SEQUENCE LISTING

<110> AC Immune S.A.
K.U. Leuven Research & Development

<120> PHARMACEUTICAL COMPOSITION

<130> P2654 PCT/A BS

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<151> 2010-10-07
<150> EP 11 17 4248.2
<151> 2011-07-15

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

65 70 75 80
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Val Ser Ser
115

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20 25 30
Tyr Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45
Gly Asp Ile Asn Pro Asn Arg Gly Gly Thr Thr Tyr Asn Gln Lys Phe
50 55 60
Lys Gly Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95
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Val Ser Ser
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35 40 45
Ala Tyr Ile Ser Ser Gly Ser Ser Thr Ile Tyr Tyr Gly Asp Thr Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Phe
65 70 75 80
Leu Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95
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100 105 110
Gly Thr Leu Val Thr Val Ser Ala
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Tyr Met Ser Trp Val Arg Gln Pro Pro Gly Lys Ala Pro Glu Trp Leu
35 40 45
Ala Leu Ile Arg Asn Lys Ala Asn Gly Tyr Thr Thr Glu Tyr Thr Ala
50 55 60
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Gln Asn Ile
65 70 75 80
Leu Tyr Leu Gln Met Asn Thr Leu Arg Ala Glu Asp Ser Ala Thr Tyr
85 90 95
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100 105 110
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35 40 45
Ser Pro Lys Leu Leu Val Tyr Phe Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Asp Arg Phe Ile Gly Ser Gly Ser Gly Thr Asp Phe Ser Leu Thr
65 70 75 80
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85 90 95
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100 105 110
Lys

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His Gly Lys Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35                  40                  45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
    50                  55                  60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65                  70                  75                  80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Thr
                85                  90                  95
Ala His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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            20                  25                  30
His Gly Lys Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35                  40                  45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
    50                  55                  60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65                  70                  75                  80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Thr
                85                  90                  95
Ala His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105                 110
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<220>
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<222> 1..112
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His Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35                  40                  45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
    50                  55                  60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65                  70                  75                  80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Thr
                85                  90                  95
Ala His Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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<223> /mol_type="protein"
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1 5 10 15
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20 25 30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
35 40 45
Tyr Ser Ala Ser Tyr Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Val Gln Ala
65 70 75 80
Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Leu
85 90 95
Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

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<222> 1..113
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20 25 30
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35 40 45
Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60
Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80
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85 90 95
Tyr Tyr Ser Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
100 105 110
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<222> 1..10
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<220>
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<222> 1..17
<223> /mol_type="protein"
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<212> PRT
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<210> 15
<211> 10
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..10
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1 5 10

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<220>
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<222> 1..17
<223> /mol_type="protein"
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<220>
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<222> 1..11
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1 5 10

<210> 18
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1 5 10

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1 5

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1 5

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<223> /mol_type="protein"
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<210> 29
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<212> PRT
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<220>
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<222> 1..11
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<400> 29
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1 5 10

<210> 30
<211> 7
<212> PRT
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<220>
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<223> /mol_type="protein"
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<212> PRT
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<220>
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<222> 1..17
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Ala

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<220>
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<223> /mol_type="protein"
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1 5

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<220>
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<223> /mol_type="protein"
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<400> 34
Gln Gln Tyr Tyr Ser Tyr Pro Phe Thr
1 5

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<223> /mol_type="DNA"
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tcctgtaagg cttctggata tacgttcact gactactaca tgaactgggt gaagcagagc 120

catggaaaga gccttgagtg gattggagat attaatccta accgtggtgg aactacttac 180

aaccagaagt tcaagggcaa ggccacgttg actgtagaca agtcctccag cacagcctac 240

atggaactcc gcagcctgac atctgaggac tctgcagtct attactgtgc aagttactac 300

gccgtgggct actggggcca aggcaccact ctcacagtct cctca 345

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<213> Mus musculus

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<221> source
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tcctgtaagg cttctggata tacgttcact gactactaca tgaactgggt gaagcagagc 120

catggaaaga gccttgagtg gattggagat attaatccta accgtggtgg aactacttac 180

aaccagaagt ttaagggcaa ggccacgttg actgtagaca agtcctccag cacagcctac 240

atggaactcc gcagcctgac atctgaggac tctgcagtct attactgtgc aagttactac 300

gccgtgggct actggggcca aggcaccact ctcacagtct cctca 345

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<223> /mol_type="DNA"
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tcctgtaagg cttctggata cacgttcact gactactaca tgaactgggt gaagcagagc 120

catggaaaga gccttgagtg gattggagat attaatccta accgtggtgg aactacttac 180

aaccagaagt tcaagggcaa ggccacgttg actgtagaca cgtcctccag cacagcctac 240

atggagctcc gcagcctgac atctgaggac tctgcagtct attactgtgc aagttactac 300

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<213> Mus musculus

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ccagagaagg gactggagtg ggttgcatac attagtagtg gcagtagtac catctactat 180

ggagacacag tgaagggccg attcaccatc tccagagaca atgccaagaa caccctgttc 240

ctgcaaatga ccagtctgag gtctgaggac acggccatgt attactgtgc aagaagggga 300

cagctcaggc tacgcctgtt tgcttactgg ggccaaggga ctctggtcac tgtctctgca 360

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ccagggaagg cacctgagtg gttggctttg attagaaaca aagctaatgg ttacacaaca 180

gagtatactg catctgttaa gggtcggttc accatctcca gagataattc ccaaaacatc 240

ctctatcttc aaatgaacac cctgagggct gaggacagtg ccacttatta ctgtgtaaaa 300

gctctgggac gttacttcga tgtctggggc acagggacca cggtcaccgt ctcctca 357

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<213> Mus musculus

<220>
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<222> 1..339
<223> /mol_type="DNA"
/organism="Mus musculus"

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atgagctgca agtccagtca gagtgttttt aatagtggca atcaaaagaa ctctttggcc 120

tggtaccagc agaaaccagg acagtctcct aaacttctgg tatactttgc atccactagg 180

gaatctgggg tccctgatcg cttcataggc agtggatctg ggacagattt cagtcttacc 240

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cctcccacgt tcggtactgg gaccaagctg gagctgaaa 339

<210> 41
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<212> DNA
<213> Mus musculus

<220>
<221> source
<222> 1..336
<223> /mol_type="DNA"
/organism="Mus musculus"

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atctcttgca gatctagtca gaggcttgta cacagtcatg gaaaaaccta tttacattgg 120

tacctgcaga agccaggcca gtctccaaag ctcctgatct acaaagtttc caaccggttt 180

tctggggtcc cagacaggtt cagtggcagt ggatcaggga cagatttcac actcaagatc 240

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tacacgttcg gaggggggac caagctggaa ataaaa 336

<210> 42
<211> 336
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<213> Mus musculus

<220>
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<223> /mol_type="DNA"
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atctcttgca gatctagtca gagccttgta cacagtcatg gaaaaaccta tttacattgg 120

tacctgcaga agccaggcca gtctccaaag ctcctgatct acaaagtttc caaccggttt 180

tctggggtcc cagacaggtt cagtggcagt ggatcaggga cagatttcac actcaagatc 240

agcagagtgg aggctgagga tctgggagtt tatttctgtt ctcaaactgc acattttccg 300

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<400> 43
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atctcttgca gatctagtca gagccttcta cacagtcatg gaaacaccta tttacattgg 120

tacctgcaga agccaggcca gtctccaaag ctcctgatct acaaagtttc caaccggttt 180

tctggggtcc cagacaggtt cagtggcagt ggatcaggga cagatttcac actcaagatc 240

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tacacgttcg gaggggggac caagctggaa ataaaa 336

<210> 44
<211> 321
<212> DNA
<213> Mus musculus

<220>
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<223> /mol_type="DNA"
/organism="Mus musculus"

<400> 44
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atcacctgca aggccagtca ggatgtgagt actgctgtag cctggtatca acagaaacca 120

ggacaatctc ctaaactact gatttactcg gcatcctacc ggtacactgg agtccctgat 180

cgcttcactg gcagtggatc tgggacggat ttcactttca ccatcagcag tgtgcaggct 240

gaagacctgg cagtttatta ctgtcagcaa cattatacta ctccgctcac gttcggtgct 300

gggaccaagc tggagctgaa a 321

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<213> Mus musculus

<220>
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<222> 1..339
<223> /mol_type="DNA"
/organism="Mus musculus"

<400> 45
gacattgtga tgtcacagtc tccatcctcc ctagctgtgt cagttggaga gaaggttact 60

atgagctgca agtccagtca gagcctttta tatagtagca atcaaaagaa ctacttggcc 120

tggtaccagc agaaaccagg gcagtctcct aaactgctga tttactgggc atccactagg 180

gaatctgggg tccctgatcg cttcacaggc agtggatctg ggacagattt cactctcacc 240

atcagcagtg tgaaggctga agacctggca gtttattact gtcagcaata ttatagctat 300

ccattcacgt tcggctcggg gacaaagttg gaaataaaa 339

<210> 46
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..34
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<400> 46
gggaattcat graatgsasc tgggtywtyc tctt 34

<210> 47
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..35
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<220>
<221> variation
<222> 30..30
<223> /replace="n=i"

<400> 47
cccaagcttc cagggrccar kggataracn grtgg 35

<210> 48
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..32
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<400> 48
gggaattcat gragwcacak wcycaggtct tt 32

<210> 49
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..41

<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<400> 49
actagtcgac atgggcwtca agatgragtc acakwyycwg g 41

<210> 50
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..39
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<400> 50
actagtcgac atgaagttgc ctgttaggct gttggtgct 39

<210> 51
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..30
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<400> 51
cccaagctta ctggatggtg ggaagatgga 30

<210> 52
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..36
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<400> 52
actagtcgac atgggatgga gctrtatcat sytctt 36

<210> 53
<211> 33
<212> DNA
<213> artificial seuqence

<220>
<221> source
<222> 1..33
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="artificial seuqence"

<400> 53
gggaattcat grasttskgg ytmarctkgr ttt 33

<210> 54
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..39
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<400> 54
actagtcgac atggactcca ggctcaattt agttttcct 39

<210> 55
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..33
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<400> 55
actagtcgac atgaagwtgt ggbtraactg grt 33

<210> 56
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..39
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<220>
<221> misc_feature
<222> 27..27
<223> /note="n=i"

<400> 56
actagtcgac atggagwcag acacacnsct gytatgggt 39

<210> 57
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<222> 1..37
<223> /mol_type="DNA"
/note="Description of artificial sequence: primer"
/organism="Artificial Sequence"

<400> 57
actagtcgac atggtyctya tvttrctgct gctatgg 37

<210> 58
<211> 30
<212> PRT
<213> artificial sequences

<220>
<221> SOURCE
<222> 1..30
<223> /mol_type="protein"
/note="Description of artifiial sequence: ACI-37"
/organism="artificial sequences"

<220>
<221> VARIANT
<222> 18..18
<223> phosphorylated serine

<220>
<221> VARIANT
<222> 26..26
<223> phosphorylated serine

<400> 58
Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr
1 5 10 15
Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg His Leu
20 25 30

<210> 59
<211> 16
<212> PRT
<213> artificial sequences

<220>
<221> SOURCE
<222> 1..16
<223> /mol_type="protein"
/note="Description of artificial sequence: ACI-33"
/organism="artificial sequences"

<220>
<221> VARIANT
<222> 14..14
<223> phosphorylated serine

<400> 59
Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly Thr Tyr Gly Leu
1 5 10 15

<210> 60
<211> 16
<212> PRT
<213> artificial sequences

<220>
<221> SOURCE
<222> 1..16
<223> /mol_type="protein"
/note="Description of artificial sequence: ACI-39"
/organism="artificial sequences"

<220>
<221> VARIANT

<222> 7..7
<223> phosphorylated threonine

<220>
<221> VARIANT
<222> 9..9
<223> phosphorylated serine

<400> 60
Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg
1 5 10 15

<210> 61
<211> 16
<212> PRT
<213> artificial sequences

<220>
<221> SOURCE
<222> 1..16
<223> /mol_type="protein"
/note="Description of artificial sequence: ACI-39"
/organism="Artificial Sequence"

<220>
<221> VARIANT
<222> 7..7
<223> phosphorylated serine

<220>
<221> VARIANT
<222> 10..10
<223> phosphorylated threonine

<400> 61
Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg
1 5 10 15

<210> 62
<211> 16
<212> PRT
<213> artificial sequences

<220>
<221> SOURCE
<222> 1..16
<223> /mol_type="protein"
/note="Description of artificial sequence: ACI-35"
/organism="artificial sequences"

<220>
<221> VARIANT
<222> 4..4
<223> phosphorylated serine

<220>
<221> VARIANT
<222> 12..12
<223> phosphorylated serine

<400> 62
Val Tyr Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg His Leu
1 5 10 15

<210> 63
<211> 18
<212> PRT
<213> artificial sequences

<220>
<221> SOURCE
<222> 1..18
<223> /mol_type="protein"
/note="Description of artificial sequence: ACI-36"
/organism="artificial sequences"

<220>
<221> VARIANT
<222> 4..4
<223> phosphorylated serine

<220>
<221> VARIANT
<222> 9..9
<223> phosphorylated serine

<400> 63
Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser
1 5 10 15
Ile Asp

<210> 64
<211> 17
<212> PRT
<213> artificial sequences

<220>
<221> SOURCE
<222> 1..17
<223> /mol_type="protein"
/note="Description of artificial sequence: ACI-34"
/organism="artificial sequences"

<220>
<221> VARIANT
<222> 3..3
<223> phosphorylated serine

<220>
<221> VARIANT
<222> 6..6
<223> phosphorylated threonine

<220>
<221> VARIANT
<222> 13..13
<223> phosphorylated threonine

<220>
<221> VARIANT
<222> 15..15
<223> phosphorylated serine

<400> 64
Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser Leu
1 5 10 15
Pro

<210> 65
<211> 12
<212> PRT
<213> artificial sequences

<220>

<221> SOURCE
<222> 1..12
<223> /mol_type="protein"
/note="Description of artificial sequence: ACI-42"
/organism="artificial sequences"

<220>
<221> VARIANT
<222> 3..3
<223> phosphorylated serine

<400> 65
His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp
1 5 10

<210> 66
<211> 10
<212> PRT
<213> artificial sequences

<220>
<221> SOURCE
<222> 1..10
<223> /mol_type="protein"
/note="Description of artificial sequence: ACI-43"
/organism="artificial sequences"

<220>
<221> VARIANT
<222> 6..6
<223> phosphorylated serine

<400> 66
Val Ser Gly Asp Thr Ser Pro Arg His Leu
1 5 10

<210> 67
<211> 441
<212> PRT
<213> Homo sapiens

<220>
<221> SOURCE
<222> 1..441
<223> /mol_type="protein"
/organism="Homo sapiens"

<400> 67
Met Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly
1 5 10 15
Thr Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His
20 25 30
Gln Asp Gln Glu Gly Asp Thr Asp Ala Gly Leu Lys Glu Ser Pro Leu
35 40 45
Gln Thr Pro Thr Glu Asp Gly Ser Glu Glu Pro Gly Ser Glu Thr Ser
50 55 60
Asp Ala Lys Ser Thr Pro Thr Ala Glu Asp Val Thr Ala Pro Leu Val
65 70 75 80
Asp Glu Gly Ala Pro Gly Lys Gln Ala Ala Ala Gln Pro His Thr Glu
85 90 95
Ile Pro Glu Gly Thr Thr Ala Glu Glu Ala Gly Ile Gly Asp Thr Pro
100 105 110
Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met Val
115 120 125
Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys Gly
130 135 140
Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro
145 150 155 160

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Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro
                165                 170                 175
Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly
            180                 185                 190
Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser
        195                 200                 205
Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys
    210                 215                 220
Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys
225                 230                 235                 240
Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn Val
                245                 250                 255
Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly Gly
            260                 265                 270
Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val Gln
        275                 280                 285
Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly Gly
    290                 295                 300
Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser
305                 310                 315                 320
Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
                325                 330                 335
Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
            340                 345                 350
Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
        355                 360                 365
Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala
    370                 375                 380
Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val Ser
385                 390                 395                 400
Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly Ser
                405                 410                 415
Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu Val
            420                 425                 430
Ser Ala Ser Leu Ala Lys Gln Gly Leu
        435                 440
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<210> 68
<211> 117
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..117
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 68

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Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Leu Lys Pro Gly Ala
1               5                  10                  15
Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
            20                  25                  30
Trp Met His Trp Val Lys Gln Arg Pro Gly Arg Gly Leu Glu Trp Ile
        35                  40                  45
Gly Arg Ile Asp Pro Asn Ser Asp Arg Thr Lys Tyr Asn Glu Lys Phe
    50                  55                  60
Lys Arg Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65                  70                  75                  80
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
                85                  90                  95
Ala Arg Asp Asp Tyr Ala Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110
Val Thr Val Ser Ala
        115
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<210> 69
<211> 112

<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..112
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 69
Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Leu Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 70
<211> 10
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..10
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 70
Gly Tyr Thr Phe Thr Ser Tyr Trp Met His
1 5 10

<210> 71
<211> 17
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..17
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 71
Arg Ile Asp Pro Asn Ser Asp Arg Thr Lys Tyr Asn Glu Lys Phe Lys
1 5 10 15
Arg

<210> 72
<211> 8
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..8
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 72
Asp Asp Tyr Ala Trp Phe Ala Tyr
1 5

<210> 73
<211> 16
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..16
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 73
Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu
1 5 10 15

<210> 74
<211> 7
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..7
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 74
Lys Leu Ser Asn Arg Phe Ser
1 5

<210> 75
<211> 9
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..9
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 75
Phe Gln Gly Ser His Val Pro Pro Thr
1 5

<210> 76
<211> 119
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..119
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 76
Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln Ser Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu Ser Thr Ser
20 25 30
Gly Met Gly Val Ser Trp Ile Arg Gln Pro Ser Gly Lys Gly Leu Glu
35 40 45
Trp Leu Ala His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr Asn Ala Ser

```
    50                  55                  60
Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Arg Asn Gln Val
65                  70                  75                  80
Phe Leu Lys Ile Thr Cys Val Asp Thr Ala Asp Thr Ala Thr Tyr Tyr
                85                  90                  95
Cys Ala Arg Leu Leu Arg Pro Tyr Ala Leu Asp Tyr Trp Gly Gln Gly
            100                 105                 110
Thr Ser Val Thr Val Ser Ser
        115
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<210> 77
<211> 112
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..112
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 77

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Asn Ile Leu Met Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly
1               5                   10                  15
Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
            20                  25                  30
Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45
Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
    50                  55                  60
Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65                  70                  75                  80
Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Leu Gln
                85                  90                  95
Tyr Leu Ser Ser Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
            100                 105                 110
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<210> 78
<211> 12
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..12
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 78

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Gly Phe Ser Leu Ser Thr Ser Gly Met Gly Val Ser
1               5                   10
```

<210> 79
<211> 16
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..16
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 79

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His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr Asn Ala Ser Leu Lys Ser
1               5                   10                  15
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<210> 80

<211> 9
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..9
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 80
Leu Leu Arg Pro Tyr Ala Leu Asp Tyr
1 5

<210> 81
<211> 17
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..17
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 81
Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Gln Lys Asn Tyr Leu
1 5 10 15
Ala

<210> 82
<211> 7
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..7
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 82
Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 83
<211> 8
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..8
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 83
Leu Gln Tyr Leu Ser Ser Leu Thr
1 5

<210> 84
<211> 351
<212> DNA
<213> Mus musculus

<220>
<221> source

<222> 1..351
<223> /mol_type="DNA"
/organism="Mus musculus"

<400> 84
caggtccaac tgcagcagcc tggggctgag cttctgaagc ctggggcttc agtgaaactg 60

tcctgcaagg cttctggcta caccttcacc agctactgga tgcactgggt gaagcagagg 120

cctggacgag gccttgagtg gattggaagg attgatccta atagtgatcg tactaagtac 180

aatgagaagt tcaagcgcaa ggccacactg actgtagaca aatcctccag cacagcctac 240

atgcagctca gcagcctgac atctgaggac tctgcggtct attattgtgc aagggatgat 300

tacgcctggt ttgcttactg gggccaaggg actctggtca ctgtctctgc a 351

<210> 85
<211> 336
<212> DNA
<213> Mus musculus

<220>
<221> source
<222> 1..336
<223> /mol_type="DNA"
/organism="Mus musculus"

<400> 85
gatgttttga tgacccaaac tccactctcc ctgcctgtca gtcttggaga tcaagcctcc 60

atctcttgca gatctagtca gagcattgta catagtaatg gaaacaccta tttagaatgg 120

tacctgcaga aaccaggcca gtctccaaag ctcctgatct acaaactttc caaccgattt 180

tctggggtcc cagacaggtt cagtggcagt ggatcaggga cagatttcac actcaagatc 240

agcagagtgg aggctgagga tctgggagtt tattactgct ttcaaggttc acatgttcct 300

ccgacgttcg gtggaggcac caagctggaa atcaaa 336

<210> 86
<211> 357
<212> DNA
<213> Mus musculus

<220>
<221> source
<222> 1..357
<223> /mol_type="DNA"
/organism="Mus musculus"

<400> 86
caggttactc tgaaagagtc tggccctggg atattgcagt cctcccagac cctcagtctg 60

acttgttctt tctctgggtt ttcactgagc acttctggta tgggtgtgag ctggattcgt 120

cagccttcag gaaagggtct ggagtggctg gcacacattt actgggatga tgacaagcgc 180

tataacgcat ccctgaagag ccggctcaca atctccaagg atacctccag aaaccaggta 240

ttcctcaaga tcacctgtgt ggacactgca gatactgcca catactactg tgctcggtta 300

ctgcgtcctt atgctttgga ctactggggt caaggaacct cagtcaccgt ctcctca 357

<210> 87
<211> 336
<212> DNA
<213> Mus musculus

<220>
<221> source
<222> 1..336
<223> /mol_type="DNA"
/organism="Mus musculus"

<400> 87
aacattttga tgacacagtc gccatcatct ctggctgtgt ctgcaggaga aaaggtcact 60

atgagctgta agtccagtca aagtgtttta tacagttcaa atcagaagaa ctacttggcc 120

tggtaccagc agaaaccagg gcagtctcct aaactgctga tctactgggc atccactagg 180

gaatctggtg tccctgatcg cttcacaggc agtggatctg ggacagattt tactcttacc 240

atcagcagtg tacaagctga agacctggca gtttattact gtcttcaata cctctcctcg 300

ctcacgttcg gtgctgggac caagctggag ctgaaa 336

<210> 88
<211> 115
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..115
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 88
Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30
Tyr Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45
Gly Asp Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe
50 55 60
Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95
Val Arg Glu Gly Arg Phe Ala Tyr Trp Gly His Gly Thr Leu Val Thr
100 105 110
Val Ser Ala
115

<210> 89
<211> 10
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..10
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 89
Gly Phe Thr Phe Thr Asp Tyr Tyr Met Asn
1 5 10

<210> 90
<211> 17
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..17
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 90
Asp Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe Lys
1 5 10 15
Gly

<210> 91
<211> 6
<212> PRT
<213> Mus musculus

<220>
<221> SOURCE
<222> 1..6
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 91
Glu Gly Arg Phe Ala Tyr
1 5

<210> 92
<211> 112
<212> PRT
<213> Mus musculus

<220>
<221> SITE
<222> 3..3
<223> Xaa is Met or Val

<220>
<221> SOURCE
<222> 1..112
<223> /mol_type="protein"
/organism="Mus musculus"

<400> 92
Asp Ile Xaa Met Thr Gln Ala Ala Pro Ser Val Pro Val Thr Pro Gly
1 5 10 15
Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
35 40 45
Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr Leu Arg Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
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<210> 93
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<210> 95
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Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30
Tyr Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
35 40 45
Ala Arg Ile Tyr Pro Gly Arg Gly Asn Ile Tyr Tyr Asn Glu Lys Phe
50 55 60
Lys Gly Lys Ala Thr Leu Thr Ala Glu Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
85 90 95
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100 105 110

Val Ser Ala
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<210> 97
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20 25 30
Asn Gly Asn Thr Tyr Leu Glu Trp Phe Leu Gln Lys Pro Gly Gln Ser
35 40 45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95
Ser His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 98
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<210> 99
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<210> 103
<211> 9
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<220>
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eolf-seql

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Phe Thr Phe Thr Asp Tyr
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Tyr Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45
Gly Asp Ile Asn Pro Asn Asn Gly Gly Thr Ser Tyr His Gln Lys Phe
50 55 60
Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95
Val Arg Glu Gly Arg Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110
Val Ser Ala
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Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile
35 40 45
Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
65 70 75 80
Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln Tyr Asn Ser Tyr Pro Tyr
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<223> /mol_type="protein"
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<210> 108
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<210> 109
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catggaaaga gccttgagtg gattggagat attaatccta acaatggtgg tactagctac 180

aaccagaagt tcaagggcaa ggccacattg actgtagaca agtcctccag cacagcctac 240

atggagctcc gcagtctgac atctgaggac tctgcagtct attattgtgt aagagagggg 300

cggtttgctt actggggtca tgggactctg gtcactgtct ctgca 345

<210> 110
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<223> /mol_type="DNA"
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<400> 110
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ttcctgcaga ggccaggcca gtctcctcag ctcctgatat atcggatgtc caaccttgcc 180

tcaggagtcc cagacaggtt cagtggcagt gggtcaggaa ctgctttcac actgagaatc 240

agtagagtgg aggctgagga tgtgggtgtt tattactgta tgcaacatct aaaatctccg 300

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cctggacagg gacttgagtg gattgcaagg atttatcctg gaagaggtaa tatttactac 180

aatgagaagt tcaagggcaa ggccacactg actgcagaaa aatcctccag cactgcctac 240

atgcagctca gcagcctgac atctgaggac tctgctgtct atttctgtgc aagattctgg 300

gacgtgactt actggggcca agggactctg gtcactgtct ctgca 345

<210> 112
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ttcctgcaga aaccaggcca gtctccaaag ctcctgatct acaaagtttc caaccgattt 180

tctggggtcc cagacaggtt cagtggcagt ggatcaggga cagatttcac actcaagatc 240

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tacacgttcg gaggggggac caagctggaa ataaaa 336

<210> 113
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catggaaaga gccttgagtg gattggagat attaatccta acaatggtgg tactagctac 180

caccagaagt tcaagggcaa ggccacattg actgtagaca agtcctccag cacagcctac 240

atggagctcc gcagcctgac atctgaggac tctgcagtct attactgtgt aagagaggga 300

agatttgctt actggggcca agggactctg gtcactgtct ctgca 345

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gggcaatctc ctaaagcact gatttactcg gcatcctacc ggtacagtgg agtccctgat 180

cgcttcacag gcagtggatc tgggacagat ttcactctca ccatcagcaa tgtgcagtct 240

gaagacttgg cagagtattt ctgtcagcaa tataacagct atccgtacac gttcggaggg 300

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<220>
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Gly

<210> 116
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<212> PRT
<213> Mus musculus

<220>
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<222> 1..112
<223> /mol_type="protein"
/organism="Mus musculus"

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1 5 10 15
Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
35 40 45

Pro Gln Leu Leu Ile His Arg Met Ser Asn Leu Ala Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr Leu Arg Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
85 90 95
Leu Lys Ser Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 117
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ttcctgcaga ggccaggcca gtctcctcag ctcctgatac atcggatgtc caaccttgcc 180

tcaggagtcc cagacaggtt cagtggcagt gggtcaggaa ctgctttcac actgagaatc 240

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tacacgttcg gaggggggac caagctggaa ataaaa 336

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1 5 10 15
Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
20 25 30
Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
35 40 45
Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro
50 55 60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr Leu Arg Ile
65 70 75 80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
85 90 95
Leu Lys Ser Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 119
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ttcctgcaga ggccaggcca gtctcctcag ctcctgatat atcggatgtc caaccttgcc 180

tcaggagtcc cagacaggtt cagtggcagt gggtcaggaa ctgctttcac actgagaatc 240

agtagagtgg aggctgagga tgtgggtgtt tattactgta tgcaacatct aaaatctccg 300

tacacgttcg gaggggggac caagctggaa ataaaa 336

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