

SEQUENCE LISTING

<110> F. Hoffmann-La Roche AG

<120> Method for the generation of an FcRn expressing cell by targeted integration of multiple expression cassettes in a defined organization

<130> P35375-WO

<150> EP19166030.7

<151> 2019-03-29

<160> 32

<170> PatentIn version 3.5

<210> 1

<211> 15

<212> PRT

<213> Escherichia coli

<400> 1

Gly	Leu	Asn	Asp	Ile	Phe	Glu	Ala	Gln	Lys	Ile	Glu	Trp	His	Glu
1				5					10					15

<210> 2

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> HIS-AVITAG

<400> 2

His	His	His	His	His	His	His	His	His	His	Ile	Gly	Leu	Asn	Asp	Ile
1				5					10					15	

Phe	Glu	Ala	Gln	Lys	Ile	Glu	Trp	His	Glu
			20					25	

<210> 3

<211> 274

<212> PRT

<213> Homo sapiens

<400> 3

Ala Glu Ser His Leu Ser Leu Leu Tyr His Leu Thr Ala Val Ser Ser

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

Asp Phe Gly Pro Asn Ser Asp Gly Ser Phe His Ala Ser Ser Ser Leu
225 230 235 240

Thr Val Lys Ser Gly Asp Glu His His Tyr Cys Cys Ile Val Gln His
245 250 255

Ala Gly Leu Ala Gln Pro Leu Arg Val Glu Leu Glu Ser Pro Ala Lys
260 265 270

Ser Ser

<210> 4

<211> 302

<212> PRT

<213> Artificial Sequence

<220>

<223> hu a-FcRn w/ tag w/ leader

<400> 4

Ala Glu Ser His Leu Ser Leu Leu Tyr His Leu Thr Ala Val Ser Ser
1 5 10 15

Pro Ala Pro Gly Thr Pro Ala Phe Trp Val Ser Gly Trp Leu Gly Pro
20 25 30

Gln Gln Tyr Leu Ser Tyr Asn Ser Leu Arg Gly Glu Ala Glu Pro Cys
35 40 45

Gly Ala Trp Val Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
50 55 60

Thr Thr Asp Leu Arg Ile Lys Glu Lys Leu Phe Leu Glu Ala Phe Lys
65 70 75 80

Ala Leu Gly Gly Lys Gly Pro Tyr Thr Leu Gln Gly Leu Leu Gly Cys
85 90 95

Glu Leu Gly Pro Asp Asn Thr Ser Val Pro Thr Ala Lys Phe Ala Leu
100 105 110

Asn Gly Glu Glu Phe Met Asn Phe Asp Leu Lys Gln Gly Thr Trp Gly
115 120 125

Gly Asp Trp Pro Glu Ala Leu Ala Ile Ser Gln Arg Trp Gln Gln Gln
130 135 140

Asp Lys Ala Ala Asn Lys Glu Leu Thr Phe Leu Leu Phe Ser Cys Pro
145 150 155 160

His Arg Leu Arg Glu His Leu Glu Arg Gly Arg Gly Asn Leu Glu Trp
165 170 175

Lys Glu Pro Pro Ser Met Arg Leu Lys Ala Arg Pro Ser Ser Pro Gly
180 185 190

Phe Ser Val Leu Thr Cys Ser Ala Phe Ser Phe Tyr Pro Pro Glu Leu
195 200 205

Gln Leu Arg Phe Leu Arg Asn Gly Leu Ala Ala Gly Thr Gly Gln Gly
210 215 220

Asp Phe Gly Pro Asn Ser Asp Gly Ser Phe His Ala Ser Ser Ser Leu
225 230 235 240

Thr Val Lys Ser Gly Asp Glu His His Tyr Cys Cys Ile Val Gln His
245 250 255

Ala Gly Leu Ala Gln Pro Leu Arg Val Glu Leu Glu Ser Pro Ala Lys
260 265 270

Ser Ser Leu Glu His His His His His His His His His His Ile Gly
275 280 285

Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
290 295 300

<210> 5
<211> 290
<212> PRT
<213> Homo sapiens

<400> 5

Met Pro Leu Leu Leu Leu Leu Pro Leu Leu Trp Ala Gly Ala Leu Ala
1 5 10 15

Ala Glu Ser His Leu Ser Leu Leu Tyr His Leu Thr Ala Val Ser Ser
20 25 30

Pro Ala Pro Gly Thr Pro Ala Phe Trp Val Ser Gly Trp Leu Gly Pro
35 40 45

Gln Gln Tyr Leu Ser Tyr Asn Ser Leu Arg Gly Glu Ala Glu Pro Cys
50 55 60

Gly Ala Trp Val Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
65 70 75 80

Thr Thr Asp Leu Arg Ile Lys Glu Lys Leu Phe Leu Glu Ala Phe Lys
85 90 95

Ala Leu Gly Gly Lys Gly Pro Tyr Thr Leu Gln Gly Leu Leu Gly Cys
100 105 110

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

Asn Gly Glu Glu Phe Met Asn Phe Asp Leu Lys Gln Gly Thr Trp Gly
130 135 140

Gly Asp Trp Pro Glu Ala Leu Ala Ile Ser Gln Arg Trp Gln Gln Gln
145 150 155 160

Asp Lys Ala Ala Asn Lys Glu Leu Thr Phe Leu Leu Phe Ser Cys Pro
165 170 175

His Arg Leu Arg Glu His Leu Glu Arg Gly Arg Gly Asn Leu Glu Trp
180 185 190

Lys Glu Pro Pro Ser Met Arg Leu Lys Ala Arg Pro Ser Ser Pro Gly
195 200 205

Phe Ser Val Leu Thr Cys Ser Ala Phe Ser Phe Tyr Pro Pro Glu Leu
210 215 220

Gln Leu Arg Phe Leu Arg Asn Gly Leu Ala Ala Gly Thr Gly Gln Gly
225 230 235 240

Asp Phe Gly Pro Asn Ser Asp Gly Ser Phe His Ala Ser Ser Ser Leu
245 250 255

Thr Val Lys Ser Gly Asp Glu His His Tyr Cys Cys Ile Val Gln His
260 265 270

Ala Gly Leu Ala Gln Pro Leu Arg Val Glu Leu Glu Ser Pro Ala Lys
275 280 285

Ser Ser
290

<210> 6
<211> 318
<212> PRT
<213> Artificial Sequence

<220>
<223> hu a-FcRn w/ tag w/ leader

<400> 6

Met Pro Leu Leu Leu Leu Pro Leu Leu Trp Ala Gly Ala Leu Ala
1 5 10 15

Ala Glu Ser His Leu Ser Leu Leu Tyr His Leu Thr Ala Val Ser Ser
20 25 30

Pro Ala Pro Gly Thr Pro Ala Phe Trp Val Ser Gly Trp Leu Gly Pro
35 40 45

Gln Gln Tyr Leu Ser Tyr Asn Ser Leu Arg Gly Glu Ala Glu Pro Cys
50 55 60

Gly Ala Trp Val Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
65 70 75 80

Thr Thr Asp Leu Arg Ile Lys Glu Lys Leu Phe Leu Glu Ala Phe Lys
85 90 95

Ala Leu Gly Gly Lys Gly Pro Tyr Thr Leu Gln Gly Leu Leu Gly Cys
100 105 110

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

Asn Gly Glu Glu Phe Met Asn Phe Asp Leu Lys Gln Gly Thr Trp Gly
130 135 140

Gly Asp Trp Pro Glu Ala Leu Ala Ile Ser Gln Arg Trp Gln Gln Gln
145 150 155 160

Asp Lys Ala Ala Asn Lys Glu Leu Thr Phe Leu Leu Phe Ser Cys Pro
165 170 175

His Arg Leu Arg Glu His Leu Glu Arg Gly Arg Gly Asn Leu Glu Trp
180 185 190

Lys Glu Pro Pro Ser Met Arg Leu Lys Ala Arg Pro Ser Ser Pro Gly
195 200 205

Phe Ser Val Leu Thr Cys Ser Ala Phe Ser Phe Tyr Pro Pro Glu Leu
210 215 220

Gln Leu Arg Phe Leu Arg Asn Gly Leu Ala Ala Gly Thr Gly Gln Gly
225 230 235 240

Asp Phe Gly Pro Asn Ser Asp Gly Ser Phe His Ala Ser Ser Ser Leu
245 250 255

Thr Val Lys Ser Gly Asp Glu His His Tyr Cys Cys Ile Val Gln His
260 265 270

Ala Gly Leu Ala Gln Pro Leu Arg Val Glu Leu Glu Ser Pro Ala Lys
275 280 285

Ser Ser Leu Glu His His His His His His His His His His Ile Gly
290 295 300

Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
305 310 315

<210> 7
<211> 99
<212> PRT
<213> Homo sapiens

<400> 7

Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala Glu
1 5 10 15

Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His Pro
20 25 30

Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile Glu Lys
35 40 45

Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp Ser Phe Tyr Leu
50 55 60

Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu Lys Asp Glu Tyr Ala Cys
65 70 75 80

Arg Val Asn His Val Thr Leu Ser Gln Pro Lys Ile Val Lys Trp Asp
85 90 95

Arg Asp Met

<210> 8
<211> 119
<212> PRT
<213> Homo sapiens

<400> 8

Met Ser Arg Ser Val Ala Leu Ala Val Leu Ala Leu Leu Ser Leu Ser
1 5 10 15

Gly Leu Glu Ala Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg
20 25 30

His Pro Ala Glu Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser
35 40 45

Gly Phe His Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu
50 55 60

Arg Ile Glu Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp
65 70 75 80

Ser Phe Tyr Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu Lys Asp
85 90 95

Glu Tyr Ala Cys Arg Val Asn His Val Thr Leu Ser Gln Pro Lys Ile
100 105 110

Val Lys Trp Asp Arg Asp Met
115

<210> 9

<211> 274

<212> PRT

<213> Macaca fascicularis

<400> 9

Ala Glu Ser His Leu Ser Leu Leu Tyr His Leu Thr Ala Val Ser Ser
1 5 10 15

Pro Ala Pro Gly Thr Pro Ala Phe Trp Val Ser Gly Trp Leu Gly Pro
20 25 30

Gln Gln Tyr Leu Ser Tyr Asp Ser Leu Arg Gly Gln Ala Glu Pro Cys
35 40 45

Gly Ala Trp Val Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
50 55 60

Thr Thr Asp Leu Arg Ile Lys Glu Lys Leu Phe Leu Glu Ala Phe Lys
65 70 75 80

Ala Leu Gly Gly Lys Gly Pro Tyr Thr Leu Gln Gly Leu Leu Gly Cys

85

90

95

Glu Leu Ser Pro Asp Asn Thr Ser Val Pro Thr Ala Lys Phe Ala Leu
 100 105 110

Asn Gly Glu Glu Phe Met Asn Phe Asp Leu Lys Gln Gly Thr Trp Gly
 115 120 125

Gly Asp Trp Pro Glu Ala Leu Ala Ile Ser Gln Arg Trp Gln Gln Gln
 130 135 140

Asp Lys Ala Ala Asn Lys Glu Leu Thr Phe Leu Leu Phe Ser Cys Pro
 145 150 155 160

His Arg Leu Arg Glu His Leu Glu Arg Gly Arg Gly Asn Leu Glu Trp
 165 170 175

Lys Glu Pro Pro Ser Met Arg Leu Lys Ala Arg Pro Gly Asn Pro Gly
 180 185 190

Phe Ser Val Leu Thr Cys Ser Ala Phe Ser Phe Tyr Pro Pro Glu Leu
 195 200 205

Gln Leu Arg Phe Leu Arg Asn Gly Met Ala Ala Gly Thr Gly Gln Gly
 210 215 220

Asp Phe Gly Pro Asn Ser Asp Gly Ser Phe His Ala Ser Ser Ser Leu
 225 230 235 240

Thr Val Lys Ser Gly Asp Glu His His Tyr Cys Cys Ile Val Gln His
 245 250 255

Ala Gly Leu Ala Gln Pro Leu Arg Val Glu Leu Glu Thr Pro Ala Lys
 260 265 270

Ser Ser

<210> 10

<211> 302

<212> PRT

<213> Artificial Sequence

<220>

<223> cy a-FcRn w/ tag w/ leader

<400> 10

Ala Glu Ser His Leu Ser Leu Leu Tyr His Leu Thr Ala Val Ser Ser
1 5 10 15

Pro Ala Pro Gly Thr Pro Ala Phe Trp Val Ser Gly Trp Leu Gly Pro
20 25 30

Gln Gln Tyr Leu Ser Tyr Asp Ser Leu Arg Gly Gln Ala Glu Pro Cys
35 40 45

Gly Ala Trp Val Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
50 55 60

Thr Thr Asp Leu Arg Ile Lys Glu Lys Leu Phe Leu Glu Ala Phe Lys
65 70 75 80

Ala Leu Gly Gly Lys Gly Pro Tyr Thr Leu Gln Gly Leu Leu Gly Cys
85 90 95

Glu Leu Ser Pro Asp Asn Thr Ser Val Pro Thr Ala Lys Phe Ala Leu
100 105 110

Asn Gly Glu Glu Phe Met Asn Phe Asp Leu Lys Gln Gly Thr Trp Gly
115 120 125

Gly Asp Trp Pro Glu Ala Leu Ala Ile Ser Gln Arg Trp Gln Gln Gln
130 135 140

Asp Lys Ala Ala Asn Lys Glu Leu Thr Phe Leu Leu Phe Ser Cys Pro
145 150 155 160

His Arg Leu Arg Glu His Leu Glu Arg Gly Arg Gly Asn Leu Glu Trp
165 170 175

Lys Glu Pro Pro Ser Met Arg Leu Lys Ala Arg Pro Gly Asn Pro Gly
180 185 190

Phe Ser Val Leu Thr Cys Ser Ala Phe Ser Phe Tyr Pro Pro Glu Leu
195 200 205

Gln Leu Arg Phe Leu Arg Asn Gly Met Ala Ala Gly Thr Gly Gln Gly
210 215 220

Asp Phe Gly Pro Asn Ser Asp Gly Ser Phe His Ala Ser Ser Ser Leu
225 230 235 240

Thr Val Lys Ser Gly Asp Glu His His Tyr Cys Cys Ile Val Gln His
245 250 255

Ala Gly Leu Ala Gln Pro Leu Arg Val Glu Leu Glu Thr Pro Ala Lys
260 265 270

Ser Ser Leu Glu His His His His His His His His His Ile Gly
275 280 285

Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
290 295 300

<210> 11
<211> 290
<212> PRT
<213> *Macaca fascicularis*

<400> 11

Met Pro Leu Leu Leu Leu Pro Leu Leu Trp Ala Gly Ala Leu Ala
1 5 10 15

Ala Glu Ser His Leu Ser Leu Leu Tyr His Leu Thr Ala Val Ser Ser
20 25 30

Pro Ala Pro Gly Thr Pro Ala Phe Trp Val Ser Gly Trp Leu Gly Pro
35 40 45

Gln Gln Tyr Leu Ser Tyr Asp Ser Leu Arg Gly Gln Ala Glu Pro Cys
50 55 60

Gly Ala Trp Val Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
65 70 75 80

Thr Thr Asp Leu Arg Ile Lys Glu Lys Leu Phe Leu Glu Ala Phe Lys
85 90 95

Ala Leu Gly Gly Lys Gly Pro Tyr Thr Leu Gln Gly Leu Leu Gly Cys
100 105 110

Glu Leu Ser Pro Asp Asn Thr Ser Val Pro Thr Ala Lys Phe Ala Leu
115 120 125

Asn Gly Glu Glu Phe Met Asn Phe Asp Leu Lys Gln Gly Thr Trp Gly
130 135 140

Gly Asp Trp Pro Glu Ala Leu Ala Ile Ser Gln Arg Trp Gln Gln Gln
145 150 155 160

Asp Lys Ala Ala Asn Lys Glu Leu Thr Phe Leu Leu Phe Ser Cys Pro
165 170 175

His Arg Leu Arg Glu His Leu Glu Arg Gly Arg Gly Asn Leu Glu Trp
180 185 190

Lys Glu Pro Pro Ser Met Arg Leu Lys Ala Arg Pro Gly Asn Pro Gly
195 200 205

Phe Ser Val Leu Thr Cys Ser Ala Phe Ser Phe Tyr Pro Pro Glu Leu
210 215 220

Gln Leu Arg Phe Leu Arg Asn Gly Met Ala Ala Gly Thr Gly Gln Gly
225 230 235 240

Asp Phe Gly Pro Asn Ser Asp Gly Ser Phe His Ala Ser Ser Ser Leu
245 250 255

Thr Val Lys Ser Gly Asp Glu His His Tyr Cys Cys Ile Val Gln His
260 265 270

Ala Gly Leu Ala Gln Pro Leu Arg Val Glu Leu Glu Thr Pro Ala Lys
275 280 285

Ser Ser
290

<210> 12
<211> 318
<212> PRT
<213> Artificial Sequence

<220>
<223> cy a-FcRn w/ tag w/ leader

<400> 12

Met Pro Leu Leu Leu Leu Pro Leu Leu Trp Ala Gly Ala Leu Ala
1 5 10 15

Ala Glu Ser His Leu Ser Leu Leu Tyr His Leu Thr Ala Val Ser Ser
20 25 30

Pro Ala Pro Gly Thr Pro Ala Phe Trp Val Ser Gly Trp Leu Gly Pro
35 40 45

Gln Gln Tyr Leu Ser Tyr Asp Ser Leu Arg Gly Gln Ala Glu Pro Cys
50 55 60

Gly Ala Trp Val Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
65 70 75 80

Thr Thr Asp Leu Arg Ile Lys Glu Lys Leu Phe Leu Glu Ala Phe Lys
85 90 95

Ala Leu Gly Gly Lys Gly Pro Tyr Thr Leu Gln Gly Leu Leu Gly Cys
100 105 110

Glu Leu Ser Pro Asp Asn Thr Ser Val Pro Thr Ala Lys Phe Ala Leu
115 120 125

Asn Gly Glu Glu Phe Met Asn Phe Asp Leu Lys Gln Gly Thr Trp Gly
130 135 140

Gly Asp Trp Pro Glu Ala Leu Ala Ile Ser Gln Arg Trp Gln Gln Gln
145 150 155 160

Asp Lys Ala Ala Asn Lys Glu Leu Thr Phe Leu Leu Phe Ser Cys Pro
165 170 175

His Arg Leu Arg Glu His Leu Glu Arg Gly Arg Gly Asn Leu Glu Trp
180 185 190

Lys Glu Pro Pro Ser Met Arg Leu Lys Ala Arg Pro Gly Asn Pro Gly
195 200 205

Phe Ser Val Leu Thr Cys Ser Ala Phe Ser Phe Tyr Pro Pro Glu Leu
210 215 220

Gln Leu Arg Phe Leu Arg Asn Gly Met Ala Ala Gly Thr Gly Gln Gly
225 230 235 240

Asp Phe Gly Pro Asn Ser Asp Gly Ser Phe His Ala Ser Ser Ser Leu
245 250 255

Thr Val Lys Ser Gly Asp Glu His His Tyr Cys Cys Ile Val Gln His
260 265 270

Ala Gly Leu Ala Gln Pro Leu Arg Val Glu Leu Glu Thr Pro Ala Lys
275 280 285

Ser Ser Leu Glu His His His His His His His His His His Ile Gly
290 295 300

Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
305 310 315

<210> 13

<211> 95

<212> PRT

<213> Macaca fascicularis

<400> 13

Pro Lys Ile Gln Val Tyr Ser Arg His Pro Pro Glu Asn Gly Lys Pro
1 5 10 15

Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His Pro Ser Asp Ile Glu
20 25 30

Val Asp Leu Leu Lys Asn Gly Glu Lys Met Gly Lys Val Glu His Ser
35 40 45

Asp Leu Ser Phe Ser Lys Asp Trp Ser Phe Tyr Leu Leu Tyr Tyr Thr
50 55 60

Glu Phe Thr Pro Asn Glu Lys Asp Glu Tyr Ala Cys Arg Val Asn His
65 70 75 80

Val Thr Leu Ser Gly Pro Arg Thr Val Lys Trp Asp Arg Asp Met
85 90 95

<210> 14
<211> 119
<212> PRT
<213> Macaca fascicularis

<400> 14

Met Ser Pro Ser Val Ala Leu Ala Val Leu Ala Leu Leu Ser Leu Ser
1 5 10 15

Gly Leu Glu Ala Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg
20 25 30

His Pro Pro Glu Asn Gly Lys Pro Asn Phe Leu Asn Cys Tyr Val Ser
35 40 45

Gly Phe His Pro Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu
50 55 60

Lys Met Gly Lys Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp
65 70 75 80

Ser Phe Tyr Leu Leu Tyr Tyr Thr Glu Phe Thr Pro Asn Glu Lys Asp
85 90 95

Glu Tyr Ala Cys Arg Val Asn His Val Thr Leu Ser Gly Pro Arg Thr
100 105 110

Val Lys Trp Asp Arg Asp Met
115

<210> 15
<211> 276
<212> PRT
<213> Mus musculus

<400> 15

Ser Glu Thr Arg Pro Pro Leu Met Tyr His Leu Thr Ala Val Ser Asn
1 5 10 15

Pro Ser Thr Gly Leu Pro Ser Phe Trp Ala Thr Gly Trp Leu Gly Pro
20 25 30

Gln Gln Tyr Leu Thr Tyr Asn Ser Leu Arg Gln Glu Ala Asp Pro Cys
35 40 45

Gly Ala Trp Met Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
50 55 60

Thr Thr Asp Leu Lys Ser Lys Glu Gln Leu Phe Leu Glu Ala Leu Lys
65 70 75 80

Thr Leu Glu Lys Ile Leu Asn Gly Thr Tyr Thr Leu Gln Gly Leu Leu
85 90 95

Gly Cys Glu Leu Ala Ser Asp Asn Ser Ser Val Pro Thr Ala Val Phe
100 105 110

Ala Leu Asn Gly Glu Glu Phe Met Lys Phe Asn Pro Arg Ile Gly Asn
115 120 125

Trp Thr Gly Glu Trp Pro Glu Thr Glu Ile Val Ala Asn Leu Trp Met
130 135 140

Lys Gln Pro Asp Ala Ala Arg Lys Glu Ser Glu Phe Leu Leu Asn Ser
145 150 155 160

Cys Pro Glu Arg Leu Leu Gly His Leu Glu Arg Gly Arg Arg Asn Leu
165 170 175

Glu Trp Lys Glu Pro Pro Ser Met Arg Leu Lys Ala Arg Pro Gly Asn

180

185

190

Ser Gly Ser Ser Val Leu Thr Cys Ala Ala Phe Ser Phe Tyr Pro Pro
 195 200 205

Glu Leu Lys Phe Arg Phe Leu Arg Asn Gly Leu Ala Ser Gly Ser Gly
 210 215 220

Asn Cys Ser Thr Gly Pro Asn Gly Asp Gly Ser Phe His Ala Trp Ser
 225 230 235 240

Leu Leu Glu Val Lys Arg Gly Asp Glu His His Tyr Gln Cys Gln Val
 245 250 255

Glu His Glu Gly Leu Ala Gln Pro Leu Thr Val Asp Leu Asp Ser Ser
 260 265 270

Ala Arg Ser Ser
 275

<210> 16
 <211> 304
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> mu a-FcRn w/ tag w/ leader

<400> 16

Ser Glu Thr Arg Pro Pro Leu Met Tyr His Leu Thr Ala Val Ser Asn
 1 5 10 15

Pro Ser Thr Gly Leu Pro Ser Phe Trp Ala Thr Gly Trp Leu Gly Pro
 20 25 30

Gln Gln Tyr Leu Thr Tyr Asn Ser Leu Arg Gln Glu Ala Asp Pro Cys
 35 40 45

Gly Ala Trp Met Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
 50 55 60

Thr Thr Asp Leu Lys Ser Lys Glu Gln Leu Phe Leu Glu Ala Leu Lys

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

Ile Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
290 295 300

<210> 17
<211> 292
<212> PRT
<213> Mus musculus

<400> 17

Met Pro Leu Leu Leu Leu Pro Leu Leu Trp Ala Gly Ala Leu Ala
1 5 10 15

Ser Glu Thr Arg Pro Pro Leu Met Tyr His Leu Thr Ala Val Ser Asn
20 25 30

Pro Ser Thr Gly Leu Pro Ser Phe Trp Ala Thr Gly Trp Leu Gly Pro
35 40 45

Gln Gln Tyr Leu Thr Tyr Asn Ser Leu Arg Gln Glu Ala Asp Pro Cys
50 55 60

Gly Ala Trp Met Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
65 70 75 80

Thr Thr Asp Leu Lys Ser Lys Glu Gln Leu Phe Leu Glu Ala Leu Lys
85 90 95

Thr Leu Glu Lys Ile Leu Asn Gly Thr Tyr Thr Leu Gln Gly Leu Leu
100 105 110

Gly Cys Glu Leu Ala Ser Asp Asn Ser Ser Val Pro Thr Ala Val Phe
115 120 125

Ala Leu Asn Gly Glu Glu Phe Met Lys Phe Asn Pro Arg Ile Gly Asn
130 135 140

Trp Thr Gly Glu Trp Pro Glu Thr Glu Ile Val Ala Asn Leu Trp Met
145 150 155 160

Lys Gln Pro Asp Ala Ala Arg Lys Glu Ser Glu Phe Leu Leu Asn Ser
165 170 175

Cys Pro Glu Arg Leu Leu Gly His Leu Glu Arg Gly Arg Arg Asn Leu
180 185 190

Glu Trp Lys Glu Pro Pro Ser Met Arg Leu Lys Ala Arg Pro Gly Asn
195 200 205

Ser Gly Ser Ser Val Leu Thr Cys Ala Ala Phe Ser Phe Tyr Pro Pro
210 215 220

Glu Leu Lys Phe Arg Phe Leu Arg Asn Gly Leu Ala Ser Gly Ser Gly
225 230 235 240

Asn Cys Ser Thr Gly Pro Asn Gly Asp Gly Ser Phe His Ala Trp Ser
245 250 255

Leu Leu Glu Val Lys Arg Gly Asp Glu His His Tyr Gln Cys Gln Val
260 265 270

Glu His Glu Gly Leu Ala Gln Pro Leu Thr Val Asp Leu Asp Ser Ser
275 280 285

Ala Arg Ser Ser
290

<210> 18
<211> 320
<212> PRT
<213> Artificial Sequence

<220>
<223> mu a-FcRn w/ tag w/ leader

<400> 18

Met Pro Leu Leu Leu Leu Pro Leu Leu Trp Ala Gly Ala Leu Ala
1 5 10 15

Ser Glu Thr Arg Pro Pro Leu Met Tyr His Leu Thr Ala Val Ser Asn
20 25 30

Pro Ser Thr Gly Leu Pro Ser Phe Trp Ala Thr Gly Trp Leu Gly Pro
35 40 45

Gln Gln Tyr Leu Thr Tyr Asn Ser Leu Arg Gln Glu Ala Asp Pro Cys
50 55 60

Gly Ala Trp Met Trp Glu Asn Gln Val Ser Trp Tyr Trp Glu Lys Glu
65 70 75 80

Thr Thr Asp Leu Lys Ser Lys Glu Gln Leu Phe Leu Glu Ala Leu Lys
85 90 95

Thr Leu Glu Lys Ile Leu Asn Gly Thr Tyr Thr Leu Gln Gly Leu Leu
100 105 110

Gly Cys Glu Leu Ala Ser Asp Asn Ser Ser Val Pro Thr Ala Val Phe
115 120 125

Ala Leu Asn Gly Glu Glu Phe Met Lys Phe Asn Pro Arg Ile Gly Asn
130 135 140

Trp Thr Gly Glu Trp Pro Glu Thr Glu Ile Val Ala Asn Leu Trp Met
145 150 155 160

Lys Gln Pro Asp Ala Ala Arg Lys Glu Ser Glu Phe Leu Leu Asn Ser
165 170 175

Cys Pro Glu Arg Leu Leu Gly His Leu Glu Arg Gly Arg Arg Asn Leu
180 185 190

Glu Trp Lys Glu Pro Pro Ser Met Arg Leu Lys Ala Arg Pro Gly Asn
195 200 205

Ser Gly Ser Ser Val Leu Thr Cys Ala Ala Phe Ser Phe Tyr Pro Pro
210 215 220

Glu Leu Lys Phe Arg Phe Leu Arg Asn Gly Leu Ala Ser Gly Ser Gly
225 230 235 240

Asn Cys Ser Thr Gly Pro Asn Gly Asp Gly Ser Phe His Ala Trp Ser
245 250 255

Leu Leu Glu Val Lys Arg Gly Asp Glu His His Tyr Gln Cys Gln Val
260 265 270

Glu His Glu Gly Leu Ala Gln Pro Leu Thr Val Asp Leu Asp Ser Ser
275 280 285

Ala Arg Ser Ser Leu Glu His His His His His His His His His
290 295 300

Ile Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
305 310 315 320

<210> 19

<211> 95

<212> PRT

<213> Mus musculus

<400> 19

Pro Gln Ile Gln Val Tyr Ser Arg His Pro Pro Glu Asn Gly Lys Pro
1 5 10 15

Asn Ile Leu Asn Cys Tyr Val Thr Gln Phe His Pro Pro His Ile Glu
20 25 30

Ile Gln Met Leu Lys Asn Gly Lys Lys Ile Pro Lys Val Glu Met Ser
35 40 45

Asp Met Ser Phe Ser Lys Asp Trp Ser Phe Tyr Ile Leu Ala His Thr
50 55 60

Glu Phe Thr Pro Thr Glu Thr Asp Thr Tyr Ala Cys Arg Val Lys His
65 70 75 80

Ala Ser Met Ala Glu Pro Lys Thr Val Tyr Trp Asp Arg Asp Met
85 90 95

<210> 20

<211> 119

<212> PRT

<213> Mus musculus

<400> 20

Met Ala Arg Ser Val Thr Leu Val Phe Leu Val Leu Val Ser Leu Thr
1 5 10 15

Gly Leu Tyr Ala Ile Gln Lys Thr Pro Gln Ile Gln Val Tyr Ser Arg
20 25 30

His Pro Pro Glu Asn Gly Lys Pro Asn Ile Leu Asn Cys Tyr Val Thr
35 40 45

Gln Phe His Pro Pro His Ile Glu Ile Gln Met Leu Lys Asn Gly Lys
50 55 60

Lys Ile Pro Lys Val Glu Met Ser Asp Met Ser Phe Ser Lys Asp Trp
65 70 75 80

Ser Phe Tyr Ile Leu Ala His Thr Glu Phe Thr Pro Thr Glu Thr Asp
85 90 95

Thr Tyr Ala Cys Arg Val Lys His Asp Ser Met Ala Glu Pro Lys Thr
100 105 110

Val Tyr Trp Asp Arg Asp Met
115

<210> 21
<211> 330
<212> PRT
<213> Escherichia coli

<400> 21

Ala Lys Asp Asn Thr Val Pro Leu Lys Leu Ile Ala Leu Leu Ala Asn
1 5 10 15

Gly Glu Phe His Ser Gly Glu Gln Leu Gly Glu Thr Leu Gly Met Ser
20 25 30

Arg Ala Ala Ile Asn Lys His Ile Gln Thr Leu Arg Asp Trp Gly Val
35 40 45

Asp Val Phe Thr Val Pro Gly Lys Gly Tyr Ser Leu Pro Glu Pro Ile
50 55 60

Gln Leu Leu Asn Ala Lys Gln Ile Leu Gly Gln Leu Asp Gly Gly Ser
65 70 75 80

Val Ala Val Leu Pro Val Ile Asp Ser Thr Asn Gln Tyr Leu Leu Asp
85 90 95

Arg Ile Gly Glu Leu Lys Ser Gly Asp Ala Cys Ile Ala Glu Tyr Gln
100 105 110

Gln Ala Gly Arg Gly Arg Arg Gly Arg Lys Trp Phe Ser Pro Phe Gly
115 120 125

Ala Asn Leu Tyr Leu Ser Met Phe Trp Arg Leu Glu Gln Gly Pro Ala
130 135 140

Ala Ala Ile Gly Leu Ser Leu Val Ile Gly Ile Val Met Ala Glu Val
145 150 155 160

Leu Arg Lys Leu Gly Ala Asp Lys Val Arg Val Lys Trp Pro Asn Asp
165 170 175

Leu Tyr Leu Gln Asp Arg Lys Leu Ala Gly Ile Leu Val Glu Leu Thr
180 185 190

Gly Lys Thr Gly Asp Ala Ala Gln Ile Val Ile Gly Ala Gly Ile Asn
195 200 205

Met Ala Met Arg Arg Val Glu Glu Ser Val Val Asn Gln Gly Trp Ile
210 215 220

Thr Leu Gln Glu Ala Gly Ile Asn Leu Asp Arg Asn Thr Leu Ala Ala
225 230 235 240

Met Leu Ile Arg Glu Leu Arg Ala Ala Leu Glu Leu Phe Glu Gln Glu
245 250 255

Gly Leu Ala Pro Tyr Leu Ser Arg Trp Glu Lys Leu Asp Asn Phe Ile
260 265 270

Asn Arg Pro Val Lys Leu Ile Ile Gly Asp Lys Glu Ile Phe Gly Ile

275

280

285

Ser Arg Gly Ile Asp Lys Gln Gly Ala Leu Leu Leu Glu Gln Asp Gly
 290 295 300

Ile Ile Lys Pro Trp Met Gly Gly Glu Ile Ser Leu Arg Ser Ala Glu
 305 310 315 320

Lys Gly Gly Ser Asp Tyr Lys Asp Glu Leu
 325 330

<210> 22

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> L3

<400> 22

ataacttcgt ataaagtctc ctatacgaag ttat

34

<210> 23

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> 2L

<400> 23

ataacttcgt atagcataca ttatacgaag ttat

34

<210> 24

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> loxFas

<400> 24

acaacttcgt atataccttt ctatacgaag ttgt

34

<210> 25

<211> 608

<212> DNA

<213> Human cytomegalovirus

<400> 25

gttgacattg attattgact agttattaat agtaatcaat tacgggggtca ttagttcata	60
gccccatata ggagttccgc gttacataac ttacggtaaa tggcccgctt ggctgaccgc	120
ccaacgaccc ccgcccattg acgtcaataa tgacgtatgt tcccatagta acgccaatag	180
ggactttcca ttgacgtcaa tgggtggagt atttacggta aactgcccac ttggcagtac	240
atcaagtgtg tcatatgccg agtacgcccc ctattgacgt caatgacggg aaatggcccc	300
cctggcatta tgcccagtag atgaccttat gggactttcc tacttggcag tacatctacg	360
tattagtcac cgctattagc atggtgatgc gggtttggca gtacatcaat gggcgtggat	420
agcggtttga ctacggggga tttccaagtc tccaccccat tgacgtcaat gggagtttgt	480
tttggcacca aaatcaacgg gactttccaa aatgtcgtaa caactccgcc ccattgacgc	540
aaatgggcgg taggcgtgta cgggtggagg tctatataag cagagctccg tttagtgaac	600
gtcagatc	608

<210> 26

<211> 696

<212> DNA

<213> Human cytomegalovirus

<400> 26

gttgacattg attattgact agttattaat agtaatcaat tacgggggtca ttagttcata	60
gccccatata ggagttccgc gttacataac ttacggtaaa tggcccgctt ggctgaccgc	120
ccaacgaccc ccgcccattg acgtcaataa tgacgtatgt tcccatagta acgccaatag	180
ggactttcca ttgacgtcaa tgggtggagt atttacggta aactgcccac ttggcagtac	240
atcaagtgtg tcatatgccg agtacgcccc ctattgacgt caatgacggg aaatggcccc	300
cctggcatta tgcccagtag atgaccttat gggactttcc tacttggcag tacatctacg	360
tattagtcac cgctattagc atggtgatgc gggtttggca gtacatcaat gggcgtggat	420
agcggtttga ctacggggga tttccaagtc tccaccccat tgacgtcaat gggagtttgt	480
tttggcacca aaatcaacgg gactttccaa aatgtcgtaa caactccgcc ccattgacgc	540
aaatgggcgg taggcgtgta cgggtggagg tctatataag cagagctccg tttagtgaac	600
gtcagatcta gctctgggag aggagcccag cactagaagt cggcggtgtt tccattcggg	660

gatcagcact gaacacagag gaagcttgcc gccacc

696

<210> 27

<211> 2125

<212> DNA

<213> Human cytomegalovirus

<400> 27

ctgcagtga	taataaaatg	tgtgtttgtc	cgaaatacgc	gttttgagat	ttctgtcgcc	60
gactaaattc	atgtcgcgcg	atagtgggtgt	ttatcgccga	tagagatggc	gatattggaa	120
aaatcgatat	ttgaaaatat	ggcatattga	aaatgtcgcc	gatgtgagtt	tctgtgtaac	180
tgatatcgcc	atTTTTccaa	aagtgatttt	tgggcatacg	cgatatctgg	cgatagcgct	240
tatatcgttt	acgggggatg	gcgatagacg	actttgggtga	cttgggcat	tctgtgtgtc	300
gcaaatatcg	cagtttcgat	atagggtgaca	gacgatatga	ggctatatcg	ccgatagagg	360
cgacatcaag	ctggcacatg	gccaatgcat	atcgatctat	acattgaatc	aatattggcc	420
attagccata	ttattcattg	gttatatagc	ataaatcaat	attggctatt	ggccattgca	480
tacgttgtat	ccatatcata	atatgtacat	ttatattggc	tcattgtccaa	cattaccgcc	540
atgttgacat	tgattattga	ctagttatta	atagtaatca	attacgggggt	cattagttca	600
tagcccatat	atggagttcc	gcgttacata	acttacggta	aatggcccgc	ctggctgacc	660
gccaacgac	ccccgccc	tgacgtcaat	aatgacgtat	gttcccatag	taacgccaat	720
agggactttc	cattgacgtc	aatgggtgga	gtattttacgg	taaactgccc	acttggcagt	780
acatcaagtg	tatcatatgc	caagtacgcc	ccctattgac	gtcaatgacg	gtaaatggcc	840
cgcttgcat	tatgcccagt	acatgacctt	atgggacttt	cctacttggc	agtacatcta	900
cgtattagtc	atcgctatta	ccatggtgat	gcggttttgg	cagtacatca	atgggcgtgg	960
atagcggttt	gactcacggg	gatttccaag	tctccacccc	attgacgtca	atgggagttt	1020
gttttggcac	caaaatcaac	gggactttcc	aaaatgtcgt	aacaactccg	ccccattgac	1080
gcaaatgggc	ggtaggcgtg	tacgggtggga	ggtctatata	agcagagctc	gttttagtgaa	1140
ccgtcagatc	gcctggagac	gccatccacg	ctgttttgac	ctccatagaa	gacaccggga	1200
ccgatccagc	ctccgcggcc	gggaacggtg	cattggaacg	cggattcccc	gtgccaagag	1260
tgacgtaagt	accgcctata	gagtctatag	gcccaccccc	ttggcttctt	atgcatgcta	1320
tactgttttt	ggcttgggggt	ctatacacc	ccgcttcctc	atgttatagg	tgatggtata	1380

gcttagccta taggtgtggg ttattgacca ttattgacca ctcccctatt ggtgacgata	1440
ctttccatta ctaatccata acatgggtctt ttgccacaac tctcttttatt ggctatatgc	1500
caatacactg tccttcagag actgacacgg actctgtatt ttacaggat ggggtctcat	1560
ttattattta caaattcaca tatacaacac caccgtcccc agtgcccgca gtttttatta	1620
aacataacgt gggatctcca cgcgaaatctc gggtagctgt tccggacatg ggctcttctc	1680
cggtagcggc ggagcttcta catccgagcc ctgctcccat gcctccagcg actcatggtc	1740
gctcggcagc tccttgctcc taacagtgga ggccagactt aggcacagca cgatgccac	1800
caccaccagt gtgccgcaca aggccgtggc ggtagggat gtgtctgaaa atgagctcgg	1860
ggagcgggct tgcaccgctg acgcatttgg aagacttaag gcagcggcag aagaagatgc	1920
aggcagctga gttgttgtgt tctgataaga gtcagaggta actcccgttg cggtgctgtt	1980
aacggtggag ggcagtgtag tctgagcagt actcgttgct gccgcgcgcg ccaccagaca	2040
taatagctga cagactaaca gactgttcct ttccatgggt cttttctgca gtcaccgtcc	2100
ttgacacggt ttaaagccg ccacc	2125

<210> 28
 <211> 129
 <212> DNA
 <213> Simian virus 40

<400> 28	
aacttgttta ttgcagctta taatggttac aaataaagca atagcatcac aaatttcaca	60
aataaagcat ttttttcacc attctagttg tggtttgtcc aaactcatca atgtatctta	120
tcatgtctg	129

<210> 29
 <211> 225
 <212> DNA
 <213> Bos taurus

<400> 29	
ctgtgccttc tagttgccag ccatctgttg tttgccctc ccccgctgcct tccttgacct	60
tggaagggtg cactcccact gtcctttcct aataaaatga ggaaattgca tcgcattgtc	120
tgagtaggtg tcattctatt ctggggggtg ggggtggggca ggacagcaag ggggaggatt	180
gggaagacaa tagcaggcat gctggggatg cggtgggctc tatgg	225

<210> 30
<211> 73
<212> DNA
<213> Homo sapiens

<400> 30
caggataata tatggtaggg ttcatagccca gagtaacctt tttttttaat ttttatttta 60
ttttattttt gag 73

<210> 31
<211> 288
<212> DNA
<213> Simian virus 40

<400> 31
agtcagcaac cagggtgtgga aagtccccag gctccccagc aggcagaagt atgcaaagca 60
tgcatctcaa ttagtcagca accatagtcc cgcccctaac tccgcccata ccgcccctaa 120
ctccgcccag ttccgcccata tctccgcccc atggctgact aaaaaaaaaa atttatgcag 180
aggccgaggc cgcctctgcc tctgagctat tccagaagta gtgaggaggc ttttttggag 240
gcctaggctt ttgcaaaaag ctcccgggag cttgtatatc cattttcg 288

<210> 32
<211> 798
<212> DNA
<213> Artificial Sequence

<220>
<223> green fluorescent protein encoding nucleic acid

<400> 32
atggtgagca agggcgagga gctgttcacc ggggtggtgc ccatacctggt cgagctggac 60
ggcgacgtaa acggccacaa gttcagcgtg tccggcgagg gcgagggcga tgccacctac 120
ggcaagctga ccctgaagtt catctgcacc accggcaagc tgcccgtgcc ctggcccacc 180
ctcgtgacca ccctgaccta cggcgtgcag tgcttcagcc gctaccccga ccacatgaag 240
cagcacgact ttttcaagtc cgccatgccc gaaggctacg tccaggagcg caccatcttc 300
ttcaaggacg acggcaacta caagaccgc gccgaggtga agttcgaggg cgacaccctg 360
gtgaaccgca tcgagctgaa gggcatcgac ttcaaggagg acggcaacat cctggggcac 420
aagctggagt acaactacaa cagccacaac gtctatatca tggccgacaa gcagaagaac 480

ggcatcaagg tgaacttcaa gatccgccac aacatcgagg acggcagcgt gcagctcgcc	540
gaccactacc agcagaacac ccccatcggc gacggccccg tgctgctgcc cgacaaccac	600
tacctgagca ccagtcctgc cctgagcaaa gaccccaacg agaagcgcga tcacatggtc	660
ctgctggagt tcgtgaccgc cgccgggatc actctcggca tggacgagct gtacaagtcc	720
ggactcagat ctcgagctca agcttcgaat tctgcagtcg acggtaccgc gggcccggga	780
tccaccggat ctagatga	798