

SEQUENCE LISTING

<110> GENOMIX CO., LTD.
OSAKA UNIVERSITY

<120> Agent for recruitment of bone-marrow-derived pluripotent stem cell into peripheral circulation

<130> G6-A0801P

<150> JP 2008-119348

<151> 2008-04-30

<160> 18

<170> PatentIn version 3.4

<210> 1

<211> 215

<212> PRT

<213> Homo sapiens

<400> 1

Met	Gly	Lys	Gly	Asp	Pro	Lys	Lys	Pro	Arg	Gly	Lys	Met	Ser	Ser	Tyr
1				5					10					15	

Ala	Phe	Phe	Val	Gln	Thr	Cys	Arg	Glu	Glu	His	Lys	Lys	Lys	His	Pro
			20					25						30	

Asp	Ala	Ser	Val	Asn	Phe	Ser	Glu	Phe	Ser	Lys	Lys	Cys	Ser	Glu	Arg
		35					40					45			

Trp Lys Thr Met Ser Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala
 50 55 60

Lys Ala Asp Lys Ala Arg Tyr Glu Arg Glu Met Lys Thr Tyr Ile Pro
 65 70 75 80

Pro Lys Gly Glu Thr Lys Lys Lys Phe Lys Asp Pro Asn Ala Pro Lys
 85 90 95

Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg Pro Lys
 100 105 110

Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala Lys Lys
 115 120 125

Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln Pro Tyr
 130 135 140

Glu Lys Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Ile Ala
 145 150 155 160

Ala Tyr Arg Ala Lys Gly Lys Pro Asp Ala Ala Lys Lys Gly Val Val
 165 170 175

Lys Ala Glu Lys Ser Lys Lys Lys Lys Glu Glu Glu Glu Asp Glu Glu
 180 185 190

Asp Glu Glu Asp Glu Glu Glu Glu Glu Asp Glu Glu Asp Glu Asp Glu
 195 200 205

Glu Glu Asp Asp Asp Asp Glu
 210 215

<210> 2

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2

atgggcaaag gagatcctaa gaagccgaga ggcaaaatgt catcatatgc attttttgtg	60
caaacttgtc gggaggagca taagaagaag caccagatg cttcagtcaa cttctcagag	120
ttttctaaga agtgctcaga gaggtggaag accatgtctg ctaaagagaa aggaaaattt	180
gaagatatgg caaaagcgga caaggccgt tatgaaagag aaatgaaaac ctatatccot	240
cccaaagggg agacaaaaa gaagttcaag gatcccaatg cacccaagag gcctccttcg	300
gccttcttcc tcttctgctc tgagtatcgc ccaaaaatca aaggagaaca tcctggcctg	360
tcatttggtg atgttgcgaa gaaactggga gagatgtgga ataacactgc tgcagatgac	420
aagcagcctt atgaaaagaa ggctgcgaag ctgaaggaaa aatacgaaaa ggatattgct	480
gcatatcgag ctaaaggaaa gcctgatgca gcaaaaagg gagttgtcaa ggctgaaaaa	540
agcaagaaaa agaaggaaga ggaggaagat gaggaagatg aagaggatga ggaggaggag	600
gaagatgaag aagatgaaga tgaagaagaa gatgatgatg atgaataa	648

<210> 3
 <211> 215
 <212> PRT
 <213> Mus musculus

<400> 3

Met Gly Lys Gly Asp Pro Lys Lys Pro Arg Gly Lys Met Ser Ser Tyr
 1 5 10 15

Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys His Pro
 20 25 30

Asp Ala Ser Val Asn Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg
 35 40 45

Trp Lys Thr Met Ser Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala
 50 55 60

Lys Ala Asp Lys Ala Arg Tyr Glu Arg Glu Met Lys Thr Tyr Ile Pro
 65 70 75 80

Pro Lys Gly Glu Thr Lys Lys Lys Phe Lys Asp Pro Asn Ala Pro Lys
 85 90 95

Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg Pro Lys
 100 105 110

Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala Lys Lys
 115 120 125

Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln Pro Tyr
 130 135 140

Glu Lys Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Ile Ala
 145 150 155 160

Ala Tyr Arg Ala Lys Gly Lys Pro Asp Ala Ala Lys Lys Gly Val Val
 165 170 175

Lys Ala Glu Lys Ser Lys Lys Lys Lys Glu Glu Glu Asp Asp Glu Glu
 180 185 190

Asp Glu Glu Asp Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu Asp Glu
 195 200 205

Glu Glu Asp Asp Asp Asp Glu
 210 215

<210> 4
 <211> 648
 <212> DNA
 <213> Mus musculus

<400> 4

atgggcaaag gagatcctaa aaagccgaga ggcaaaatgt cctcatatgc attctttgtg 60

```

caaacttgcc gggaggagca caagaagaag cacccgatg cttctgtcaa cttctcagag   120
ttctccaaga agtgctcaga gaggtggaag accatgtctg ctaaagaaaa ggggaaattt   180
gaagatatgg caaaggctga caaggctcgt tatgaaagag aaatgaaaac ctacatcccc   240
cccaaagggg agaccaaaaa gaagttcaag gacccaatg caccaagag gcctccttgc   300
gccttcttct tgttctgttc tgagtaccgc cccaaaatca aaggcgagca tcctggotta   360
tccattggtg atgttgcaaa gaaactagga gagatgtgga acaacactgc agcagatgac   420
aagcagccct atgagaagaa agctgccaag ctgaaggaga agtatgagaa ggatattgct   480
gcctacagag ctaaaggaaa acctgatgca gcgaaaaagg ggttggtcaa ggctgaaaag   540
agcaagaaaa agaaggaaga ggaagatgat gaggaggatg aagaggatga ggaagaggag   600
gaagaagagg aagacgaaga tgaagaagaa gatgatgatg atgaataa               648

```

<210> 5

<211> 215

<212> PRT

<213> Rattus norvegicus

<400> 5

```

Met Gly Lys Gly Asp Pro Lys Lys Pro Arg Gly Lys Met Ser Ser Tyr
1           5           10           15

```

```

Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys His Pro
      20           25           30

```

Asp Ala Ser Val Asn Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg
 35 40 45

Trp Lys Thr Met Ser Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala
 50 55 60

Lys Ala Asp Lys Ala Arg Tyr Glu Arg Glu Met Lys Thr Tyr Ile Pro
 65 70 75 80

Pro Lys Gly Glu Thr Lys Lys Lys Phe Lys Asp Pro Asn Ala Pro Lys
 85 90 95

Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg Pro Lys
 100 105 110

Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala Lys Lys
 115 120 125

Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln Pro Tyr
 130 135 140

Glu Lys Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Ile Ala
 145 150 155 160

Ala Tyr Arg Ala Lys Gly Lys Pro Asp Ala Ala Lys Lys Gly Val Val
 165 170 175

Lys Ala Glu Lys Ser Lys Lys Lys Lys Glu Glu Glu Asp Asp Glu Glu
 180 185 190

Asp Glu Glu Asp Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu Asp Glu
 195 200 205

Glu Glu Asp Asp Asp Asp Glu
 210 215

<210> 6

<211> 648

<212> DNA

<213> Rattus norvegicus

<400> 6

atgggcaaag gagatcctaa gaagccgaga ggcaaaatgt cctcatatgc attctttgtg	60
caaacctgcc gggaggagca caagaagaag cacccgatg cttctgtcaa cttctcagag	120
ttctccaaga agtgctcaga gaggtggaag accatgtctg ctaaagaaaa ggggaaattt	180
gaagatatgg caaaggctga caaggctcgt tatgaaagag aaatgaaaac ctacatcccc	240
cccaaagggg agaccaaaaa gaagttcaag gacccaatg cccccaagag gcctccttcg	300
gccttctttct tgttctgttc tgagtaccgc ccaaaaatca aaggcgagca tcctggctta	360
tccattgggtg atgttgcgaa gaaactagga gagatgtgga acaacactgc tgcggatgac	420
aagcagccct atgaaaagaa ggccgccaag ctgaaggaga agtatgagaa ggatattgct	480
gcctacagag ctaaaggaaa acctgatgca gcgaaaaagg ggggtgtcaa ggctgagaag	540

agcaagaaaa agaaggaaga ggaagacgac gaggaggatg aagaggatga ggaagaggag 600

gaagaggagg aagacgaaga tgaagaagaa gatgatgatg atgaataa 648

<210> 7

<211> 209

<212> PRT

<213> Homo sapiens

<400> 7

Met	Gly	Lys	Gly	Asp	Pro	Asn	Lys	Pro	Arg	Gly	Lys	Met	Ser	Ser	Tyr
1				5					10					15	

Ala	Phe	Phe	Val	Gln	Thr	Cys	Arg	Glu	Glu	His	Lys	Lys	Lys	His	Pro
			20					25					30		

Asp	Ser	Ser	Val	Asn	Phe	Ala	Glu	Phe	Ser	Lys	Lys	Cys	Ser	Glu	Arg
		35					40					45			

Trp	Lys	Thr	Met	Ser	Ala	Lys	Glu	Lys	Ser	Lys	Phe	Glu	Asp	Met	Ala
	50					55					60				

Lys	Ser	Asp	Lys	Ala	Arg	Tyr	Asp	Arg	Glu	Met	Lys	Asn	Tyr	Val	Pro
65					70					75				80	

Pro	Lys	Gly	Asp	Lys	Lys	Gly	Lys	Lys	Lys	Asp	Pro	Asn	Ala	Pro	Lys
				85					90					95	

Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu His Arg Pro Lys
 100 105 110

Ile Lys Ser Glu His Pro Gly Leu Ser Ile Gly Asp Thr Ala Lys Lys
 115 120 125

Leu Gly Glu Met Trp Ser Glu Gln Ser Ala Lys Asp Lys Gln Pro Tyr
 130 135 140

Glu Gln Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Ile Ala
 145 150 155 160

Ala Tyr Arg Ala Lys Gly Lys Ser Glu Ala Gly Lys Lys Gly Pro Gly
 165 170 175

Arg Pro Thr Gly Ser Lys Lys Lys Asn Glu Pro Glu Asp Glu Glu Glu
 180 185 190

Glu Glu Glu Glu Glu Asp Glu Asp Glu Glu Glu Glu Asp Glu Asp Glu
 195 200 205

Glu

<210> 8

<211> 630

<212> DNA

<213> Homo sapiens

<400> 8

```

atgggtaaag gagaccccaa caagccgcgg ggcaaaatgt cctcgtacgc cttcttcgtg      60
cagacctgcc gggaagagca caagaagaaa caccgcgact cttcgtcaa ttccgggaa      120
ttctccaaga agtggtcgga gagatggaag accatgtctg caaaggagaa gtogaagttt      180
gaagatatgg caaaaagtga caaagctcgc tatgacaggg agatgaaaaa ttacgttcct      240
cccaaagggtg ataagaaggg gaagaaaaag gacccaatg ctctaaaaag gccaccatct      300
gccttcttcc tgttttgctc tgaacatcgc ccaaagatca aaagtgaaca ccctggccta      360
tccattgggg atactgcaaa gaaattgggt gaaatgtggt ctgagcagtc agccaaagat      420
aaacaaccat atgaacagaa agcagctaag ctaaaggaga aatatgaaaa ggatattgct      480
gcatatcgtg ccaagggcaa aagtgaagca ggaaagaagg gccctggcag gccaacaggc      540
tcaaagaaga agaacgaacc agaagatgag gaggaggagg aggaagaaga agatgaagat      600
gaggaggaag aggatgaaga tgaagaataa                                     630

```

<210> 9

<211> 210

<212> PRT

<213> Mus musculus

<400> 9

```

Met Gly Lys Gly Asp Pro Asn Lys Pro Arg Gly Lys Met Ser Ser Tyr
1           5           10           15

```

Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys His Pro
 20 25 30

Asp Ser Ser Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
 35 40 45

Trp Lys Thr Met Ser Ala Lys Glu Lys Ser Lys Phe Glu Asp Leu Ala
 50 55 60

Lys Ser Asp Lys Ala Arg Tyr Asp Arg Glu Met Lys Asn Tyr Val Pro
 65 70 75 80

Pro Lys Gly Asp Lys Lys Gly Lys Lys Lys Asp Pro Asn Ala Pro Lys
 85 90 95

Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu Asn Arg Pro Lys
 100 105 110

Ile Lys Ile Glu His Pro Gly Leu Ser Ile Gly Asp Thr Ala Lys Lys
 115 120 125

Leu Gly Glu Met Trp Ser Glu Gln Ser Ala Lys Asp Lys Gln Pro Tyr
 130 135 140

Glu Gln Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Ile Ala
 145 150 155 160

Ala Tyr Arg Ala Lys Gly Lys Ser Glu Ala Gly Lys Lys Gly Pro Gly
 165 170 175

Arg Pro Thr Gly Ser Lys Lys Lys Asn Glu Pro Glu Asp Glu Glu Glu
 180 185 190

Glu Glu Glu Glu Glu Glu Glu Glu Asp Asp Glu Glu Glu Glu Asp
 195 200 205

Glu Glu
 210

<210> 10

<211> 633

<212> DNA

<213> Mus musculus

<400> 10

atgggcaagg gtagcccaa caagccggg ggcaaatgt cctcgtagc ottottcgtg	60
cagacctgcc gcgaggagca caagaagaag catcccgact cgtcggtgaa cttcgccgag	120
ttctccaaga aatgctcga gagatggaag accatgtctg caaaggaaaa gtccaagttt	180
gaagatttgg ccaagagcga caaagctcgt tatgacagg agatgaagaa ctatgttcct	240
cccaaagggg ataagaaagg aaagaaaaaa gacccaatg ctccgaagag accaccgtct	300
gcotttttcc tgttttgctc tgaaaatcgc ccaaagatca aaattgaaca ccaggcctg	360
totattggag atactgcgaa gaaactgggt gagatgtggt ctgagcaatc tgccaaagat	420

```

aaacaaccgt atgagcagaa agcagctaaa ctaaaggaga agtatgaaaa ggatattgct 480
gcataaccgtg ccaagggcaa aagtgaagca ggaaagaagg gtcctggtag gccaacaggc 540
tcaaagaaga agaacgaacc agaagatgag gaggaggaag aagaggagga agaggaggaa 600
gatgacgagg aagaagagga ggatgaagaa taa 633

```

```

<210> 11
<211> 210
<212> PRT
<213> Rattus norvegicus

```

```

<400> 11

```

```

Met Gly Lys Gly Asp Pro Asn Lys Pro Arg Gly Lys Met Ser Ser Tyr
1           5           10           15

```

```

Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys His Pro
      20           25           30

```

```

Asp Ser Ser Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
      35           40           45

```

```

Trp Lys Thr Met Ser Ala Lys Glu Lys Ser Lys Phe Glu Asp Leu Ala
      50           55           60

```

```

Lys Ser Asp Lys Ala Arg Tyr Asp Arg Glu Met Lys Asn Tyr Val Pro
65           70           75           80

```

Pro Lys Gly Asp Lys Lys Gly Lys Lys Lys Asp Pro Asn Ala Pro Lys
 85 90 95

Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu His Arg Pro Lys
 100 105 110

Ile Lys Ser Glu His Pro Gly Leu Ser Ile Gly Asp Thr Ala Lys Lys
 115 120 125

Leu Gly Glu Met Trp Ser Glu Gln Ser Ala Lys Asp Lys Gln Pro Tyr
 130 135 140

Glu Gln Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Ile Ala
 145 150 155 160

Ala Tyr Arg Ala Lys Gly Lys Ser Glu Val Gly Lys Lys Gly Pro Gly
 165 170 175

Arg Pro Thr Gly Ser Lys Lys Lys Asn Glu Pro Glu Asp Glu Glu Glu
 180 185 190

Glu Glu Glu Glu Glu Asp Asp Glu Asp Glu Glu Glu Glu Asp Glu Asp
 195 200 205

Glu Glu
 210

<210> 12
 <211> 633
 <212> DNA
 <213> Rattus norvegicus

<400> 12
 atgggcaagg gggaccccaa caagccgagg ggcaagatgt cctcgtagc ottottcgtg 60
 cagacctgcc gggaggagca caagaagaag catcccgact cgtcgggtcaa ttccgccgag 120
 ttctcgaaga aatgttcgga gagatggaag accatgtctg ccaaggaaaa gtogaagttt 180
 gaggatttgg ccaagagcga caaagctcgt tatgacaggg agatgaagaa ctatgttctt 240
 cccaaaggtg ataagaaagg aaagaaaaaa gatccaaatg ctcccaagag accaccgtct 300
 gccttcttcc tgttttgctc tgaacatgc ccaaagatca aaagtgaaca ccccggcctg 360
 tctattggag atactgcaaa gaaactgggg gagatgtggt ctgagcaatc tgccaaagat 420
 aaacaaccgt atgagcagaa agcagctaaa ctaaaggaga agtatgaaaa ggatattgct 480
 gcataccgtg ccaagggcaa aagtgaagta ggaaagaagg gtcttggttag gccaacaggc 540
 tcaaagaaga agaatgaacc agaagatgag gaagaggagg aggaggaaga agatgatgaa 600
 gatgaagagg aggaagatga ggatgaagaa taa 633

<210> 13
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 13

Met Ala Lys Gly Asp Pro Lys Lys Pro Lys Gly Lys Met Ser Ala Tyr
 1 5 10 15

Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys Asn Pro
 20 25 30

Glu Val Pro Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
 35 40 45

Trp Lys Thr Met Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
 50 55 60

Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro
 65 70 75 80

Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro
 85 90 95

Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
 100 105 110

Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
 115 120 125

Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr
 130 135 140

Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr
 145 150 155 160

Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala
 165 170 175

Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu Glu
 180 185 190

Glu Glu Glu Glu Glu Glu Asp Glu
 195 200

<210> 14
 <211> 603
 <212> DNA
 <213> Homo sapiens

<400> 14
 atggctaaag gtagcccaa gaaaccaaag ggcaagatgt cgcattatgc cttctttgtg 60
 cagacatgca gagaagaaca taagaagaaa aaccagagg tccctgtcaa ttttgoggaa 120
 tttccaaga agtgctctga gaggtggaag acgatgtccg ggaaagagaa atctaaattt 180
 gatgaaatgg caaaggcaga taaagtgcgc tatgatcggg aaatgaagga ttatggacca 240
 gctaagggag gcaagaagaa gaagatcct aatgctcca aaaggccacc gtctggattc 300
 ttctgtttct gttcagaatt cgcaccaag atcaaatcca caaaccocgg catctctatt 360
 ggagacgtgg caaaaaagct gggtagatg tggaataatt taaatgacag tgaaaagcag 420

ccttacatca ctaaggcggc aaagctgaag gagaagtatg agaaggatgt tgctgactat 480
 aagtcgaaag gaaagtttga tgggtgcaaag ggtcctgcta aagttgcccg gaaaaaggtg 540
 gaagaggaag atgaagaaga ggaggaggaa gaagaggagg aggaggagga ggaggatgaa 600
 taa 603

<210> 15
 <211> 200
 <212> PRT
 <213> Mus musculus

<400> 15

Met Ala Lys Gly Asp Pro Lys Lys Pro Lys Gly Lys Met Ser Ala Tyr
 1 5 10 15

Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys Asn Pro
 20 25 30

Glu Val Pro Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
 35 40 45

Trp Lys Thr Met Ser Ser Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
 50 55 60

Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro
 65 70 75 80

Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro
 85 90 95

Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
 100 105 110

Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
 115 120 125

Glu Met Trp Asn Asn Leu Ser Asp Asn Glu Lys Gln Pro Tyr Val Thr
 130 135 140

Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr
 145 150 155 160

Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala
 165 170 175

Arg Lys Lys Val Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu
 180 185 190

Glu Glu Glu Glu Glu Glu Asp Glu
 195 200

<210> 16

<211> 603

<212> DNA

<213> Mus musculus

<400> 16

atggcctaag gtgaccccaa gaaaccaaag ggcaagatgt ctgcttatgc cttctttgtg 60
 cagacatgca gggaagaaca taagaagaaa aaccagagg ttcccgtaa ttttgctgag 120
 ttctccaaga agtgctcgga gaggtggaag accatgtota gcaaagagaa atcaaagttt 180
 gatgaaatgg caaaggcaga taaagtccga tatgatcgga agatgaaaga ttatggacca 240
 gctaaaggag gcaagaagaa gaaggaccca aatgccccca aaagacctcc gtctggattt 300
 ttcttattct gctctgaatt ccgccccaa atcaaatcca caaacctgg catctccatt 360
 ggagatgtgg caaaaaagct gggtgagatg tggaataact taagtgaca tgaaaagcag 420
 ccttatgtca ccaaggcagc aaagctgaag gagaagtatg agaaggatgt tgctgactat 480
 aagtctaaag ggaagtttga tggtgccaag ggtcctgcta aagttgcccg gaaaaaggtg 540
 gaagaagagg aagaggagga ggaagaggaa gaagaggagg aggaagagga ggaagatgaa 600
 taa 603

<210> 17

<211> 63

<212> DNA

<213> Artificial

<220>

<223> An artificially synthesized nucleotide sequence

<400> 17

atgcagacag acacactcct gctatgggta ctgctgctgt gggttcagg ttccactggt 60

gac

63

<210> 18

<211> 7

<212> PRT

<213> Artificial

<220>

<223> An artificially synthesized peptide sequence

<400> 18

Asp Tyr Lys Asp Asp Asp Lys

1

5