

SEQUENCE LISTING

<110> Macdonald, Lynn
 McWhhirter, John
 Gurer, Cagan
 Hosiawa, Karolina A.
 Murphy, Andrew J.

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 Mice

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<150> 61/597,969

<151> 2012-02-13

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<400> 33
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 35 40 45
 Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
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 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
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 35 40 45

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 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
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<220>
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 20 25 30
 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
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gcacagaagt tccagggcag agtcacgatt accgcggaca aatccacgag cacagcctac 240
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<213> Homo sapiens

<220>
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
20 25 30
Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
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<213> Homo sapiens

<220>
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<400> 43
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
20 25 30

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65					70					75					80
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 gcacagaagt tccagggcag agtcacgatt accgcggaca aatccacgag cacagcctac 240
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 <212> PRT
 <213> Homo sapiens

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		20					25					30			
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	35					40					45				
Gly	Gly	Ile	Ile	Pro	Ile	Phe	Gly	Thr	Ala	Asn	Tyr	Ala	Gln	Lys	Phe
	50					55				60					
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Lys	Ser	Thr	Ser	Thr	Ala	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														

<210> 46
 <211> 233
 <212> DNA
 <213> Homo sapiens

<220>

<223> synthetic

<400> 46

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atgctatcag ctgggtgcga caggcccctg gacaagggct tgagtggatg ggaaggatca 120
tccctatctt tggtagcaga aactacgcac agaagttcca gggcagagtc acgattaccg 180
cggacgaatc cacgagcaca gcctacatgg agctgagcag cctgagatct gag          233
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<210> 47

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<223> synthetic

<400> 47

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Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr
 1              5              10              15
Phe Ser Ser Tyr Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly
          20              25              30
Leu Glu Trp Met Gly Arg Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr
          35              40              45
Ala Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr
          50              55              60
Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu
65              70              75
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<210> 48

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<223> synthetic

<400> 48

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tcctgcaagg cttctggagg caccttcagc agctatacta tcagctgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggaagg atcatcccta tccttggtac agcaaactac 180
gcacagaagt tccagggcag agtcacgatt accgcggaca aatccacgag cacagcctac 240
atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaga      296
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<210> 49

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<223> synthetic

<400> 49

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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1              5              10              15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
          20              25              30
Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
```

	35					40					45						
Gly	Arg	Ile	Ile	Pro	Ile	Leu	Gly	Thr	Ala	Asn	Tyr	Ala	Gln	Lys	Phe		
	50					55					60						
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Lys	Ser	Thr	Ser	Thr	Ala	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																

<210> 50
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <223> synthetic

<400> 50
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 tcctgcaagg cttctggagg caccttcagc agctatgcta tcagctgggt gcgacaggcc 120
 cctggacaag ggcttgagtg gatgggaagg atcatcccta tccttggtat agcaaactac 180
 gcacagaagt tccagggcag agtcacgatt accgcggaaca aatccacgag cacagcctac 240
 atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaga 296

<210> 51
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <223> synthetic

<400> 51
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
 20 25 30
 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala 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

<210> 52
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <223> synthetic

<400> 52
caggtccagc tgggtgcagtc tggggctgag gtgaagaagc ctgggtcctc agtgaaggtc 60
tcctgcaagg cttctggagg caccttcagc agctatgcta tcagctgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggaggg atcatcccta tccttggtat agcaaaactac 180
gcacagaagt tccagggcag agtcacgatt accgcggaca aatccacgag cacagcctac 240
atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaga 296

<210> 53
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<223> synthetic

<400> 53
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
20 25 30
Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Gly Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala 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

<210> 54
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<223> synthetic

<400> 54
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tcctgcaagg cttctggagg caccttcagc agctatgcta tcagctgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggaagg atcatcccta tccttggtac agcaaaactac 180
gcacagaagt tccagggcag agtcacgatt accgcggacg aatccacgag cacagcctac 240
atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaga 296

<210> 55
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<223> synthetic

<400> 55
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

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

<210> 56
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <223> synthetic

<400> 56
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 tcctgcaagg cttctggagg caccttcagc agctatgcta tcagctgggt gcgacaggcc 120
 cctggacaag ggcttgagtg gatgggaggg atcatcccta tctttggtac agcaaactac 180
 gcacagaagt tccagggcag agtcacgatt accgcggacg aatccacgag cacagcctac 240
 atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaga 296

<210> 57
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <223> synthetic

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

<210> 58
 <211> 296
 <212> DNA

<213> Homo sapiens

<220>

<223> synthetic

<400> 58

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tcctgcaagg cttctggagg caccttcagc agctatgcta tcagctgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggaggg atcatcccta tctttggtac agcaaactac 180
gcacagaagt tccagggcag agtcacgatt accgcggacg aatccacgag cacagcctac 240
atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaga      296
```

<210> 59

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<223> synthetic

<400> 59

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

<210> 60

<211> 305

<212> DNA

<213> Homo sapiens

<220>

<223> synthetic

<400> 60

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cagtgaaggt ctcttgcaag gcttctggat acaccttcac cggctactat atgcactggg 120
tgcgacaggc ccttggaaca gggcttgagt ggatgggacg gatcaaccct aacagtgggtg 180
gcacaaacta tgcacagaag tttcagggca gggtcaccag taccagggac acgtccatca 240
gcacagccta catggagctg agcaggctga gatctgacga cacggtcgtg tattactgtg 300
cgaga      305
```

<210> 61

<211> 98

<212> PRT

<213> Homo sapiens

<220>
<223> synthetic

<400> 61
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 Gly Tyr
20 25 30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Ser Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Val Val Tyr Tyr Cys
85 90 95
Ala Arg

<210> 62
<211> 307
<212> DNA
<213> Homo sapiens

<220>
<223> synthetic

<400> 62
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cagtgaaggt ctcttgcaag gcttctggat acaccttcac cggctactat atgcactggg 120
tgcgacaggc ccttggaaca gggcttgagt ggatgggatg gatcaaccct aacagtgggtg 180
gcacaaacta tgcacagaag tttcagggca gggtcaccat gaccaggac acgtccatca 240
gcacagccta catggagctg agcaggctga gatctgacga cacggccgtg tattactgtg 300
cgagaga 307

<210> 63
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<223> synthetic

<400> 63
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 Gly Tyr
20 25 30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg

<210> 64
 <211> 307
 <212> DNA
 <213> Homo sapiens

<220>
 <221> variation
 <222> (124)...(124)
 <223> n=a, g, t, or c

<400> 64
 gagcccaactc ccaggtgcag ctggtgcagt ctggggctga ggtgaagaag cttggggcct 60
 cagtgaaggt ctcttgcaag gcttctggat acaccttcac cggctactat atgcactggg 120
 tgcnacaggc ccctggacaa gggcttgagt ggatgggatg gatcaaccct aacagtgggtg 180
 gcacaaacta tgcacagaag tttcagggca gggtcaccat gaccaggac acgtccatca 240
 gcacagccta catggagctg agcaggctga gatctgacga cacggccgtg tattactgtg 300
 cgagaga 307

<210> 65
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (38)...(38)
 <223> Xaa=any amino acid

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

<210> 66
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <223> synthetic

<400> 66
 caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtc 60

tcctgcaagg cttctggata caccttcacc ggctactata tgcactgggt gcgacaggcc 120
cctggacaag ggcttgagtg gatgggatgg atcaacccta acagtgggtg cacaaactat 180
gcacagaagt ttcagggctg ggtcaccatg accagggaca cgtccatcag cacagcctac 240
atggagctga gcaggctgag atctgacgac acggccgtgt attactgtgc gaga 294

<210> 67
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<223> synthetic

<400> 67
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 Gly Tyr
20 25 30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Trp Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg

<210> 68
<211> 346
<212> DNA
<213> Homo sapiens

<220>
<223> synthetic

<400> 68
aggatgtggg ttttcacact gtgtctctcg cacagtaata cacgaccgtg tcgtcagatc 60
tcagcctgct cagctccatg taggctgtgc tgatggacgt gtccctggtc atggtgaccc 120
tgccctgaaa cttctgtgca tagtttgtgc caccactgtt agggttgac cgtcccatcc 180
actcaagccc ttgtccaggg gcctgtcgca cccagtgcac atagtagccg gtgaagggtg 240
atccagaagc cttgcaggag accttcactg agggccccagg cttcttcacc tcagccccag 300
actgcaccag ctgcacctgg gagtggacac ctgtggagac tcgcga 346

<210> 69
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<223> synthetic

<400> 69
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 Gly Tyr

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

<210> 70
 <211> 150288
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic

<400> 70

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ttgagagatt tttcatacaa tatttattct gcaagcaaat ttcagggatt gaattaataa 180
aactgataca gaacttcctc tgtaggtatc tgtgtaaaaca tcaatttctg aatcagtgtt 240
gtaaatattt tggaacacac acacaaatca cattttatct ctacttttat ctctattttt 300
aaaaatgcc aaaaaactca ttttgtgcat gtagcatttt gaattccac catcaatgca 360
tgatagtctt tggttttcca cattcatatt gccatttatc attatgagaa ttgtgtgttt 420
taaccattct aatagggtgag taatgggtatc taatttttag ttaaatgcac atttccctaa 480
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cctacttgat tagaggacta tcaacctaac atattttggaa tacttctgta aaaagatgtg 960
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gaagattaaa attattttta gtgatatgca atggttcaga tatgacacaa ttaatttgtc 1920
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accca	aacag	tgtccac	att	agaga	ataaaa	aaatag	taaat	gggcag	atta	actctg	tgca	2880
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cactt	ctcat	gaaagg	cagc	tcatccc	ctg	ttccctc	cagg	ccctgg	cagag	gagccac	ccc	3060
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