAKEYSKT
SEQ ID NO. 7970	nhs-2548	VAALIAERERVTTSLND
SEQ ID NO. 7971	nhs-153	LHLVDLARFAVTEHNKK
SEQ ID NO. 7972	nhs-2666	SAARERGEGFKQAIEAH
SEQ ID NO. 7973	nhs-155	REQVVVRLLDMLTKAAS
SEQ ID NO. 7974	nhs-20	QAVVQKSLAAIADDSKK
SEQ ID NO. 7975	nhs-43	MDERNRQIAEIGASLIK
SEQ ID NO. 7976	nhs-2538	RHVDYVADQIVTKLVDV
SEQ ID NO. 7977	nhs-66	AVDQRRAARTGMAFEML
SEQ ID NO. 7978	nhs-2787	AVLDDWLKQKGLKNQAL
SEQ ID NO. 7979	nhs-2786	QQLVTDIIHLARVARDS
SEQ ID NO. 7980	nhs-124	NAVSLVMRRIRKENVDA
SEQ ID NO. 7981	nhs-2609	RELTEKAFSLVKLALRD
SEQ ID NO. 7982	nhs-64	KDSLGETAFNMLLDRIV
SEQ ID NO. 7983	nhs-146	LEKNFQAAKNMIERAGE
SEQ ID NO. 7984	nhs-87	ANLTATYRKLEEMAKQV
SEQ ID NO. 7985	nhs-122	DSGIKRIAEAAWQVNES
SEQ ID NO. 7986	nhs-2652	AAERGRVLMRLSARVTD
SEQ ID NO. 7987	nhs-13	KPQLDKVLGFVAQAKKE
SEQ ID NO. 7988	nhs-2719	DKDRANLINNIFELAGL
SEQ ID NO. 7989	nhs-2566	PLAIHALLERMNEQKAK
SEQ ID NO. 7990	nhs-167	QWVKDAMQHLDRQAAAL
SEQ ID NO. 7991	nhs-2802	ARHRELAAGIEAWATQH
SEQ ID NO. 7992	nhs-2433	STNESVKNLLLERVKES

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 7993	nhs-2698	RNNMQHVAGITEAAKET
SEQ ID NO. 7994	nhs-2563	EEHFKVLVKMTAQELAN
SEQ ID NO. 7995	nhs-2808	SAERIRQLKTVLGKMQE
SEQ ID NO. 7996	nhs-2711	ETLKLETAKAILHGFQT
SEQ ID NO. 7997	nhs-2561	LSLLMKNADTAMYHAKE
SEQ ID NO. 7998	nhs-2700	YADVELNSRKVAAGLHK
SEQ ID NO. 7999	nhs-2437	ETDEYQLLQVKKLIALS
SEQ ID NO. 8000	nhs-2438	VVLAEKAQQIAKILVKE
SEQ ID NO. 8001	nhs-2674	ESLVMAGDLVIKTAKKH
SEQ ID NO. 8002	nhs-2785	KEGVYGLARTLLHLAQE
SEQ ID NO. 8003	nhs-2474	VQDRAALIHKIADGIQA
SEQ ID NO. 8004	nhs-148	EASIAISQARLDEKIAQ
SEQ ID NO. 8005	nhs-2754	KEQKAELVLNALVAIRY
SEQ ID NO. 8006	nhs-1843	PLEEKTIRAVARAHHET
SEQ ID NO. 8007	nhs-2396	ADMRSQRAQLAKGVFDR
SEQ ID NO. 8008	nhs-1522	TDLRIAFIAEVRKVANE
SEQ ID NO. 8009	nhs-1523	GKQASEVFAVLINKDKA
SEQ ID NO. 8010	nhs-1537	NQVLNKVKADKSLEANN
SEQ ID NO. 8011	nhs-1541	LAQVREEVTAKYAELKA
SEQ ID NO. 8012	nhs-1554	VEEKTELFNVVVSLIRA
SEQ ID NO. 8013	nhs-1560	MDELNRQIAEIGASLIK
SEQ ID NO. 8014	nhs-1563	HEYHQTTINNVRQAAAE
SEQ ID NO. 8015	nhs-1515	GERIKKIVNDILGGKNA
SEQ ID NO. 8016	nhs-1568	LEPFLAQMKALDDLIKS
SEQ ID NO. 8017	nhs-557	MKQTESHAVKIVVEAAR
SEQ ID NO. 8018	nhs-556	DFITSKLLSGAEDALLR
SEQ ID NO. 8019	nhs-555	TDLRLAFTALIREALNK
SEQ ID NO. 8020	nhs-1581	PKVINRLAHEVIEAQQA
SEQ ID NO. 8021	nhs-554	FETNVRETRRVVEAAHA
SEQ ID NO. 8022	nhs-552	EELAIQNARLAISIARK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8023	nhs-1600	EQGNREARQAGQLLKEA
SEQ ID NO. 8024	nhs-1575	GTKVTKMEDDIKKLLGR
SEQ ID NO. 8025	nhs-1601	QRAKKAIDLAFESAKSL
SEQ ID NO. 8026	nhs-1511	KESQVRTAKILNVLKET
SEQ ID NO. 8027	nhs-1499	PLEAVRMQNLIAREAEA
SEQ ID NO. 8028	nhs-1391	ARDIDTWANVTARSIRA
SEQ ID NO. 8029	nhs-1393	VVTDVRDFLAARAQALR
SEQ ID NO. 8030	nhs-1409	AEKAQAIAAARNTFARD
SEQ ID NO. 8031	nhs-643	GATHEIQRMIGRAMRTA
SEQ ID NO. 8032	nhs-641	TEASIAKAKRLIKLYND
SEQ ID NO. 8033	nhs-1427	VEAVRHMRLMNEAIAQL
SEQ ID NO. 8034	nhs-1433	KTDNLKIGKDYLEDVIN
SEQ ID NO. 8035	nhs-1507	AVTAKLDESLTKVIDFI
SEQ ID NO. 8036	nhs-635	DREKALELAMAQIDKNF
SEQ ID NO. 8037	nhs-1454	NELGRINKIIAEVAEKF
SEQ ID NO. 8038	nhs-615	VDVFKTKAQPLIKHILT
SEQ ID NO. 8039	nhs-1482	LSAAQTLRAAFIKAEKE
SEQ ID NO. 8040	nhs-1485	LDDLEKARTVLENRINA
SEQ ID NO. 8041	nhs-611	AGEQAIRQILDEAGKVG
SEQ ID NO. 8042	nhs-608	GLQRAKTGTDKTLVKEV
SEQ ID NO. 8043	nhs-1497	GTQLEKLMENMRNDIAS
SEQ ID NO. 8044	nhs-626	DSIRLLALLSLGEVGHH
SEQ ID NO. 8045	nhs-1384	IPSISIMLHELIKLLHH
SEQ ID NO. 8046	nhs-1604	LDDVKALHSKLTSVFAT
SEQ ID NO. 8047	nhs-1624	SKESGVIQGDLIAKHWQ
SEQ ID NO. 8048	nhs-1770	TYARAEKALVDIVRHSQ
SEQ ID NO. 8049	nhs-1772	TNERIAQRALEGFTRSL
SEQ ID NO. 8050	nhs-454	ALQKEQAKLSLESWADV
SEQ ID NO. 8051	nhs-1780	VVDRFLADLQDAVAQVR
SEQ ID NO. 8052	nhs-1781	REELGRHSWAVLHTLAA

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8053	nhs-1785	LPTAKDELTKALDLLNS
SEQ ID NO. 8054	nhs-1788	RLELKALEVAARTSILT
SEQ ID NO. 8055	nhs-459	ASERGQLIYKLADLIER
SEQ ID NO. 8056	nhs-452	ASHRGRLLNRLADLIER
SEQ ID NO. 8057	nhs-1798	DAGVLDAYTHHTERLKS
SEQ ID NO. 8058	nhs-1802	GESRVISVAEVKGLVEQ
SEQ ID NO. 8059	nhs-438	KEEALELINGYIQKIKS
SEQ ID NO. 8060	nhs-1814	DKGQKIAQQIKSIIDIM
SEQ ID NO. 8061	nhs-1818	YIELDRLSTNLATRLAE
SEQ ID NO. 8062	nhs-426	PEVAAEVIKDLVNTVRS
SEQ ID NO. 8063	nhs-424	WEDTDALLRQLANAVKA
SEQ ID NO. 8064	nhs-445	IEAATHVGKQIVEKILK
SEQ ID NO. 8065	nhs-536	DETIELLLNSVKAAFGK
SEQ ID NO. 8066	nhs-1767	QADRKAEKIIFNELSKA
SEQ ID NO. 8067	nhs-1763	TEAAAEQGAKLLAKFRQ
SEQ ID NO. 8068	nhs-1627	IKESIKELVEELSMFAK
SEQ ID NO. 8069	nhs-529	SRLSGALNRAEGLMEEL
SEQ ID NO. 8070	nhs-1645	LENLADGYKHMSLALNR
SEQ ID NO. 8071	nhs-516	AREMANAKEIARTVQIM
SEQ ID NO. 8072	nhs-1676	AEKIDRWVILNSIKLLA
SEQ ID NO. 8073	nhs-1677	AHVKSHGAKVLASFSEG
SEQ ID NO. 8074	nhs-1680	SAAIHRLVDTSEKLSKK
SEQ ID NO. 8075	nhs-1765	RSERAEANLKLLLNAFE
SEQ ID NO. 8076	nhs-1682	TREAVAKLTAARLAADV
SEQ ID NO. 8077	nhs-2399	HEYHQTTINNLRAAATE
SEQ ID NO. 8078	nhs-1692	DVSLELLTKGRSLANEL
SEQ ID NO. 8079	nhs-1696	QEEALELINGYIQKIKS
SEQ ID NO. 8080	nhs-1701	PDKNYSKAEKLIKEASK
SEQ ID NO. 8081	nhs-487	DNDRAFTIKKLAELVKE
SEQ ID NO. 8082	nhs-475	LTKFGELLNASHASLKD

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8083	nhs-1743	ANDKNAFILNKIKVIHG
SEQ ID NO. 8084	nhs-1687	VDEAMSFAEVLKQVKSL
SEQ ID NO. 8085	nhs-1845	LVEKNLKIFKGIVSEVM
SEQ ID NO. 8086	nhs-1378	VKSARIARNTQIIIQEE
SEQ ID NO. 8087	nhs-1342	IDEALAFAEILKQIKSM
SEQ ID NO. 8088	nhs-821	QTRIKELVKVAQEVGAA
SEQ ID NO. 8089	nhs-820	AQVKDALTKMRAAALDA
SEQ ID NO. 8090	nhs-813	AKALKAVQDKLKAFVES
SEQ ID NO. 8091	nhs-1013	RDRAQAVETYLKKLIAT
SEQ ID NO. 8092	nhs-800	IPELTNLKNALEAKSKE
SEQ ID NO. 8093	nhs-1029	PKVGREAITSIIDTLET
SEQ ID NO. 8094	nhs-1030	KESGIIQGDLIAKHWAA
SEQ ID NO. 8095	nhs-825	VTVKRNSANVIAHEIAH
SEQ ID NO. 8096	nhs-1041	RTEAANVEKITTKLLKA
SEQ ID NO. 8097	nhs-1058	TARVETVIGIADTFLKR
SEQ ID NO. 8098	nhs-1062	REEAISNMVVALKELSI
SEQ ID NO. 8099	nhs-783	KKIAEDVKTAGATIIKN
SEQ ID NO. 8100	nhs-1065	IAAQKNDDDRQARALAA
SEQ ID NO. 8101	nhs-1079	EDVQLTLRNMALEAFKA
SEQ ID NO. 8102	nhs-1096	SDSRMAMTGAIRKVFVE
SEQ ID NO. 8103	nhs-1097	KDASEMIKKAVEMTISS
SEQ ID NO. 8104	nhs-1054	KGPKVRTWLSENGEERL
SEQ ID NO. 8105	nhs-765	PDTFKELKQGAHALKLA
SEQ ID NO. 8106	nhs-974	PELLAHGRQKILDLLNE
SEQ ID NO. 8107	nhs-962	LETVRKATKSALEKAVE
SEQ ID NO. 8108	nhs-893	QNIRLTSETQLKKLSND
SEQ ID NO. 8109	nhs-856	SETVDRAFSQMKAAIRA
SEQ ID NO. 8110	nhs-905	EKIVKMNTDAVDQAVTS
SEQ ID NO. 8111	nhs-907	DAGREALDLAAASIRSG
SEQ ID NO. 8112	nhs-911	PKMMADGIDKTLEVALT

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8113	nhs-914	RAARELQADALEQLGYQ
SEQ ID NO. 8114	nhs-915	KTVKDLTKLLYETALLT
SEQ ID NO. 8115	nhs-965	GTEANEAAIKIARKYGK
SEQ ID NO. 8116	nhs-916	LKVQLIDKLGEVDFRLT
SEQ ID NO. 8117	nhs-852	EKRQGALELIKKGYTQQ
SEQ ID NO. 8118	nhs-926	PEAADKFKEINNAHAIL
SEQ ID NO. 8119	nhs-930	KELAEKALQAVEIARDT
SEQ ID NO. 8120	nhs-839	RKQHVAGLKALQDWAQN
SEQ ID NO. 8121	nhs-946	KAAVDRALQQVTSTKDA
SEQ ID NO. 8122	nhs-948	KADVDNALNAVTRAKAA
SEQ ID NO. 8123	nhs-837	LDISLHVLLETFIKGLR
SEQ ID NO. 8124	nhs-854	EVYGEKIVKVQELAIKT
SEQ ID NO. 8125	nhs-1347	RAERAGEATRSLIDKIT
SEQ ID NO. 8126	nhs-1114	KHAAERLQQALAQAAER
SEQ ID NO. 8127	nhs-1121	EQYTENLKVIVAEKLAG
SEQ ID NO. 8128	nhs-705	RAEAEAEVQRSVERFKA
SEQ ID NO. 8129	nhs-1252	NADKQVTSILKKAGDLL
SEQ ID NO. 8130	nhs-1258	QETQKGALKEIQAFIRS
SEQ ID NO. 8131	nhs-1260	VETTRKIITNLTEGASR
SEQ ID NO. 8132	nhs-701	KDGETKILKETVEELKK
SEQ ID NO. 8133	nhs-1290	KDVEKVIRAAAIANKET
SEQ ID NO. 8134	nhs-1296	GWRAAETNVAKSEAEKR
SEQ ID NO. 8135	nhs-1245	RLIDAHNQAVDFAVRQV
SEQ ID NO. 8136	nhs-1301	DETRREMGNAAVRAAKA
SEQ ID NO. 8137	nhs-1312	VNDLIKENVKMAVKNVV
SEQ ID NO. 8138	nhs-676	EQDFAVLTAEITSKIAR
SEQ ID NO. 8139	nhs-1325	NQAVSILVAKVEEIFKD
SEQ ID NO. 8140	nhs-1327	MGALTALIRDQKARVEA
SEQ ID NO. 8141	nhs-1328	SRADAAVTDDARGLLAA
SEQ ID NO. 8142	nhs-1330	GEEKSRALAVLKAALNS

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8143	nhs-661	LAAQKTLVDGIRKEVAA
SEQ ID NO. 8144	nhs-1311	HEFTKLVKELEGVITKA
SEQ ID NO. 8145	nhs-1119	VEAALDNLMIKVYEITK
SEQ ID NO. 8146	nhs-1237	DGKRLENLVRGIFAGNI
SEQ ID NO. 8147	nhs-1231	LQATIAGKLDKLRDAQR
SEQ ID NO. 8148	nhs-1141	KKDAEISAGRTALLAIQ
SEQ ID NO. 8149	nhs-1147	ADVLKKTIKNTLDIHKS
SEQ ID NO. 8150	nhs-1156	LNLKQAKEEAIKELVDA
SEQ ID NO. 8151	nhs-734	ETHANKIVRAYELALKV
SEQ ID NO. 8152	nhs-1180	HELLDESAKKIVEVAKS
SEQ ID NO. 8153	nhs-1183	HMASKRDKIADIQEALA
SEQ ID NO. 8154	nhs-1188	DDLQRAIALSLAESNRA
SEQ ID NO. 8155	nhs-710	DSTAAVAVLKRAVELDA
SEQ ID NO. 8156	nhs-1190	EQTADQIFKLSHLLKLT
SEQ ID NO. 8157	nhs-1192	ITVDRLVSKALNMWGKE
SEQ ID NO. 8158	nhs-731	SIDYAAEIAKDMIKKAN
SEQ ID NO. 8159	nhs-1200	IGERVVRAHLSVWDDVS
SEQ ID NO. 8160	nhs-713	PSLAEHALKALDRIMAQ
SEQ ID NO. 8161	nhs-1218	KGRDILTKTIILALREV
SEQ ID NO. 8162	nhs-1222	ARDVDNTIKLAKALLEE
SEQ ID NO. 8163	nhs-1229	NAALAKFETIRAHGALR
SEQ ID NO. 8164	nhs-1191	HITVDRLVSKALNMWGK
SEQ ID NO. 8165	nhs-1847	EDMEKRANEVANLLKTL
SEQ ID NO. 8166	nhs-1688	DVQIQKDNLVKDAIRAN
SEQ ID NO. 8167	nhs-0	KGTFAIAKAMGRGTHEH
SEQ ID NO. 8168	nhs-238	RERVLEAAQGLRQALLA
SEQ ID NO. 8169	nhs-237	KKAEAVATVVAAVDQAR
SEQ ID NO. 8170	nhs-2087	GGGTDLGKFVLAKKEEN
SEQ ID NO. 8171	nhs-2262	NDQLKTVVGEFTALLDK
SEQ ID NO. 8172	nhs-303	LDKNYSKAEKLIKEASK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8173	nhs-235	HHAVEQIRAKISTAIFQ
SEQ ID NO. 8174	nhs-2265	DQRRLDLVHTAALMLDK
SEQ ID NO. 8175	nhs-307	AKEKSKFEDMAKSDKAR
SEQ ID NO. 8176	nhs-2269	KLGETEQEGIAGRMIRN
SEQ ID NO. 8177	nhs-2073	KDEVYQILEKGAAKRTT
SEQ ID NO. 8178	nhs-229	IPGIVEDYRQAAQRAKR
SEQ ID NO. 8179	nhs-2068	PTLVNEIAKEIVNYLKK
SEQ ID NO. 8180	nhs-2066	QRARAVLDRAAELATIA
SEQ ID NO. 8181	nhs-2278	AEAEKRIQEAAVTIYKA
SEQ ID NO. 8182	nhs-2050	PRAKKVLELSLREALQL
SEQ ID NO. 8183	nhs-2045	FIQRTAHDRILPALISK
SEQ ID NO. 8184	nhs-2042	HRLIDQATAEIVETAKR
SEQ ID NO. 8185	nhs-2281	WPRVRRDIANLGQAAEA
SEQ ID NO. 8186	nhs-2028	PRLLGETAGLKQVEADT
SEQ ID NO. 8187	nhs-333	EKTFNLAMALKVESILK
SEQ ID NO. 8188	nhs-2017	YGVARQLKESQDKSIDN
SEQ ID NO. 8189	nhs-2016	EATRAKMRAASERLGSL
SEQ ID NO. 8190	nhs-338	TAHKNAVTLRVNALKEQ
SEQ ID NO. 8191	nhs-340	QLAVEKGNLENKKSITE
SEQ ID NO. 8192	nhs-1997	YPLLVKILDSLGERKVT
SEQ ID NO. 8193	nhs-2092	RGHQKLINATVEKAREV
SEQ ID NO. 8194	nhs-2298	TAAKNAALEAVARAIER
SEQ ID NO. 8195	nhs-2257	PETLRQVTQHAEHVVNA
SEQ ID NO. 8196	nhs-2096	GAHRATYLRAIAAKITE
SEQ ID NO. 8197	nhs-2180	RENVDRVTEALRAALQH
SEQ ID NO. 8198	nhs-265	AEAAKAEIVASFERAKN
SEQ ID NO. 8199	nhs-261	TEVDIQASMAYAKALEK
SEQ ID NO. 8200	nhs-2162	HSSKNDIHTLLMDLNSY
SEQ ID NO. 8201	nhs-259	ISSITDGLKTKIVAERL
SEQ ID NO. 8202	nhs-2208	SDIRDIVQSAHMRVVKE

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8203	nhs-258	FRQAHTASGKAVHLAET
SEQ ID NO. 8204	nhs-2149	HSSKNDIHTLLKDLNSY
SEQ ID NO. 8205	nhs-290	LAVELKQSTAQAHEKAE
SEQ ID NO. 8206	nhs-2136	ELEAEATHRVITIANRT
SEQ ID NO. 8207	nhs-255	SEVDIQASIAYAKALEK
SEQ ID NO. 8208	nhs-254	KILEASVIIWRVIDDTA
SEQ ID NO. 8209	nhs-2216	RGQRQMEVLSAIIDKSK
SEQ ID NO. 8210	nhs-292	HEKLTQARNQLLAEAAK
SEQ ID NO. 8211	nhs-2130	PEVHRLTHALRAATRIV
SEQ ID NO. 8212	nhs-2127	KDARALQADAMEQLGYQ
SEQ ID NO. 8213	nhs-2123	QRHVERAARAAVQALQL
SEQ ID NO. 8214	nhs-2241	VEDTVEALGKIRNAIAR
SEQ ID NO. 8215	nhs-245	NEAADLVIKSMEKTIAS
SEQ ID NO. 8216	nhs-2121	ATDQKVEKMLISSIKEK
SEQ ID NO. 8217	nhs-2119	ADDTLALARARGEAMSA
SEQ ID NO. 8218	nhs-2245	REVSLTSGRLVLQGLRD
SEQ ID NO. 8219	nhs-2256	PDVREMNGVLKGMLSEW
SEQ ID NO. 8220	nhs-2113	VEEAVRIVKEVIQKLAN
SEQ ID NO. 8221	nhs-2103	LIKQAEAKKELEVFLDT
SEQ ID NO. 8222	nhs-2095	VNLIRERGQFIGEEVKA
SEQ ID NO. 8223	nhs-1983	LDESLKIVKEYLIAATA
SEQ ID NO. 8224	nhs-2031	AKVLAHGEKVLTSFGEG
SEQ ID NO. 8225	nhs-2345	RYERQKILLATAEALAA
SEQ ID NO. 8226	nhs-382	PTISLKTVKLMKEGLEA
SEQ ID NO. 8227	nhs-1961	TKEKIAITENALAVAHQ
SEQ ID NO. 8228	nhs-208	GVPASKTIAERDLKAMD
SEQ ID NO. 8229	nhs-1954	TYLKHDSVLKTIRGLVE
SEQ ID NO. 8230	nhs-400	AEVAETKVAMVNKYARE
SEQ ID NO. 8231	nhs-2362	DALVRDAQQAAARIADS
SEQ ID NO. 8232	nhs-2342	DTMADSYGKVMGRDGRA

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8233	nhs-2381	PGLVKETKRALNRALET
SEQ ID NO. 8234	nhs-1931	YLKEALRLAQEALNRLG
SEQ ID NO. 8235	nhs-2350	HSVWQRMGDELLAKAAE
SEQ ID NO. 8236	nhs-2301	ADEIKNVWKEEVSRLVG
SEQ ID NO. 8237	nhs-2343	EAAVTRSAERIVGQMEK
SEQ ID NO. 8238	nhs-1953	EAQRTALYTKAEQQLDK
SEQ ID NO. 8239	nhs-1947	LEDRAATLSKHQVAVE
SEQ ID NO. 8240	nhs-196	ETGIKEAKLGGERLKSR
SEQ ID NO. 8241	nhs-1966	QQQLDRAIEAFGQVGKK
SEQ ID NO. 8242	nhs-2344	PAAADATIAEAVKSARK
SEQ ID NO. 8243	nhs-374	EENLKQARAALERLYTA
SEQ ID NO. 8244	nhs-2326	PEVTVEAIKRLSDLFAR
SEQ ID NO. 8245	nhs-386	SHDARKEHKQFVAELKA
SEQ ID NO. 8246	nhs-1858	AAQRARVETEALKYLRA
SEQ ID NO. 8247	nhs-1979	PLTVKKHLRAQAIALEN
SEQ ID NO. 8248	nhs-200	TDAVKKIAEAAFRVNEK
SEQ ID NO. 8249	nhs-2318	LENSKLNQKVIDAIYRA
SEQ ID NO. 8250	nhs-1923	LTELNSLISRLADDTKT
SEQ ID NO. 8251	nhs-209	INDGLRIARKLLLDIND
SEQ ID NO. 8252	nhs-213	NEASKALTSARFVLSDK
SEQ ID NO. 8253	nhs-388	AVSERGAAEALTAIRRG
SEQ ID NO. 8254	nhs-2352	RTGVFIALDHLTQHIND
SEQ ID NO. 8255	nhs-191	LHEKLFLLAIVRSLKIS
SEQ ID NO. 8256	nhs-2384	KDTSKKVQMARLAWEAS
SEQ ID NO. 8257	nhs-1975	GLQKEQAKLSLESWADV
SEQ ID NO. 8258	nhs-2325	LTKNLKVVKELISEAIQ
SEQ ID NO. 8259	nhs-1971	DATTAARAARLAAVAED
SEQ ID NO. 8260	nhs-1977	EAHAEKVHSYVTAGITS
SEQ ID NO. 8261	nhs-2224	QLVARLEGEVMLSALARK
SEQ ID NO. 8262	nhs-2237	TARVEEAQQAAVRIADTL

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8263	nhs-1224	PRSVGKASEQLAGKVAEV
SEQ ID NO. 8264	nhs-1219	EADIHEGMQRFAQAVGKV
SEQ ID NO. 8265	nhs-910	PKLVRAAVEAHSKALDSA
SEQ ID NO. 8266	nhs-2371	LETVRKATKSALEKAVEL
SEQ ID NO. 8267	nhs-2378	SLETVRKATKSALEKAVE
SEQ ID NO. 8268	nhs-2804	ERFNAALHESAHTVIAQV
SEQ ID NO. 8269	nhs-257	SEVDIQGSMAYAKALEKA
SEQ ID NO. 8270	nhs-2721	RAAAAEIAVKTVSEFITR
SEQ ID NO. 8271	nhs-178	IAAGQNELLKRAKANGDA
SEQ ID NO. 8272	nhs-702	DAGRKNFAKTAVKLLQDL
SEQ ID NO. 8273	nhs-895	EMAFKIAGSMAIKEAVQK
SEQ ID NO. 8274	nhs-2390	ARELAELGMKITAAANEQ
SEQ ID NO. 8275	nhs-887	EKTMLVLALLLAKKVASH
SEQ ID NO. 8276	nhs-880	ADAQKREVAAFLAQTSHE
SEQ ID NO. 8277	nhs-698	IAHNLAQVRDKISAAATR
SEQ ID NO. 8278	nhs-2464	GDPIEINGLKAAFKELSN
SEQ ID NO. 8279	nhs-1201	LPGRIVQDQKNARAHAVT
SEQ ID NO. 8280	nhs-219	EFDLLGQAAASKLARDLT
SEQ ID NO. 8281	nhs-850	TDEGLKEATKLTQSVKKL
SEQ ID NO. 8282	nhs-1044	DAELAQSISMTRAEAKAA
SEQ ID NO. 8283	nhs-1060	GSAFESAMVNHVTKVADH
SEQ ID NO. 8284	nhs-2313	AKVKAHGKKVIDSFSEGL
SEQ ID NO. 8285	nhs-215	SKESGIIQGDLIAKHWAA
SEQ ID NO. 8286	nhs-2285	AEQAQQVHAFLRGRLAAK
SEQ ID NO. 8287	nhs-1016	ADLKGQLAQRIVDDVSVA
SEQ ID NO. 8288	nhs-994	SESLVKTLISEFAAVAEK
SEQ ID NO. 8289	nhs-41	FRQAHTASGKAVHLAETK
SEQ ID NO. 8290	nhs-2283	IQSKVALKTFAAADQREA
SEQ ID NO. 8291	nhs-2275	DNVMTAEMRKIAMAAVLD
SEQ ID NO. 8292	nhs-1099	ISYIIRKADSVNKALDSA

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8293	nhs-161	VSKMLASFEKIITETVAK
SEQ ID NO. 8294	nhs-970	AAEVNTRVAKVVQDAANK
SEQ ID NO. 8295	nhs-2334	NKEQAKAREAIGNGLTML
SEQ ID NO. 8296	nhs-757	PMIAKHGTTILHGLDRAV
SEQ ID NO. 8297	nhs-755	EKILNDVSQAKAQHLKAA
SEQ ID NO. 8298	nhs-959	VVAEVKAFLEAQARRALS
SEQ ID NO. 8299	nhs-956	PIAIAEVREALTRTLATE
SEQ ID NO. 8300	nhs-749	AGAATEEFIKRAEVNGLA
SEQ ID NO. 8301	nhs-742	AKDAGLFIGSIVQEIAER
SEQ ID NO. 8302	nhs-1179	YDIAMEIVNGVDRVIKAS
SEQ ID NO. 8303	nhs-2742	DAATIKALLSHAHEAQRS
SEQ ID NO. 8304	nhs-841	KNEQLAIAHGIQKIIAEN
SEQ ID NO. 8305	nhs-244	LAAQKTLVDGIRKEVAAE
SEQ ID NO. 8306	nhs-846	KAAFLKATDELIAAVTAH
SEQ ID NO. 8307	nhs-2240	AEARGNRMADQAAREAAM
SEQ ID NO. 8308	nhs-2189	GAQALKAVLEHGPTLRQR
SEQ ID NO. 8309	nhs-2692	KVGNIIDTMITDAFLKAD
SEQ ID NO. 8310	nhs-1300	GGAKASDDARTLAEVFTK
SEQ ID NO. 8311	nhs-513	RAKASFDTRVAAAELALA
SEQ ID NO. 8312	nhs-1978	TDQLLEHAKESLTHAKAA
SEQ ID NO. 8313	nhs-1647	RAEVDLVVQDLKQAVAQL
SEQ ID NO. 8314	nhs-2622	GADLENLLNEAALLAARK
SEQ ID NO. 8315	nhs-2529	ADVRKNANEAVLGIMIHL
SEQ ID NO. 8316	nhs-1981	IAAAIETTRTVLAAARER
SEQ ID NO. 8317	nhs-1996	VEADVTIGPYLKAQADKQ
SEQ ID NO. 8318	nhs-2534	TKQILDAKGPEGVVDWVK
SEQ ID NO. 8319	nhs-2188	GAQALKAVLEHGPTLNER
SEQ ID NO. 8320	nhs-327	RPEAEAVSMLVKEAVVTF
SEQ ID NO. 8321	nhs-319	IADKAEQVIQNIKNVLEA
SEQ ID NO. 8322	nhs-2064	PMVRAHGKKVLTSFGDAV

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8323	nhs-2069	SNKEALAKGMLLLFAHHL
SEQ ID NO. 8324	nhs-591	PLEAVRMQNLIAREAEAA
SEQ ID NO. 8325	nhs-2075	ATGDLALKKLENAIKKVQ
SEQ ID NO. 8326	nhs-1494	VETRKVMADLVVGNLEAH
SEQ ID NO. 8327	nhs-70	AQTRDGIIAGFKKALDET
SEQ ID NO. 8328	nhs-1968	KDLASALELLTGLRKKIA
SEQ ID NO. 8329	nhs-1960	RAQAQKLAGTAHDGLARA
SEQ ID NO. 8330	nhs-481	PTLVKRQATTIAKELAEL
SEQ ID NO. 8331	nhs-1846	VEKNLKIFKGIVSEVMAS
SEQ ID NO. 8332	nhs-423	ENAANTVAHARKAIHKIL
SEQ ID NO. 8333	nhs-407	EDLKKVGNRVLTALGGIL
SEQ ID NO. 8334	nhs-405	EDLKKHGVTFLTALGAIL
SEQ ID NO. 8335	nhs-404	EDLKKHGVTALTALGAIL
SEQ ID NO. 8336	nhs-102	VQDIKNNLKEAIETIVAA
SEQ ID NO. 8337	nhs-1803	GESRVISVAEVKGLVEQW
SEQ ID NO. 8338	nhs-395	AAQVKDALTKMRAAALDA
SEQ ID NO. 8339	nhs-1905	EDLKKHGATVLTALGGIL
SEQ ID NO. 8340	nhs-1917	QVKGHGKKVADALTNAVA
SEQ ID NO. 8341	nhs-1779	VVDRFLADLQDAVAQVRA
SEQ ID NO. 8342	nhs-455	EDLKKDGVTSLTALGAIL
SEQ ID NO. 8343	nhs-460	ADEQRSVRALVTATTAVD
SEQ ID NO. 8344	nhs-373	EEVKKHGTTVLTALGRIL
SEQ ID NO. 8345	nhs-480	VDEGVDLVIRAISAAKQR
SEQ ID NO. 8346	nhs-1725	AESIAKAQKSREIFEGIA
SEQ ID NO. 8347	nhs-90	EDLKKHGVTVLTALGAIL
SEQ ID NO. 8348	nhs-1493	RDALIENYKTSIRNVGAA
SEQ ID NO. 8349	nhs-1491	TEELAVDALYNAIKVRLA
SEQ ID NO. 8350	nhs-2010	PGTGEIVAEAVDAAIRKT
SEQ ID NO. 8351	nhs-1407	PETAADKLLAAINERRAG
SEQ ID NO. 8352	nhs-655	LGASGARILTTLVHEMRR

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8353	nhs-647	EDLKKHGVTVLTGLGAIL
SEQ ID NO. 8354	nhs-2686	YEGELNKVTSNVAIGRSH
SEQ ID NO. 8355	nhs-301	GATLTGTVQDIIRELARH
SEQ ID NO. 8356	nhs-660	RAKASFDTRVAAAELALN
SEQ ID NO. 8357	nhs-669	GPEVMDAAIRVLKTVLDN
SEQ ID NO. 8358	nhs-2146	RSEADDLATRVANAVRDA
SEQ ID NO. 8359	nhs-2481	GATQNLPKLAEFIRIAKE
SEQ ID NO. 8360	nhs-1404	VDGAVRMGQRTAADIIAR
SEQ ID NO. 8361	nhs-2161	HAQITETAGAVKRAMRDA
SEQ ID NO. 8362	nhs-1405	AKELVDRSVSLSKAVKAI
SEQ ID NO. 8363	nhs-417	EDLKKHGNTVLTALGGIL
SEQ ID NO. 8364	nhs-1324	PEALLKRADEGVYQAKAS
SEQ ID NO. 8365	nhs-2122	EVYQILEKGAAKRTTAAT
SEQ ID NO. 8366	nhs-50	LDEVNKKAFQGTLLAHVD
SEQ ID NO. 8367	nhs-1320	GDKKAALVSYIGETRQQL
SEQ ID NO. 8368	nhs-47	EDLKKHGTVVLTALGGIL
SEQ ID NO. 8369	nhs-2673	KESLVMAGDLVIKTAKKH
SEQ ID NO. 8370	nhs-1483	NTYVKGANAALEKIEKHL
SEQ ID NO. 8371	nhs-2175	ESEKVNEIVKAVKTALTG
SEQ ID NO. 8372	nhs-2187	GAQALHTVLDLEPALGKR
SEQ ID NO. 8373	nhs-1305	DEDKAVDLIVFKKAVLST
SEQ ID NO. 8374	nhs-2675	VGATGGRMLATLARELHR
SEQ ID NO. 8375	nhs-620	SEVDIQASIAYAKALEKA
SEQ ID NO. 8376	nhs-1476	TDTAILLKDALAAAHARY
SEQ ID NO. 8377	nhs-1471	RDLLETAGKLMAKESIAK
SEQ ID NO. 8378	nhs-401	EDLKKQGVTVLTALGAILK
SEQ ID NO. 8379	nhs-377	AAQVKDALTKMRAAALDAQ
SEQ ID NO. 8380	nhs-876	TKAGVLADALDKATEKLLN
SEQ ID NO. 8381	nhs-384	EDLKKDGVTALTALGAILK
SEQ ID NO. 8382	nhs-1907	EDLKEHGTVVLTALGGILK

SEQ ID NO	ID	AMINO ACID SEQUENCE
SEQ ID NO. 8383	nhs-408	EDLKKVGNTTLTALGGILK
SEQ ID NO. 8384	nhs-446	DAELNSLAKGAVKELASLY
SEQ ID NO. 8385	nhs-1900	NSAIGYEEAAKVAKQALAE
SEQ ID NO. 8386	nhs-1897	TGPAIDHAADLLLSHARNV
SEQ ID NO. 8387	nhs-898	AEELDKVARLAAKALASVS
SEQ ID NO. 8388	nhs-38	GELAKHAVSEGTKAVTKYT
SEQ ID NO. 8389	nhs-2360	DADLAAAVESAKAAQPKWA
SEQ ID NO. 8390	nhs-2661	EKAKVLAKALDTATGKLLE
SEQ ID NO. 8391	nhs-295	DAEQAQELARIAKAATFAA
SEQ ID NO. 8392	nhs-1737	IDSTIKSGLTAARDVNRAS
SEQ ID NO. 8393	nhs-306	EDLKKHGVTVLTGLGAILK
SEQ ID NO. 8394	nhs-2088	GGGTDLGKFVLAKKEENAK
SEQ ID NO. 8395	nhs-68	PSVGSLAEKVDAERIAIAK
SEQ ID NO. 8396	nhs-1181	EDLKKLGVTVLTALGAILK
SEQ ID NO. 8397	nhs-775	AQVKGHGKKVADALTNAVA
SEQ ID NO. 8398	nhs-627	KLLSAAKILADATAKMVEA

CLAIMS

We claim:

1. A method comprising steps of:

a) subjecting a population of barcoded proteins to an assessment;

b) separating those members of the population that satisfy the assessment from those that do not, so that either a positive population or a negative population, or both is identified;

c) contacting the positive population, or the negative population, or each population separately from the other, with a set of binders which includes at least one particular binder specific for each barcode in the population; and

d) determining which binders bind to the separated members, thereby determining which barcoded proteins are present in the contacted population(s).

2. A method comprising steps of:

a) contacting a set of binders either with a first population, with a second population, or separately with each of the first and second populations, of barcoded proteins, wherein:

i) each binder binds specifically (*e.g.,* with known affinities) to one or more barcodes;

ii) the set of binders, collectively, includes at least one binder specific for each of the barcodes in the first and second populations,

wherein the first and second populations have been separated from one another based on performance in an assessment; and

b) determining which binders of the set bind to a member of the first population, the second population, or both, thereby determining which barcoded proteins are present in the contacted population(s).

3. The method of claim 2, further comprising c) determining differences between the first and second population, to determine a functional effect of the performance assessment.

4. The method of any one of the preceding claims, wherein the barcode is comprised in the Complementarity-Determining Regions (CDR) of the protein.

5. The method of any one of the preceding claims, wherein the barcode is or comprises an amino acid, and wherein the barcode is attached to the protein.

6. The method of any one of the preceding claims, wherein a binder is or comprises a binding moiety displayed on a phage.

7. The method of any one of the preceding claims, wherein the barcode is synthetic.

8. The method of any one of the preceding claims, wherein the barcode is 1-100, 5-50, 8-25, 9-25, or 9-15 amino acids in length.

9. The method of any one of the preceding claims, wherein the barcode is 10 amino acids in length.

10. The method of any one of the preceding claims, wherein the barcode has relatively no effect on protein function.

11. The method of any one of the preceding claims, wherein the barcode does not illicit an immune response.

12. The method of any one of the preceding claims, wherein the barcodes are orthogonal to each other.

13. The method of any one of the preceding claims, wherein the barcode is attached to a suitable position on the protein.

14. The method of claim 13, wherein the suitable position is the N-terminus or the C-terminus.

15. The method of any one of the preceding claims, comprising separating the binders that bind to at least one protein.

16. The method of any one of the preceding claims, wherein the step of determining comprises performing one or more of amplification, propagation, and sequencing (*e.g.*, nucleic acid (*e.g.*, DNA, RNA) amplification, propagation, and/or sequencing).

17. The method of claim 16, wherein the amplification is performed using PCR, LAMP, or rolling circle amplification (RCA).

18. The method of claim 16, wherein the sequencing is performed using Illumina, Next Generation Sequencing (NGS), nanopore sequencing, Pac Bio long read sequencing, or similar.

19. The method of any one of the preceding claims, wherein the step of determining comprises quantifying the number of binders that bind to a barcoded protein, wherein the

quantifying is performed by decoding the nucleotide sequence of each binder that binds to the barcoded protein.

20. The method of claim 19, wherein the sequencing is performed using Illumina, Next Generation Sequencing (NGS), nanopore sequencing, Pac Bio long read sequencing, or similar.

21. The method of claim 19, wherein quantifying the number of binders that bind to a protein provides measure of the protein in the population.

22. The method of any one of the preceding claims, wherein the barcoded proteins are in a complex mixture.

23. The method of claim 22, wherein the complex mixture is serum, blood, or tissue.

24. The method of any one of the preceding claims, wherein the barcoded proteins are in a purified sample.

25. The method of claim 6, wherein the phage is selected from the group consisting of M13, T4, T7, Lambda, and filamentous phage.

26. The method of claim 19, wherein the phage is M13.

27. A nucleic acid whose nucleotide sequence is or comprises a sequence encoding a peptide barcode characterized in that:

a) the peptide barcode has a length within a range of 1 to 100, 5 to 50, 8 to 25, 9 to 25, or 9 to 15 amino acids; and

b) has been determined to bind specifically to a particular group of polypeptide binders within a set of binders.

28. The nucleic acid of claim 27, wherein the peptide barcode has an amino acid sequence selected from the group consisting of SEQ ID NOs: 5347-8398.

29. The nucleic acid of claim 27, wherein the encoding sequence is selected from the group consisting of SEQ ID NOs: 1148-4199.

30. The nucleic acid of claim 27, wherein the peptide barcode has a length of 8 to 25 amino acids.

31. The nucleic acid of claim 27, wherein the peptide barcode has a length of 10 amino acids.

32. A library comprising a plurality of nucleic acids of any one of claims 27 to 31, which plurality together encodes a collection of peptide barcodes, wherein each nucleic acid comprises, in order from 5' to 3' or 3' to 5', one or more of:

a) a first invariant sequence (*e.g.*, a linker sequence or a payload sequence);

b) a variant sequence that is at least 9 nucleotides long; and

c) a second invariant sequence (*e.g.*, a linker sequence, a stop codon, or a payload sequence).

33. The library of claim 32, wherein the variant sequence is at least 15, 24, 27, 45, 150, or 300, nucleotides long.

34. The library of claim 32, further comprising one or more of:

d) sequence contains short helical motif;

e) sequence contains a disordered motif;

f) an invariant sequence which links sequence to protein of interest.

35. The library of any one of claims 32 to 34, wherein each peptide barcode of the collection binds specifically to a particular group of polypeptide binders within a set of binders.

36. The library of any one of claims 32 to 34, wherein each peptide barcode of the collection binds specifically to one or more polypeptide binders within a set of binders.

37. A nucleic acid whose nucleotide sequence is or comprises a sequence encoding a polypeptide binder moiety characterized in that:

a) the polypeptide binder moiety has a length within a range of 10 to 400 amino acids; and

b) has been determined to bind specifically to a particular group of peptide barcodes within a collection of barcodes.

38. The nucleic acid of claim 37, wherein the polypeptide binder moiety has an amino acid sequence selected from the group consisting of SEQ ID NOs: 4200- 5346.

39. The nucleic acid of claim 37, wherein the encoding sequence is selected from the group consisting of SEQ ID NOs: 1-1147.

40. A library comprising a plurality of nucleic acids of any one of claims 37 to 39 which plurality together encodes a set of polypeptide binder moieties, wherein each nucleic acid comprises, in order from 5' to 3' or 3' to 5':

a) a first invariant sequence (*e.g.*, an antibody germline sequence (*e.g.*, IGHV/IGKV));

b) a first variant sequence that is at least 10 nucleotides long (*e.g.*, a CDR (*e.g.*, CDR3) sequence); and

c) a second invariant sequence (*e.g.*, an antibody germline sequence (*e.g.*, IDHJ/IGKJ)).

41. The library of claim 40, wherein each nucleic acid further comprises one or more of:

d) a stop codon (*e.g.*, after the second invariant sequence);

e) a linker sequence;

f) a third invariant sequence (*e.g.*, an antibody germline sequence (*e.g.*, IGHV/IGKV));

g) a second variant sequence that is at least 10 nucleotides long (*e.g.*, a CDR (*e.g.*, CDR3) sequence); and

h) a fourth invariant sequence (*e.g.*, an antibody germline sequence (*e.g.*, IDHJ/IGKJ)).

42. A library of phage particles, each phage particle comprising one or more nucleic acids of claim 37.

43. The library of claim 42, wherein the phage is selected from the group consisting of M13, T4, T7, Lambda, and filamentous phage.

44. The library of claim 42, wherein the phage is M13.

45. A set of barcode and binders, wherein:

a) each barcode is a peptide between 1 to 100, 5 to 50, 8 to 25, 9 to 25, or 9 to 15 amino acids in length that binds specifically to a particular group of binders among the binders in the set; and

b) each binder is a polypeptide that binds specifically to at least one barcode among the barcodes in the set.

46. The set of claim 45, wherein the specific binding is observed when the binders are expressed on phage that are contacted with the barcodes.

47. The set of claim 45, wherein each binder is expressed on a phage.

48. The set of any one of claims 45 to 47, wherein at least one barcode is linked with a polypeptide of interest.

49. The set of any one of claims 45 to 48, wherein the barcode is or comprises one or more amino acids.

50. The set of any one of claims 45 to 49, wherein the barcodes are orthogonal to each other.

51. The set of any one of claims 45 to 50, wherein the barcode is synthetic.

52. The set of any one of claims 45 to 51, wherein the barcode is 1-100, 5-50, 8-25, 9-25, or 9-15 amino acids in length.

53. The set of any one of claims 45 to 52, wherein the barcode is 10 amino acids in length.

54. The set of any one of claims 45 to 53, wherein the barcode has relatively no effect on protein function.

55. The set of any one of claims 45 to 54, wherein the barcode does not illicit an immune response.

56. The set of claim 47, wherein the phage is selected from the group consisting of M13, T4, T7, Lambda, and filamentous phage.

57. The set of claim 56, wherein the phage is M13.

58. A kit comprising:

a) a set of binders, each of which is a polypeptide that binds specifically to at least a particular peptide barcode in a collection barcodes, wherein each binder is provided as a polypeptide, a nucleic acid encoding the polypeptide, or both.

59. The kit of claim 58, wherein one or more of the binders is provided as a phage particle, or collection thereof, engineered to express the binder.

60. The kit of claim 58, wherein one or more of the binders is provided as a nucleic acid in a phagemid vector, or as an insert suitable for cloning into a phage vector.

61. The kit of any one of claims 58 to 60, further comprising information designating peptide barcodes for each binder, wherein each binder has been determined to bind specifically to at least a particular peptide barcode within the collection of barcodes that each bind specifically to at least one of the binders in the set.

62. The kit of any one of claims 58 to 61, further comprising a set of instructions to perform sequencing of one or more phage particles bound to one or more barcodes.

63. The kit of claim 62, further comprising a computer readable program for decoding sequencing data.

64. The kit of any one of claims 58 to 63, further comprising reagents to express a binder on a phage particle.

65. The kit of any one of claims 58 to 64, comprising nucleic acids that encode one or more barcodes.

66. The kit of any one of claims 58 to 65, comprising nucleic acids that encode one or more binders.

67. The method of claim 1 further comprising:

a) injecting the population of barcoded proteins into an animal; and

b) obtaining a sample from the animal to subject to the assessment.

68. The method of claim 67, wherein the step of separating comprises purifying one or more barcoded proteins from the sample.

69. The method of claim 67 or 68, wherein the barcoded proteins are purified from a complex sample.

70. The method of claim 69, wherein the complex sample is tissue.

71. The method of claim 70, wherein the complex sample is blood.

72. The method of any one of claims 68 to 71, wherein the barcoded proteins are purified using affinity purification methods (*e.g.*, FLAG IP, protein G/A) or protein precipitation methods.

73. The method of claim 67, wherein each binder of the set of binders is expressed on a phage.

74. The method of any one of claims 73, wherein the step of determining comprises:

a) amplifying nucleic acids of the bound phage particles;

b) determining nucleotide sequences of the amplified nucleic acids, wherein one or more of the determined nucleotide sequences corresponds to the coding sequence of the binder;

c) detecting one or more proteins from the population of barcoded proteins using the determined sequence(s) of the coding sequence of the binder; and

f) identifying the one or more barcoded proteins as a therapeutic or a target to treat a disease, disorder, or condition.

75. The method of claim 1, further comprising:

a) injecting a population of barcoded proteins into an animal, wherein each barcode is bound to a specific binder expressed on a phage; and

b) obtaining a sample from the animal to subject to the assessment.

76. The method of claim 75, comprising:

c) determining the relative amounts of each binder present in the sample, thereby identifying a subset of the injected population of barcoded proteins present in the sample;

d) comparing the relative amounts to a standard of known concentration to determine the absolute quantity of each binder present in the sample;

e) optionally, repeating steps a)-c) using the identified subset of proteins; and

f) identifying one or more proteins as a therapeutic or a target to treat a disease, disorder, or condition.

77. A method of pharmacokinetic screening, the method comprising:

a) injecting a set of barcoded therapeutic candidate proteins into an animal, wherein each therapeutic candidate protein comprises a specific peptide barcode;

b) obtaining a sample from the animal;

c) purifying one or more barcoded therapeutic candidate proteins from the sample;

d) contacting the sample with a set of binders (*e.g.*, binding agents with binders expressed on them) which includes at least one particular binder specific for each barcode in the sample; and

e) determining (e.g., simultaneously) the relative amounts of each binder present in the sample to determine each barcoded therapeutic candidate proteins' pharmacokinetic properties, biodistribution, half-life, tissue-mediated drug disposition (TMDD), or *in vivo* stability.

78. The method of claim 77, wherein multiple samples are obtained from the animal.

79. The method of claim 77, wherein the animal is a model for a disease, disorder, or condition.

80. The method of claim 79, wherein the disease, disorder, or condition is cancer, autoimmune, neurodegenerative, or a pathogenic (*e.g.*, viral/bacterial) disease, disorder, or condition.

81. The method of any one of claims 77 to 80, wherein the purified proteins are a subset of barcoded therapeutic candidate proteins injected into the animal.

82. The method of any one of claims 77 to 81, wherein the sample is blood, tissue, a tumor.

83. The method of any one of claims 77 to 82, wherein the sample is a control.

84. The method of any one of claims 77 to 83, wherein the step of determining comprises (i) sequencing nucleic acid from the binding agents expressing the binder; (ii) decoding the relative

amounts of each barcode present thereby determining the relative amounts of each therapeutic candidate protein; and/or (iii) performing one or more of FACS, or MACS (magnetic activated cell sorting), affinity based purification.

85. The method of any one of claims 75 to 84, wherein the barcode is or comprises amino acids.

86. The method of any one of claims 75 to 85, wherein the barcode is synthetic.

87. The method of any one of claims 75 to 86, wherein the barcode is 1-100, 5-50, 8-25, 9-25, 9-15, or 10 amino acids in length.

88. The method of any one of claims 75 to 87, wherein the barcode has relatively no effect on protein function.

89. The method of any one of claims 75 to 88, wherein the barcode does not illicit an immune response.

90. The method of any one of claims 75 to 89, wherein the barcodes are orthogonal to each other.

91. The method of any one of claims 75 to 90, wherein the binder is expressed on the surface of a phage particle.

92. The method of any one of claims 77 to 91, comprising removing any unassociated (*e.g.*, unbound) binders.

93. The method of claim 92, wherein the removing is performed by washing.

94. The method of any one of claims 75 to 93, wherein the step of determining comprises performing one or more of amplification, propagation, and sequencing (*e.g.*, nucleic acid (*e.g.*, DNA, RNA) amplification, propagation, and/or sequencing).

95. The method of claim 94, wherein the amplification is performed using PCR, LAMP, or RCA.

96. The method of claim 94, wherein the sequencing is performed using Illumina, NGS, nanopore sequencing, or Pac Bio long read sequencing.

97. The method of any one of claims 75 to 96, wherein the step of determining comprises quantifying the number of binders that bind to a barcoded protein, wherein the quantifying is performed by decoding the nucleotide sequence of each binder that binds to the barcoded protein.

98. The method of claim 97, wherein the number of nucleotide sequences provides measure of target protein in the population of barcoded proteins.

99. The method of any one of claims 91 to 98, wherein the phage is selected from the group consisting of M13, T4, T7, Lambda, and filamentous phage.

100. The method of claim 99, wherein the phage is M13.

101. The method of any one of claims 75 to 100, wherein the step of injecting comprises administering the barcoded proteins orally or intravenously.

102. The method of any one of claims 75 to 101, wherein the barcoded proteins are injected (*e.g.*, delivered) by viral delivery or mRNA delivery.

103. The method of any one of claims 75 to 102, wherein the animal is a mammal.

104. The method of any one of claims 75 to 103, wherein the animal is a human.

105. The method of any one of 75 to 104, wherein the animal is genetically modified to express the barcoded proteins.

106. A method of characterizing a collection of peptide barcodes, the method comprising:

a) providing:

(i) a library of phage particles, wherein each phage particle is designed to express a polypeptide binder, and wherein each binder binds to one or more peptide barcodes;

(ii) a collection of peptide barcodes;

b) contacting each phage particle with each barcode to form bound phage-barcode particles;

c) determining the amount of binding between each phage particle and barcode; and

d) identifying phage-barcode pairs that bind specifically to each other among the barcodes in the collection and the phages in the library.

107. A method of characterizing a collection of peptide barcodes, the method comprising:

a) providing:

(i) a set of binders, wherein each binder is a polypeptide that binds to one or more peptide barcodes;

(ii) a collection of peptide barcodes;

b) contacting each binder with each barcode to form bound binder-barcode particles;

c) determining the relative amount of binding between each polypeptide binder and peptide barcode; and

d) identifying binder-barcode pairs that bind specifically to each other among the barcodes in the collection and the binders in the set.

108. A database of amino acid or encoding nucleic acid sequences for a collection of peptide barcodes, which database is embodied in a computer readable format, wherein each barcode sequence:

a) has a length within a range of 1 to 100, 5 to 50, 8 to 25, 9 to 25, or 9 to 15 amino acids;

b) has been determined to bind specifically to one or more polypeptide binders within a set of binders that each bind specifically to one or more of the barcodes in the collection.

109. The database of claim 108, wherein the binding pattern of the one or more polypeptide binders to a barcode is used to identify the peptide barcode.

110. A database of amino acid or encoding nucleic acid sequences for a set of polypeptide binders, which database is embodied in a computer readable format, wherein each binder sequence:

a) has a length within a range of 10 to 400 amino acids;

b) has been determined to bind specifically to one or more peptide barcodes within a collection of barcodes that each bind specifically to one or more of the binders in the set.

111. A database of amino acid or encoding nucleic acid sequences for a set of barcode-binder associations, embodied in a computer readable format, wherein:

a) each barcode is a peptide between 1 to 100, 5 to 50, 8 to 25, 9 to 25, or 9 to 15 amino acids in length; and

b) each binder is a polypeptide that binds specifically to one or more barcodes among the barcodes in the set.

112. A set of barcode-binder association designations, embodied in a computer readable format, wherein:

a) each barcode is a peptide between 1 to 100, 5 to 50, 8 to 25, 9 to 25, or 9 to 15 amino acids in length; and

b) each binder is a polypeptide that binds specifically to one or more barcodes among the barcodes in the set.

113. The set of claim 112, wherein the specific binding is observed when the binders are expressed on a phage particle that are then contacted with the barcodes.

114. A method of treatment comprising:

administering a therapeutic protein that has been determined to satisfy an assessment by a process comprising steps of:

a) subjecting a population of barcoded proteins to the assessment;

b) separating those members of the population that satisfy the assessment from those that do not, so that either a positive population or a negative population, or both is identified;

c) contacting the positive population, or the negative population, or each population separately from the other, with a set of binders which includes at least one particular binder specific for each barcode in the population;

d) determining which binders bind to the separated members, thereby determining which barcoded proteins are present in the contacted population(s); and

e) identifying the therapeutic protein from the barcoded proteins determined to be present in the contacted population(s).

115. A method of treatment comprising:

administering a therapeutic protein that has been determined to satisfy an assessment by a process comprising steps of:

a) contacting a set of binders either with a first population, with a second population, or separately with each of the first and second populations, of barcoded proteins, wherein:

i) each binder binds specifically to one barcode relative to the other barcodes; and

ii) the set of binders, collectively, includes a binder specific for each of the barcodes in the first and second populations,

wherein the first and second populations have been separated from one another based on performance in the assessment;

b) determining which binders of the set bind to a member of the first population, the second population, or both, thereby determining which barcoded proteins are present in the contacted population(s); and

c) identifying the therapeutic protein from the barcoded proteins determined to be present in the contacted population(s).