

SEQUENCE LISTING

<110> JANSSEN BIOTECH, INC.

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JACOBS, STEVEN

O'NEIL, KARYN

RUTKOSKI, THOMAS

<120> SERUM ALBUMIN-BINDING FIBRONECTIN TYPE III DOMAINS

<130> JBI5089WOPCT

<140> TO BE ASSIGNED

<141> 2017-06-01

<150> 62/345,190

<151> 2016-06-03

<160> 72

<170> PatentIn version 3.5

<210> 1

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

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Leu Pro Ala Pro Lys Asn Leu Val Val Ser Glu Val Thr Glu Asp Ser
1 5 10 15

Leu Arg Leu Ser Trp Thr Ala Pro Asp Ala Ala Phe Asp Ser Phe Leu
20 25 30

Ile Gln Tyr Gln Glu Ser Glu Lys Val Gly Glu Ala Ile Asn Leu Thr
35 40 45

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
50 55 60

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

Asn Pro Leu Ser Ala Glu Phe Thr Thr

<210> 2
 <211> 88
 <212> PRT
 <213> Artificial Sequence

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

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 <223> Any amino acid

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 <223> Any amino acid or deleted

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 1 5 10 15

Leu Arg Leu Ser Trp Thr Ala Pro Asp Ala Ala Phe Asp Ser Phe Leu
 20 25 30

Ile Gln Tyr Gln Glu Ser Glu Lys Val Gly Glu Ala Ile Asn Leu Thr
 35 40 45

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
 50 55 60

Thr Glu Tyr Thr Val Ser Ile Tyr Gly Val Xaa Xaa Xaa Xaa Xaa Xaa
 65 70 75 80

Pro Leu Ser Ala Glu Phe Thr Thr
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<210> 3
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 <212> PRT
 <213> Artificial Sequence

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

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<222> (28)..(28)
<223> Phe, Ile, Leu, Val or Tyr

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<223> Asp, Glu or Thr

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<222> (75)..(79)
<223> Ala, Arg, Asn, Asp, Glu, Gln, Gly, His, Ile, Leu, Lys, Phe, Pro, Ser, Thr, Trp, Tyr or Val

<220>
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<222> (81)..(82)
<223> Ala, Arg, Asn, Asp, Glu, Gln, Gly, His, Ile, Leu, Lys, Phe, Pro, Ser, Thr, Trp, Tyr or Val

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Leu Pro Ala Pro Lys Asn Leu Val Val Ser Glu Val Thr Glu Asp Ser
1 5 10 15

Leu Arg Leu Ser Trp Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Phe Leu
20 25 30

Ile Gln Tyr Gln Glu Ser Glu Lys Val Gly Glu Ala Ile Asn Leu Thr
35 40 45

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
50 55 60

Thr Glu Tyr Thr Val Ser Ile Tyr Gly Val Xaa Xaa Xaa Xaa Xaa Ser
65 70 75 80

Xaa Xaa Leu Ser Ala Glu Phe Thr Thr
85

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<211> 89

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 4

Leu Pro Ala Pro Lys Asn Leu Val Val Ser Arg Val Thr Glu Asp Ser
1 5 10 15

Ala Arg Leu Ser Trp Thr Ala Pro Asp Ala Ala Phe Asp Ser Phe Leu
20 25 30

Ile Gln Tyr Gln Glu Ser Glu Lys Val Gly Glu Ala Ile Val Leu Thr
35 40 45

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
50 55 60

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

Asn Pro Leu Ser Ala Ile Phe Thr Thr
85

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<211> 97

<212> PRT

<213> Artificial Sequence

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polypeptide

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Gln, Arg, Ser, Thr, Val, Trp or Tyr

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Gln, Arg, Ser, Thr, Val, Trp, Tyr or deleted

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<223> Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Asn, Pro,
Gln, Arg, Ser, Thr, Val, Trp or Tyr

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<223> Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Asn, Pro,
Gln, Arg, Ser, Thr, Val, Trp, Tyr or deleted

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Leu	Pro	Ala	Pro	Lys	Asn	Leu	Val	Val	Ser	Arg	Val	Thr	Glu	Asp	Ser
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Ala	Arg	Leu	Ser	Trp	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Phe	Asp
			20					25						30	

Ser	Phe	Leu	Ile	Gln	Tyr	Gln	Glu	Ser	Glu	Lys	Val	Gly	Glu	Ala	Ile
		35					40					45			

Val	Leu	Thr	Val	Pro	Gly	Ser	Glu	Arg	Ser	Tyr	Asp	Leu	Thr	Gly	Leu
	50					55					60				

Lys	Pro	Gly	Thr	Glu	Tyr	Thr	Val	Ser	Ile	Tyr	Gly	Val	Xaa	Xaa	Xaa
65					70					75				80	

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ser	Asn	Pro	Leu	Ser	Ala	Ile	Phe	Thr
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Thr

<210> 6

<211> 96

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Leu Pro Ala Pro Lys Asn Leu Val Val Ser Arg Val Thr Glu Asp Ser
1 5 10 15

Ala Arg Leu Ser Trp Thr Ala Pro Asp Ala Ala Phe Asp Ser Phe Leu
20 25 30

Ile Gln Tyr Gln Glu Ser Glu Lys Val Gly Glu Ala Ile Val Leu Thr
35 40 45

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
50 55 60

Thr Glu Tyr Thr Val Ser Ile Tyr Gly Val Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Ser Asn Pro Leu Ser Ala Ile Phe Thr Thr
85 90 95

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

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

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 Gln, Arg, Ser, Thr, Val, Trp, Tyr or Met

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 Gln, Arg, Ser, Thr, Val, Trp, Tyr or Met

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 Gln, Arg, Ser, Thr, Val, Trp, Tyr or Met

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 Gln, Arg, Ser, Thr, Val, Trp, Tyr or Met

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<222> (81)..(81)

<223> Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Asn, Pro,
Gln, Arg, Ser, Thr, Val, Trp, Tyr or Met

<400> 7

Leu Pro Ala Pro Lys Asn Leu Val Val Ser Arg Val Thr Glu Asp Ser
1 5 10 15

Ala Arg Leu Ser Trp Thr Ala Pro Asp Ala Ala Phe Asp Ser Phe Xaa
20 25 30

Ile Xaa Tyr Xaa Glu Xaa Xaa Xaa Xaa Gly Glu Ala Ile Val Leu Thr
35 40 45

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
50 55 60

Thr Glu Tyr Xaa Val Xaa Ile Xaa Gly Val Lys Gly Gly Xaa Xaa Ser
65 70 75 80

Xaa Pro Leu Ser Ala Ile Phe Thr Thr
85

<210> 8

<211> 89

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
polypeptide

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<221> MOD_RES

<222> (32)..(32)

<223> Ala, Asp, Glu, Phe, Gly, His, Ile, Lys, Leu, Asn, Pro,
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<221> MOD_RES

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Gln, Arg, Ser, Thr, Val or Trp

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 <223> Any amino acid

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 <223> Any amino acid

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Leu Pro Ala Pro Lys Asn Leu Val Val Ser Arg Val Thr Glu Asp Ser
1 5 10 15

Ala Arg Leu Ser Trp Thr Ala Pro Asp Ala Ala Phe Asp Ser Phe Xaa
20 25 30

Ile Xaa Tyr Xaa Glu Xaa Xaa Xaa Xaa Gly Glu Ala Ile Xaa Leu Xaa
35 40 45

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
50 55 60

Thr Glu Tyr Xaa Val Xaa Ile Xaa Gly Val Lys Gly Gly Xaa Xaa Ser
65 70 75 80

Xaa Pro Leu Xaa Ala Xaa Phe Thr Thr
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<210> 9
<211> 19
<212> DNA
<213> Artificial Sequence

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

<400> 9
gtgacacggc ggtagaac

<210> 10
 <211> 20
 <212> DNA
 <213> Artificial Sequence

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

 <400> 10
 gcctttggga agcttctaag 20

 <210> 11
 <211> 30
 <212> DNA
 <213> Artificial Sequence

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

 <400> 11
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 <210> 12
 <211> 22
 <212> DNA
 <213> Artificial Sequence

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

 <400> 12
 catgattacg ccaagctcag aa 22

 <210> 13
 <211> 385
 <212> DNA
 <213> Artificial Sequence

 <220>
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 polynucleotide

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ttaatcatcg gctcgtataa tgtgtggaat tgtgagcgga taacaatttc acacaggaaa	120
caggatctac catgctgccg gcgccgaaaa acctggttgt ttctgaagtt accgaagact	180
ctctgctgtc gtcttggnnn nnnnnnnnnn nnnnnnnnnn nnnnttygac tctttcctga	240
tccagtacca ggaatctgaa aaagttgggtg aagcgatcaa cctgaccgtt ccgggttctg	300
aacgttctta cgacctgacc ggtctgaaac cgggtaccga atacaccgtt tctatctacg	360
gtgttcttag aagcttccca aaggc	385

<210> 14

<211> 382

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic polynucleotide

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<222> (198)..(221)

<223> a, c, t, g, unknown or other

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ttaatcatcg gctcgtataa tgtgtggaat tgtgagcgga taacaatttc acacaggaaa	120
caggatctac catgctgccg gcgccgaaaa acctggttgt ttctgaagtt accgaagact	180
ctctgctgtc gtcttggnnn nnnnnnnnnn nnnnnnnnnn nttygactct ttcctgatcc	240
agtaccagga atctgaaaaa gttggtgaag cgatcaacct gaccgttccg ggttctgaac	300
gttcttacga cctgaccggt ctgaaaccgg gtaccgaata caccgtttct atctacggtg	360
ttcttagaag cttcccaaag gc	382

<210> 15

<211> 379

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
polynucleotide

<220>
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<222> (198)..(218)
<223> a, c, t, g, unknown or other

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ttaatcatcg gctcgtataa tgtgtggaat tgtgagcgga taacaatttc acacaggaaa 120
caggatctac catgctgccg gcgccgaaaa acctggttgt ttctgaagtt accgaagact 180
ctctgcgtct gtcttggnnn nnnnnnnnnn nnnnnnnntt ygactctttc ctgatccagt 240
accaggaatc tgaaaaagtt ggtgaagcga tcaacctgac cgttccgggt tctgaacggt 300
cttacgacct gaccggtctg aaaccgggta ccgaatacac cgtttctatc tacggtgttc 360
ttagaagctt cccaaaggc 379

<210> 16
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<212> DNA
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<223> Description of Artificial Sequence: Synthetic
polynucleotide

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<222> (198)..(215)
<223> a, c, t, g, unknown or other

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gtgacacggc ggtagaacg cggctacaat taatacataa ccccatcccc ctgttgacaa 60
ttaatcatcg gctcgtataa tgtgtggaat tgtgagcgga taacaatttc acacaggaaa 120
caggatctac catgctgccg gcgccgaaaa acctggttgt ttctgaagtt accgaagact 180
ctctgcgtct gtcttggnnn nnnnnnnnnn nnnnnntyga ctctttcctg atccagtacc 240
aggaatctga aaaagttggt gaagcgatca acctgaccgt tccgggttct gaacgttctt 300

acgacctgac cggctctgaaa ccgggtaccg aatacaccgt ttctatctac ggtgttctta 360
gaagcttccc aaaggc 376

<210> 17
<211> 131
<212> DNA
<213> Artificial Sequence

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

<400> 17
cggcggtag aacgcggcta caattaatac ataaccccat cccctgttg acaattaatc 60
atcggctcgt ataatgtgtg gaattgtgag cggataacaa tttcacacag gaaacaggat 120
ctaccatgct g 131

<210> 18
<211> 30
<212> DNA
<213> Artificial Sequence

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

<400> 18
cggcggtag aacgcggcta caattaatac 30

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

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

<400> 19
ccaagacaga cgggcagagt cttcggtaac gcgagaaaca accaggtttt tcggcgccgg 60
cagcatggta gtcctgttt c 81

<210> 20
<211> 26
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 20

ccgaagactc tgcccgctctg tcttgg

26

<210> 21

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 21

cagtgggtctc acggattcct ggtactggat caggaaagag tcgaa

45

<210> 22

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 22

catgcggtct cttccgaaaa agttggtgaa gcgatcgtcc tgaccgttcc gggt

54

<210> 23

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 23

ggtggtgaag atcgagaca gcgggtag

29

<210> 24

<211> 21

<212> DNA

<213> Artificial Sequence

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

<400> 24
 cggcggtag aacgcggcta c 21

<210> 25
 <211> 61
 <212> DNA
 <213> Artificial Sequence

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

<400> 25
 aagatcagtt gcggccgcta gactagaacc gctgccaccg ccggtggtga agatcgaga 60
 c 61

<210> 26
 <211> 485
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 <213> Artificial Sequence

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

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 <222> (357)..(392)
 <223> a, c, t, g, unknown or other

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 ttaatcatcg gtcgtataa tgtgtggaat tgtgagcgga taacaatttc acacaggaaa 120
 caggatctac catgctgccg gcgccgaaaa acctggttgt ttctcgcgtt accgaagact 180
 ctgcgcgtct gtcttgacc gcgccggacg cggcgttcga ctctttcctg atccagtacc 240
 aggaatctga aaaagttggt gaagcgatcg tgctgaccgt tccgggttct gaacgttctt 300
 acgacctgac cggctctgaaa ccgggtaccg aatacaccgt ttctatctac ggtgttnnnn 360
 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnn nntctaacc gctgtctgcg atcttcacca 420

ccggcgggtca ccatcaccat caccatggca gcggttctag tctagcggcc gcaactgac 480
 ttggc 485

<210> 27
 <211> 482
 <212> DNA
 <213> Artificial Sequence

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

<220>
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 <223> a, c, t, g, unknown or other

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 ttaatcatcg gctcgtataa tgtgtggaat tgtgagcgga taacaatttc acacaggaaa 120
 caggatctac catgctgccg gcgccgaaaa acctggttgt ttctcgcgtt accgaagact 180
 ctgcgcgtct gtcttgacc gcgccggacg cggcgttcga ctctttcctg atccagtacc 240
 aggaatctga aaaagttggt gaagcgatcg tgctgaccgt tccgggttct gaacgttctt 300
 acgacctgac cggctctgaaa ccgggtaccg aatacaccgt ttctatctac ggtgttnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnt ctaaccgct gtctgcgatc ttcaccaccg 420
 gcggtcacca tcaccatcac catggcagcg gttctagtct agcggccgca actgatcttg 480
 gc 482

<210> 28
 <211> 479
 <212> DNA
 <213> Artificial Sequence

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

<220>
 <221> modified_base

<222> (357)..(386)

<223> a, c, t, g, unknown or other

<400> 28

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ttaatcatcg gctcgtataa tgtgtggaat tgtgagcgga taacaatttc acacaggaaa	120
caggatctac catgctgccg gcgccgaaaa acctggttgt ttctcgcgtt accgaagact	180
ctgcgcgtct gtcttgacc gcgccggacg cggcgttcga ctctttcctg atccagtacc	240
aggaatctga aaaagttggt gaagcgatcg tgctgaccgt tccgggttct gaacgttctt	300
acgacctgac cggctctgaaa ccgggtaccg aatacaccgt ttctatctac ggtgttnnnn	360
nnnnnnnnnn nnnnnnnnnn nnnnnntcta acccgctgtc tgcgatcttc accaccggcg	420
gtcaccatca ccatcaccat ggcagcgggt ctagtctagc ggccgcaact gatcttggc	479

<210> 29

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic polynucleotide

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ttaatcatcg gctcgtataa tgtgtggaat tgtgagcgga taacaatttc acacaggaaa	120
caggatctac catgctgccg gcgccgaaaa acctggttgt ttctcgcgtt accgaagact	180
ctgcgcgtct gtcttgacc gcgccggacg cggcgttcga ctctttcctg atccagtacc	240
aggaatctga aaaagttggt gaagcgatcg tgctgaccgt tccgggttct gaacgttctt	300
acgacctgac cggctctgaaa ccgggtaccg aatacaccgt ttctatctac ggtgttnnnn	360
nnnnnnnnnn nnnnnnnnnn nnntctaacc cgctgtctgc gatcttcacc accggcggtc	420
accatcacca tcacatggc agcggttcta gtctagcggc cgcaactgat cttggc	476

<210> 30
<211> 473
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (357)..(380)
<223> a, c, t, g, unknown or other

<400> 30
gtgacacggc ggtagaacg cggctacaat taatacataa ccccatcccc ctgttgacaa 60
ttaatcatcg gctcgtataa tgtgtggaat tgtgagcgga taacaatttc acacaggaaa 120
caggatctac catgctgccg gcgccgaaaa acctggttgt ttctcgcgtt accgaagact 180
ctgcgcgtct gtcttgacc gcgccggacg cggcgttcga ctctttcctg atccagtacc 240
aggaatctga aaaagttggt gaagcgatcg tgctgaccgt tccgggttct gaacgttctt 300
acgacctgac cggctgaaa ccgggtaccg aatacaccgt ttctatctac ggtgttnnnn 360
nnnnnnnnnn nnnnnnnnnn tctaaccgc tgtctgcgat cttcaccacc ggcggtcacc 420
atcaccatca ccatggcagc ggttctagtc tagcggccgc aactgatctt ggc 473

<210> 31
<211> 470
<212> DNA
<213> Artificial Sequence

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

<220>
<221> modified_base
<222> (357)..(377)
<223> a, c, t, g, unknown or other

<400> 31
gtgacacggc ggtagaacg cggctacaat taatacataa ccccatcccc ctgttgacaa 60
ttaatcatcg gctcgtataa tgtgtggaat tgtgagcgga taacaatttc acacaggaaa 120

caggatctac catgctgccg gcgccgaaaa acctggttgt ttctcgcggtt accgaagact	180
ctgcgcgtct gtcttggacc gcgccggacg cggcggttcga ctctttcctg atccagtacc	240
aggaatctga aaaagttggt gaagcgatcg tgctgaccgt tccgggttct gaacgttctt	300
acgacctgac cggctctgaaa ccgggtaccg aatacaccgt ttctatctac ggtgttnnnn	360
nnnnnnnnnn nnnnnntct aaccgctgt ctgcgatctt caccaccggc ggtcaccatc	420
accatcacca tggcagcggc tctagtctag cggccgcaac tgatcttggc	470

<210> 32

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 32

Lys	Gly	Gly	His	Arg	Ser	Asn
1				5		

<210> 33

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 33

aagaaggaga accggtatgc tgccggcgcc gaaaaac	37
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<210> 34

<211> 65

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 34

gagccgccgc caccggttta atggtgatgg tgatggtgac caccggtggt gaagatcgca	60
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<210> 35
<211> 8
<212> PRT
<213> Homo sapiens

<400> 35
Ser Phe Leu Ile Gln Tyr Gln Glu
1 5

<210> 36
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 36
Ser Phe Gln Ile Glu Tyr Trp Glu
1 5

<210> 37
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 37
Ser Phe Lys Ile Leu Tyr Glu Glu
1 5

<210> 38
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 38
Ser Phe His Ile Glu Tyr Trp Glu
1 5

<210> 39
<211> 6
<212> PRT
<213> Homo sapiens

<400> 39
Ser Glu Lys Val Gly Glu
1 5

<210> 40
<211> 6
<212> PRT
<213> Artificial Sequence

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

<400> 40
Asp Asp Val Gly Gly Glu
1 5

<210> 41
<211> 6
<212> PRT
<213> Artificial Sequence

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

<400> 41
Tyr Leu Val Phe Gly Glu
1 5

<210> 42
<211> 6
<212> PRT
<213> Artificial Sequence

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

<400> 42
Gln Ser Ile Val Gly Glu
1 5

<210> 43
<211> 10
<212> PRT
<213> Homo sapiens

<400> 43
Glu Tyr Thr Val Ser Ile Tyr Gly Val Lys
1 5 10

<210> 44
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 44
Glu Tyr Asp Val Tyr Ile Leu Gly Val Lys
1 5 10

<210> 45
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 45
Glu Tyr Trp Val Ala Ile Trp Gly Val Lys
1 5 10

<210> 46
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 46
Glu Tyr Arg Val Trp Ile Tyr Gly Val Lys
1 5 10

<210> 47
<211> 7
<212> PRT
<213> Homo sapiens

<400> 47
Gly Gly His Arg Ser Asn Pro
1 5

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

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

<400> 48
Gly Gly Trp Glu Ser Gly Pro
1 5

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

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

<400> 49
Gly Gly Gln Val Ser Gly Thr
1 5

<210> 50
<211> 7
<212> PRT
<213> Artificial Sequence

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

<400> 50
Gly Gly Asn Asp Ser Trp Pro
1 5

<210> 51

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

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 51

Leu Pro Ala Pro Lys Asn Leu Val Val Ser Arg Val Thr Glu Asp Ser
1 5 10 15

Ala Arg Leu Ser Trp Thr Ala Pro Asp Ala Ala Phe Asp Ser Phe Gln
20 25 30

Ile Glu Tyr Trp Glu Asp Asp Val Gly Gly Glu Ala Ile Val Leu Thr
35 40 45

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
50 55 60

Thr Glu Tyr Asp Val Tyr Ile Leu Gly Val Lys Gly Gly Trp Glu Ser
65 70 75 80

Gly Pro Leu Ser Ala Ile Phe Thr Thr
85

<210> 52
<211> 89
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 52

Leu Pro Ala Pro Lys Asn Leu Val Val Ser Arg Val Thr Glu Asp Ser
1 5 10 15

Ala Arg Leu Ser Trp Thr Ala Pro Asp Ala Ala Phe Asp Ser Phe Lys
20 25 30

Ile Leu Tyr Glu Glu Tyr Leu Val Phe Gly Glu Ala Ile Val Leu Thr
35 40 45

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
50 55 60

Thr Glu Tyr Trp Val Ala Ile Trp Gly Val Lys Gly Gly Gln Val Ser
65 70 75 80

Gly Thr Leu Ser Ala Ile Phe Thr Thr
85

<210> 53

<211> 89

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 53

Leu Pro Ala Pro Lys Asn Leu Val Val Ser Arg Val Thr Glu Asp Ser
1 5 10 15

Ala Arg Leu Ser Trp Thr Ala Pro Asp Ala Ala Phe Asp Ser Phe His
20 25 30

Ile Glu Tyr Trp Glu Gln Ser Ile Val Gly Glu Ala Ile Val Leu Thr
35 40 45

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
50 55 60

Thr Glu Tyr Arg Val Trp Ile Tyr Gly Val Lys Gly Gly Asn Asp Ser
65 70 75 80

Trp Pro Leu Ser Ala Ile Phe Thr Thr
85

<210> 54

<211> 4

<212> PRT

<213> Artificial Sequence

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

<400> 54
Gly Ser Gly Ser
1

<210> 55
<211> 8
<212> PRT
<213> Artificial Sequence

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

<400> 55
Gly Gly Gly Ser Gly Gly Gly Ser
1 5

<210> 56
<211> 25
<212> PRT
<213> Artificial Sequence

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

<400> 56
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
20 25

<210> 57
<211> 4
<212> PRT
<213> Artificial Sequence

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

<400> 57
Ala Pro Ala Pro
1

<210> 58
<211> 10
<212> PRT
<213> Artificial Sequence

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

<400> 58
Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro
1 5 10

<210> 59
<211> 20
<212> PRT
<213> Artificial Sequence

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

<400> 59
Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro
1 5 10 15

Ala Pro Ala Pro
20

<210> 60
<211> 40
<212> PRT
<213> Artificial Sequence

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

<400> 60
Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro
1 5 10 15

Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro Ala Pro
20 25 30

Ala Pro Ala Pro Ala Pro Ala Pro

<210> 61

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 61

Ala Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys
 1 5 10 15

Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Ala Ala Ala
 20 25

<210> 62

<211> 608

<212> PRT

<213> Homo sapiens

<400> 62

Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala Tyr
 1 5 10 15

Ser Arg Gly Val Phe Arg Arg Asp Ala His Lys Ser Glu Val Ala His
 20 25 30

Arg Phe Lys Asp Leu Gly Glu Glu Asn Phe Lys Ala Leu Val Leu Ile
 35 40 45

Ala Phe Ala Gln Tyr Leu Gln Gln Cys Pro Phe Glu Asp His Val Lys
 50 55 60

Leu Val Asn Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp Glu
 65 70 75 80

Ser Ala Glu Asn Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp Lys
 85 90 95

Leu Cys Thr Val Ala Thr Leu Arg Glu Thr Tyr Gly Glu Met Ala Asp
 100 105 110

Cys Cys Ala Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln His
115 120 125

Lys Asp Asp Asn Pro Asn Leu Pro Arg Leu Val Arg Pro Glu Val Asp
130 135 140

Val Met Cys Thr Ala Phe His Asp Asn Glu Glu Thr Phe Leu Lys Lys
145 150 155 160

Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu
165 170 175

Leu Leu Phe Phe Ala Lys Arg Tyr Lys Ala Ala Phe Thr Glu Cys Cys
180 185 190

Gln Ala Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Leu Asp Glu Leu
195 200 205

Arg Asp Glu Gly Lys Ala Ser Ser Ala Lys Gln Arg Leu Lys Cys Ala
210 215 220

Ser Leu Gln Lys Phe Gly Glu Arg Ala Phe Lys Ala Trp Ala Val Ala
225 230 235 240

Arg Leu Ser Gln Arg Phe Pro Lys Ala Glu Phe Ala Glu Val Ser Lys
245 250 255

Leu Val Thr Asp Leu Thr Lys Val His Thr Glu Cys Cys His Gly Asp
260 265 270

Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys
275 280 285

Glu Asn Gln Asp Ser Ile Ser Ser Lys Leu Lys Glu Cys Cys Glu Lys
290 295 300

Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu
305 310 315 320

Met Pro Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys
325 330 335

Asp Val Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe Leu Gly Met
340 345 350

Phe Leu Tyr Glu Tyr Ala Arg Arg His Pro Asp Tyr Ser Val Val Leu
355 360 365

Leu Leu Arg Leu Ala Lys Thr Tyr Glu Thr Thr Leu Glu Lys Cys Cys
370 375 380

Ala Ala Ala Asp Pro His Glu Cys Tyr Ala Lys Val Phe Asp Glu Phe
385 390 395 400

Lys Pro Leu Val Glu Glu Pro Gln Asn Leu Ile Lys Gln Asn Cys Glu
405 410 415

Leu Phe Glu Gln Leu Gly Glu Tyr Lys Phe Gln Asn Ala Leu Leu Val
420 425 430

Arg Tyr Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu
435 440 445

Val Ser Arg Asn Leu Gly Lys Val Gly Ser Lys Cys Cys Lys His Pro
450 455 460

Glu Ala Lys Arg Met Pro Cys Ala Glu Asp Tyr Leu Ser Val Val Leu
465 470 475 480

Asn Gln Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Asp Arg Val
485 490 495

Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser
500 505 510

Ala Leu Glu Val Asp Glu Thr Tyr Val Pro Lys Glu Phe Asn Ala Glu
515 520 525

Thr Phe Thr Phe His Ala Asp Ile Cys Thr Leu Ser Glu Lys Glu Arg
530 535 540

Gln Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Val Lys His Lys Pro
545 550 555 560

Lys Ala Thr Lys Glu Gln Leu Lys Ala Val Met Asp Asp Phe Ala Ala
565 570 575

Phe Val Glu Lys Cys Cys Lys Ala Asp Asp Lys Glu Thr Cys Phe Ala
580 585 590

Glu Glu Gly Lys Lys Leu Val Ala Ala Ser Gln Ala Ala Leu Gly Leu
595 600 605

<210> 63

<211> 607

<212> PRT

<213> Macaca mulatta

<400> 63

Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala Tyr
1 5 10 15

Ser Arg Gly Val Phe Arg Arg Asp Thr His Lys Ser Glu Val Ala His
20 25 30

Arg Phe Lys Asp Leu Gly Glu Glu His Phe Lys Gly Leu Val Leu Val
35 40 45

Ala Phe Ser Gln Tyr Leu Gln Gln Cys Pro Phe Glu Glu His Val Lys
50 55 60

Leu Val Asn Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp Glu
65 70 75 80

Ser Ala Glu Asn Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp Lys
85 90 95

Leu Cys Thr Val Ala Thr Leu Arg Glu Thr Tyr Gly Glu Met Ala Asp
100 105 110

Cys Cys Ala Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln His
115 120 125

Lys Asp Asp Asn Pro Asn Leu Pro Pro Leu Val Arg Pro Glu Val Asp
130 135 140

Val Met Cys Thr Ala Phe His Asp Asn Glu Ala Thr Phe Leu Lys Lys
145 150 155 160

Tyr Leu Tyr Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu
165 170 175

Leu Leu Phe Phe Ala Ala Arg Tyr Lys Ala Ala Phe Ala Glu Cys Cys
180 185 190

Gln Ala Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Leu Asp Glu Leu
195 200 205

Arg Asp Glu Gly Lys Ala Ser Ser Ala Lys Gln Arg Leu Lys Cys Ala
210 215 220

Ser Leu Gln Lys Phe Gly Asp Arg Ala Phe Lys Ala Trp Ala Val Ala
225 230 235 240

Arg Leu Ser Gln Lys Phe Pro Lys Ala Glu Phe Ala Glu Val Ser Lys
245 250 255

Leu Val Thr Asp Leu Thr Lys Val His Thr Glu Cys Cys His Gly Asp
260 265 270

Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Met Cys
275 280 285

Glu Asn Gln Asp Ser Ile Ser Ser Lys Leu Lys Glu Cys Cys Asp Lys
290 295 300

Pro Leu Leu Glu Lys Ser His Cys Leu Ala Glu Val Glu Asn Asp Glu
305 310 315 320

Met Pro Ala Asp Leu Pro Ser Leu Ala Ala Asp Tyr Val Glu Ser Lys
325 330 335

Asp Val Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe Leu Gly Met
340 345 350

Phe Leu Tyr Glu Tyr Ala Arg Arg His Pro Asp Tyr Ser Val Met Leu
355 360 365

Leu Leu Arg Leu Ala Lys Ala Tyr Glu Ala Thr Leu Glu Lys Cys Cys
370 375 380

Ala Ala Ala Asp Pro His Glu Cys Tyr Ala Lys Val Phe Asp Glu Phe
385 390 395 400

Gln Pro Leu Val Glu Glu Pro Gln Asn Leu Val Lys Gln Asn Cys Glu
405 410 415

Leu Phe Glu Gln Leu Gly Glu Tyr Lys Phe Gln Asn Ala Leu Leu Val
420 425 430

Arg Tyr Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu
435 440 445

Val Ser Arg Asn Leu Gly Lys Val Gly Ala Lys Cys Cys Lys Leu Pro
450 455 460

Glu Ala Lys Arg Met Pro Cys Ala Glu Asp Tyr Leu Ser Val Val Leu
465 470 475 480

Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys Val
485 490 495

Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser
500 505 510

Ala Leu Glu Leu Asp Glu Ala Tyr Val Pro Lys Ala Phe Asn Ala Glu
515 520 525

Thr Phe Thr Phe His Ala Asp Met Cys Thr Leu Ser Glu Lys Glu Lys

530

535

540

Gln Val Lys Lys Gln Thr Ala Leu Val Glu Leu Val Lys His Lys Pro
 545 550 555 560

Lys Ala Thr Lys Glu Gln Leu Lys Gly Val Met Asp Asn Phe Ala Ala
 565 570 575

Phe Val Glu Lys Cys Cys Lys Ala Asp Asp Lys Glu Ala Cys Phe Ala
 580 585 590

Glu Glu Gly Pro Lys Phe Val Ala Ala Ser Gln Ala Ala Leu Ala
 595 600 605

<210> 64

<211> 267

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polynucleotide

<400> 64

ttgccggccc cgaagaacct ggtcgtgagc cgtgttaccg aggacagcgc gcgtctgagc 60

tggaccgcac cggacgcggc gtttgattcg tttcagattg agtattggga agatgacgtg 120

ggtggtgagg ctatcgtgct gaccgtcccg ggtagcgagc gcagctacga tctgacgggt 180

ctgaaaccgg gtaccgagta cgacgtgtac attttggtg ttaaaggtgg ctgggagagc 240

ggtccgctgt cagcaatctt tacgacg 267

<210> 65

<211> 267

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 polynucleotide

<400> 65

ctgccggccc cgaagaacct ggtcgtgagc cgtgttaccg aggacagcgc gcgtctgagc 60

tggaccgcac cggacgcggc gtttgattcg tttaagattc tgtatgaaga atacctggtg 120

ttcggtgagg ctatcgtgct gaccgtcccg ggtagcgagc gcagctacga tctgacgggt	180
ctgaaaccgg gtaccgagta ctgggtggcg atttgggggtg ttaaagggtgg ccaggtgagc	240
ggcaccctga gcgcaatctt tacgacg	267

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

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<210> 67
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide
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Ala Arg Leu Ser Trp Thr Ala Pro Asp Ala Ala Phe Asp Ser Phe Leu
20 25 30

Val Pro Gly Ser Glu Arg Ser Tyr Asp Leu Thr Gly Leu Lys Pro Gly
50 55 60

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

Asn Pro Leu Ser Ala Ile Phe Thr Thr
85

<210> 68
<211> 88
<212> PRT
<213> Homo sapiens

<400> 68
Asp Ala Pro Ser Gln Ile Glu Val Lys Asp Val Thr Asp Thr Thr Ala
1 5 10 15

Leu Ile Thr Trp Phe Lys Pro Leu Ala Glu Ile Asp Gly Ile Glu Leu
20 25 30

Thr Tyr Gly Ile Lys Asp Val Pro Gly Asp Arg Thr Thr Ile Asp Leu
35 40 45

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

Glu Tyr Glu Val Ser Leu Ile Ser Arg Arg Gly Asp Met Ser Ser Asn
65 70 75 80

Pro Ala Lys Glu Thr Phe Thr Thr
85

<210> 69
<211> 89
<212> PRT
<213> Artificial Sequence

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

<400> 69
Leu Asp Ala Pro Thr Asp Leu Gln Val Thr Asn Val Thr Asp Thr Ser
1 5 10 15

Ile Thr Val Ser Trp Thr Pro Pro Ser Ala Thr Ile Thr Gly Tyr Arg
20 25 30

Ile Thr Tyr Thr Pro Ser Asn Gly Pro Gly Glu Pro Lys Glu Leu Thr
35 40 45

Val Pro Pro Ser Ser Thr Ser Val Thr Ile Thr Gly Leu Thr Pro Gly
50 55 60

Val Glu Tyr Val Val Ser Leu Tyr Ala Leu Lys Asp Asn Gln Glu Ser
65 70 75 80

Pro Pro Leu Val Gly Thr Gln Thr Thr
85

<210> 70
<211> 94
<212> PRT
<213> Homo sapiens

<400> 70
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15

Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30

Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45

Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
50 55 60

Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg Gly Asp
65 70 75 80

Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 71
<211> 20

<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 71

Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly
1				5					10					15	

Gly	Gly	Gly	Ser
			20

<210> 72

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
6xHis tag

<400> 72

His	His	His	His	His	His
1				5	