SEQUENCE LISTING

<110> CRISPR THERAPEUTICS AG

<120> GENETICALLY ENGINEERED T CELLS HAVING IMPROVED PERSISTENCE IN CULTURE

<130> 095136-0014 (001WO1)

<140> PCT/IB2020/058280
<141> 2020-09-04

<150> US 63/034,646
<151> 2020-06-04

<150> US 62/927,764
<151> 2019-10-30

<150> US 62/897,016
<151> 2019-09-06

<160> 241

<170> PatentIn version 3.5

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<220>
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<400> 79
cuagggacug cacagucaau guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 80
<211> 100
<212> RNA
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<223> modified with 2'-O-methyl phosphorothioate

<220>
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<223> modified with 2'-O-methyl phosphorothioate

<400> 80
cuagggacug cacagucaau guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 81
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 81
cuagggacug cacagucaau 20

<210> 82
<211> 20
<212> RNA
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<220>
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<220>
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<400> 82
cuagggacug cacagucaau 20

<210> 83
<211> 100
<212> RNA
<213> Artificial Sequence

<220>
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<400> 83
acugcgugcc cugccaagaa guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 84
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<220>
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<400> 84
acugcgugcc cugccaagaa guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 85
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 85
acugcgugcc cugccaagaa 20

<210> 86
<211> 20
<212> RNA
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<400> 86
acugcgugcc cugccaagaa 20

<210> 87
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
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<400> 87
gtgactgaca tcaactccaa ggg 23

<210> 88
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 88

cacttgggca ttaacacttt tgg 23

<210> 89
<211> 23
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<220>
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<400> 89
ttggaaggcc tgcatcatga tgg 23

<210> 90
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
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<400> 90
ctagggactg cacagtcaat ggg 23

<210> 91
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
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<400> 91
actgcgtgcc ctgccaagaa ggg 23

<210> 92
<211> 100
<212> RNA
<213> Artificial Sequence

<220>
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<400> 92
agagcaacag ugcuguggcc guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 93

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<220>
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<222> (97)..(100)
<223> modified with 2'-O-methyl phosphorothioate

<400> 93
agagcaacag ugcuguggcc guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 94
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<400> 94
agagcaacag ugcuguggcc 20

<210> 95
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
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<220>
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<400> 95
agagcaacag ugcuguggcc 20

<210> 96
<211> 100
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 96
gcuacucucu cuuucuggcc guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 97
<211> 100
<212> RNA
<213> Artificial Sequence

<220>
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<222> (1)..(4)
<223> modified with 2'-O-methyl phosphorothioate

<220>
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<222> (97)..(100)
<223> modified with 2'-O-methyl phosphorothioate

<400> 97
gcuacucucu cuuucuggcc guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 98
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 98
gcuacucucu cuuucuggcc 20

<210> 99
<211> 20
<212> RNA

<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(4)
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<400> 99
gcuacucucu cuuucuggcc 20

<210> 100
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 100
agagcaacag tgctgtggcc tgg 23

<210> 101
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 101
gctactctct ctttctggcc tgg 23

<210> 102
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 102

Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro
1 5 10 15

Ala Phe Leu Leu Ile Pro

20

<210> 103
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 103

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro
20

<210> 104
<211> 84
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 104

Phe Val Pro Val Phe Leu Pro Ala Lys Pro Thr Thr Thr Pro Ala Pro
1 5 10 15

Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu
20 25 30

Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg
35 40 45

Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly
50 55 60

Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Asn
65 70 75 80

His Arg Asn Arg

<210> 105
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 105

Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu
1 5 10 15

Ser Leu Val Ile Thr Leu Tyr
20

<210> 106
<211> 126
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 106
aaacggggca gaaagaaact cctgtatata ttcaaacaac catttatgag accagtacaa 60

actactcaag aggaagatgg ctgtagctgc cgatttccag aagaagaaga aggaggatgt 120

gaactg 126

<210> 107
<211> 42
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 107

Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met
1 5 10 15

Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe
20 25 30

Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu

35 40

<210> 108
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 108
tcaaagcgga gtaggttgtt gcattccgat tacatgaata tgactcctcg ccggcctggg 60

ccgacaagaa aacattacca accctatgcc cccccacgag acttcgctgc gtacaggtcc 120

<210> 109
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 109

Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met Thr Pro
1 5 10 15

Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala Pro Pro
20 25 30

Arg Asp Phe Ala Ala Tyr Arg Ser
35 40

<210> 110
<211> 336
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 110
cgagtgaagt tttcccgaag cgcagacgct ccggcatatc agcaaggaca gaatcagctg 60

tataacgaac tgaatttggg acgccgcgag gagtatgacg tgcttgataa acgccggggg 120

agagacccgg aaatgggggg taaaccccga agaaagaatc cccaagaagg actctacaat 180

gaactccaga aggataagat ggcggaggcc tactcagaaa taggtatgaa gggcgaacga 240

cgacggggaa aaggtcacga tggcctctac caagggttga gtacggcaac caaagatacg 300

tacgatgcac tgcatatgca ggccctgcct cccaga 336

<210> 111
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 111

Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
1 5 10 15

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
20 25 30

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
65 70 75 80

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
85 90 95

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
100 105 110

<210> 112
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 112

gauuccgcuu ggugaaaacg 20

<210> 113
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
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<222> (1)..(4)
<223> modified with 2'-O-methyl phosphorothioate

<400> 113
gauuccgcuu ggugaaaacg 20

<210> 114
<211> 100
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 114
gauuccgcuu ggugaaaacg guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 115
<211> 100
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<220>
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<220>
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<222> (1)..(4)
<223> modified with 2'-O-methyl phosphorothioate

<220>
<221> misc_feature
<222> (97)..(100)
<223> modified with 2'-O-methyl phosphorothioate

<400> 115
gauuccgcuu ggugaaaacg guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 116
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 116
caggacucac acgacuauuc 20

<210> 117
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
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<222> (1)..(4)
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<400> 117
caggacucac acgacuauuc 20

<210> 118
<211> 100
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 118
caggacucac acgacuauuc guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 119
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<220>
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<220>
<221> misc_feature
<222> (97)..(100)
<223> modified with 2'-O-methyl phosphorothioate

<400> 119
caggacucac acgacuauuc guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 120
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 120
uuccgcuugg ugaaaacgag 20

<210> 121
<211> 20
<212> RNA
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<220>
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<400> 121
uuccgcuugg ugaaaacgag 20

<210> 122
<211> 100
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 122
uuccgcuugg ugaaaacgag guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 123
<211> 100
<212> RNA
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<222> (1)..(4)
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<220>
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<222> (97)..(100)
<223> modified with 2'-O-methyl phosphorothioate

<400> 123
uuccgcuugg ugaaaacgag guuuuagagc uagaaauagc aaguuaaaau aaggcuaguc 60

cguuaucaac uugaaaaagu ggcaccgagu cggugcuuuu 100

<210> 124
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 124
cattaggacc tgctcctaga 20

<210> 125

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

<220>
<223> Synthetic

<400> 125
gggatgtcct attgctaagt 20

<210> 126
<211> 20
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<220>
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<400> 126
agggatgtcc tattgctaag 20

<210> 127
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 127
acggcacgct caccaatcgc 20

<210> 128
<211> 23
<212> DNA
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<220>
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<400> 128
gattccgctt ggtgaaaacg agg 23

<210> 129
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 129
gattccgctt ggtgaaaacg 20

<210> 130
<211> 23
<212> DNA
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<220>
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<400> 130
caggactcac acgactattc tgg 23

<210> 131
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 131
caggactcac acgactattc 20

<210> 132
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
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<400> 132
ttccgcttgg tgaaaacgag ggg 23

<210> 133
<211> 20
<212> DNA
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<220>
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<400> 133
ttccgcttgg tgaaaacgag 20

<210> 134

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

<220>
<223> Synthetic

<400> 134
tcaccaagcc cgcgaccaat 20

<210> 135
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<220>
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<400> 135
atcaccaagc ccgcgaccaa 20

<210> 136
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 136
cggtgcggcg caggccctat 20

<210> 137
<211> 20
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<220>
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<400> 137
gctttggtcc cattggtcgc 20

<210> 138
<211> 20
<212> DNA
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<220>
<223> Synthetic

<400> 138
gcccgcagga cgcacccata 20

<210> 139
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 139
gtgcatccag cgcttcgcac 20

<210> 140
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 140
cagctacgta tccatcgtga 20

<210> 141
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 141
gtgactgaca tcaactccaa 20

<210> 142
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 142
cacttgggca ttaacacttt 20

<210> 143

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

<220>
<223> Synthetic

<400> 143
ttggaaggcc tgcatcatga 20

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

<220>
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<400> 144
ctagggactg cacagtcaat 20

<210> 145
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 145
actgcgtgcc ctgccaagaa 20

<210> 146
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<400> 146
agagcaacag tgctgtggcc 20

<210> 147
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 147
gctactctct ctttctggcc 20

<210> 148
<211> 506
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 148

Met Leu Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro
1 5 10 15

Ala Phe Leu Leu Ile Pro Asp Ile Gln Met Thr Gln Thr Thr Ser Ser
20 25 30

Leu Ser Ala Ser Leu Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser
35 40 45

Gln Asp Ile Ser Lys Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly
50 55 60

Thr Val Lys Leu Leu Ile Tyr His Thr Ser Arg Leu His Ser Gly Val
65 70 75 80

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr
85 90 95

Ile Ser Asn Leu Glu Gln Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln
100 105 110

Gly Asn Thr Leu Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
115 120 125

Thr Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser
130 135 140

Thr Lys Gly Glu Val Lys Leu Gln Glu Ser Gly Pro Gly Leu Val Ala
145 150 155 160

Pro Ser Gln Ser Leu Ser Val Thr Cys Thr Val Ser Gly Val Ser Leu
165 170 175

Pro Asp Tyr Gly Val Ser Trp Ile Arg Gln Pro Pro Arg Lys Gly Leu
180 185 190

Glu Trp Leu Gly Val Ile Trp Gly Ser Glu Thr Thr Tyr Tyr Asn Ser
195 200 205

Ala Leu Lys Ser Arg Leu Thr Ile Ile Lys Asp Asn Ser Lys Ser Gln
210 215 220

Val Phe Leu Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Ile Tyr
225 230 235 240

Tyr Cys Ala Lys His Tyr Tyr Tyr Gly Gly Ser Tyr Ala Met Asp Tyr
245 250 255

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ala Ala Phe Val
260 265 270

Pro Val Phe Leu Pro Ala Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro
275 280 285

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
290 295 300

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
305 310 315 320

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
325 330 335

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg
340 345 350

Asn Arg Ser Lys Arg Ser Arg Leu Leu His Ser Asp Tyr Met Asn Met
355 360 365

Thr Pro Arg Arg Pro Gly Pro Thr Arg Lys His Tyr Gln Pro Tyr Ala

370 375 380

Pro Pro Arg Asp Phe Ala Ala Tyr Arg Ser Arg Val Lys Phe Ser Arg
385 390 395 400

Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn
405 410 415

Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg
420 425 430

Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro
435 440 445

Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala
450 455 460

Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His
465 470 475 480

Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp
485 490 495

Ala Leu His Met Gln Ala Leu Pro Pro Arg
500 505

<210> 149
<211> 508
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 149

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gln Val Gln Leu Val Gln Ser Gly Ala Glu Leu
20 25 30

Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asn

35 40 45

Thr Leu Thr Asn Tyr Val Ile His Trp Val Arg Gln Ala Pro Gly Gln
50 55 60

Arg Leu Glu Trp Met Gly Tyr Ile Leu Pro Tyr Asn Asp Leu Thr Lys
65 70 75 80

Tyr Ser Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Arg Asp Lys Ser
85 90 95

Ala Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Thr Arg Trp Asp Trp Asp Gly Phe Phe Asp Pro
115 120 125

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser
130 135 140

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Ile Val Met Thr Gln
145 150 155 160

Ser Pro Ala Thr Leu Ser Val Ser Pro Gly Glu Arg Ala Ser Ile Ser
165 170 175

Cys Arg Ala Ser Gln Ser Leu Val His Ser Asn Gly Asn Thr His Leu
180 185 190

His Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
195 200 205

Ser Val Ser Asn Arg Phe Ser Glu Val Pro Ala Arg Phe Ser Gly Ser
210 215 220

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Val Glu Ser Glu
225 230 235 240

Asp Phe Ala Val Tyr Tyr Cys Ser Gln Thr Ser His Ile Pro Tyr Thr
245 250 255

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Ser Ala Ala Ala Phe Val
260 265 270

Pro Val Phe Leu Pro Ala Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro
275 280 285

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
290 295 300

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
305 310 315 320

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
325 330 335

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Asn His Arg
340 345 350

Asn Arg Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro
355 360 365

Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys
370 375 380

Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe
385 390 395 400

Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu
405 410 415

Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp
420 425 430

Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys
435 440 445

Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala
450 455 460

Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys

465 470 475 480

Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr
485 490 495

Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
500 505

<210> 150
<211> 508
<212> PRT
<213> Artificial Sequence

<220>
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Tyr Ala Asp Ala Phe Lys Gly Arg Val Thr Met Thr Arg Asp Thr Ser
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Ile Ser Thr Ala Tyr Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr
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