

SEQUENCE LISTING

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<150> 62/582,312
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<223> oligonucleotide barcode BC_65 REV

<400> 130

ttagcctgtc accga

15

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<211> 16

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<220>

<223> synthetic peptide

<220>

<221> MOD_RES

<222> 1

<223> formyl-Methionine

<400> 131

Met Asp Val Glu Ala Trp Leu Gly Ala Arg Val Pro Leu Val Glu Thr

1

5

10

15

<210> 132

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> synthetic peptide

<400> 132

Thr Glu Asn Leu Tyr Phe Gln Asn His Val

1

5

10

<210> 133

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

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<400> 133 aatgatacgg cgaccaccga	20
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<400> 134 caagcagaag acggcatacg agat	24
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<400> 135 nnnnnn	5
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<400> 136 Asp Tyr Lys Asp Asp Asp Lys 1 5	
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<220> <223> synthetic peptide	
<400> 137 Gly Lys Pro Ile Pro Asn Pro Leu Leu Gly Leu Asp Ser Thr 1 5 10	

<210> 138
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 138
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10

<210> 139
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 139
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

<210> 140
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 140
Asn Trp Ser His Pro Gln Phe Glu Lys
1 5

<210> 141
<211> 82
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> 1
<223> biotin

<400> 141
tttttgcaaa tggcattctg acatcccgta gtccgcgaca ctagatgtct agcatgccgc 60
cgtgtcatgt ggaaactgag tg 82

<210> 142
 <211> 72
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide

 <220>
 <221> modified_base
 <222> 1
 <223> biotin

 <400> 142
 tttttttttt gactggttcc aattgacaag ccgtagtccg cgacactagt aagccggtat 60
 atcaactgag tg 72

 <210> 143
 <211> 10
 <212> DNA
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 <220>
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 <220>
 <221> modified_base
 <222> 1
 <223> biotin

 <220>
 <221> modified_base
 <222> 10
 <223> three carbon (3C) spacer

 <400> 143
 tttttttttt 10

 <210> 144
 <211> 62
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide

 <220>
 <221> modified_base
 <222> (31)...(32)
 <223> 18-atom hexa-ethyleneglycol spacer

 <220>
 <221> modified_base
 <222> 62

<223> three carbon (3C) spacer

<400> 144
ggatgtcaga atgccatttg cttttttttt tcactcagtc ctaacgcgta tacgcactca 60
gt 62

<210> 145
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (31)...(32)
<223> 18-atom hexa-ethyleneglycol spacer

<220>
<221> modified_base
<222> 63
<223> three carbon (3C) spacer

<400> 145
ggatgtcaga atgccatttg cttttttttt tcactcagtc ctaacgcgta tacgtcactc 60
agt 63

<210> 146
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (31)...(32)
<223> five 18-atom hexa-ethyleneglycol spacers

<220>
<221> modified_base
<222> 63
<223> three carbon (3C) spacer

<400> 146
ggatgtcaga atgccatttg cttttttttt tcactcagtc ctaacgcgta tacgtcactc 60
agt 63

<210> 147
<211> 71
<212> DNA
<213> Artificial Sequence

<220>
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<220>
 <221> modified_base
 <222> (25)...(26)
 <223> 18-atom hexa-ethyleneglycol spacer

<220>
 <221> modified_base
 <222> 63
 <223> three carbon (3C) spacer)

<400> 147
 gcttgtcaat tggaaccagt cttttcactc agtcctaacg cgtatacggg aatctcggca 60
 gttcactcag t 71

<210> 148
 <211> 44
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide

<220>
 <221> modified_base
 <222> 44
 <223> three carbon (3C) spacer

<400> 148
 cgatttgcaa ggatcactcg tcactcagtc ctaacgcgta tacg 44

<210> 149
 <211> 8
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> spacer sequence

<400> 149
 actgagtg 8

<210> 150
 <211> 8
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> spacer sequence

<400> 150 cactcagt	8
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<400> 151 cgtagtccgc gacactag	18
<210> 152 <211> 20 <212> DNA <213> Artificial Sequence	
<220> <223> oligonucleotide primer	
<400> 152 cgatttgcaa ggatcactcg	20
<210> 153 <211> 21 <212> DNA <213> Artificial Sequence	
<220> <223> synthetic oligonucleotide	
<400> 153 gcaaattggca ttctgacatc c	21
<210> 154 <211> 21 <212> DNA <213> Artificial Sequence	
<220> <223> synthetic oligonucleotide	
<400> 154 gactggttcc aattgacaag c	21
<210> 155 <211> 23	

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide

 <220>
 <221> modified_base
 <222> 23
 <223> three carbon (3C) spacer

 <400> 155
 cgtatacgcg ttaggactga gtg 23

 <210> 156
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide

 <220>
 <221> modified_base
 <222> 38
 <223> three carbon (3C) spacer

 <400> 156
 aactgccgag attcccgtat acgcgttagg actgagtg 38

 <210> 157
 <211> 46
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> oligonucleotide primer

 <400> 157
 agtccgcgca atcagatgtc tagcatgccg gatccggatc gatctc 46

 <210> 158
 <211> 46
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> oligonucleotide primer

 <400> 158
 agtccgcgca atcagccgtg tcatgtggaa gatccggatc gatctc 46

<210> 159
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
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<400> 159
agtccgcgca atcagtaagc cggtatatca gatccggatc gatctc 46

<210> 160
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> oligonucleotide primer

<400> 160
agtccgcgca atcagttcga tatgacggaa gatccggatc gatctc 46

<210> 161
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> oligonucleotide primer

<400> 161
tgcaaggatc actcgccaga tcacaagcgg gagatcgatc cggatc 46

<210> 162
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> oligonucleotide primer

<400> 162
tgcaaggatc actcgtccgg tacgctatct gagatcgatc cggatc 46

<210> 163
<211> 46
<212> DNA
<213> Artificial Sequence

<220>

<223> oligonucleotide primer

<400> 163

tgcaaggatc actcggatga tgagcctgga gagatcgatc cggatc

46

<210> 164

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide primer

<400> 164

tgcaaggatc actcgttggc tctagtactc gagatcgatc cggatc

46

<210> 165

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide primer

<400> 165

aatcgtagtc cgcgcaatca g

21

<210> 166

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide primer

<400> 166

acgatttgca aggatcactc g

21

<210> 167

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> spacer sequence

<400> 167

gatccggatc gatctc

16

<210> 168
<211> 734
<212> DNA
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<220>
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<400> 168
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agtatctggg gcagactacg attgttacag atcactcaga tgatgagcac agaaaatcgt 120
cgaatcttcc atcaccatcg aacagttacg attaatgtag tccgcacaat cgaatgtcta 180
acatgccgaa tcccggacgt ctccagcttc taaaccaaca gtagtcgcac aaatcattgt 240
acgggtacaag atctaacgag agatgatcgg atctgaccac tttaaact gattacgcag 300
actacgatta cgatttaaga atcctcgtcc ggtacaatca tagtccgcac aatcaaccgt 360
gtcatgtgaa gatcagatcg atctcgaata gcgtaccaga cagtgatctt gcaaatcgta 420
atgtgtccgc gccaatcgat agccatgaat cccagtcgat ctcccgcttg tgatctggcg 480
atcgccttgt accgtcgtac gatttgagat cacctcgta actcaagcta aagatcgctc 540
ggatcgcttt ataaacatct gattgcgcgg tacgattatc gtagtccgca catatcgaac 600
ctgttgaaga tccggatcgt ctctccaggc tcatcatccg agtgatcctt gcaaataatc 660
atgtccgcac catcaggtgt ctaacgcttg ccggatccga atcgatctct ccaggctcat 720
catcgaagtg atgt 734

<210> 169
<211> 10
<212> PRT
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<220>
<223> synthetic peptide

<400> 169
Cys Pro Val Gln Leu Trp Val Asp Ser Thr
1 5 10

<210> 170
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<220>
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<222> (1)...(10)
<223> Xaa = Any Amino Acid

<400> 170
Cys Pro Xaa Gln Xaa Trp Xaa Asp Xaa Thr
1 5 10

<210> 171
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<223> FLAG epitope peptide

<400> 171
Asp Tyr Lys Asp Asp Asp Asp Lys
1 5

<210> 172
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> V5 epitope peptide

<400> 172
Gly Lys Pro Ile Pro Asn Pro Leu Leu Gly Leu Asp Ser Thr
1 5 10

<210> 173
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> c-Myc epitope peptide

<400> 173
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10

<210> 174
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> HA epitope peptide

<400> 174
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

<210> 175
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> V5 epitope peptide

<400> 175
Gly Lys Pro Ile Pro Asn Pro Leu Leu Gly Leu Asp Ser Thr
1 5 10

<210> 176
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> StrepTag II peptide

<400> 176
Asn Trp Ser His Pro Gln Phe Glu Lys
1 5

<210> 177
<211> 36
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<213> Artificial Sequence

<220>
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<220>
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<222> (11)...(22)
<223> compartment bar code n = A, C, T, or G

<220>
<221> misc_feature
<222> (23)...(27)
<223> unique molecular identifier n = A, T, C or G

<400> 177
gcgcaatcag nnnnnnnnnn nnnnnntgc aaggat 36

<210> 178
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
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<220>
<221> misc_feature
<222> (1)...(12)
<223> Compartment barcod n = A, T, C or G

<400> 178
nnnnnnnnnn nn 12

<210> 179

<211> 5
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic nucleotide

<220>
<221> misc_feature
<222> (1)...(5)
<223> Unique molecular identifier; n = A, T, C or G

<400> 179
nnnnn

5

<210> 180
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> butelase I peptide substrate

<400> 180
Cys Gly Gly Ser Ser Gly Ser Asn His Val
1 5 10

<210> 181
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> misc_feature
<222> 1
<223> 5'-phosphorylated

<220>
<221> misc_feature
<222> 47
<223> 3'-biotinylated

<400> 181
tgacatctag tgtcgcggac tacgtgcttg tcaattggaa ccagtct

47

<210> 182
<211> 49
<212> DNA
<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> misc_feature

<222> 1

<223> 5'-phosphorylated

<220>

<221> misc_feature

<222> 49

<223> 3'-biotinylated

<400> 182

tgacatgtga aattgttatc cgctcatgga tgtcagaatg ccatttgct

49

<210> 183

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> variation

<222> (21)...(22)

<223> 3 18-atom hexa-ethyleneglycol spacers

<400> 183

gactgggttcc aattgacaag ccgatttgca aggatcactc gutttaggt

49

<210> 184

<211> 76

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> misc_feature

<222> 1

<223> 5' Biotin

<400> 184

tttttgcaaa tggcattctg acatcccgtg gtccgcgaca ctagatgtct agcatgccgc 60
cgtgtcatgt ggaaga 76

<210> 185

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

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<220>

<221> misc_feature

<222> 1

<223> 5'-phosphorylated

<220>

<221> misc_feature

<222> 54

<223> 3' C3 (three carbon) spacer

<400> 185

ctcttcttcc acatgacacg gcggcatgct agacatctag tgtcgcggac tacg 54

<210> 186

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> variation

<222> (31)...(32)

<223> 18-atom hexa-ethyleneglycol spacer

<400> 186

ggatgucaga augccatttg cttttttttt tcggtctcuc tcttccctaa cgcgtatacg 60
ga 62

<210> 187

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> misc_feature

<222> 1

<223> 5'-phosphorylated

<220>

<221> misc_feature

<222> 35

<223> 3' C3 (three carbon) spacer

<400> 187

agagtcgta tacgcgtag ggaugagaga gaccg 35

<210> 188

<211> 76
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> variation
<222> (31)...(32)
<223> 18-atom hexa-ethyleneglycol spacer

<400> 188
ggatgucaga augccatttg cttttttttt tcggtctcuc gatttgcaag gatcactcgc 60
cgttattgac gctcga 76

<210> 189
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> misc_feature
<222> 1
<223> 5'-phosphorylated

<220>
<221> misc_feature
<222> 49
<223> 3' C3 (three carbon) spacer

<400> 189
agagtcgagc gtcaataacg gcgagtgatc cttgcaaadc gagagaccg 49

<210> 190
<211> 81
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<222> 1
<223> 5' amine group

<220>
<221> variation
<222> (23)...(24)
<223> 5'-Octadiynyl dU

<400> 190
gcaaatggca ttctgacatc cttttcguag uccgcgacac tagatgtcta gcatgccgcc 60
gtgtcatgtg gaaactgagt g 81

<210> 191
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<222> 1
<223> 5' amine group 18-atom hexa-ethyleneglycol spacer

<220>
<221> misc_feature
<222> 32
<223> 3' C3 (three carbon) spacer

<400> 191
cactcagtcc taacgcgtat acgtcactca gt 32

<210> 192
<211> 75
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<222> (31)...(32)
<223> 18-atom hexa-ethyleneglycol spacer

<220>
<221> misc_feature
<222> 75
<223> 3' C3 (three carbon) spacer

<400> 192
ggatgtcaga atgccatttg cttttttttt tcgatttgca aggatcactc gccgttattg 60
acgctctcac tcagt 75

<210> 193
<211> 24
<212> DNA
<213> Artificial Sequence

<220>

<223> synthetic construct

<400> 193

cactcagttt ccacatgaca cggc

24

<210> 194

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic construct

<400> 194

cactcagtcc taacgcgtat a

21

<210> 195

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

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<400> 195

Gly Val Ala Met Pro Gly Ala Glu Asp Asp Val Val Gly Gly Gly Gly
1 5 10 15

Ser Cys

<210> 196

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

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<220>

<221> FORMYLATION

<222> 1

<400> 196

Met Asp Val Glu Ala Trp Leu Gly Ala Arg Val Pro Leu Val Glu Thr
1 5 10 15

Gly Ser Gly Ser Gly Ser Cys
20

<210> 197

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<400> 197

His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Gly Ser Gly
1 5 10 15
Ser Cys

<210> 198

<211> 103

<212> PRT

<213> A. tumefaciens

<400> 198

Met Ser Asp Ser Pro Val Asp Leu Lys Pro Lys Pro Lys Val Lys Pro
1 5 10 15
Lys Leu Glu Arg Pro Lys Leu Tyr Lys Val Met Leu Leu Asn Asp Asp
20 25 30
Tyr Thr Pro Arg Glu Phe Val Thr Val Val Leu Lys Ala Val Phe Arg
35 40 45
Met Ser Glu Asp Thr Gly Arg Arg Val Met Met Thr Ala His Arg Phe
50 55 60
Gly Ser Ala Val Val Val Val Cys Glu Arg Asp Ile Ala Glu Thr Lys
65 70 75 80
Ala Lys Glu Ala Thr Asp Leu Gly Lys Glu Ala Gly Phe Pro Leu Met
85 90 95
Phe Thr Thr Glu Pro Glu Glu
100

<210> 199

<211> 108

<212> PRT

<213> E. coli

<400> 199

Met Gly Lys Thr Asn Asp Trp Leu Asp Phe Asp Gln Leu Ala Glu Glu
1 5 10 15
Lys Val Arg Asp Ala Leu Lys Pro Pro Ser Met Tyr Lys Val Ile Leu
20 25 30
Val Asn Asp Asp Tyr Thr Pro Met Glu Phe Val Ile Asp Val Leu Gln
35 40 45
Lys Phe Phe Ser Tyr Asp Val Glu Arg Ala Thr Gln Leu Met Leu Ala
50 55 60
Val His Tyr Gln Gly Lys Ala Ile Cys Gly Val Phe Thr Ala Glu Val
65 70 75 80
Ala Glu Thr Lys Val Ala Met Val Asn Lys Tyr Ala Arg Glu Asn Glu
85 90 95
His Pro Leu Leu Cys Thr Leu Glu Lys Ala Gly Ala
100 105

<210> 200

<211> 85

<212> PRT

<213> C. crescentus

<400> 200

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Thr	Pro	Met	Glu	Phe	Val	Val	Tyr	Val	Leu	Glu	Arg	Phe	Phe	Asn	Lys
			20					25					30		
Ser	Arg	Glu	Asp	Ala	Thr	Arg	Ile	Met	Leu	His	Val	His	Gln	Asn	Gly
		35					40					45			
Val	Gly	Val	Cys	Gly	Val	Tyr	Thr	Tyr	Glu	Val	Ala	Glu	Thr	Lys	Val
	50					55					60				
Ala	Gln	Val	Ile	Asp	Ser	Ala	Arg	Arg	His	Gln	His	Pro	Leu	Gln	Cys
65					70					75					80
Thr	Met	Glu	Lys	Asp											
				85											

<210> 201
 <211> 19
 <212> PRT
 <213> Artificial Sequences

<220>
 <223> Artificial Construct

<400> 201

Phe	Ala	Gly	Val	Ala	Met	Pro	Gly	Ala	Glu	Asp	Asp	Val	Val	Gly	Ser
1				5					10					15	

Gly Ser Lys

<210> 202
 <211> 18
 <212> PRT
 <213> Artificial Sequences

<220>
 <223> Artificial Construct

<400> 202

Ala	Gly	Val	Ala	Met	Pro	Gly	Ala	Glu	Asp	Asp	Val	Val	Gly	Ser	Gly
1				5					10					15	

Ser Lys

<210> 203
 <211> 20
 <212> PRT
 <213> Artificial Sequences

<220>
<223> Artificial Construct

<400> 203

Ala Phe Ala Gly Val Ala Met Pro Gly Ala Glu Asp Asp Val Val Gly
1 5 10 15

Ser Gly Ser Lys
20

<210> 204
<211> 22
<212> DNA
<213> Oligonucleotide

<400> 204
gcttgtcaat tggaaccagt ct 22

<210> 205
<211> 23
<212> DNA
<213> Artificial Sequences

<220>
<223> Oligonucleotide

<400> 205
gacatctagt gtcgcggact acg 23

<210> 206
<211> 21
<212> DNA
<213> Artificial Sequences

<220>
<223> Oligonucleotide

<400> 206
gcttgtcaat tggaaccagt c 21

<210> 207
<211> 24
<212> DNA
<213> Artificial Sequences

<220>
<223> Oligonucleotide

<400> 207
cgatttgcaa ggatcactcg aggt 24

<210> 208
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<213> Artificial Sequences

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<400> 208
gcttgatcaat tggaaccagt ct 22

<210> 209
<211> 32
<212> DNA
<213> Artificial Sequences

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<223> Oligonucleotide

<400> 209
cactcagttt ccgtcatatc gaatcactca gt 32

<210> 210
<211> 32
<212> DNA
<213> Artificial Sequences

<220>
<223> Oligonucleotide

<400> 210
cactcagttc taacgcgtat acgtcactca gt 32

<210> 211
<211> 44
<212> DNA
<213> Artificial Sequences

<220>
<223> Oligonucleotide

<400> 211
cgatttgcaa ggatcactcg ccgttattga cgctctcact cagt 44

<210> 212
<211> 153

<212> DNA
<213> Artificial Sequences

<220>
<223> Oligonucleotide

<400> 212
cgtagtccgc gacactagaa taagccggtat tatcaactga gtgattcgat atgacggaaa 60
ctgagtgcg tatacgcggt aggactgagt gagagcgta ataacggcga gtgattccttg 120
caaatcgccc tatagtgagt cgtattaatt cgc 153

<210> 213
<211> 199
<212> DNA
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<220>
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