8325009940SL
SEQUENCE LISTING

<110> SANGAMO BIOSCIENCES, INC.

<120> METHODS AND COMPOSITIONS FOR TREATMENT OF A GENETIC CONDITION

<130> 8325-0099.40

<140> PCT/US2013/057214
<141> 2013-08-29

<150> 61/694,693
<151> 2012-08-29

<160> 258

<170> PatentIn version 3.5

<210> 1
<211> 102
<212> DNA
<213> Homo sapiens

<400> 1
cagacaccat ggtgcacctg actcctgtgg agaagtctgc cgttactgcc ctgtggggca 60

aggtgaacgt ggatgaagtt ggtggtgagg ccctgggcag gt 102

<210> 2
<211> 102
<212> DNA
<213> Homo sapiens

<400> 2
cagacaccat ggtgcacctg actcctgagg agaagtctgc cgttactgcc ctgtggggca 60

aggtgaacgt ggatgaagtt ggtggtgagg ccctgggcag gt 102

<210> 3
<211> 102
<212> DNA
<213> Homo sapiens

<400> 3
cagacaccat ggtgcatctg actcctgagg agaagactgc tgtcaatgcc ctgtggggca 60

aagtgaacgt ggatgcagtt ggtggtgagg ccctgggcag gt 102

<210> 4

<211> 101
<212> DNA
<213> Homo sapiens

<400> 4
ctgacactgt agtgcatttc actgctgaca agaaggctgc tgccaccagc ctgtgaagca 60

aggttaaggt gagaaggctg gaggtgagat tctgggcagg t 101

<210> 5
<211> 102
<212> DNA
<213> Homo sapiens

<400> 5
ctggcatcat ggtgcatttt actgctgagg agaaggctgc cgtcactagc ctgtggagca 60

agatgaatgt ggaagaggct ggaggtgaag ccttgggcag gt 102

<210> 6
<211> 102
<212> DNA
<213> Homo sapiens

<400> 6
cagacgccat gggtcatttc acagaggagg acaaggctac tatcacaagc ctgtggggca 60

aggtgaatgt ggaagatgct ggaggagaaa ccctgggaag gt 102

<210> 7
<211> 102
<212> DNA
<213> Homo sapiens

<400> 7
cagacgccat gggtcatttc acagaggagg acaaggctac tatcacaagc ctgtggggca 60

aggtgaatgt ggaagatgct ggaggagaaa ccctgggaag gt 102

<210> 8
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 8
gggcagtaac ggcagacttc tcctcagg 28

<210> 9
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 9
Asp Arg Ser Asn Leu Ser Arg
1 5

<210> 10
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 10
Gln Ser Ser Asp Leu Arg Arg
1 5

<210> 11
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 11
Arg Ser Asp Thr Leu Ser Ala
1 5

<210> 12
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 12
Gln Ser Gly Ala Leu Ala Arg
1 5

<210> 13
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 13
Gln Ser Gly Asp Leu Thr Arg
1 5

<210> 14
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 14
tggggcaagg tgaacgtgga tgaagttg 28

<210> 15
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 15
Gln Ser Ala His Arg Lys Asn
1 5

<210> 16
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 16
Leu Lys His His Leu Thr Asp
1 5

<210> 17
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 17
Gln Arg Ser Asn Leu Val Arg
1 5

<210> 18
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 18
Thr Ser Gly His Leu Ser Arg
1 5

<210> 19
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 19
Gln Ser Asn His Leu Thr Glu
1 5

<210> 20
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 20
Arg Ser His His Leu Lys Ala
1 5

<210> 21
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 21
agagtcaggt gcaccatggt gtctgttt 28

<210> 22
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 22
Thr Asn Gln Asn Arg Ile Thr
1 5

<210> 23
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 23

Asp Arg Ser Asn Arg Thr Thr
1 5

<210> 24
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 24
Arg Asn Ala Ser Arg Thr Arg
1 5

<210> 25
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 25
Arg Ser Asp Asn Leu Ser Glu
1 5

<210> 26
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 26
Arg Ser Gln His Arg Lys Thr
1 5

<210> 27
<211> 28
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 27
gtggagaagt ctgccgttac tgccctgt 28

<210> 28
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 28
Thr Ser Gly Ser Leu Ser Arg
1 5

<210> 29
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 29
Asp Arg Ser Asp Leu Ser Arg
1 5

<210> 30
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 30
Asp Arg Ser Ala Leu Ala Arg
1 5

<210> 31
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 31
Gln Ser Ser Asn Leu Ala Arg
1 5

<210> 32
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 32
Gln Ser Gly His Leu Ser Arg
1 5

<210> 33
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 33
acaggagtca ggtgcaccat ggtgtctg 28

<210> 34
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 34
Asp Gln Ser Asn Leu Arg Ala
1 5

<210> 35
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 35
Arg Ser Asp His Leu Thr Gln
1 5

<210> 36
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 36
gagaagtctg ccgttactgc cctgtggg 28

<210> 37
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 37
Ala Arg Ser Thr Arg Thr Asn
1 5

<210> 38
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 38
Asp Arg Ser Ala Arg Thr Arg

1 5

<210> 39
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 39
Gln Ser Gly Asn Leu Ala Arg
1 5

<210> 40
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 40
taacggcaga cttctccaca ggagtcag 28

<210> 41
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 41
Ser Ser Ser Asp Arg Lys Lys
1 5

<210> 42
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 42
Gln Ser Ala Asp Arg Thr Lys
1 5

<210> 43
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 43
gccctgtggg gcaaggtgaa cgtggatg 28

<210> 44
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 44
Leu Arg His His Leu Thr Arg
1 5

<210> 45
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 45
Gln Ser Gly Asn Leu His Val
1 5

<210> 46
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 46
Arg Ser Ala His Leu Ser Arg
1 5

<210> 47
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 47
Arg Ser Asp Val Leu Ser Thr
1 5

<210> 48
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 48
Arg Lys Gln Asp Leu Arg Thr
1 5

<210> 49
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 49
Met Ser His His Leu Arg Asp
1 5

<210> 50

<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 50
cacagggcag taacggcaga cttctcct 28

<210> 51
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 51
Asp Arg Ser His Leu Thr Arg
1 5

<210> 52
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 52
Arg Ser Asp Asn Leu Arg Glu
1 5

<210> 53
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 53
ggcaaggtga acgtggatga agttggtg 28

<210> 54
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 54
Gln Ser Gly His Leu Ala Arg
1 5

<210> 55
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 55
Val Ser His His Leu Arg Asp
1 5

<210> 56
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 56
atcccatgga gaggtggctg ggaaggac 28

<210> 57
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 57

Arg Ser Asp Val Leu Ser Glu
1 5

<210> 58
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 58
Arg Asn Gln His Arg Lys Thr
1 5

<210> 59
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 59
Arg Ser Asp His Leu Ser Ala
1 5

<210> 60
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 60
Arg Ser Ala Asn Leu Thr Arg
1 5

<210> 61
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 61
Arg Ser Asp Val Leu Ser Asn
1 5

<210> 62
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 62
Asp Arg Ser Thr Arg Ile Thr
1 5

<210> 63
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 63
atattgcaga caataacccc tttaacct 28

<210> 64
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 64
His Arg Gln His Leu Val Thr
1 5

<210> 65
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 65
Asp Arg Ser Asn Leu Thr Arg
1 5

<210> 66
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 66
His Arg Ser Ser Leu Leu Asn
1 5

<210> 67
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 67
Arg Ser Asp His Leu Ser Thr
1 5

<210> 68
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 68
Arg Ser Ala Asp Leu Ser Arg
1 5

<210> 69
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 69
Arg Ser Asp Asn Leu Ser Gln
1 5

<210> 70
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 70
Ala Ser Asn Asp Arg Lys Lys
1 5

<210> 71
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 71
gtgcagaata tgccccgcag ggtatttg 28

<210> 72
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 72

Arg Ser Asp Asn Leu Ser Ala
1 5

<210> 73
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 73
Arg Asn Asn Asp Arg Lys Thr
1 5

<210> 74
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 74
Thr Ser Ser Asn Arg Thr Lys
1 5

<210> 75
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 75
gggaaggggc ccagggcggt cagtgtgc 28

<210> 76
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 76
Asp Arg Ser His Leu Ala Arg
1 5

<210> 77
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 77
Ala Ser Lys Thr Arg Lys Asn
1 5

<210> 78
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 78
Arg Ser Asp His Leu Ser Glu
1 5

<210> 79
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 79
acacacagga tgacttcctc aaggtggg 28

<210> 80
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 80
Thr Ser Gly Asn Leu Thr Arg
1 5

<210> 81
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 81
Gln Ser Ala Ser Arg Lys Asn
1 5

<210> 82
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 82
cgccaccggg ctccgggccc gagaagtt 28

<210> 83
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 83
Asp Ser Ser Asp Arg Lys Lys
1 5

<210> 84

<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 84
Arg Ser Asp Thr Leu Ser Glu
1 5

<210> 85
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 85
ccccagacct gcgctctggc gcccagcg 28

<210> 86
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 86
Arg Ser Asp Ser Leu Leu Arg
1 5

<210> 87
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 87
Arg Leu Asp Trp Leu Pro Val
1 5

<210> 88
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 88
Gln Ser Ser Asp Leu Ser Arg
1 5

<210> 89
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 89
Ala Ala Ser Asn Arg Ser Lys
1 5

<210> 90
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 90
ggctcggggg ccggggctgg agccaggg 28

<210> 91
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 91
Gln Ser Ser His Leu Thr Arg
1 5

<210> 92
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 92
Gln Ser Ser Asp Leu Thr Arg
1 5

<210> 93
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 93
His Ser Arg Thr Arg Thr Lys
1 5

<210> 94
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 94
Arg Ser Asp His Leu Ser Arg
1 5

<210> 95
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 95
Asp Arg Ser Ala Arg Asn Ser
1 5

<210> 96
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 96
aaggcgctgg cgctgcaacc ggtgtacc 28

<210> 97
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 97
Gln Ser His Asn Arg Thr Lys
1 5

<210> 98
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 98
ttgcagcgcc agcgccttgg gctcgggg 28

<210> 99
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 99
Arg Ser Asp His Leu Ser Gln
1 5

<210> 100
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 100
His Arg Ser Ser Leu Gly Asp
1 5

<210> 101
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 101
Arg Ser Asp Asp Leu Thr Arg
1 5

<210> 102
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 102
Gln Arg Ser Thr Leu Ser Ser
1 5

<210> 103
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 103
Arg Ser Ala Asp Leu Thr Arg
1 5

<210> 104
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 104
cggtgtaccc ggggcccggc gccggctc 28

<210> 105
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 105
Arg Ser Thr His Leu Val Arg
1 5

<210> 106
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 106

Arg Ser Asp Ser Leu Ser Thr
1 5

<210> 107
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 107
Asp Ser Ser Asp Arg Thr Lys
1 5

<210> 108
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 108
Arg Ser Ala Ala Leu Ala Arg
1 5

<210> 109
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 109
ttgcattgag atagtgtggg gaaggggc 28

<210> 110
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 110
Arg Ser Asp His Leu Ser Val
1 5

<210> 111
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 111
Arg Ser Asp Val Arg Lys Thr
1 5

<210> 112
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 112
Arg Ser Asp Tyr Leu Ser Lys
1 5

<210> 113
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 113
Thr Ser Ser Val Arg Thr Thr
1 5

<210> 114
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 114
Arg Pro Tyr Thr Leu Arg Leu
1 5

<210> 115
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 115
Gln Asn Ala Thr Arg Thr Lys
1 5

<210> 116
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 116
atctgtctga aacggtccct ggctaaac 28

<210> 117
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 117
Arg Arg Asp Ile Leu His Gln
1 5

<210> 118
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 118
Leu Ala Tyr Asp Arg Arg Lys
1 5

<210> 119
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 119
tttgcattga gatagtgtgg ggaagggg 28

<210> 120
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 120
Gln Ser Cys Ala Arg Asn Val
1 5

<210> 121
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 121
Arg Ser Asp Asn Leu Ala Arg

1 5

<210> 122
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 122
His Arg Asn Thr Leu Leu Gly
1 5

<210> 123
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 123
Met Arg Asn Arg Leu Asn Arg
1 5

<210> 124
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 124
ctgtctgaaa cggtccctgg ctaaactc 28

<210> 125
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 125
Arg Arg Asp Ala Leu Leu Met
1 5

<210> 126
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 126
Gln Asn Ala His Arg Lys Thr
1 5

<210> 127
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 127
tatttgcatt gagatagtgt ggggaagg 28

<210> 128
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 128
Leu Gln His His Leu Thr Asp
1 5

<210> 129
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 129
Thr Ser Thr His Leu His Ile
1 5

<210> 130
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 130
His Lys Trp Val Leu Arg Gln
1 5

<210> 131
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 131
Arg Arg Asp Ala Leu Leu Met
1 5

<210> 132
<211> 97
<212> DNA
<213> Homo sapiens

<400> 132
cccttcccca cactatctca atgcaaatat gtctctgaaa cggtccctgg ctaaactcca 60

cccatgggtt ggccttgcct tgaccaatag ccttgac 97

<210> 133
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 133
gtatcctctt gggggcc 17

<210> 134
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 134
atcctcttrr rrg 13

<210> 135
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 135
atatttgcat tgagatagtg t 21

<210> 136
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 136
atttrcattr aratart 17

<210> 137
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 137
atcctcttrr rrrc 14

<210> 138
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 138
atcctcttrr rrrcc 15

<210> 139
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 139
atttrcattr arat 14

<210> 140
<211> 51
<212> DNA
<213> Homo sapiens

<400> 140
ggccagcctt gccttgacca atagccttga caaggcaaac ttgaccaata g 51

<210> 141
<211> 50
<212> DNA
<213> Homo sapiens

<400> 141
ggccagcctt gccttgacca tagccttgac aaggcaaact tgaccaatag 50

<210> 142
<211> 47
<212> DNA
<213> Homo sapiens

<400> 142
ggccagcctt gccttaatag ccttgacaag gcaaacttga ccaatag 47

<210> 143
<211> 45
<212> DNA
<213> Homo sapiens

<400> 143
ggccagcctt gccttgaccc ttgacaaggc aaacttgacc aatag 45

<210> 144
<211> 45
<212> DNA
<213> Homo sapiens

<400> 144
ggccagcctt gccttgacca atagcaaggc aaacttgacc aatag 45

<210> 145
<211> 38
<212> DNA
<213> Homo sapiens

<400> 145
ggccagcctt gccttgacaa ggcaaacttg accaatag 38

<210> 146
<211> 51
<212> DNA
<213> Homo sapiens

<400> 146
ggccagcctt gccttgacca aatagccttg acaaggcaaa cttgaccaat a 51

<210> 147
<211> 51
<212> DNA
<213> Homo sapiens

<400> 147

ggccagcctt gccttgacca atagcagcct tgacaaggca aacttgacca a 51

<210> 148
<211> 51
<212> DNA
<213> Homo sapiens

<400> 148
ggccagcctt gccttgacca atagaatagc cttgacaagg caaacttgac c 51

<210> 149
<211> 196
<212> DNA
<213> Homo sapiens

<400> 149
tagctaaagg gaagaataaa ttagagaaaa actggaatga ctgaatcgga acaaggcaaa 60

ggctataaaa aaaattagca gtatcctctt gggggcccct tccccacact atctcaatgc 120

aaatatctgt ctgaaacggt ccctggctaa actccaccca tgggttggcc agccttgcct 180

tgaccaatag ccttga 196

<210> 150
<211> 200
<212> DNA
<213> Homo sapiens

<400> 150
tagctaaagg gaagaataaa ttagagaaaa attggaatga ctgaatcgga acaaggcaaa 60

ggctataaaa aaaattaagc agcagtatcc tcttgggggc cccttcccca cactatctca 120

atgcaaatat ctgtctgaaa cggtccctgg ctaaactcca cccatgggtt ggccagcctt 180

gccttgacca atagccttga 200

<210> 151
<211> 300
<212> DNA
<213> Homo sapiens

<400> 151
caaggcaaac ttgaccaata gtcttagagt atccagtgag gccaggggcc ggcggctggc 60

tagggatgaa gaataaaagg aagcaccctt cagcagttcc acacactcgc ttctggaacg 120

tctgaggtta tcaataagct cctagtccag acgccatggg tcatttcaca gaggaggaca 180

aggctactat cacaagcctg tggggcaagg tgaatgtgga agatgctgga ggagaaaccc 240

tgggaaggta ggctctggtg accaggacaa gggagggaag gaaggaccct gtgcctggca 300

<210> 152
<211> 300
<212> DNA
<213> Homo sapiens

<400> 152
caaggcaaac ttgaccaata gtcttagagt atccagtgag gccaggggcc ggcggctggc 60

tagggatgaa gaataaaagg aagcaccctt cagcagttcc acacactcgc ttctggaacg 120

tctgaggtta tcaataagct cctagtccag acgccatggg tcatttcaca gaggaggaca 180

aggctactat cacaagcctg tggggcaagg tgaatgtgga agatgctgga ggagaaaccc 240

tgggaaggta ggctctggtg accaggacaa gggagggaag gaaggaccct gtgcctggca 300

<210> 153
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 153
Gln Ser Gly Thr Arg Lys Thr
1 5

<210> 154
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 154
Arg Ser Asp Asn Leu Ser Thr
1 5

<210> 155
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 155
Asp Ser Ala Asn Arg Ile Lys
1 5

<210> 156
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 156
Ala Met Gln Thr Leu Arg Val
1 5

<210> 157
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 157
Arg Asn Ser Asp Arg Thr Lys
1 5

<210> 158
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 158

atcaaggtta caagacaggt ttaaggag 28

<210> 159
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 159
aatctgccca gggcctcacc accaactt 28

<210> 160
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 160
ctccagaagg ggatcatgac ctcctcac 28

<210> 161
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 161
Leu Arg Gln Asn Leu Ile Met
1 5

<210> 162
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 162
Thr Ser Ala Asn Leu Thr Val
1 5

<210> 163
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 163
Gln Arg Asn Asp Arg Lys Ser
1 5

<210> 164
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 164
Leu Gln Ser Gln Leu Asn Arg
1 5

<210> 165
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 165
Asp Arg Ala Asn Leu Ser Arg
1 5

<210> 166
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 166
Thr Ser Ser Asn Arg Asn His
1 5

<210> 167
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 167
His Ser Gly Asn Leu Thr Lys
1 5

<210> 168
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 168
Gln Lys Val Asp Leu Ser Arg
1 5

<210> 169
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 169
Gln Ala Asn Asn Leu Lys Val
1 5

<210> 170

<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 170
cccaacgggc cgtggtctgg ttcatcat 28

<210> 171
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 171
Arg Ser Asp Ser Leu Ser Arg
1 5

<210> 172
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 172
Asp Arg Ser Val Arg Thr Lys
1 5

<210> 173
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 173
Gln Arg Ser Asn Leu Lys Val
1 5

<210> 174
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 174
Arg Ser Asp His Leu Thr Thr
1 5

<210> 175
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 175
Trp Ala Thr Ala Arg Asp Arg
1 5

<210> 176
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 176
His Thr Lys Ser Leu Ser Arg
1 5

<210> 177
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 177
Arg Ser Ala His Leu Thr Gln
1 5

<210> 178
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 178
Asp Arg Ser Val Leu Arg Arg
1 5

<210> 179
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 179
atattgcaga caataacccc tttaacct 28

<210> 180
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 180
His Arg Trp Leu Arg Ser Asn
1 5

<210> 181
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 181
Asp Ser Ser His Arg Thr Arg
1 5

<210> 182
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 182
Gln Ser Ala His Leu Lys Ala
1 5

<210> 183
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 183
ctcactgtcc acaggagaag ccacacgg 28

<210> 184
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 184
Arg Ser Ala Asn Leu Ala Arg
1 5

<210> 185
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 185
Arg Leu Asp Asn Arg Thr Ala
1 5

<210> 186
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 186
Gln Ser Asn Asp Leu Asn Ser
1 5

<210> 187
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 187
Trp Arg Ser Ser Leu Lys Thr
1 5

<210> 188
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 188
Asp Arg Ser Asn Arg Lys Thr
1 5

<210> 189
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 189
ttgctacagt tcttgaagac tttcccac 28

<210> 190
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 190
Tyr Lys His Val Leu Ser Asp
1 5

<210> 191
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 191
Thr Ser Gly Ser Leu Thr Arg
1 5

<210> 192
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 192
Leu Lys Asp Thr Leu Arg Arg
1 5

<210> 193
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 193
gagaagccac acgggcgaaa ggccttat 28

<210> 194
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 194
Gln Ser Gly Asn Leu Asp Ser
1 5

<210> 195
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 195
Gln Asn Ala Thr Arg Ile Asn
1 5

<210> 196
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 196
Trp Asn Ser Asp Leu Arg Lys
1 5

<210> 197
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 197
tggacagtga gattgctaca gttcttga 28

<210> 198
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 198
Tyr Lys Trp Thr Leu Arg Asn
1 5

<210> 199
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 199
Thr Ser Thr Lys Leu Arg Thr
1 5

<210> 200
<211> 28
<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 200
gccacacggg cgaaaggcct tataaatg 28

<210> 201
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 201
Arg Ser Asp Thr Leu Ser Thr
1 5

<210> 202
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 202
Asp Ser Ser Asn Arg Ile Asn
1 5

<210> 203
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 203
ctcctgtgga cagtgagatt gctacagt 28

<210> 204

<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 204
Asn Asp Leu Phe Leu Tyr Leu
1 5

<210> 205
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 205
Arg Ser Asp Ser Leu Ser Val
1 5

<210> 206
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 206
His Asn Asp Ser Arg Lys Asn
1 5

<210> 207
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 207
aagctcacca ggcacatgaa aacgcatg 28

<210> 208
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 208
Cys Arg Gln Asn Leu Ala Asn
1 5

<210> 209
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 209
Tyr Gln Gly Val Leu Thr Arg
1 5

<210> 210
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 210
His Arg Ser Ser Leu Arg Arg
1 5

<210> 211
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 211
ctactctggg cacaggcata gttgcaca 28

<210> 212
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 212
Arg Ser Asp Ala Leu Ser Glu
1 5

<210> 213
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 213
ctcaccaggc acatgaaaac gcatggcc 28

<210> 214
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 214
Gly Ser Ser Ala Leu Thr Gln
1 5

<210> 215
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 215
Thr Ala Ser His Leu Lys Glu
1 5

<210> 216
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 216
Ser Ser Arg Asn Leu Ala Ser
1 5

<210> 217
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 217
Thr Ser Ala Asn Leu Ser Arg
1 5

<210> 218
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 218
ggtgaggagg agatccaggt cccaggtg 28

<210> 219
<211> 7
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 219
Asn Asn Arg Asp Leu Ile Asn
1 5

<210> 220
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 220
Thr Ser Ser Asn Leu Ser Arg
1 5

<210> 221
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 221
Gln Arg Thr His Leu Asn Ser
1 5

<210> 222
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 222
cttctcgggc ccggagcccg gtggcgcg 28

<210> 223
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 223
Arg Lys Ser Asp Arg Ile Lys
1 5

<210> 224
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 224
tggtcaaggc aaggctggcc aacccatg 28

<210> 225
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 225
gccttgacaa ggcaaacttg accaatag 28

<210> 226
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 226
Gln Ser Gly Ser Leu Thr Arg
1 5

<210> 227
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 227
Arg Ser Asp Asn Leu Ser Val
1 5

<210> 228
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 228
Leu Lys Phe Ala Leu Ala Asn
1 5

<210> 229
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 229
Asn Pro Ala Asn Leu Thr Arg
1 5

<210> 230
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 230
Asp Ser Ser Ala Arg Lys Lys
1 5

<210> 231
<211> 39
<212> DNA
<213> Homo sapiens

<400> 231
accatggtgc acctgactcc tgaggagaag tctgccgtt 39

<210> 232
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 232
accatggtgc atctgactcc tgaggaaaaa agcgctgtg 39

<210> 233
<211> 88
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 233
cgttcacctt gccccacagg gcagtaacag cagatttttc ctcaggagtc aggtgcacca 60

tggtgtctgt ttgaggttgc tagtgaac 88

<210> 234
<211> 88
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 234
cgttcacctt gccccacagg gcagtaacgg cagatttttc ctcaggagtc aggtgcacca 60

tggtgtctgt ttgaggttgc tagtgaac 88

<210> 235
<211> 101
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 235
cttcatccac gttcaccttg ccccacaggg cagtaacagc agatttttcc tcaggagtca 60

ggtgcaccat ggtgtctgtt tgaggttgct agtgaacaca g 101

<210> 236
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 236
ctgtgggcag tgccagatga 20

<210> 237
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 237
rtrrrcartr ccarat 16

<210> 238
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 238
ctcgataaaa ataagaatgt 20

<210> 239
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (16)..(16)
<223> a, c, t or g

<400> 239
crataaaaat aaraang 17

<210> 240
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 240
atgtccttcc cagccacctc t 21

<210> 241
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 241
rtccttccca rccacct 17

<210> 242
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 242
gttaaagggg ttattgtct 19

<210> 243
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 243
taaarrrrtt attrt 15

<210> 244
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 244
His Thr Lys Ile His Leu Arg Gly Ser Gln Leu Val Lys Ser Lys Ser
1 5 10 15

Glu Ala Ala Ala Arg
20

<210> 245
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 245
His Thr Lys Ile His Leu Arg Gly Ser Tyr Ala Pro Met Pro Pro Leu
1 5 10 15

Ala Leu Ala Ser Pro
20

<210> 246
<211> 124
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 246
acactatctc aatgcaaata tctgtctgaa acggtccctg gctaaactcc acccatgggt 60

tggccagcct tgccttgaca aggcaaactt gaccaatagt cttagagtat ccagtgaggc 120

cagg 124

<210> 247
<211> 124
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 247
cctggcctca ctggatactc taagactatt ggtcaagttt gccttgtcaa ggcaaggctg 60

gccaacccat gggtggagtt tagccaggga ccgtttcaga cagatatttg cattgagata 120

gtgt 124

<210> 248
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

oligonucleotide

<400> 248
gttggccagc cttgccttga c 21

<210> 249
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 249
trrccarcct trccttg 17

<210> 250
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 250
ttggtcaagt ttgccttgtc a 21

<210> 251
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 251
rrtcaarttt rccttrt 17

<210> 252
<211> 9
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown: 'LAGLIDADG'

family peptide

<400> 252
Leu Ala Gly Leu Ile Asp Ala Asp Gly
1 5

<210> 253
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 253
catcccaggc gtggggatta gagctcca 28

<210> 254
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 254
gtatcctctt gggggccc 18

<210> 255
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 255
atatttgcat tgagatagt 19

<210> 256
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 256
gtatcctctt gggggcccc 19

<210> 257
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 257
atatttgcat tgagatag 18

<210> 258
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 258
atttrcattr arata 15