

SEQUENCE LISTING

<110> ACTICOR BIOTECH
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<120> INHIBITION OF PLATELET AGGREGATION USING ANTI-HUMAN
GPVI ANTIBODIES

<130> CV - 739/PCT

<160> 27

<170> BiSSAP 1.3.6

<210> 1

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> VH-CDR1

<400> 1

Gly	Tyr	Thr	Phe	Thr	Ser	Tyr	Asn	Met	His
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<210> 2

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> VH-CDR2

<400> 2

Gly	Ile	Tyr	Pro	Gly	Asn	Gly	Asp	Thr	Ser	Tyr	Asn	Gln	Lys	Phe	Gln
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Gly

<210> 3

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> VH-CDR3

<400> 3

Gly	Thr	Val	Val	Gly	Asp	Trp	Tyr	Phe	Asp	Val
1				5					10	

<210> 4

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> VL-CDR1

<400> 4

Arg	Ser	Ser	Gln	Ser	Leu	Glu	Asn	Ser	Asn	Gly	Asn	Thr	Tyr	Leu	Asn
1				5					10					15	

<210> 5

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> VL-CDR2

<400> 5

Arg	Val	Ser	Asn	Arg	Phe	Ser
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<210> 6

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> VL-CDR3

<400> 6

Leu	Gln	Leu	Thr	His	Val	Pro	Trp	Thr
1				5				

<210> 7

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Heavy chain variable region

<400> 7

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1			5						10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr
		20					25						30		
Asn	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Gly	Ile	Tyr	Pro	Gly	Asn	Gly	Asp	Thr	Ser	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Thr	Ser	Thr	Val	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Gly	Thr	Val	Val	Gly	Asp	Trp	Tyr	Phe	Asp	Val	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120								

<210> 8

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Light chain variable region

<400> 8

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

Arg

<210> 9

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> Light chain variable region

<400> 9

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

Arg

<210> 10

<211> 360

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy chain variable region

<400> 10

caggttcagc	tggttcagtc	aggggctgag	gtgaagaagc	ctggagcctc	agtgaaggtg	60
tcctgcaagg	cttctggcta	cacatttacc	agttacaata	tgcaactgggt	aagacaggct	120
cctggacagg	gcctggaatg	gatgggaggt	atttatccag	gaaatggtga	tacttcctac	180
aatcagaagt	tccagggccg	agttactatg	actcgggaca	cttcacctc	tacagtgtac	240
atggagctca	gcagcctgag	atctgaggac	accgcggtct	attactgtgc	aagaggcacc	300
gtggtcggcg	actggtactt	cgatgtgtgg	ggccaaggca	ccctggtcac	cgtgagcagt	360

<210> 11

<211> 339

<212> DNA

<213> Artificial Sequence

<220>

<223> Light chain variable region

<400> 11
gacatccaga tgaccagag cccaagcagc ctgagcgcca gcgtgggtga cagagtgacc 60
atcacctgta gaagtagtca gagccttgag aacagcaacg gaaacaccta cctgaattgg 120
taccagcaga agccaggtaa ggctccaaag ctgctgatct acagagtttc caaccgattc 180
tctggtgtgc caagcagatt cagcggtagc ggtagcggta ccgacttcac cttcaccatc 240
agcagcctcc agccagagga catcgccacc tactactgcc tccagctgac tcatgtccca 300
tggaccttcg gtcagggcac caaggtggag atcacccgg 339

<210> 12
<211> 339
<212> DNA
<213> Artificial Sequence

<220>
<223> Light chain variable region

<400> 12
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atcacctgta gtgccagtca gagccttgag aacagcaacg gaaacaccta cctgaattgg 120
taccagcaga agccaggtaa ggctccaaag ctgctgatct acagagtttc caaccgattc 180
tctggtgtgc caagcagatt cagcggtagc ggtagcggta ccgacttcac cctcaccatc 240
agcagcctcc agccagagga cttcgccacc tactactgcc tccagctgac tcatgtccca 300
tggaccttcg gtcagggcac caaggtggag atcaaacgc 339

<210> 13
<211> 339
<212> PRT
<213> Homo sapiens

<400> 13
Met Ser Pro Ser Pro Thr Ala Leu Phe Cys Leu Gly Leu Cys Leu Gly
1 5 10 15
Arg Val Pro Ala Gln Ser Gly Pro Leu Pro Lys Pro Ser Leu Gln Ala
20 25 30
Leu Pro Ser Ser Leu Val Pro Leu Glu Lys Pro Val Thr Leu Arg Cys
35 40 45
Gln Gly Pro Pro Gly Val Asp Leu Tyr Arg Leu Glu Lys Leu Ser Ser
50 55 60
Ser Arg Tyr Gln Asp Gln Ala Val Leu Phe Ile Pro Ala Met Lys Arg

65					70					75				80
Ser	Leu	Ala	Gly	Arg	Tyr	Arg	Cys	Ser	Tyr	Gln	Asn	Gly	Ser	Leu
				85					90				95	
Ser	Leu	Pro	Ser	Asp	Gln	Leu	Glu	Leu	Val	Ala	Thr	Gly	Val	Phe
			100					105					110	
Lys	Pro	Ser	Leu	Ser	Ala	Gln	Pro	Gly	Pro	Ala	Val	Ser	Ser	Gly
		115					120					125		
Asp	Val	Thr	Leu	Gln	Cys	Gln	Thr	Arg	Tyr	Gly	Phe	Asp	Gln	Phe
	130					135					140			
Leu	Tyr	Lys	Glu	Gly	Asp	Pro	Ala	Pro	Tyr	Lys	Asn	Pro	Glu	Arg
145					150					155				160
Tyr	Arg	Ala	Ser	Phe	Pro	Ile	Ile	Thr	Val	Thr	Ala	Ala	His	Ser
			165						170					175
Thr	Tyr	Arg	Cys	Tyr	Ser	Phe	Ser	Ser	Arg	Asp	Pro	Tyr	Leu	Trp
			180					185					190	
Ala	Pro	Ser	Asp	Pro	Leu	Glu	Leu	Val	Val	Thr	Gly	Thr	Ser	Val
	195						200					205		
Pro	Ser	Arg	Leu	Pro	Thr	Glu	Pro	Pro	Ser	Ser	Val	Ala	Glu	Phe
	210					215					220			
Glu	Ala	Thr	Ala	Glu	Leu	Thr	Val	Ser	Phe	Thr	Asn	Lys	Val	Phe
225					230					235				240
Thr	Glu	Thr	Ser	Arg	Ser	Ile	Thr	Thr	Ser	Pro	Lys	Glu	Ser	Asp
			245						250					255
Pro	Ala	Gly	Pro	Ala	Arg	Gln	Tyr	Tyr	Thr	Lys	Gly	Asn	Leu	Val
		260					265					270		
Ile	Cys	Leu	Gly	Ala	Val	Ile	Leu	Ile	Ile	Leu	Ala	Gly	Phe	Leu
	275					280					285			
Glu	Asp	Trp	His	Ser	Arg	Arg	Lys	Arg	Leu	Arg	His	Arg	Gly	Arg
	290				295					300				
Val	Gln	Arg	Pro	Leu	Pro	Pro	Leu	Pro	Pro	Leu	Pro	Gln	Thr	Arg
305					310					315				320
Ser	His	Gly	Gly	Gln	Asp	Gly	Gly	Arg	Gln	Asp	Val	His	Ser	Arg
			325						330					335
Leu	Cys	Ser												

<210> 14

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Heavy chain constant region

<400> 14

gcctccacca aggggtccctc agtcttccca ctggcaccct cctccaagag cacctctggt	60
ggcacagctg ccctgggctg cctgggtcaag gactacttcc cagaaccagt gactgtgtca	120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc ctgctgtctt gcagtcctca	180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc	240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agtcgagcct	300
aagtcatgcg acaagactca c	321

<210> 15
 <211> 318
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Light chain constant region

<400> 15	
actgtggctg caccaagtgt gttcatcttc ccacctagcg atgagcagtt gaaatctgga	60
actgcctctg tcgtgtgcct cctgaacaac ttctaccac gggaggccaa ggtacagtgg	120
aaggtggata acgccctcca atccggtaac tcccaggaga gtgtcacaga gcaagatagc	180
aaggacagca cctacagcct cagcagcacc ctgactctga gcaaagcaga ctacgagaag	240
cacaaggtct acgcctgcga agtcacccat cagggcctga gttcccctgt cacaaagagc	300
ttcaaccggg gagagtgt	318

<210> 16
 <211> 66
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Signal peptide

<400> 16	
atggatatgc gtgtaccagc tcaactactt ggacttctat tgctttggct tcgtggtgct	60
agatgt	66

<210> 17
 <211> 57
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Signal peptide

<400> 17	
atggactgga cttggagaat cctattcttg gttgctgcag ctacaggtgc tcattca	57

<210> 18
<211> 762
<212> DNA
<213> Artificial Sequence

<220>
<223> Heavy chain

<400> 18
gcggccgcca ccatggactg gacttggaga atcctattct tggttgctgc agctacaggt 60
gctcattcac aggttcagct gggtcagtca ggggctgagg tgaagaagcc tggagcctca 120
gtgaagggtg cctgcaaggc ttctggctac acatttacca gttacaatat gcaactgggta 180
agacaggctc ctggacaggg cctggaatgg atgggaggta tttatccagg aaatgggtgat 240
acttcctaca atcagaagtt ccagggccga gttactatga ctcgggacac ttccacctct 300
acagtgtaca tggagctcag cagcctgaga tctgaggaca ccgcggtcta ttactgtgca 360
agaggcaccg tggtcggcga ctggtacttc gatgtgtggg gccaaaggcac cctggtcacc 420
gtgagcagtg cctccaccaa ggggtccctca gtcttccac tggcacctc ctccaagagc 480
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actgtgtcat ggaactcagg cgccctgacc agcggcgtgc acaccttccc tgctgtcttg 600
cagtcctcag gactctactc cctcagcagc gtggtgaccg tgccctccag cagcttgggc 660
accagacct acatctgcaa cgtgaatcac aagcccagca acaccaaggt ggacaagaaa 720
gtcgagccta agtcatgcga caagactcac tgatgaggat cc 762

<210> 19
<211> 742
<212> DNA
<213> Artificial Sequence

<220>
<223> Light chain

<400> 19
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cgtgggtgcta gatgtgacat ccagatgacc cagagcccaa gcagcctgag cgccagcgtg 120
ggtgacagag tgaccatcac ctgtagaagt agtcagagcc ttgagaacag caacggaaac 180

acctacctga attggtacca gcagaagcca ggtaaggctc caaagctgct gatctacaga	240
gtttccaacc gattctctgg tgtgccaagc agattcagcg gtagcggtag cggtaccgac	300
ttcaccttca ccatcagcag cctccagcca gaggacatcg ccacctacta ctgcctccag	360
ctgactcatg tcccatggac cttcggtcag ggcaccaagg tggagatcac ccggactgtg	420
gctgcaccaa gtgtgttcat cttcccacct agcgatgagc agttgaaatc tggaactgcc	480
tctgtcgtgt gcctcctgaa caacttctac ccacgggagg ccaaggtaca gtggaagggtg	540
gataacgccc tccaatccgg taactcccag gagagtgtca cagagcaaga tagcaaggac	600
agcacctaca gcctcagcag caccctgact ctgagcaaag cagactacga gaagcacaag	660
gtctacgcct gcgaagtcac ccatcagggc ctgagttccc ctgtcacaaa gagcttcaac	720
cggggagagt gttgatgata tc	742

<210> 20

<211> 742

<212> DNA

<213> Artificial Sequence

<220>

<223> Light chain

<400> 20

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cgtggtgcta gatgtgacat ccagatgacc cagagcccaa gcagcctgag cgccagcgtg	120
ggtgacagag tgaccatcac ctgtagtgcc agtcagagcc ttgagaacag caacggaaac	180
acctacctga attggtacca gcagaagcca ggtaaggctc caaagctgct gatctacaga	240
gtttccaacc gattctctgg tgtgccaagc agattcagcg gtagcggtag cggtaccgac	300
ttcaccttca ccatcagcag cctccagcca gaggacttcg ccacctacta ctgcctccag	360
ctgactcatg tcccatggac cttcggtcag ggcaccaagg tggagatcaa acgcactgtg	420
gctgcaccaa gtgtgttcat cttcccacct agcgatgagc agttgaaatc tggaactgcc	480
tctgtcgtgt gcctcctgaa caacttctac ccacgggagg ccaaggtaca gtggaagggtg	540
gataacgccc tccaatccgg taactcccag gagagtgtca cagagcaaga tagcaaggac	600
agcacctaca gcctcagcag caccctgact ctgagcaaag cagactacga gaagcacaag	660

gtctacgcct gcgaagtcac ccatcagggc ctgagttccc ctgtcacaaa gagcttcaac 720

cggggagagt gttgatgata tc 742

<210> 21

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR-L3 - Residues after

<220>

<221> SITE

<222> 3

<223> X is any amino acid

<400> 21

Phe Gly Xaa Gly

1

<210> 22

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR-H1 - Residues before

<220>

<221> SITE

<222> 2

<223> X is any amino acid

<220>

<221> SITE

<222> 3

<223> X is any amino acid

<220>

<221> SITE

<222> 4

<223> X is any amino acid

<400> 22

Cys Xaa Xaa Xaa

1

<210> 23

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR-H2 - Residues before

<400> 23

Leu Glu Trp Ile Gly
1 5

<210> 24

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR-H3 - Residues after

<220>

<221> SITE

<222> 3

<223> X is any amino acid

<400> 24

Trp Gly Xaa Gly
1

<210> 25

<211> 527

<212> PRT

<213> Homo sapiens

<400> 25

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Gln	His	Gln	Ser	Trp	Leu	Arg	Pro	Val	Leu	Arg	Ser	Asn	Arg	Val	Glu
			20					25					30		
Tyr	Cys	Trp	Cys	Asn	Ser	Gly	Arg	Ala	Gln	Cys	His	Ser	Val	Pro	Val
		35				40						45			
Lys	Ser	Cys	Ser	Glu	Pro	Arg	Cys	Phe	Asn	Gly	Gly	Thr	Cys	Gln	Gln
	50					55					60				
Ala	Leu	Tyr	Phe	Ser	Asp	Phe	Val	Cys	Gln	Cys	Pro	Glu	Gly	Phe	Ala
65					70					75				80	
Gly	Lys	Cys	Cys	Glu	Ile	Asp	Thr	Arg	Ala	Thr	Cys	Tyr	Glu	Asp	Gln
				85				90						95	
Gly	Ile	Ser	Tyr	Arg	Gly	Thr	Trp	Ser	Thr	Ala	Glu	Ser	Gly	Ala	Glu
			100					105					110		
Cys	Thr	Asn	Trp	Asn	Ser	Ser	Ala	Leu	Ala	Gln	Lys	Pro	Tyr	Ser	Gly
		115					120					125			
Arg	Arg	Pro	Asp	Ala	Ile	Arg	Leu	Gly	Leu	Gly	Asn	His	Asn	Tyr	Cys
	130					135					140				
Arg	Asn	Pro	Asp	Arg	Asp	Ser	Lys	Pro	Trp	Cys	Tyr	Val	Phe	Lys	Ala

145					150					155				160
Gly	Lys	Tyr	Ser	Ser	Glu	Phe	Cys	Ser	Thr	Pro	Ala	Cys	Ser	Glu
				165					170					175
Asn	Ser	Asp	Cys	Tyr	Phe	Gly	Asn	Gly	Ser	Ala	Tyr	Arg	Gly	Thr
			180					185					190	His
Ser	Leu	Thr	Glu	Ser	Gly	Ala	Ser	Cys	Leu	Pro	Trp	Asn	Ser	Met
		195					200					205		Ile
Leu	Ile	Gly	Lys	Val	Tyr	Thr	Ala	Gln	Asn	Pro	Ser	Ala	Gln	Ala
	210					215					220			Leu
Gly	Leu	Gly	Lys	His	Asn	Tyr	Cys	Arg	Asn	Pro	Asp	Gly	Asp	Ala
225					230					235				240
Pro	Trp	Cys	His	Val	Leu	Lys	Asn	Arg	Arg	Leu	Thr	Trp	Glu	Tyr
			245						250					255
Asp	Val	Pro	Ser	Cys	Ser	Thr	Cys	Gly	Leu	Arg	Gln	Tyr	Ser	Gln
			260					265					270	Pro
Gln	Phe	Arg	Ile	Lys	Gly	Gly	Leu	Phe	Ala	Asp	Ile	Ala	Ser	His
	275						280					285		
Trp	Gln	Ala	Ala	Ile	Phe	Ala	Lys	His	Arg	Arg	Ser	Pro	Gly	Glu
	290					295					300			Arg
Phe	Leu	Cys	Gly	Gly	Ile	Leu	Ile	Ser	Ser	Cys	Trp	Ile	Leu	Ser
305					310					315				320
Ala	His	Cys	Phe	Gln	Glu	Arg	Phe	Pro	Pro	His	His	Leu	Thr	Val
				325					330					335
Leu	Gly	Arg	Thr	Tyr	Arg	Val	Val	Pro	Gly	Glu	Glu	Glu	Gln	Lys
			340					345					350	Phe
Glu	Val	Glu	Lys	Tyr	Ile	Val	His	Lys	Glu	Phe	Asp	Asp	Asp	Thr
	355						360				365			Tyr
Asp	Asn	Asp	Ile	Ala	Leu	Leu	Gln	Leu	Lys	Ser	Asp	Ser	Ser	Arg
	370					375					380			Cys
Ala	Gln	Glu	Ser	Ser	Val	Val	Arg	Thr	Val	Cys	Leu	Pro	Pro	Ala
385					390					395				400
Leu	Gln	Leu	Pro	Asp	Trp	Thr	Glu	Cys	Glu	Leu	Ser	Gly	Tyr	Gly
				405				410						415
His	Glu	Ala	Leu	Ser	Pro	Phe	Tyr	Ser	Glu	Arg	Leu	Lys	Glu	Ala
			420					425					430	His
Val	Arg	Leu	Tyr	Pro	Ser	Ser	Arg	Cys	Thr	Ser	Gln	His	Leu	Leu
	435						440					445		Asn
Arg	Thr	Val	Thr	Asp	Asn	Met	Leu	Cys	Ala	Gly	Asp	Thr	Arg	Ser
	450					455				460				Gly
Gly	Pro	Gln	Ala	Asn	Leu	His	Asp	Ala	Cys	Gln	Gly	Asp	Ser	Gly
465					470				475					480
Pro	Leu	Val	Cys	Leu	Asn	Asp	Gly	Arg	Met	Thr	Leu	Val	Gly	Ile
				485					490					495
Ser	Trp	Gly	Leu	Gly	Cys	Gly	Gln	Lys	Asp	Val	Pro	Gly	Val	Tyr
			500					505					510	Thr
Lys	Val	Thr	Asn	Tyr	Leu	Asp	Trp	Ile	Arg	Asp	Asn	Met	Arg	Pro
		515					520					525		

<210> 26

<211> 275

<212> PRT

<213> Homo sapiens

<400> 26

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Ser Tyr Gln Val Ile Cys Arg Asp Glu Lys Thr Gln Met Ile Tyr Gln
1          5          10          15
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          20          25          30
Tyr Cys Trp Cys Asn Ser Gly Arg Ala Gln Cys His Ser Val Pro Val
          35          40          45
Lys Ser Cys Ser Glu Pro Arg Cys Phe Asn Gly Gly Thr Cys Gln Gln
          50          55          60
Ala Leu Tyr Phe Ser Asp Phe Val Cys Gln Cys Pro Glu Gly Phe Ala
65          70          75          80
Gly Lys Cys Cys Glu Ile Asp Thr Arg Ala Thr Cys Tyr Glu Asp Gln
          85          90          95
Gly Ile Ser Tyr Arg Gly Thr Trp Ser Thr Ala Glu Ser Gly Ala Glu
          100          105          110
Cys Thr Asn Trp Asn Ser Ser Ala Leu Ala Gln Lys Pro Tyr Ser Gly
          115          120          125
Arg Arg Pro Asp Ala Ile Arg Leu Gly Leu Gly Asn His Asn Tyr Cys
          130          135          140
Arg Asn Pro Asp Arg Asp Ser Lys Pro Trp Cys Tyr Val Phe Lys Ala
145          150          155          160
Gly Lys Tyr Ser Ser Glu Phe Cys Ser Thr Pro Ala Cys Ser Glu Gly
          165          170          175
Asn Ser Asp Cys Tyr Phe Gly Asn Gly Ser Ala Tyr Arg Gly Thr His
          180          185          190
Ser Leu Thr Glu Ser Gly Ala Ser Cys Leu Pro Trp Asn Ser Met Ile
          195          200          205
Leu Ile Gly Lys Val Tyr Thr Ala Gln Asn Pro Ser Ala Gln Ala Leu
          210          215          220
Gly Leu Gly Lys His Asn Tyr Cys Arg Asn Pro Asp Gly Asp Ala Lys
225          230          235          240
Pro Trp Cys His Val Leu Lys Asn Arg Arg Leu Thr Trp Glu Tyr Cys
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Asp Val Pro Ser Cys Ser Thr Cys Gly Leu Arg Gln Tyr Ser Gln Pro
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Gln Phe Arg
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<211> 252

<212> PRT

<213> Homo sapiens

<400> 27

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Ala Ile Phe Ala Lys His Arg Arg Ser Pro Gly Glu Arg Phe Leu Cys
          20          25          30
Gly Gly Ile Leu Ile Ser Ser Cys Trp Ile Leu Ser Ala Ala His Cys
          35          40          45
Phe Gln Glu Arg Phe Pro Pro His His Leu Thr Val Ile Leu Gly Arg
50          55          60
Thr Tyr Arg Val Val Pro Gly Glu Glu Glu Gln Lys Phe Glu Val Glu
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65					70					75				80
Lys	Tyr	Ile	Val	His	Lys	Glu	Phe	Asp	Asp	Asp	Thr	Tyr	Asp	Asn
				85					90					95
Ile	Ala	Leu	Leu	Gln	Leu	Lys	Ser	Asp	Ser	Ser	Arg	Cys	Ala	Gln
			100					105					110	
Ser	Ser	Val	Val	Arg	Thr	Val	Cys	Leu	Pro	Pro	Ala	Asp	Leu	Gln
		115					120					125		
Pro	Asp	Trp	Thr	Glu	Cys	Glu	Leu	Ser	Gly	Tyr	Gly	Lys	His	Glu
	130					135					140			Ala
Leu	Ser	Pro	Phe	Tyr	Ser	Glu	Arg	Leu	Lys	Glu	Ala	His	Val	Arg
145					150					155				160
Tyr	Pro	Ser	Ser	Arg	Cys	Thr	Ser	Gln	His	Leu	Leu	Asn	Arg	Thr
				165					170					175
Thr	Asp	Asn	Met	Leu	Cys	Ala	Gly	Asp	Thr	Arg	Ser	Gly	Gly	Pro
			180					185					190	
Ala	Asn	Leu	His	Asp	Ala	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu
	195						200					205		Val
Cys	Leu	Asn	Asp	Gly	Arg	Met	Thr	Leu	Val	Gly	Ile	Ile	Ser	Trp
	210					215					220			Gly
Leu	Gly	Cys	Gly	Gln	Lys	Asp	Val	Pro	Gly	Val	Tyr	Thr	Lys	Val
225					230					235				240
Asn	Tyr	Leu	Asp	Trp	Ile	Arg	Asp	Asn	Met	Arg	Pro			
				245					250					