SEQUENCE LISTING

<110> RNAIMMUNE, INC.

<120> PAN-RAS MRNA CANCER VACCINES

<130> 129774-2010

<140> PCT/US2021/054859
<141> 2021-10-13

<150> 63/091,711
<151> 2020-10-14

<160> 106

<170> PatentIn version 3.5

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1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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1 5 10 15

Lys Thr Arg Gln Arg Val Glu Asp Ala Phe Tyr Thr Leu Val
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Lys Thr Arg Gln Arg Val Glu Asp Ala Phe Tyr Thr Leu Val
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<400> 22
Gly Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Ala Asp Gln Glu Glu
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Tyr Ser Ala Met Arg Asp Gln Tyr Met
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<210> 23
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Tyr Ser Ala Met Arg Asp Gln Tyr Met
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Tyr Ser Ala Met Arg Asp Gln Tyr Met
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Pro Ser Arg Thr Val Asp Thr Lys Gln
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Glu Tyr Ser Ala Met Arg Asp Gln Tyr
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Glu Tyr Ser Ala Met Arg Asp Gln Tyr
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Glu Tyr Ser Ala Met Arg Asp Gln Tyr
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Ser Ala Met Arg Asp Gln Tyr Met Arg
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<400> 34
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Ser Ala Met Arg Asp Gln Tyr Met Arg
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Ser Ala Met Arg Asp Gln Tyr Met Arg
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Ser Ala Met Arg Asp Gln Tyr Met Arg
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20 25

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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln

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1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln
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1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Tyr Ser Ala Met Arg Asp Gln Tyr Met
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1 5 10 15

Tyr Ser Ala Met Arg Asp Gln Tyr Met
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Tyr Ser Ala Met Arg Asp Gln Tyr Met
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Ser Ala Met Arg Asp Gln Tyr Met Arg
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Ser Ala Met Arg Asp Gln Tyr Met Arg
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1 5 10 15

Ser Ala Met Arg Asp Gln Tyr Met Arg
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Ser Ala Met Arg Asp Gln Tyr Met Arg
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Ser Ala Met Arg Asp Gln Tyr Met Arg
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
20 25

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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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<400> 62

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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
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1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln
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1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
20 25

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<400> 68
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Ser Ala Leu Thr Ile Gln Leu Ile Gln
20 25

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Ala Ala Arg Thr Val Glu Ser Arg Gln
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1 5 10 15

Ser Ala Phe Thr Ile Gln Leu Ile Gln Asn His Phe Val Asp Glu Tyr
20 25 30

Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Val Ile Asp Gly
35 40 45

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Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Thr Asp His Glu Glu Tyr
    50                  55                  60

Ser Ala Met Arg Asp Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Cys
65                  70                  75                  80

Val Phe Ala Ile Asn Asn Thr Lys Ser Phe Glu Asp Ile His His Tyr
                85                  90                  95

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Glu Asp Val Pro Met Val
            100                 105                 110

Leu Val Gly Asn Asn Cys Asp Leu Pro Ser Arg Thr Val Asp Thr Lys
        115                 120                 125

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Phe Ile Glu Thr
    130                 135                 140

Ser Thr Lys Thr Arg Gln Arg Val Glu Asp Ala Phe Tyr Thr Leu Val
145                 150                 155                 160

Arg Glu Ile Arg Gln Tyr Arg Leu Lys Lys Ile Ser Lys Glu Glu Lys
                165                 170                 175

Thr Pro Gly Cys Val Lys Ile Lys Lys Cys Ile Ile Met
            180                 185


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Gln Asn Ala Ala Asp Ser Tyr Ser Trp Val Pro Glu Gln Ala Glu Ser
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1 5 10 15

His Lys His Lys
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<210> 73
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 73
Lys His His His Lys His His His Lys His His His Lys His His His
1 5 10 15

Lys

<210> 74
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 74
Lys His His His Lys His His His Lys His His His His Lys His His
1 5 10 15

His Lys

<210> 75
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<220>
<221> MOD_RES
<222> (1)..(1)
<223> D-Lysine

<220>
<221> MOD_RES
<222> (5)..(5)
<223> D-Lysine

<220>
<221> MOD_RES
<222> (9)..(9)
<223> D-Lysine

<220>
<221> MOD_RES
<222> (14)..(14)
<223> D-Lysine

<220>
<221> MOD_RES
<222> (18)..(18)
<223> D-Lysine

<400> 75
Xaa His His His Xaa His His His Xaa His His His His Xaa His His
1 5 10 15

His Xaa

<210> 76
<211> 19
<212> PRT

<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 76
His Lys His His His Lys His His His Lys His His His His Lys His
1 5 10 15

His His Lys

<210> 77
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 77
His His Lys His His His Lys His His His Lys His His His His Lys
1 5 10 15

His His His Lys
20

<210> 78
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 78
Lys His His His His Lys His His His His Lys His His His His Lys
1 5 10 15

His His His His Lys
20

<210> 79
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 79
Lys His His His Lys His His His Lys His His His Lys His His His
1 5 10 15

His Lys

<210> 80
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 80
Lys His His His Lys His His His His Lys His His His Lys His His
1 5 10 15

His Lys

<210> 81
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 81
Lys His His His Lys His His His His Lys His His His Lys His His
1 5 10 15

His His Lys

<210> 82
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 82
His His His Lys
1

<210> 83
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 83
Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
1 5 10

<210> 84
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 84
Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
1 5 10

<210> 85
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 85
Gly Gly Ser Leu Gly Gly Gly Gly Ser Gly
1 5 10

<210> 86
<211> 20
<212> PRT
<213> Unknown

<220>
<221> source
<223> /note="Description of Unknown: IL-2 signal peptide sequence"

<400> 86
Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu
1 5 10 15

Val Thr Asn Ser
20

<210> 87
<211> 15
<212> PRT
<213> Severe acute respiratory syndrome coronavirus 2

<400> 87
Met Phe Val Phe Leu Val Leu Leu Pro Leu Val Ser Ser Gln Cys
1 5 10 15

<210> 88
<211> 615
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 88
auguuuguuu uucuuguuuu auugccacua gucucuaguc aguguaugac ugaauauaaa 60

cuugugguag uuggagcuga ugacguaggc aagagugccu uuacgauaca gcuaauucag 120

aaucauuuug uggacgaaua ugauccaaca auagaggauu ccuacaggaa gcaaguagua 180

auugauggag aaaccugucu cuuggauauu cucgacacaa cagaucacga ggaguacagu 240

gcaaugaggg accaguacau gaggacuggg gagggcuuuc uuuguguauu ugccauaaau 300

aauacuaaau cauuugaaga uauucaccau uauagagaac aaauuaaaag aguuaaggac 360

ucugaagaug uaccuauggu ccuaguagga aauaauugug auuugccuuc uagaacagua 420

gacacaaaac aggcucagga cuuagcaaga aguuauggaa uuccuuuuau ugaaacauca 480

acaaagacaa gacagagagu ggaggaugcu uuuuauacau uggugagaga gauccgacaa 540

uacagauuga aaaaaaucag caaagaagaa aagacuccug gcugugugaa aauuaaaaaa 600

ugcauuauaa uguaa 615

<210> 89
<211> 59
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 89
aggacauuug cuucugacac aacuguguuc acuagcaacc ucaaacagac accgccacc 59

<210> 90
<211> 162
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 90
gcucgcuuuc uugcugucca auuucuauua aagguuccuu uguucccuaa guccaacuac 60

uaaacugggg gauauuauga agggccuuga gcaucuggau ucugccuaau aaaaaacauu 120

uauuuucauu gccaauaggc cgaaaucggc aagcgcgauc gc 162

<210> 91
<211> 3335
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 91
tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca 60

cagcttgtct gtaagcggat gccgggagca gacaagcccg tcagggcgcg tcagcgggtg 120

ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc 180

accatatgcg gtgtgaaata ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc 240

attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat 300

tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt 360

tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt cgagctcggt acctcgcgaa 420

tgcatctaga tatcggatcc cgggcccgtc gactgcagag gcctgcatgc aagctttaat 480

acgactcact ataaggacat ttgcttctga cacaactgtg ttcactagca acctcaaaca 540

gacaccgcca ccatgtttgt ttttcttgtt ttattgccac tagtctctag tcagtgtatg 600

actgaatata aacttgtggt agttggagct gatgacgtag gcaagagtgc ctttacgata 660

cagctaattc agaatcattt tgtggacgaa tatgatccaa caatagagga ttcctacagg 720

aagcaagtag taattgatgg agaaacctgt ctcttggata ttctcgacac aacagatcac 780

gaggagtaca gtgcaatgag ggaccagtac atgaggactg gggagggctt tctttgtgta 840

tttgccataa ataatactaa atcatttgaa gatattcacc attatagaga acaaattaaa 900

agagttaagg actctgaaga tgtacctatg gtcctagtag gaaataattg tgatttgcct 960

tctagaacag tagacacaaa acaggctcag gacttagcaa gaagttatgg aattcctttt 1020

attgaaacat caacaaagac aagacagaga gtggaggatg ctttttatac attggtgaga 1080

gagatccgac aatacagatt gaaaaaaatc agcaaagaag aaaagactcc tggctgtgtg 1140

aaaattaaaa aatgcattat aatgtaagct cgctttcttg ctgtccaatt tctattaaag 1200

gttcctttgt tccctaagtc caactactaa actgggggat attatgaagg gccttgagca 1260

tctggattct gcctaataaa aaacatttat tttcattgcc aataggccga aatcggcaag 1320

cgcgatcgca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380

aaaaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1440

aaaaaaaaaa gaattcctcg aggcgcgccc gcttcctcgc tcactgactc gctgcgctcg 1500

gtcgttcggc tgcggcgagc ggtatcagct cactcaaagg cggtaatacg gttatccaca 1560

gaatcagggg ataacgcagg aaagaacatg tgagcaaaag gccagcaaaa ggccaggaac 1620

cgtaaaaagg ccgcgttgct ggcgtttttc cataggctcc gccccctga cgagcatcac 1680

aaaaatcgac gctcaagtca gaggtggcga aacccgacag gactataaag ataccaggcg 1740

tttccccctg gaagctccct cgtgcgctct cctgttccga ccctgccgct taccggatac 1800

ctgtccgcct ttctcccttc gggaagcgtg gcgctttctc atagctcacg ctgtaggtat 1860

ctcagttcgg tgtaggtcgt tcgctccaag ctgggctgtg tgcacgaacc ccccgttcag 1920

cccgaccgct gcgccttatc cggtaactat cgtcttgagt ccaacccggt aagacacgac 1980

ttatcgccac tggcagcagc cactggtaac aggattagca gagcgaggta tgtaggcggt 2040

gctacagagt tcttgaagtg gtggcctaac tacggctaca ctagaagaac agtatttggt 2100

atctgcgctc tgctgaagcc agttaccttc ggaaaaagag ttggtagctc ttgatccggc 2160

aaacaaacca ccgctggtag cggtggtttt tttgtttgca agcagcagat tacgcgcaga 2220

aaaaaaggat ctcaagaaga tcctttgatc ttttctacgg ggtctgacgc tcagtggaac 2280

gaaaactcac gttaagggat tttggtcatg agattatcaa aaaggatctt cacctagatc 2340

cttttaaatt aaaaatgaag ttttaaatca agcccaatct gaataatgtt acaaccaatt 2400

aaccaattct gattagaaaa actcatcgag catcaaatga aactgcaatt tattcatatc 2460

aggattatca ataccatatt tttgaaaaag ccgtttctgt aatgaaggag aaaactcacc 2520

gaggcagttc cataggatgg caagatcctg gtatcggtct gcgattccga ctcgtccaac 2580

atcaatacaa cctattaatt tcccctcgtc aaaaataagg ttatcaagtg agaaatcacc 2640

atgagtgacg actgaatccg gtgagaatgg caaaagttta tgcatttctt tccagacttg 2700

ttcaacaggc cagccattac gctcgtcatc aaaatcactc gcatcaacca aaccgttatt 2760

cattcgtgat tgcgcctgag cgagacgaaa tacgcgatcg ctgttaaaag gacaattaca 2820

aacaggaatc gaatgcaacc ggcgcaggaa cactgccagc gcatcaacaa tattttcacc 2880

tgaatcagga tattcttcta atacctggaa tgctgttttt ccggggatcg cagtggtgag 2940

taaccatgca tcatcaggag tacggataaa atgcttgatg gtcggaagag gcataaattc 3000

cgtcagccag tttagtctga ccatctcatc tgtaacatca ttggcaacgc tacctttgcc 3060

atgtttcaga aacaactctg gcgcatcggg cttcccatac aagcgataga ttgtcgcacc 3120

tgattgcccg acattatcgc gagcccattt atacccatat aaatcagcat ccatgttgga 3180

atttaatcgc ggcctcgacg tttcccgttg aatatggctc ataacacccc ttgtattact 3240

gtttatgtaa gcagacagtt ttattgttca tgatgatata tttttatctt gtgcaatgta 3300

acatcagaga ttttgagaca cgggccagag ctgca 3335

<210> 92
<211> 132
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<400> 92
gcucgcuuuc uugcugucca auuucuauua aagguuccuu uguucccuaa guccaacuac 60

uaaacugggg gauauuauga agggccuuga gcaucuggau ucugccuaau aaaaaacauu 120

uauuuucauu gc 132

<210> 93
<211> 55
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 93
ggcgcucgag cagguucaga aggagaucaa aaacccccaa ggaucaaacg ccacc 55

<210> 94
<211> 50
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic oligonucleotide"

<400> 94
gggcgcucga gcagguucag aaggagauca aaaaccccca aggaucaaac 50

<210> 95
<211> 50
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 95
acauuugcuu cugacacaac uguguucacu agcaaccuca aacagacacc 50

<210> 96
<211> 55
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 96
ggcgcacgag cagggagaga aggagaucaa aaacccccaa ggaucaaacg ccacc 55

<210> 97
<211> 121
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polynucleotide"

<400> 97
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

a 121

<210> 98
<211> 48
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<400> 98
cggcaauaaa aagacagaau aaaacgcacg guguuggguc guuuguuc 48

<210> 99
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<220>
<221> VARIANT
<222> (2)..(2)
<223> /replace="Ile"

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Any amino acid

<220>
<221> SITE
<222> (1)..(8)
<223> /note="Variant residues given in the sequence have no
preference with respect to those in the annotations
for variant positions"

<400> 99
Asp Val Glu Xaa Asn Pro Gly Pro
1 5

<210> 100
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<220>
<221> SITE
<222> (1)..(75)
<223> /note="This sequence may encompass 1-15 'Gly Gly Gly Gly Ser' repeating units"

<400> 100
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
35 40 45

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
50 55 60

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
65 70 75

<210> 101
<211> 189
<212> PRT
<213> Homo sapiens

<400> 101
Met Thr Glu Tyr Lys Leu Val Val Val Gly Ala Gly Gly Val Gly Lys
1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln Asn His Phe Val Asp Glu Tyr
20 25 30

Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Val Ile Asp Gly
35 40 45

Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Tyr
50 55 60

Ser Ala Met Arg Asp Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Cys
65 70 75 80

Val Phe Ala Ile Asn Asn Thr Lys Ser Phe Glu Asp Ile His His Tyr

85 90 95

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Glu Asp Val Pro Met Val
100 105 110

Leu Val Gly Asn Lys Cys Asp Leu Pro Ser Arg Thr Val Asp Thr Lys
115 120 125

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Phe Ile Glu Thr
130 135 140

Ser Ala Lys Thr Arg Gln Arg Val Glu Asp Ala Phe Tyr Thr Leu Val
145 150 155 160

Arg Glu Ile Arg Gln Tyr Arg Leu Lys Lys Ile Ser Lys Glu Glu Lys
165 170 175

Thr Pro Gly Cys Val Lys Ile Lys Lys Cys Ile Ile Met
180 185

<210> 102
<211> 188
<212> PRT
<213> Homo sapiens

<400> 102
Met Thr Glu Tyr Lys Leu Val Val Val Gly Ala Gly Gly Val Gly Lys
1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln Asn His Phe Val Asp Glu Tyr
20 25 30

Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Val Ile Asp Gly
35 40 45

Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Tyr
50 55 60

Ser Ala Met Arg Asp Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Cys
65 70 75 80

Val Phe Ala Ile Asn Asn Thr Lys Ser Phe Glu Asp Ile His His Tyr

85 90 95

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Glu Asp Val Pro Met Val
100 105 110

Leu Val Gly Asn Lys Cys Asp Leu Pro Ser Arg Thr Val Asp Thr Lys
115 120 125

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Phe Ile Glu Thr
130 135 140

Ser Ala Lys Thr Arg Gln Gly Val Asp Asp Ala Phe Tyr Thr Leu Val
145 150 155 160

Arg Glu Ile Arg Lys His Lys Glu Lys Met Ser Lys Asp Gly Lys Lys
165 170 175

Lys Lys Lys Lys Ser Lys Thr Lys Cys Val Ile Met
180 185

<210> 103
<211> 189
<212> PRT
<213> Homo sapiens

<400> 103
Met Thr Glu Tyr Lys Leu Val Val Val Gly Ala Gly Gly Val Gly Lys
1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln Asn His Phe Val Asp Glu Tyr
20 25 30

Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Val Ile Asp Gly
35 40 45

Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Tyr
50 55 60

Ser Ala Met Arg Asp Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Cys
65 70 75 80

Val Phe Ala Ile Asn Asn Ser Lys Ser Phe Ala Asp Ile Asn Leu Tyr

85 90 95

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Asp Asp Val Pro Met Val
100 105 110

Leu Val Gly Asn Lys Cys Asp Leu Pro Thr Arg Thr Val Asp Thr Lys
115 120 125

Gln Ala His Glu Leu Ala Lys Ser Tyr Gly Ile Pro Phe Ile Glu Thr
130 135 140

Ser Ala Lys Thr Arg Gln Gly Val Glu Asp Ala Phe Tyr Thr Leu Val
145 150 155 160

Arg Glu Ile Arg Gln Tyr Arg Met Lys Lys Leu Asn Ser Ser Asp Asp
165 170 175

Gly Thr Gln Gly Cys Met Gly Leu Pro Cys Val Val Met
180 185

<210> 104
<211> 189
<212> PRT
<213> Homo sapiens

<400> 104
Met Thr Glu Tyr Lys Leu Val Val Val Gly Ala Gly Gly Val Gly Lys
1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln Asn His Phe Val Asp Glu Tyr
20 25 30

Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Val Ile Asp Gly
35 40 45

Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Tyr
50 55 60

Ser Ala Met Arg Asp Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Cys
65 70 75 80

Val Phe Ala Ile Asn Asn Thr Lys Ser Phe Glu Asp Ile His Gln Tyr

85 90 95

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Asp Asp Val Pro Met Val
100 105 110

Leu Val Gly Asn Lys Cys Asp Leu Ala Ala Arg Thr Val Glu Ser Arg
115 120 125

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Tyr Ile Glu Thr
130 135 140

Ser Ala Lys Thr Arg Gln Gly Val Glu Asp Ala Phe Tyr Thr Leu Val
145 150 155 160

Arg Glu Ile Arg Gln His Lys Leu Arg Lys Leu Asn Pro Pro Asp Glu
165 170 175

Ser Gly Pro Gly Cys Met Ser Cys Lys Cys Val Leu Ser
180 185

<210> 105
<211> 170
<212> PRT
<213> Homo sapiens

<400> 105
Met Thr Glu Tyr Lys Leu Val Val Val Gly Ala Gly Gly Val Gly Lys
1 5 10 15

Ser Ala Leu Thr Ile Gln Leu Ile Gln Asn His Phe Val Asp Glu Tyr
20 25 30

Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Val Ile Asp Gly
35 40 45

Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Tyr
50 55 60

Ser Ala Met Arg Asp Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Cys
65 70 75 80

Val Phe Ala Ile Asn Asn Thr Lys Ser Phe Glu Asp Ile His Gln Tyr

85 90 95

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Asp Asp Val Pro Met Val
100 105 110

Leu Val Gly Asn Lys Cys Asp Leu Ala Ala Arg Thr Val Glu Ser Arg
115 120 125

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Tyr Ile Glu Thr
130 135 140

Ser Ala Lys Thr Arg Gln Gly Ser Arg Ser Gly Ser Ser Ser Ser Ser
145 150 155 160

Gly Thr Leu Trp Asp Pro Pro Gly Pro Met
165 170

<210> 106
<211> 300
<212> RNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polynucleotide"

<220>
<221> misc_feature
<222> (1)..(300)
<223> /note="This sequence may encompass 10-300 nucleotides"

<400> 106
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300