

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

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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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 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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<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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 <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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agaagcctgg gtcctcggtg aaggtctcct gcaaggcttc tggaggcacc ttcagcagct 60
atgctatcag ctgggtgcga caggcccctg gacaagggct tgagtggatg ggaaggatca 120
tccctatctt tggtagcaga aactacgcac agaagttcca gggcagagtc acgattaccg 180
cggacgaatc cacgagcaca gcctacatgg agctgagcag cctgagatct gag          233
```

<210> 47

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<223> synthetic

<400> 47

```
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
```

<210> 48

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<223> synthetic

<400> 48

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caggtccagc tgggtgcaatc tggggctgag gtgaagaagc ctgggtcctc ggtgaaggtc 60
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
```

<210> 49

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<223> synthetic

<400> 49

```
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
 caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctgggtcctc ggtgaaggtc 60
 tcctgcaagg cttctggagg caccttcagc agctatgcta tcagctgggt gcgacaggcc 120
 cctggacaag ggcttgagtg gatgggaagg atcatcccta tccttggtat agcaaactac 180
 gcacagaagt tccagggcag agtcacgatt accgcggaca 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
caggtccagc tgggtgcagtc tggggctgag gtgaagaagc ctgggtcctc ggtgaaggtc 60
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
 caggtccagc tgggtgcagtc tggggctgag gtgaagaagc ctgggtcctc ggtgaaggtc 60
 tcctgcaagg cttctggagg caccttcagc agctatgcta tcagctgggt gcgacaggcc 120
 cctggacaag ggcttgagtg gatgggaggg atcatcccta tctttggtac agcaaaactac 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

```
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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gagcccactc ccaggtgcag ctggtgcagt ctggggctga ggtgaagaag cctggggcct 60
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
gagcccactc ccaggtgcag ctggtgcagt ctggggctga ggtgaagaag cctggggcct 60
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 gggtcacat 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

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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

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<400> 68
aggatgtggg ttttcacact gtgtctctcg cacagtaata cacgaccgtg tcgtcagatc 60
tcagcctgct cagctccatg taggctgtgc tgatggacgt gtccctggtc atggtgaccc 120
tgccctgaaa cttctgtgca tagtttgtgc caccactggt agggttgatc cgtcccatcc 180
actcaagccc ttgtccaggg gcctgtcgca cccagtgcac atagtagccg gtgaagggtg 240
atccagaagc cttgcaggag accttcactg aggcccccagg 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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gcgcgccctg gcatggagga aatgacaaag attattagat tgaagacttt ctcagaaaat 60
gatattaagt cattaaggaa aaggaacaat ataaacgtgt atttgagaaa ttttaattat 120
ttgagagatt tttcatacaa tatttattct gcaagcaaat ttcagggatt gaattaataa 180
aactgataca gaacttcctc tgtaggtatc tgtgtaaaaca tcaattttctg 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
taaaaaattc catttaacaa ttttcatata atttttgcca agatgcctct tctcatattt 540
ggttcatttt taactgcatt gttttctttt gatttagttgt aagtttactt gcatattgat 600
tataaaatca ttttaacaaat taaaagaatt catttaacaa atatgtgact tggaagtatt 660
ttctccaagt ctgcggtctgt cttttactcc cttatcagta tgtattgcag aaaagtgtgt 720
gtgtgtgtgt gtgtgtgtgt ttatacaaat ttagatttaa aaaatgtaaa atgttattca 780
tccacagatc atgtcttttg tattatatct gaaatctcat tataaaatac agtaatagca 840
attacttttt ccacgtctct aatctcaggc tacaatcaac tcatgagtgt ttaagcttca 900
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ttcctcttcc tattattttct ttatttgatc acttattaat atgtgtattg gtttatggat 1020
gtctatttca tactctgaag aagatccatg ctacattatt cattttattt ttcaaaccac 1080
cacggcttta ttatgtgctg ggagctcatt gagtttgat cctgcctcct tacagctcac 1140
ctcatgcttt tgtttttgaa cacttccttg tttcctgcta ttataataaa ttctaaactc 1200
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ctgatgttaa agaatagtat ttaaaaaatt gtaatactgg gtatgtgcat tgttaatgtg 1320
gtataagtac ttgcaggacc tctcaaccaa ctggcctagt aaactatgta tctaaccctc 1380
tgtaatgtga ttacattaaa aatgagaaca cactggctct tctacceaat tatgctacca 1440
catggatctt tctagccttc ctctcttgac tgtctataac ctctcactgc aaaatgagga 1500
accccatcca accatatgcc attttattac ttagctgcac aatttcagga cacatgcata 1560
gcagtatcag aaatgtaaaag ctgtaccctt gtaggaaaca tgtttatcta ctagaataga 1620
gtgcttatgt tcagtttctt tacactttta acttacagag tttcctcatt ttcaaagttc 1680
cttaggtcag caacttcatt ttccactttc ttcagtggag tcattttcaat gacactgtat 1740
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tagaggatat tcgaggagtt tagagactgg tataaaataa gttaaaaaga cactgtttta 1860
gaagattaaa attattttta gtgatatgca atggttcaga tatgacacaa ttaatttgtc 1920
taagcacata gttttgtgat ggaaaatata aacctaaata tatacaatta aaaaaaatt 1980
tagcagttca ttaacccaag gatcaaatgc agattgtata aaattatctc attacttatt 2040
ttgtgagggt ggagatttca tgagatgtat gcaacaaaga atgaggtaat tttcctgatt 2100
tgcataatag atgttgccat tcactaaaga cttttaattt tttaaattgt ttttttttta 2160

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aatcaat	ctatgtg	cagggtt	tctcttg	agcaaata	ccacagg	2220
at	cttggtt	aaatatt	ccaaact	gtcagtt	ggcatac	2280
gtccctg	gggcatt	cctcagat	gtacacac	ctgtcaac	gtggact	2340
ctgtcag	aacgcac	tactcac	gattctt	tcagacaa	acacatg	2400
ccacgtg	tctttc	gactacc	tatgtt	catttact	ttcctcag	2460
aacagac	tcctcat	gactctt	tcagaca	aaacatg	ccatgtg	2520
tcttcact	cataagt	catatgt	cattgact	ttccttac	aagtacat	2580
atccaat	gaattgt	gtggcaa	gatctca	taatgata	cataaac	2640
ctccctg	aggcatag	ctgtatt	ttcattg	cctaact	ccttatt	2700
aagaacag	gtttgcag	ctaaatata	caattag	cagggtg	ttttctc	2760
aaacgtat	ttatgtt	actggac	tttgttg	atgtttg	ttatgaag	2820
acccaacag	tgtccac	agagaata	aaatagta	gggcagat	actctgt	2880
tccagac	gaaatc	gaccttg	tcctgaa	gtagacac	aggatgg	2940
agcaatg	agcagtg	ccatgac	aaaaaga	acgtggaa	gtgtccc	3000
cacttct	gaaaggc	tcatccc	ttccctc	ccctggcg	gagccac	3060
atgtctg	ccttcct	tgtccac	gtggggt	cattgat	gattctc	3120
tcatccc	caatatt	gtccttc	aatcagg	agctgtg	tctcctc	3180
gggctgt	cagtctg	gctgtgt	cggaagt	gtgtgaag	tactgat	3240
gtcagagg	gaaaaa	acagccc	ggtgagac	tcctgcaa	cctctgg	3300
caccttt	ggttacag	tgagctt	ccagcac	tcacaac	gatagg	3360
ggtgccaa	gtgagtga	aagtatga	tctcagg	actttcc	agtacaa	3420
aattaaca	ctcaagca	acccttt	gtgcagt	ccttaca	accaatc	3480
aagccaag	caaggtcat	tattact	agtgcac	tgaggga	cctgtgt	3540
cccagaca	aagctcac	cagggag	ggagggg	atgtgg	tgctgct	3600
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