

## SEQUENCE LISTING

<110> Holt, Lucy  
Herring, Christopher  
Jespers, Laurent  
Mayer, Sebastian  
Glaxo Group Limited

<120> Drug fusions and Conjugates

<130> DB0055

<150> USSN 61/040,796

<151> 2008-03-31

<150> USSN 61/086,891

<151> 2008-08-07

<160> 23

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 168

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 1

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

100                      105                      110  
 Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly  
 115                      120                      125  
 Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala  
 130                      135                      140  
 Thr Tyr Tyr Cys Ala Gln Gly Ala Ala Leu Pro Arg Thr Phe Gly Gln  
 145                      150                      155                      160  
 Gly Thr Lys Val Glu Ile Lys Arg  
 165

<210> 2

<211> 163

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 2

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

<210> 3

<211> 148

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 3

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

<210> 4

<211> 188

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 4

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

Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
 115 120 125  
 Met Trp Arg Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly  
 130 135 140  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 145 150 155 160  
 Glu Asp Phe Ala Thr Tyr Tyr Cys Ala Gln Gly Ala Ala Leu Pro Arg  
 165 170 175  
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg  
 180 185

<210> 5

<211> 153

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 5

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

<210> 6

<211> 142

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 6

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

<210> 7

<211> 179

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 7

His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15  
Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly Lys  
20 25 30  
Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu  
35 40 45  
Leu Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala  
50 55 60  
Ala Ala Lys Glu Leu Ala Ala Asp Ile Gln Met Thr Gln Ser Pro Ser  
65 70 75 80  
Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala  
85 90 95  
Ser Gln Trp Ile Gly Ser Gln Leu Ser Trp Tyr Gln Gln Lys Pro Gly  
100 105 110  
Lys Ala Pro Lys Leu Leu Ile Met Trp Arg Ser Ser Leu Gln Ser Gly  
115 120 125

Val Pro Ser Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu  
130 135 140  
Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Ala  
145 150 155 160  
Gln Gly Ala Ala Leu Pro Arg Thr Phe Gly Gln Gly Thr Lys Val Glu  
165 170 175  
Ile Lys Arg

<210> 8  
<211> 108  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Sequence derived from Homo sapiens sequence

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

<210> 9  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Sequence derived from Homo sapiens sequence

<400> 9  
His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15  
Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly  
20 25 30

<210> 10  
<211> 39  
<212> PRT  
<213> Heloderma suspectum

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

<210> 11  
<211> 40  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Sequence derived from Homo sapiens sequence

<400> 11  
Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys  
1 5 10 15  
Glu Leu Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu  
20 25 30  
Ala Ala Ala Lys Glu Leu Ala Ala  
35 40

<210> 12  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Sequence derived from Homo sapiens sequence

<400> 12  
Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
1 5 10 15

<210> 13  
<211> 504

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 13

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gaattcattg cttggctggt gaaaggccga catggtgaag ggacctttac cagtgatgta 120
agttcttatt tggaaggcca agctgccaaag gaattcattg cttggctggt gaaaggccga 180
gacatccaga tgaccacgac tccatcctcc ctgtctgcat ctgtaggaga ccgtgtcacc 240
atcacttgcc gggcaagtca gtggattggg tctcagttat cttggtacca gcagaaacca 300
gggaaagccc ctaagctcct gatcatgtgg cgttcctcgt tgcaaagtgg ggtcccatca 360
cgtttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct 420
gaagattttg ctacgtacta ctgtgctcag ggtgcggcgt tgcctaggac gttcggccaa 480
gggaccaagg tggaatcaa acgg                                     504
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<210> 14

<211> 489

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 14

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ttatttattg agtggcttaa gaacggagga ccaagtagcg gggcacctcc gccatcgggt 120
ggtggaggcg gttcaggcgg aggtggcagc ggcggtggcg ggtcggacat ccagatgacc 180
cagtcctcat cctccctgtc tgcattctga ggagaccgtg tcaccatcac ttgccgggca 240
agtcagtga tggtgtctca gttatcttg taccagcaga aaccaggga agcccctaag 300
ctcctgatca tgtggcgttc ctggtgcaa agtgggggtcc catcacgtt cagtggcagt 360
ggatctggga cagatttcac tctaccatc agcagctgc aacctgaaga tttgctacg 420
tactactgtg ctacgggtgc ggcgttcct aggacgttc gccaaaggac caaggtggaa 480
atcaaacgg                                     489
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<210> 15

<211> 495

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 15

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ctgtcatcg agtggctgaa aaacggtggt ccgtctctg gtgtccgcc accgtctggt 120
ggtggtggtg gttctggtgg tgggtgttct ggtggtggcg gtagcgacat ccagatgact 180
cagtcccca gctctctgtc tgcctccgtt ggcatcgtg ttacgatcac gtgccgtgct 240
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tctcagtgga tcggttccca gctgtcctgg tatcagcaga aaccgggcaa agccccgaaa 300  
 ctctgatca tgtggcgtag ctctctgcag tctgggtgac cgagccgctt ctctggttct 360  
 ggttctggta ccgacttcac cctgaccatt tcctctctgc agccggaaga ttctgcgacc 420  
 tactactgtg ctacgggtgc ggcactgcc aactctcttg gccagggtag gaaagtcgag 480  
 attaaacgtt aatga 495

<210> 16

<211> 444

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 16

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 ttattattg agtggcttaa gaacggagga ccaagtagcg gggcacctcc gccatcgggt 120  
 gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctgtaggaga ccgtgtcacc 180  
 atcacttgcc gggcaagtca gtggattggg tctcagttat ctgtgtacca gcagaaacca 240  
 gggaaagccc ctaagctcct gatcatgtgg cgttcctcgt tgcaaagtgg ggtcccatca 300  
 cgtttcagtg gcagtggatc tgggacagat ttactctca ccatcagcag tctgcaacct 360  
 gaagatttg ctacgtacta ctgtctcag ggtgcggcgt tgcctaggac gttcggccaa 420  
 gggaccaagg tggaaatcaa acgg 444

<210> 17

<211> 447

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 17

cacggtgaag gtaccttcac ctctgacctg agcaaacaga tggaggaaga agcgggtcgt 60  
 ctgttcacg agtggctgaa aaacgggtgg cgtctctg gtgtccgcc accgtctgac 120  
 atccagatga ctacgtcccc aagctctctg tctgcctccg ttggcgatcg tttacgac 180  
 acgtgccgtg ctctcagtg gatcggttcc cagctgtcct ggtatcagca gaaaccgggc 240  
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 ttctctggtt ctggttctgg taccgacttc accctgacca ttctctct gcagccggaa 360  
 gatttcgca cctactactg tgctcagggt gcggcactgc cagctacttt tggccagggt 420  
 acgaaagtcg agattaaacg ttaatga 447

<210> 18

<211> 564

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 18

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ttatttattg agtggcttaa gaacggagga ccaagtagcg gggcacctcc gccatcgggt 120  
aaagaagcgg cggcgaaaga agcggcgggc aaagaagcgg cggcgaaaga attggccgca 180  
aaagaagcgg cggcgaaaga agcggcgggc aaagaagcgg cggcgaaaga attggccgca 240  
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga ccgtgtcacc 300  
atcacttgcc gggcaagtca gtggattggg tctcagttat ctggtacca gcagaaacca 360  
gggaaagccc ctaagctcct gatcatgtgg cgttcctcgt tgcaaagtgg ggtcccatca 420  
cgttcagtg gcagtggatc tgggacagat ttactctca ccatcagcag tctgcaacct 480  
gaagatttg ctacgtacta ctgtgctcag ggtgcggcgt tgctaggac gttcggccaa 540  
gggaccaagg tggaatcaa acgg 564

<210> 19

<211> 567

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 19

cacggtgaag gtaccttcac ctctgacctg agcaaacaga tggaggaaga agcggttcgt 60  
ctgttcacg agtggctgaa aaacgggtgg cgtcttctg gtgtccgcc accgtctaaa 120  
gaagcggcgg cgaaagaagc ggcggcgaaa gaagcggcgg cgaaagaatt ggccgcaaaa 180  
gaagcggcgg cgaaagaagc ggcggcgaaa gaagcggcgg cgaaagaatt ggccgcagac 240  
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acgtgccgtg ctctcagtg gatcggtcc cagctgtcct ggtatcagca gaaaccgggc 360  
aaagccccga aactcctgat catgtggcgt agctctctgc agtctggtgt accgagccgc 420  
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gatttcgca cctactactg tgctcagggt gcggcactgc cagctacttt tggcagggt 540  
acgaaagtcg agattaaacg ttaatga 567

<210> 20

<211> 459

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 20

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gaattcattg ctgggtggg gaaaggccga ggtggaggcg gttcaggcgg aggtggcagc 120  
ggcgggtggcg ggtcggacat ccagatgacc cagtctccat cctccctgtc tgcattctga 180  
ggagaccgtg tcaccatcac ttgccgggca agtcagtga ttgggtctca gttatcttg 240  
taccagcaga aaccagggaa agcccctaag ctctgatca tgtggcgttc ctggtgcaa 300  
agtggggccc catcacgtt cagtggcagt ggtatcggga cagatttcac tctaccatc 360  
agcagctcgc aacctgaaga tttgctacg tactactgtg ctcagggtgc ggcgtgcct 420

aggacgttcg gccaaaggac caaggtggaa atcaaacgg

459

<210> 21

<211> 426

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 21

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gaattcattg ctggctggt gaaaggccga ggaccaagct cggacatcca gatgaccag 120  
tctccatcct cctgtctgc atctgtagga gaccgtgtca ccatcacttg ccgggcaagt 180  
cagtggattg ggtctcagtt atcttggtac cagcagaaac cagggaaagc ccctaagctc 240  
ctgatcatgt ggcgttcctc gtgcaaagt ggggtcccat cacgtttcag tggcagtggg 300  
tctgggacag atttactct caccatcagc agtctgcaac ctgaagatt tgctacgtac 360  
tactgtgctc aggggtcggc gtgcctagg acgttcggcc aagggaccaa ggtggaaatc 420  
aaacgg 426

<210> 22

<211> 537

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 22

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gcgaaagaag cggcggcgaa agaattggcc gcaaaagaag cggcggcgaa agaagcggcg 180  
gcgaaagaag cggcggcgaa agaattggcc gcagacatcc agatgaccca gtctccatcc 240  
tccctgtctg catctgtagg agaccgtgtc accatcactt gccgggcaag tcagtggatt 300  
gggtctcagt tatcttggtg ccagcagaaa ccagggaaag cccctaagct cctgatcatg 360  
tggcgttcct cgttgcaaag tgggggtcca tcacgtttca gtggcagtgg atctgggaca 420  
gatttcactc tcaccatcag cagtctgcaa cctgaagatt tgctacgta ctactgtgct 480  
caggggtcgg cggtgcctag gacgttcggc caagggacca aggtggaaat caaacgg 537

<210> 23

<211> 324

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial Sequence derived from Homo sapiens sequence

<400> 23

gacatccaga tgaccacgtc tccatcctcc ctgtctgcat ctgtaggaga ccgtgtcacc 60

atcacttgcc gggcaagtca gtggattggg tctcagttat cttggtacca gcagaaacca 120  
gggaaagccc ctaagctcct gatcatgtgg cgttcctcgt tgcaaagtgg ggtcccatca 180  
cgtttcagtg gcagtggatc tgggacagat ttcacttca ccatcagcag tctgcaacct 240  
gaagatttg ctacgtacta ctgtgctcag ggtgcggcgt tgcctaggac gtcgggcaa 300  
gggaccaagg tggaatcaa acgg 324