

Figure 1

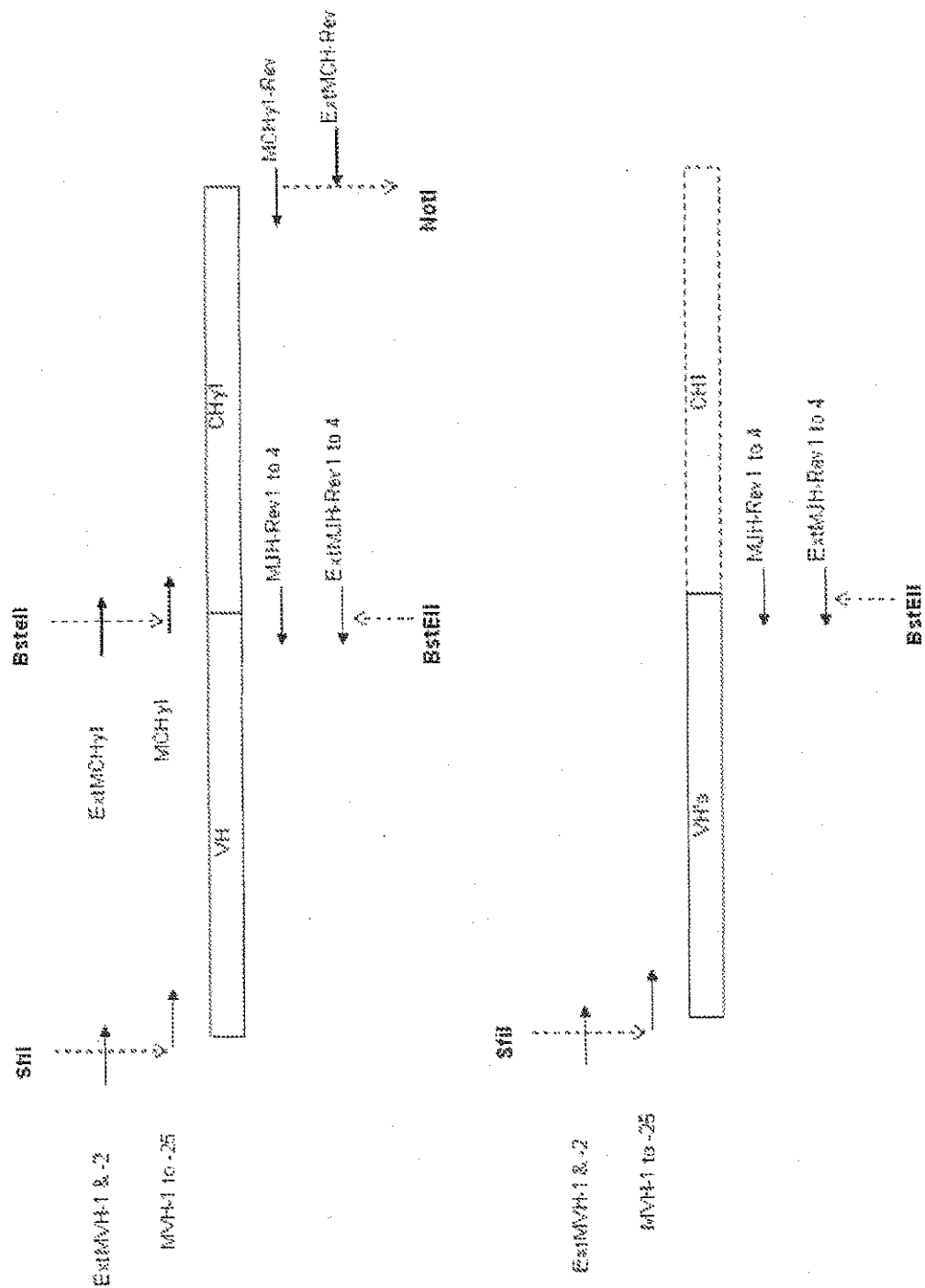


Figure 2

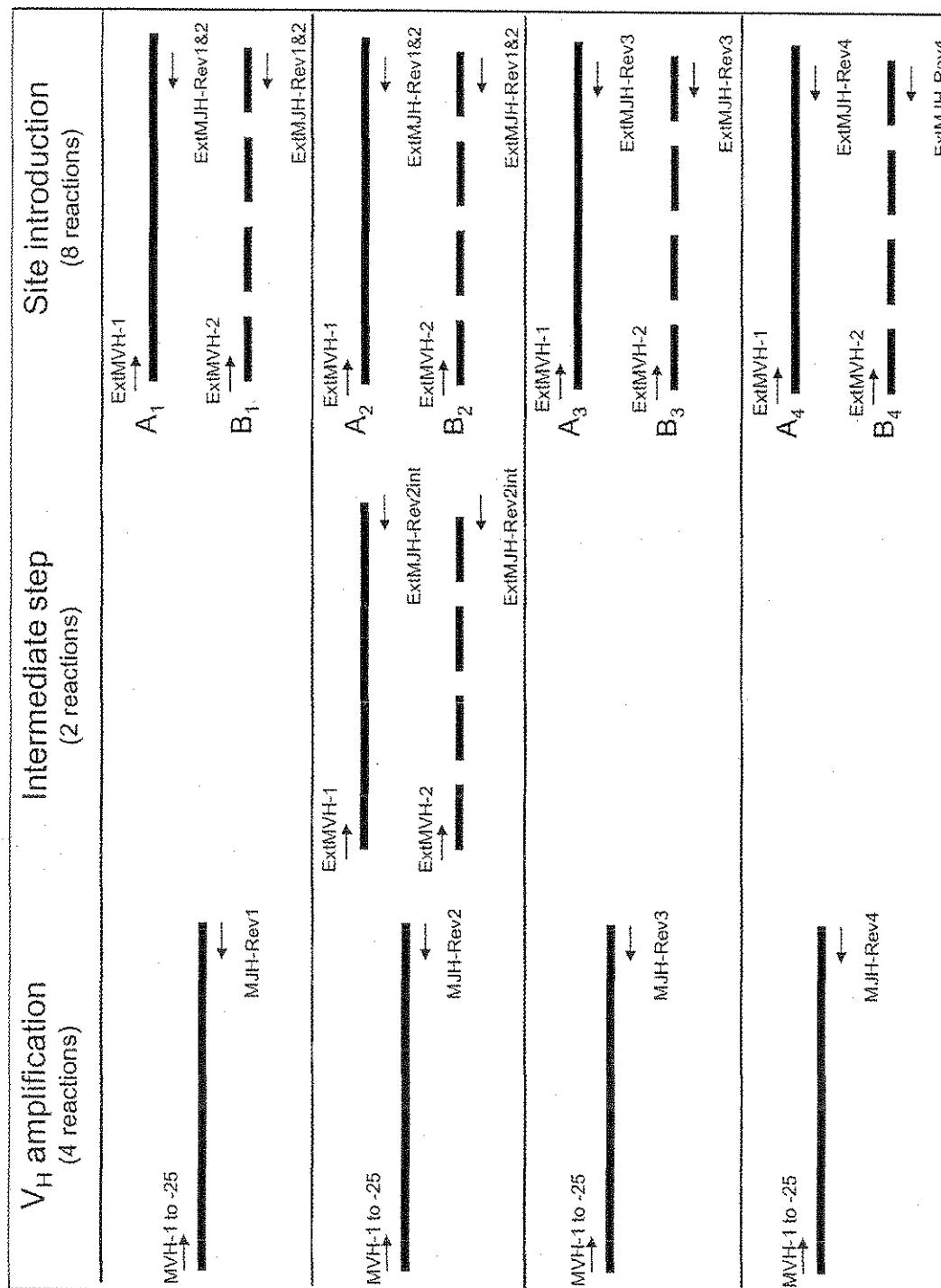


Figure 3

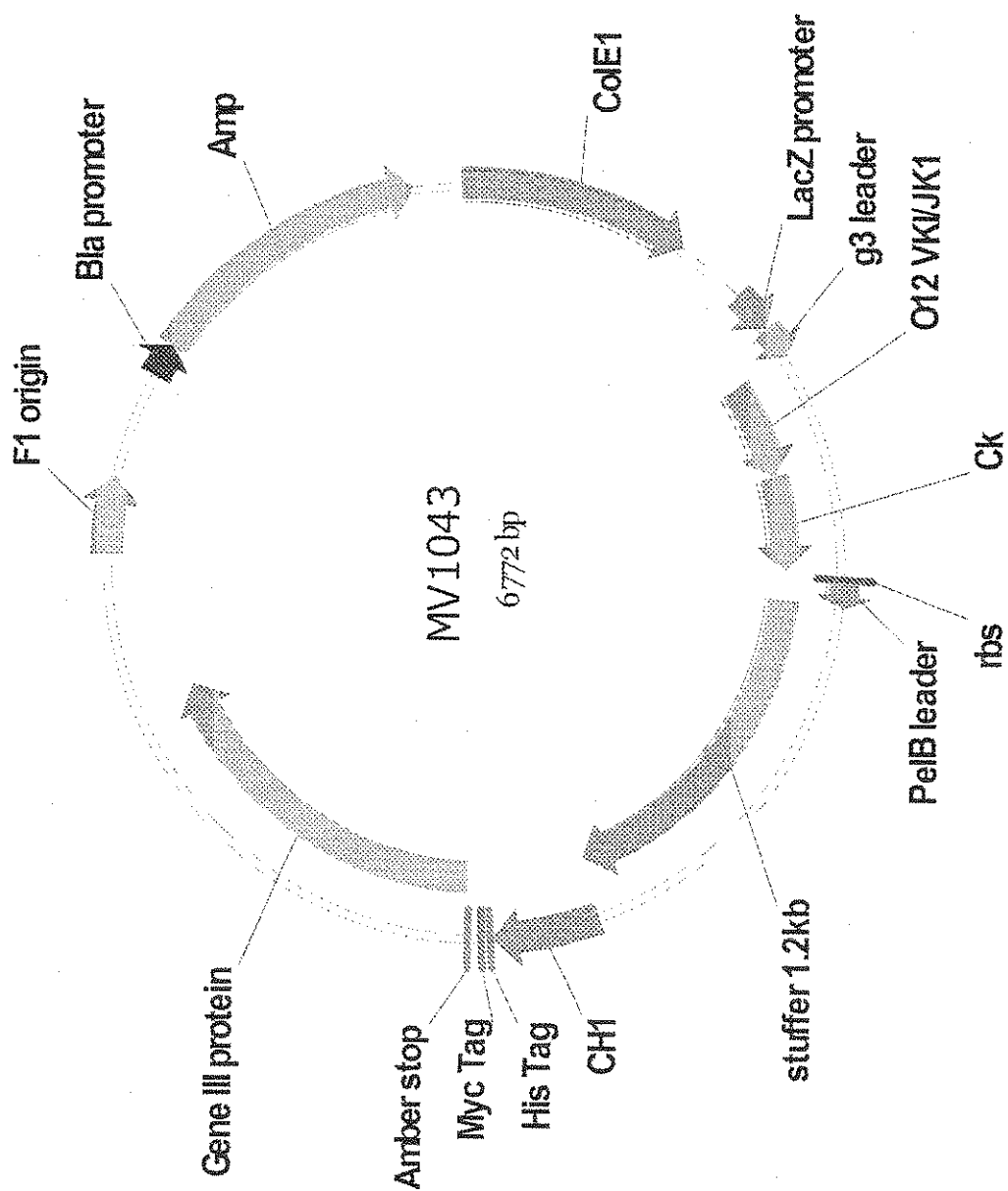


Figure 4

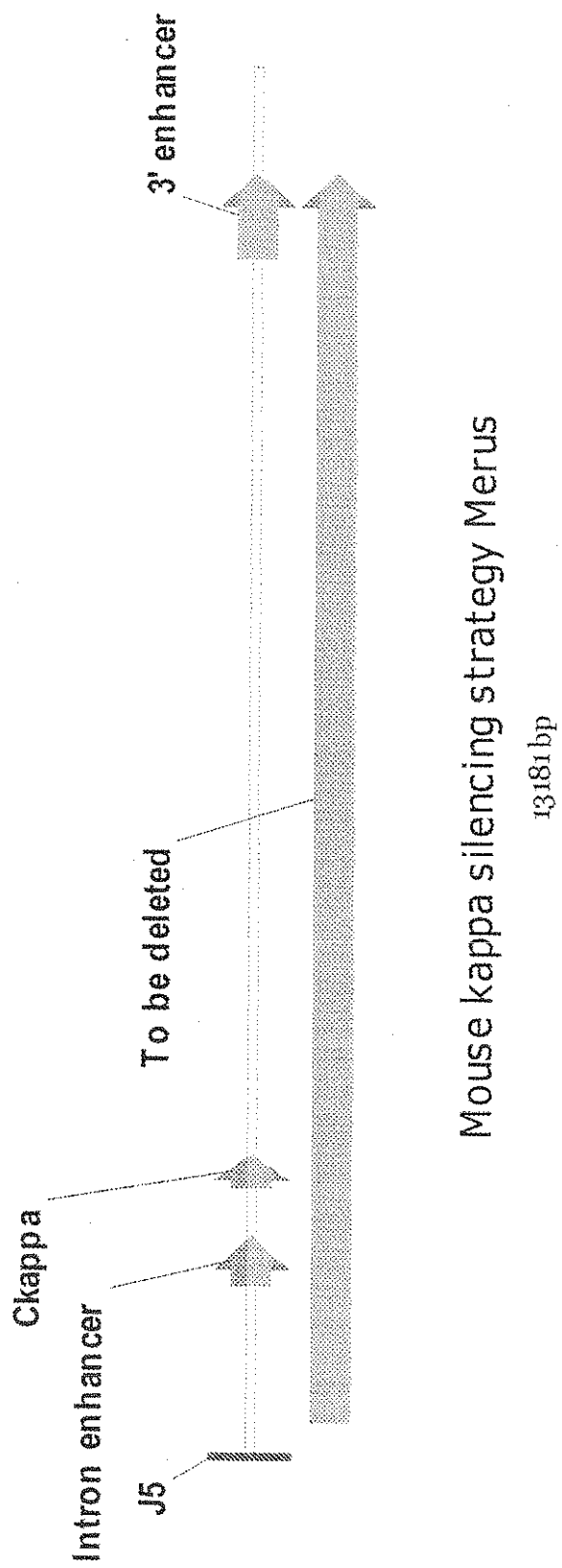


Figure 5

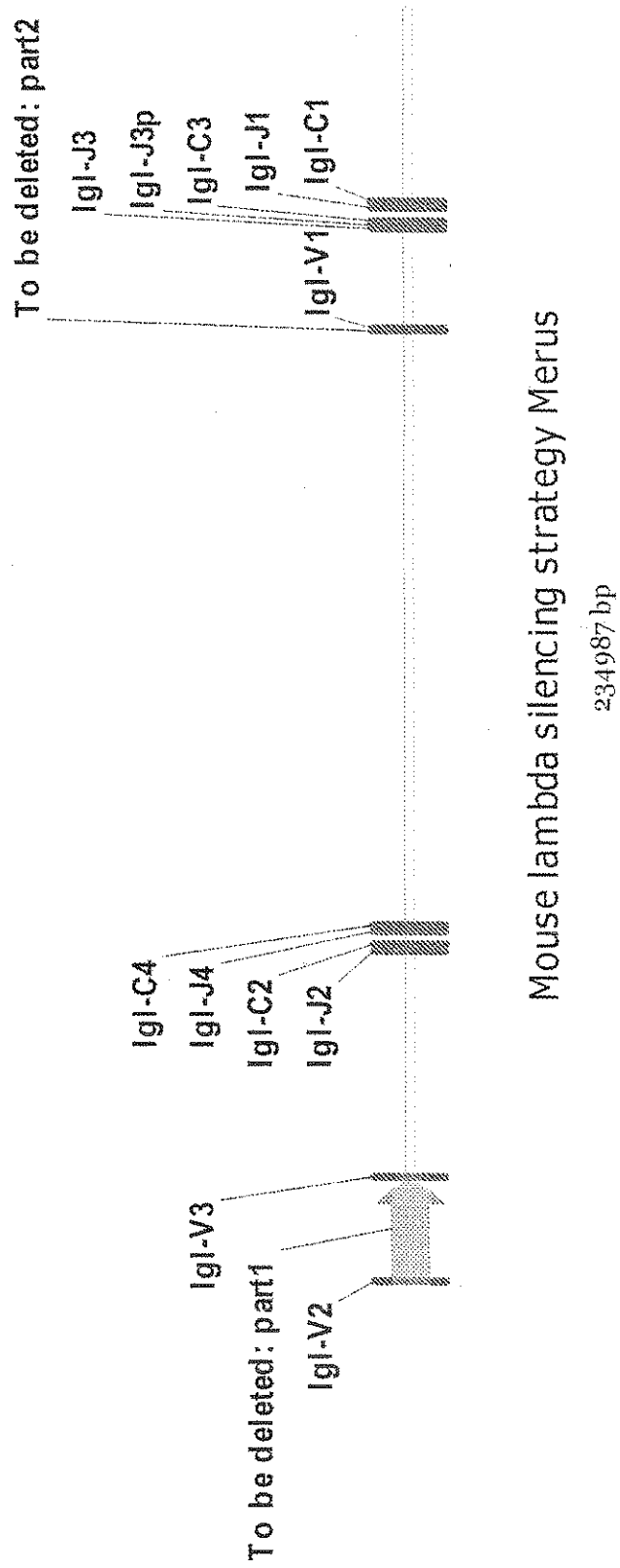


Figure 6

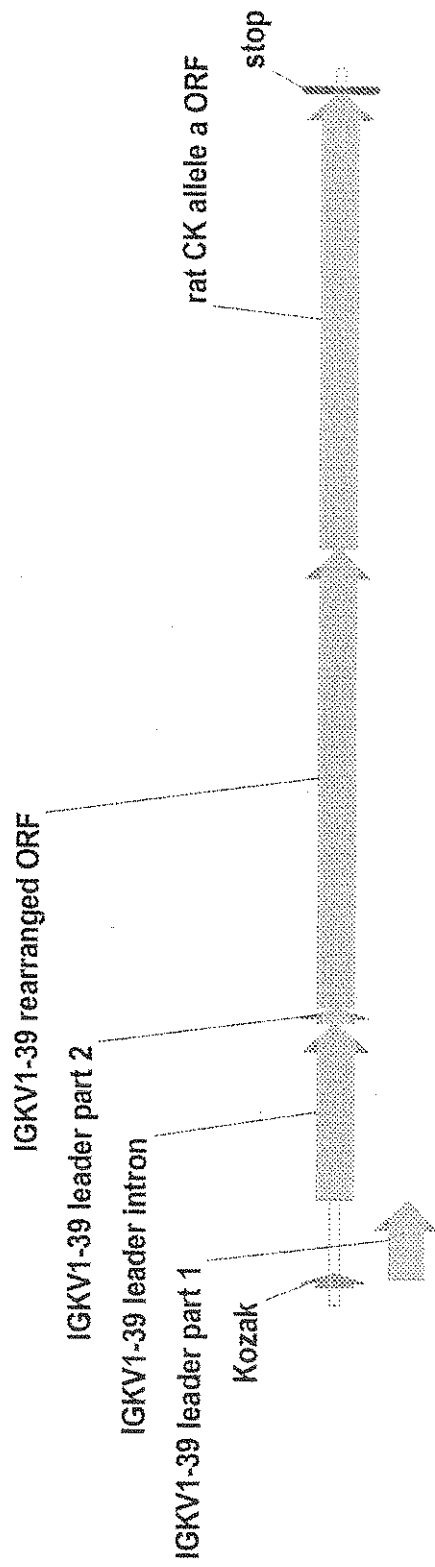


Figure 7

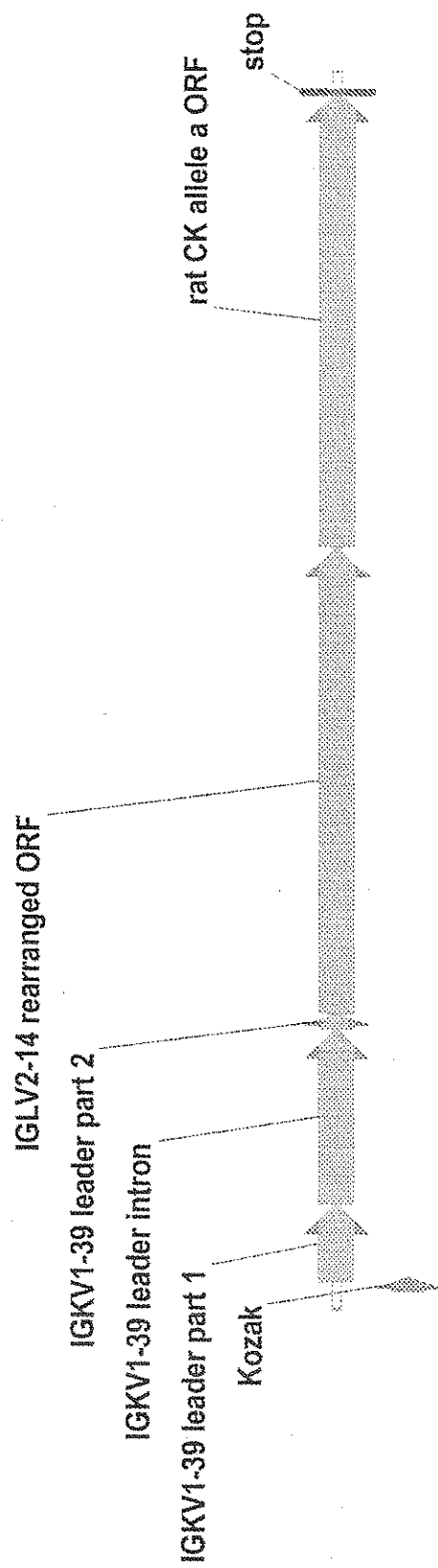


Figure 8

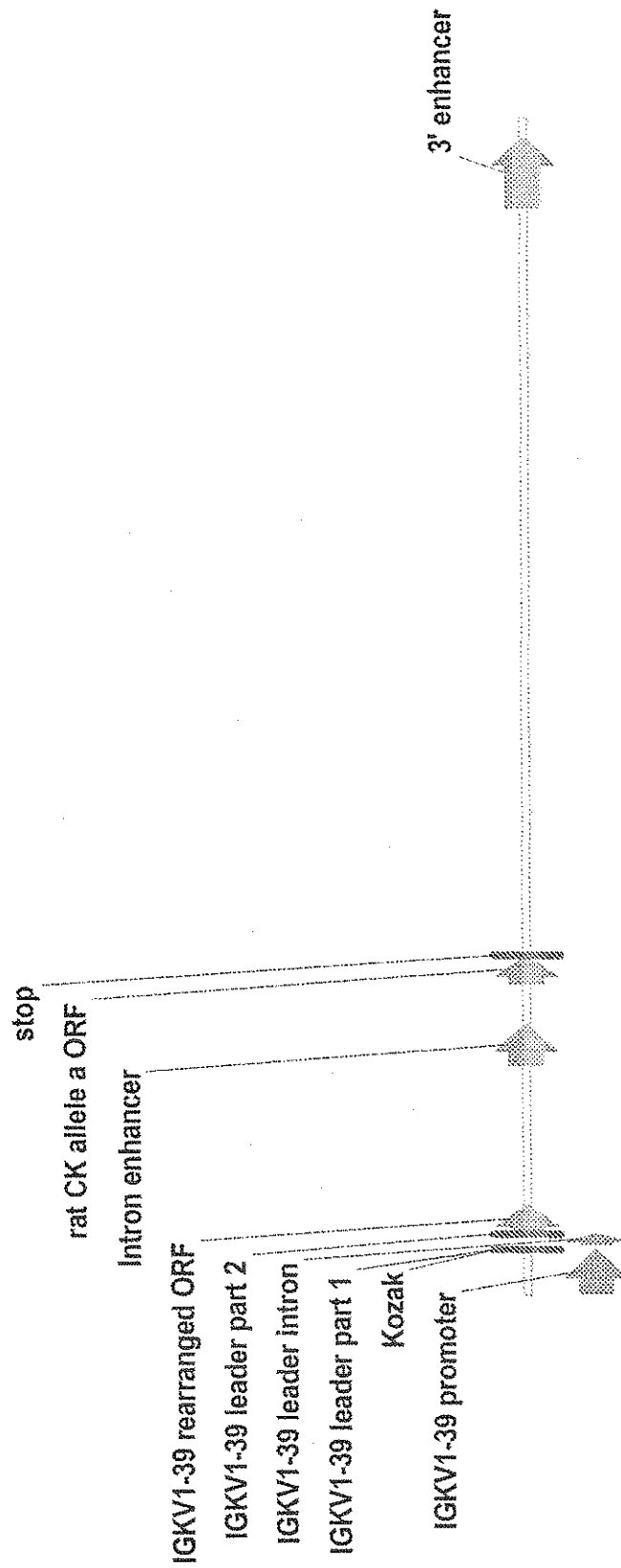


Figure 9

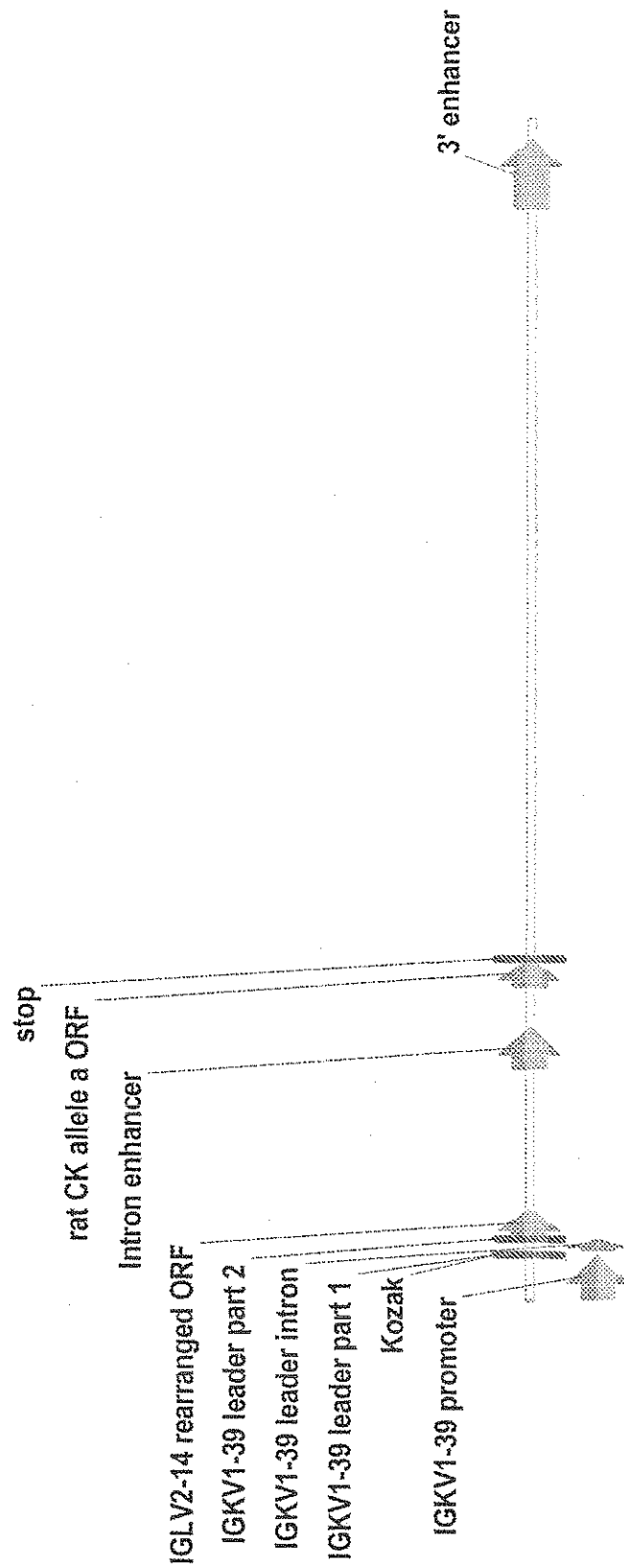


Figure 10

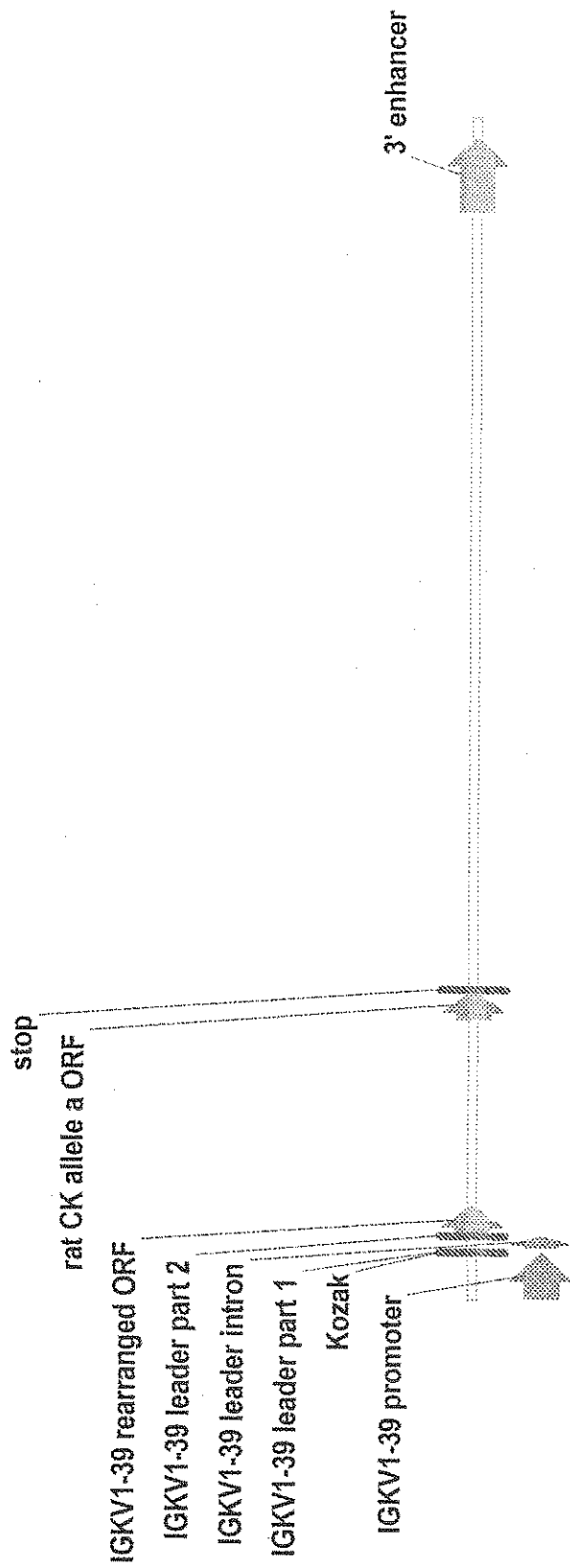


Figure 11

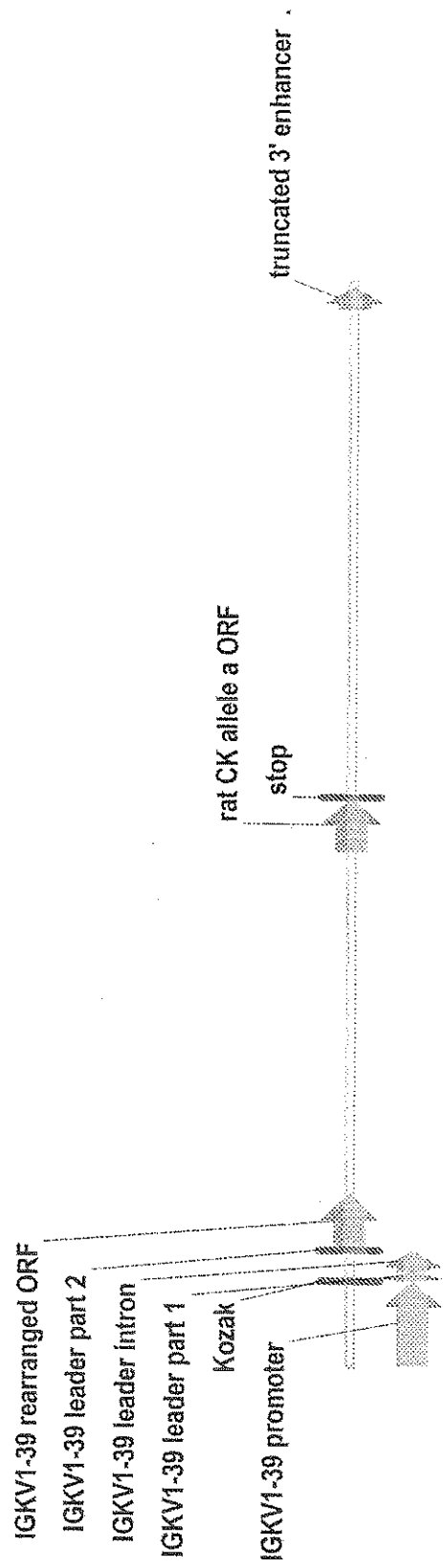


Figure 12

human germline IGV1-39/J DNA
1 GAC ATC CAG ATG ACC CAG AGC CCC AAC AGC CTG AGC GGC AGC GTG GGC GAC AGA GTC ACC ATC ACC TGC AGA GCC AGC
79 CAG AGC ATC AGC ACC TAC CTG AAC TGG TAT CAG CAG AAG CCC GGC AAG GGC ACC GAC TTC ACC CTG ACC AGC AGC CTG
157 TCC CTG CAG AGC GGC GTG CCC AGC AGA TTC AGC GGC TCC GGC ACC GGC ACC GAC TTC ACC CTG ACC AGC AGC CTG
235 CAG CCC GAG GAC TTC GCC ACC TAC TAC TGC CAG CAG AGC TAC AGC ACC CCC ACC TTC GGC CAG GGC ACC AAG GTG
313 GAG ATC AAG

human germline IGV1-39/J Protein
1 DIQMTQSESS LSASVGDRTV ITCKRASQIS SYLWVYQKP GKAPKLLIYA
51 ASSLSQGVES RFGSGSGTD FTLTISLQF EDFATYTCQ SYSTPPTFGQ
101 GTRVEIK

human germline IGLV2-14/J DNA
1 CAG TCT GCC CTG ACC CAG CCC GCC TCT GTG TCT GGC AGC CCT GGC CAG AGC ATC ACC ATC AGC TGC ACC GGC ACC AGC
79 AGC GAC GTG GGC GGC TAC AAC TAC GTG TCC TGG TAT CAG CAG CAC CCC GGC AAG GCC CCC AGC CTG ATG ATC TAC GAG
157 GTG TCC AAC AGA CCC AGC GGC GTG AGC AAC AGA TTC AGC GGC AAG AGC GGC AAC ACC GGC CTG ACC ATC AGC
235 GGC CTC CAG GCT GAG GAG GAG GGC GAC TAC TAC TGC AGC AGC TAC ACC AGC AGC TCC ACC CTG GTG TTT GGC GGC GGA
313 ACA AAG CTG ACC GTG CTG

human germline IGLV2-14/J Protein
1 QSALTQPASV SGSPQSITI SCTGTSSDVG GYNVSVYQQ HPCRKPLMI
51 YEVSRRFSGV ENRFGSGRSG NTASLTISGL QADEADYYC SSYTSSTLV
101 FGGTKLTVL

Rat IGCK allele a DNA
1 AGA GCC GAC GCC GCT CCC ACC GTG TCC ATC TTC CCC CCC AGC ATG GAA CAG CTG ACC TCT GGC GGA GCC ACC GTG GTC
79 TGC TTC GTG AAC AAC TTC TAC CCC AGA GAC ATC AGC GTG AAG TGG AAG ATC GAC GGC AGC GAG CAG AGG GAC GGC GTG
157 CTG GAC AGC GTG ACC GAC CAG AGC AAG GAC TCC ACC TAC AGC ATG AGC AGC AGC CTG AGC CTG ACC AAG GTG GAG
235 TAC GAG AGG CAC AAC CTG TAC ACC TGC GAG GTG CAC AAG ACC AGC TCC AGC CCC GTG GTC AAG TCC TTC AAC CCG
313 AAC GAG TGT

Rat IGCK allele a protein
1 RADAPTISI FPPSMEQLTS GQATVCFVN NFVPRDISVK WKIDGSEQRD
51 GVLDEVTQD SKDSTYSMS TLSTKVEYE RHNLYTCEVV HKTSSSFVVK
101 SPNRNEC

Figure 12 contd

IGKV1-39/J-Ck	
1	GGT ACC GCG GCC ACC ATG GAC ATG AGA GTG CCC CAG CTC CTG GGG CTC CTG CTA CTC TGG CTC CGA GGT AAG
79	GAT GGA GAA CAC TAG GAA TTT ACT CAG CCA GTG TGC TCA GTA CTG ACT GGA ACT TCA GGG AAG TTC TCT GAT AAC ATG
157	ATT AAT AGT AAG AAT ATT TGT TAT TTT TAT TCC AAT TGC CAG AGT TGA CAT CAT GAT GAC CCA GAG CCC CAG
235	CAG CTT GAG CGC CAG CGT GGG CGA CAG AGT GAC CAT CAC CTG CAG AGC CAG CCA GAG CAT CAG CTA CCA GAA CTG
313	GTA TCA GCA GAA GCC CGG CAA GGC CCC CAA GCT GCT GAT CTA CGC CGC CAG CTC CCA GAG CGG CAG CCA GAA CTA
391	ATT CAG CGG CAG CGG CTC CGG CAC CCG CTT CAC CTT GAC CAT CAG CAG CCA GAT GAT CAA GAG AGC CGA CGC TCC
469	CTG CCA GCA GAG CTA CAG CAC CCG CCC CAC CTT CGG CCA GAG CAC CAA GAT CAA GAG AGC CGA CGC TCC
547	CAC CGT GTC CAT CTT CCC CAG CAT GGA ACA GCT GAC CTC TGG CGG AGC CAC CTT GGT CTG CTT GAT GAA CAA CTT
625	CTA CCC CAG AGA CAT CAG CGT GGA GTG GAA GAT CGA CGG CAG GCA GAG CGG CTT GGT GGT GAT GAT GAT GAT GAT
703	CCA GGA CAG CAA GGA CTC CAC CTA CAG CAT GAG CAG CAC CTT GAG CCA CCA GAT GAT GAT GAT GAT GAT GAT GAT
781	GTA CAC CTG CGA GGT GGT GCA CAA GAC CAG CTC CAG CCC CGT GGT CAA GTC CTT CAA CGG GAA CGA GTG ATG AGC TAG
859	CGA GCT C
IGLV2-14/J-Ck	
1	GGT ACC GCG GCC GCC ACC ATG GAC ATG AGA GTG CCC CAG CTC CTG GGG CTC CTG CTA CTC TGG CTC CGA GGT AAG
79	GAT GGA GAA CAC TAG GAA TTT ACT CAG CCA GTG TGC TCA GTA CTG ACT GGA ACT TCA GGG AAG TTC TCT GAT AAC ATG
157	ATT AAT AGT AAG AAT ATT TGT TAT TTT TAT TCC AAT CTC AGG TGC CAG ATG TCA GTC TGC CTT GAT TTA AAG TTT GAC
235	TGT GTC TGG CAG CCC TGG CCA GAG CAT CAC CAT CAG CTG CAC CGG CAC CAG CCA GAT GAT CTA CCA GAA CTA CCA
313	GTC CTG GTA TCA GCA GCA CCC CGG CAA GGC CCC CAA GCT GAT CTA CGA GGT GTC CAA CAG ACC CAG CGG CTT GAG
391	CAA CAG ATT CAG CGG CAG CAA GAG CGG CAA CAC CGC CAG CAT CAC GAT CTA CGA GGT GTC CCA GGC CGA
469	CTA CTA CTG CAG CAG CTA CAC CAG CAG CTC CAC CTT GGT GGT TGG CGG CAG AAC AAT GAT GAT GAT GAT GAT GAT GAT
547	CGC CGC TCC CAC CGT GTC CAT CTT CCC CAG CAT GGA ACA GCT GAC CTC TGG CGG AGC CAC CTT GGT CTG CTT CTT
625	GAA CAA CTT CTA CCC CAG AGA CAT CAG CTT GAG GAA GAT CGA CGG CAG CCA GAG CGG CTT GGT GGT GAT GAT GAT
703	CGT GAC CGA CCA GGA CAG CAA GAT CTA CAG CAT GAG CAG CAC CTT GAG CCA GAT GAT GAT GAT GAT GAT GAT
781	GCA CAA CTT GTA CAC CTC CGA GGT GGT GCA CAA GAC CAG CTC CAG CCC CGT GGT CAA GTC CTT CAA CGG GAA CGA GTG
859	TTG AGC TAG CGA GCT C
VKP-IGKV1-39/J-Ck	
1	GGC GGG CCC ACA TGA AAC AAT GGG AAC CAT GTG ACA ATC ACA GAG GTG TTG TTA CTA TAG CAA AAG GGA TTG TTA CTC
79	TCC ACA TCC CTT TAA GTA ACT TGA AGG CTT GAT AGA CCC ACC CTC TAA GAC TTC ATT AGA CAT TCC CTA CGA ATG GTT
157	ATA CTC TCC TGT ATA CTC CCA ATA CAA CTC TAA AAT ATA TTA TTC CAT ATA GTC CTT AGG TTT GTA TTA AAG TTT GAC
235	TTT TTT CTT TCA AAA TAT CTC TTG TCA CAA CAG CGG CTC TAG AGA GAA ATA CAT TCC CTC CAG GCA AAT CTA TGC TGC
313	GCT GGT CTG ACC TGG GAC CTT GGG GAC ATT GCC CTT GTG CTG AGT TAC TAA GAT GAT CCA GCC CTG CAG CTG TGC TCA
391	GCC TGC CCC ATG CCC TGC TGA TTG ATT TGC ATG TTC CAG AGC ACA GCC CCC TGC CTT GAA GAC TTT TTT ATG GGC TGC
469	TGC CAC CTT GTG CAG GAG TCA GTC TCA AGG AGC CAC CAT GGA CAT GAG AGT GGC CCG CCA GCT CTT GGG GCT CTT
547	GCT ACT CTG GCT CCG AGG TAA GGA TGG AGA ACA CTA GGA ATT TAC TCA GCC AGT GTG CTC AGT ACT GAC TGG AAC TTC
625	AGG GAA GTT CTC TGA TAA CAT GAT TAA TAG TAA GAA TAT TTG TTT TTA TGT TTC CAA TCT CAG GTG CCA GAT GTG ACA
703	TCC AGA TGA CCC AGA GCC CCA GCA GCG TGA GCG CCA GAG TGA CCA TCA OCT GCA GAG CCA GGC AGA
781	GCA TCA GCA GCT ACC TGA ACT GGT ATC AGC AGA AGC CCC CCA AGC TGC TGA TCT AGC CCG CCA GCT CCC
859	TGC AGA GCG GCG TGC CCA GAT TCA GCG GCA GCT CTG CCG CCA CCG ACT TCA OCT TGA CCA TCA GCA GCT TGC AGC
937	CGG AGG ACT TGC CCA CTT ACT ACT GCC AGC AGA GCT ACA GCA CCC CCC CCA CTT TCG GGC AGG GCA CCA AGG TGC AGA
1015	TCA AAC GTA AGT ACA CTT TTC TCA TCT TTT ATT ATG TGT AAG ACA CAG GGT TTC ATG TTA GGA GTT AAA GTC AGT TCA
1093	GAA AAT CTT GAG AAA ATG GAG AGG GCT CAT TAT CAG TTG AGC TGC CAT ACA GTG TCA GAT TTT CTG TTT ATC AAG CTA

11.71	GTG	AGA	TTA	GGG	GCA	AAA	AGA	GGC	TTT	AGT	TGA	GAG	GAA	AGT	AAT	TAA	TAC	TAT	GGT	CAC	CAT	CCA	AGA	GAT	TGG	ATC
12.49	GGA	GAA	TAA	GCA	TGA	GTA	GTT	ATT	GAG	ATC	TGG	GTC	TGA	CTG	CAG	GTA	GCG	TGT	TCT	TCT	AGA	CGT	TTA	AGT	GGG	AGA
13.27	TTT	GGA	GGG	GAT	GAG	GAA	TGA	AGG	AAC	TTT	AGG	ATA	GAA	AAG	GGC	TGA	AGT	CAA	GTT	CAG	CTC	TAA	TTG	ATG	TGG	
14.05	GAG	CAA	ACT	TTG	AGG	ATA	AGA	TGA	ATC	ACC	CAG	AGG	ATA	AAA	CAG	CGC	AGA	TCA	BAG	AGS	GGC	CTG	GAG	CTC	GAA	
14.83	GAG	AAG	GAG	ACT	CAI	CCG	TGT	TGA	GTT	TCC	ACA	AGT	ACT	GTC	TTG	AGT	TTT	TAT	GAC	TAC	AAA	AAT	CAG	TAG	ACT	
15.61	GTG	AGC	CGT	AGG	CTG	AGT	CTC	CTT	TGT	CTA	AGT	TTT	TAT	GAC	TAC	AAA	AAT	CAG	TAG	TAT	GTC	CTG	AAA	TAA	TAA	
16.39	TCA	TTA	AGC	TGT	TTG	AAA	GTA	TGA	CTG	CTT	GCC	ATG	TAG	ATA	CCA	TGG	CTT	GCT	GAA	TAA	TCA	GAA	GAG	TGA	CTC	
17.17	TTA	TTC	TAA	AAT	TTG	TCA	CBA	AAT	TCT	ACA	TGA	ANG	TAA	ATT	TGA	AAT	GAT	CAI	CTT	TTT	TAT	AAG	AGT	ACA	GTT	
17.95	TTT	TTC	CTT	TGT	CTC	ATT	TCT	AGT	GCC	GTT	TTG	TAA	GAC	ACT	TGG	TTC	TTT	TAT	AAG	AGT	AGA	AAT	ACA	GTT	GGG	
18.73	TTT	GAT	CTA	ATC	GCC	AGC	AAT	GGA	CTG	AAA	CGG	TCC	GCA	ACC	TCT	TCT	TTC	CAA	GTT	ATT	ACT	CTA	TTG	TAA	TAA	
19.51	ATT	TGG	CGT	TCA	CCC	TGC	CGC	TAA	GGG	CCA	TGT	GAA	CCC	CGG	TTC	TTC	CAA	CTT	GAT	GGT	GAC	CTC	CTG	CCA	GCT	
20.29	GAG	GCA	CAG	TGA	TAG	GAA	CAG	AGC	CAC	TAA	TCT	GAA	AAG	AAC	AGA	GAT	GTG	ACA	GGC	TAC	ACT	AAT	GTG	AGA	ACA	
21.07	AGG	AAA	GGG	TGA	CTT	ATT	ACA	GAT	TTT	AGA	ATG	CAT	TAA	ATG	CAT	TTA	TAT	TTC	CTT	ATC	TAT	TTT	TTT	TAT	TAG	
21.85	GGG	AAT	AGA	AGG	GGC	ATA	ATG	TGC	TTT	ATC	CAG	TGT	TAT	AAT	AAA	AGC	TTA	ATG	TAT	ATA	AUC	TAT	TAG	AGG	TAA	
22.63	CTA	CAG	CCA	GCA	AAA	GTC	ATG	GTA	AAT	ATT	CTT	TGA	CTG	AAC	TCT	CAC	TAA	ACT	CCT	CTA	AAT	TAT	ATG	TCA	TAA	
23.41	CTG	GTT	AAA	TTA	ATA	TAA	AAT	TGT	GAC	ATC	ACC	ATA	ACT	GGT	TAG	TGA	GGA	TAT	TTC	TCA	TGC	AAA	AAT	ATG	ACT	
24.19	AAT	AAT	AAT	TAA	GCA	CAA	AAA	TAT	TTIC	CCA	ATA	CTT	TAA	TTC	TGT	GAT	AGA	ABA	ATG	TTT	AAC	GCT	ATA	ATC	ATC	
24.97	CCA	TAA	TTT	TGA	AAA	CTA	TTT	ATT	AGC	TTT	TGT	GTT	TGA	CCC	TTT	CCT	AGC	CAA	AAA	ATA	TTC	TTC	AGG	TAA	AAA	
25.75	AAA	CTT	TTG	AAA	CTA	CTT	TAG	AGT	CAT	TAA	GTT	ATT	TAA	CCA	CTT	TTA	ATT	ACT	TTA	AAA	TGA	TGT	CAA	TTC	CTT	
26.53	AAC	TAT	TAA	TTT	ATT	TTA	AGG	GGG	GAG	AGG	CTG	CTC	ATA	ATT	CTA	TTG	TTT	TTT	TTT	TTT	TTT	TTT	TTT	CTT	TTT	
27.31	TTT	TAA	CTA	CTT	CTG	TCA	CCC	AAG	AGT	TGG	CAT	CTC	AAC	AGA	GGG	GAC	TTT	COG	AGA	GTC	ACT	CTG	GCA	GTT	GCT	
28.09	GAT	CAG	AAG	TGA	AGT	CTG	CCA	GTT	CCT	CCC	AGG	CAG	GTG	GCC	CAG	ATT	ACA	GTT	GAC	CTG	TTT	TGG	TGT	GGC	TAA	
28.87	TTT	TCC	CAT	GTG	GTT	ACA	AAC	CAT	TAG	ACC	AGG	GTG	TGA	TGA	ATT	GCT	CAG	AAT	ATT	TCT	GGA	CAG	ACA	AAT	ACA	
29.65	CTG	GCC	TTA	AGG	CCC	TGT	CCA	TAC	AGT	AGG	TTT	AGC	TTT	GCT	ACA	CCA	BAG	GAA	GCC							

Figure 12 contd

4915 TTT AAA ATT AAG AGA GAC ATA AGT TTT GAG GTA GCA AGA TGG AAA CTC TGG GGC TTG GGC AAT GGT CTG TCT CTC TGT
 4933 ATG GGA TGT GAA AGT TAC TAT TGT GGA ATT GGG ATC TAT GGT CTT GGT AAA CTC TAT ATA ATA ACT TCA
 5071 CCT AAA GAA ATA TCT AAT ACC CAG TGC ATA CAT AAA AGA GGA TAC AAG GAA TGA ATC ATA CGT GAA GGC CAG AAA GAC
 5149 AAT AAA GTA GGG GAT CCA GGA TCA AAT CTC CCA CAA CTT TGA GGC TTC TAC TAT TCT GCT CAG AGC TCA AAG TAC
 5227 AAA ACA CAT AAT TCA AAC ACA TGA TCC CTC CTT GGG GGT CTT TCC TCT TCC TCT TCC TCT TCC TCT TCC TCT TCC TCT
 5305 AAT GAG ATA GAG ACC TTC ATC AAC CAG TCA AAT AAT ATA GGT AAT TTT GTC TGG GTA TGA AGA GGC CAC GTA TCA
 5383 AAG GTT ACA TTA GGG AAG GAA GAG GAC ACT AAC AGT GAC TTT CAT TCT TCT CCC CTT CTT GGA GGC CCC TCC ATT TAG
 5461 TCC CTC GTG GGC TCA TCC ACT CAG CAC ACA TTT ACT AAT GCA GGC GGT GAA GGC AGT GCA GAA TAA
 5539 TGT TAG TGT CCC TTC CCC CAG TTA ATA TGC AGT CCA GTT TCC CTC CTT CTT CTT CTT CTT CTT CTT CTT CTT CTT
 5617 GGG AAA GGA CAG TCA CCA AAT AAG AGA GGG GAA CCC TTT GGT TCC CTA CTT CTT GAG AAT GTA CAT TAT TAT CCA CTT
 5695 TTT GAA ACT TCT TTT AAT TGC TTT TTT TTA ATT TGT CTT TTC AAA TAG CAT AAC CTT GTT CAT CCA TTT CTG GGA ACC
 5773 AAA TTT ATC AAT CAA CAG TGC CTC TAA TCT GGC TAT TAA TAC AAA AAT GCC TCC TCA AAA TAT ATA TGT TCG AGT CTT
 5851 ATC TAA AAC AGA ACC CAG AAT AAA AAT GAA GAA AGA ATA CAT ATA AGC ATT TAT ATA ATT CTG AAC CAT CTT GTG CTT
 5929 TGT GAA AAA AAT ATA ATC TAA TGT CAC ATG CAG TAT TCT TTT TAT TTA ACA CTG GTG AAA TTA TAC CAT TAG AGA GAA
 6007 AGA GGA CAG ATC CAT CTT AGG ATC TAG GGA TGT TAC AGA TAA GAA AAC AAA TGT GAC AAA GAG CTG TCA CAA GGA
 6085 GGA TCT TCA AGG TCA CAG AAT CAC TGT CTT GAT TTT GAT TTT GAT TTT GAT TTT GAT TTT GAT TTT GAT TTT GAT TTT
 6163 GAA CTA TAT TCA TAT AAT GTA CCA ATG TCA AAT GGT TAA TTT TGG CTC TAT AGT ATA ATT ATG CAC TAA AAT GGT TTT
 6241 TGG ACA AAG AAA ATG ATG TTT ACA TCA AAG GTG AGG CCA TAT TTG TTA GGA ACA TAA CTT AAA AAC CAT TTT GGA TAA
 6319 CTA ATG AAA AGC CAT TTT GTG TGC CTT GGC ATA TCA TGC CTA AGC TGT CAC CAG ATA CAT CTA ATA AGA CCA TTT AAG CCA
 6397 CAG AAG CAA GCC CTT GCC CAG CAA GCA GGC AGC ACA GAT AAG AGC TAA ACC CAG GAC AGG CCA TGA TAT GCT AAT GAA
 6475 CTA CCT TCA AGG TGG TGT TGC TGA CCT AGT GAA CCA GCC CCA AGC TGT GAG CCC CAA TAG CAC AAA GCT ACT GCC CAA
 6553 AGA AAT TAT ACA AAA ATT GGA ACT TTG GGA ATG GTG TGC AGG ATC GCT CTG TAT GCC TGG AAC ACA GCT TCT CTA
 6631 TGT TTT GTA TTG ATA CCA GTC TAG AAG CTT CCA AAA CTT TCT GAT TTG CTT TTA TGT TAG CAT BAT ATT ATA AGG AAT
 6709 CTC TTT TGC CCA AAC AAC TGC TTC CTT CTT GGT GTG ATA TCT GAT TTG CTT TTA TGT TAG CAT BAT ATT ATA AGG AAT
 6787 GTT TGT GTG AAT AAA CCA AAC ATA TTT TAA AAG CAA ATA TTG TAT GCA CAT CTT AAT TGC TAA AAA GTT TAC AGC TAA
 6865 TAG TCC CAT GCT CTC CAC AAT ACT GSA TCC AAA TAA GTC CTA CGT GGA GAC AGA CTG AAG TGA CAC AAT TGT TAG TCA AAG
 6943 TTA AAA ATG AAG AGA CAT GCA GAG AGT GCA CCA TGC CAT CTT GGA GAC AGA CTG AAG TGA CAC AAT TGT TAG TCA AAG
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 7723 ATG TTC CTG TGG CTG ATG TCA CAC CCA GGA GTA TGC AGA CAA CAG AAA CTA GAG TTA ATG AGT TGT TTT AAA AAT AAA
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 8269 TTA TAG CAA TCC TGT TTA TAA CTG GGT AAC TTT GTG AAG GGA AAG TGC ACA CTG AGA TGT GCT ACA ACT TTT TAA
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 8503 TTT CGA GAC AGG GTT TCT CTG TAT AGC CCT GGC TGT CCT GSA ACC CAC TTT GTA GAC CAG GCT GGC CTC AAA CTC AGA
 8581 AAC CTA CCT GCC TCT TCT GCC TCT TCT GCC TCT TCT GCC TCT TCT GCC TCT TCT GCC TCT TCT GCC TCT TCT GCC

8659	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC
8737	TCT	GCC	TCT	GCC	TCT	GCC	TAG	TGC	TGG	AAT	TAA	AGG	TTT	SCG	CCA	CCA	COC	CCG	GTG	ABA	TTT	TTA	TTC	GOC
8815	AAC	TTT	TAT	YAT	GTC	TCA	TYC	TAT	CAG	ATA	GGA	CTG	TGT	ACT	TTG	GCT	TTG	GCT	TTG	CCT	TTG	CCT	TTT	AAA
8893	AGT	AAT	CGC	AAG	YTG	TAT	TGT	TGT	GCT	TTG	CTT	TTG	GCT	TTT	GCT	TTT	GCT	TTT	GCT	TTT	GCT	TTT	GCT	AAA
8971	TTG	CTT	TGC	TTT	GCT	CTT	TTG	CTT	TTG	CTT	TTG	CTT	GCT	TTT	TTG	CTT	TTG	CTT	TTG	CTT	TTT	TTT	CCC	
9049	TGG	ACT	CAT	AGA	GAT	CTG	CCT	TCT	TCT	GOC	CAA	GTG	CBA	ATG	CTG	TCC	TGG	GAA	CTC	ACT	ATA	TAG	ATC	AGT
9127	GCA	GCT	CAT	AGA	GAT	CTG	CCT	TCT	TCT	GOC	CAA	GTG	CBA	ATG	CTG	TCC	TGG	GAA	CTC	ACT	ATA	TAG	ATC	AGT
9205	TCC	CAA	GTT	TTA	SCA	AAA	ATT	TCT	TCT	AGA	CTT	GAC	ATT	AAT	CSA	TGG	AGA	TAG	ACA	TGA	ATT	ACA	CAA	ACT
9283	GAG	TTT	ACC	TGA	ATC	ATA	CTC	TAT	ACT	TTA	TCA	GAG	ATT	AAA	TTA	ACA	YYY	AAT	AAT	CCA	GTB	CCA	GGC	THG
9361	CAT	TCA	ATT	GCA	GTG	TTT	GCC	ATC	ATG	CAT	AGE	CTT	AGT	CTT	CAG	TGC	TGA	AAG	GCA	TTG	TGT	GBC	ATA	TTA
9439	ATA	CAG	ATG	AGA	AAC	TGG	GAA	AGA	CTT	GCT	TCA	GAT	TCT	CTA	CTG	ATA	AAA	GGC	TGA	GTG	TTT	GBC	TTT	TAG
9517	TAC	TTT	CAA	TAT	TAT	TAA	TGT	ATA	ATT	TTT	TTA	TTT	TTT	CCA	CTG	ATT	TTA	TTT	TTT	TTT	TTT	AAC	ATT	TAT
9595	ATG	CAA	TAA	ACC	AAA	DAC	RTG	GAC	AAA	ATA	CAA	GAA	TCA	TAT	GAT	ATA	TTT	TTT	TTT	AAC	ATT	TAT	TAT	AAA
9673	AAA	AGT	CTT	TGA	TAA	GAT	TCA	ACA	TYC	ACT	CTT	TTT	TTA	TGA	GAT	ATT	TTT	TTT	TTT	PAC	ATT	TAT	TAT	AAA
9751	AAA	GCC	CCC	TAT	ACT	TYC	CTC	GGC	CTT	GCT	CCC	CAA	CCC	ACC	CAC	TCC	TGC	TTT	CTG	GGC	CTG	ACA	TAT	CCC
9829	GAG	GCA	TAT	GAT	CTT	CAA	AAA	ACC	ABG	GGC	CTC	TCC	TCT	CAT	TGG	TGG	COG	ACT	ATT	AGG	CCA	TCT	TTT	ACT
9907	GCA	ACT	AGA	GAC	ACA	GCT	CTG	GGG	CTT	ACT	GST	TAG	TTT	ATA	TTG	TTA	GTG	CTC	CTA	TAG	AGT	AAA	ATC	TTT
9985	CTC	CTT	AGA	TAC	TTT	CTC	TAG	TTT	CTT	CAT	TAG	GGG	CCC	TGT	GYC	CCA	TCC	AAT	AGA	TGA	CTG	TGA	GCA	TCC
10063	GTA	TTT	GCC	AGG	CAC	TGG	CAT	AGC	CTC	AO3	AGA	AGA	AGA	GAT	GGA	TCC	CAA	AST	GGA	GCA	GYC	TCT	GAA	TGG
10141	TAT	GCA	ATA	GTA	TCT	GGG	TTT	GGT	GCT	TGT	ATA	TGG	GAT	GGA	TCC	CAA	TTT	YGT	TCC	CCA	TTT	TAA	GGA	GTG
10219	CCA	TYC	CAG	CTC	CAA	ACT	TTG	TCT	CTA	TAA	CTC	CTT	CCA	TGG	GTA	TTT	TTG	TCT	TAA	GGA	GGA	GTG	ABA	AAF
10297	CCA	CAC	TTT	GCT	CTT	CCT	TCT	TCT	TGA	GTT	TCA	TAT	GTT	GGA	TCT	TGG	ATA	TCT	TAA	GTT	TCT	GAG	TTA	TAT
10375	TAT	CAG	TGA	GTG	CAT	ATC	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG
10453	TTT	GCC	TAA	GAA	TTT	CAT	TAA	ITC	ACT	GTT	TCT	TAA	ITC	ACT	GTT	TCT	TAA	ITC	ACT	GTT	TCT	TAA	ITC	ACT
10531	TAT	CCA	TYC	CTC	TGT	TGA	GGG	GCA	TCT	GGG	TYC	TTT	CCA	TCT	GGC	TAT	TAT	AAA						

Figure 12 contd

12403 TAA CTA CTT AAT AGG AGA TTG GAT GTT AAG ATC TGG TCA CTA AGA GGC AGA ATT GAG ATT CGA AGC CAG TAT TTT CTA
 12481 CCT GGT AUG TTT TAA ATT GCA GTA AGG ATC TAA GTG TAG ATA TAT AAT AAT AAT AAT AAT AAT AAT AAT AAT AAT AAT
 12559 GAG AGT GGT AGA TTT GTT TGG AAA AAA ATA TTA TCA GCC AAC ATC TTT TCA TGG TGA CTG GCC ATG GAA GAT TAA AAA AAG
 12637 CCA TAT CTC CCC CAT CCC CCA TAC CAG ACT GAT TAT TGA TTT TCA TTT TCA TTT TCA TTT TCA TTT TCA TTT TCA TTT
 12715 TAA TGC TAC CTT ATT GGG AGT GTC CCA TGG ACC AAG ATA GCA ATT GTC CTT ATG GCT ACC GTC TCC AAC AGC CTG GGT
 12793 AGA CCC TTT GAG GAA CTG AAA ACA GAA CTT TAG GCA CTA CTG TTT GTC CTT ACC CCA GCA CCT GGC CAA GGC TGT ATC
 12871 GGT GCA CTC CAC ACC CTT TCA AGT TTC CAA AGC CTC ATA CAC CTG CTC CTT ACC CCA GCA CCT GGC CAA GGC TGT ATC
 13027 TCC CAA TGC TTT TGC ACA GTC AAA ACT CAA CTT GAA ATC AGT ATC CTT GAA GAG TTC TGA TAT GGT CAC TGG GCC
 13185 CAT ATA CCA TGT AAG ACA TGT GGA AAA GAT GTT TCA TGG GGC CCA GAC ACG TTC TAG AAG TAC CTG AGA GTG GCA AAA
 13183 AAT AGT TGT GCT AAA TAG TTT GGC CAT CTT TAG GCT GAG AGA CTA GGA AAT ACA GCG ATG GAC TAT ATC AGC ATT GCA
 13361 GGA TAG TTG TCA GTA AAC ACC CCA CAA CCC ATA GAA GTA TTC TCT TCT TAT ATC CCT TTT CCA TCC ATG TAG
 13339 ATG GCT GTC TTC ATA TTT GTT CTA GAC GGC CGG CC

VKP-IGKV1-39/J-Ck-Δ1

1 GGC CGG CCC ACA TGA AAC AAT GGG AAC CAT GTG ACA ATC ACA GAG GTG TTG TTA CTA TAG CAA AAG GGA TTG TTA CTC
 79 TCC ACA TCC CTT TAA GTA ACT TGA AGC CCT GAT AGA CCC ACC CTC TTA GAC TTC ATT AGA CAT TCC CTA CGA ATG GTT
 157 ATA CTC TCC TGT ATA CTC CCA ATA CAA CTC TAA AAT ATA TTA TTC CAT ATA GTC CTT AGG TTT GTA TTA AAG TTT GAC
 235 TTT TTT CTT TCA AAA TAT CTC TTG TCA CAA CAG CGS CTC TNG AGA GAA ATA CAT TCC CTC CAG GCA AAT CTA TGC TGC
 313 GCT GGT CTG ACC TGG GAC ATT GCC CTT GGT GAC ATT GGC CTT GGT TAC TTA GAT GAG CCA GGC CTG CAG CTG TGC TCA
 391 GGC TGC CCC ATG ATG CCC TGC TGA TTG ATT TGC ATG TTC CAG AGC ACA GGC CCC TGC CTT GAA GAC TTT TTT ATG GSC TGS
 469 TGG CAC CTT GTG CAG GAG TCA GTC TCA GTG AGG AGC CAC CAT GAG AGT GCT CGC CCA GCT CCT GGG GCT CCT
 547 GCT ACT CTG GCT CCG AGG TAA GGA TGG ACA CTA GGA ATT TAC TCA GCC AGT GTC CTC AGT ACT GAC TGG AAC TTC
 625 AGG GAA GTT CTC TGA TAA CAT GAT TAA TAA TAT TTG TTT TTA TGT TTC CAA TCT CAG GTG CCA GAT TGG AAG TTC
 793 TCC AGA TGA CCC AGA GGC CCA GCA GGC TGA GCG TGG GCG ACA GAG TGA CCA CCT GCA GAG CCA GGC AGA
 781 TCA TCA GCA GCT ACC TGA ACT GGT ATC AGC AGA AGC CCG CCA AGH CCC CCA AGC TGC TGA TCT ACG CCG CCA GCT CCC
 859 TGC AGA GCG GCG TGC CCA GCA GAT TCA GCG GCA GCG CCG ACT TCA CCA CCG TGA TCT ACG CCG CCA GCT CCC
 937 CCG AGG ACT TCG CCA CCT ACT ACT GCG AGC AGA GCT ACA GCA CCC CCC CCA CCT TCG GCC AGG GCA CCA AGG TGG AGA
 1015 TCA AAC GTA AGT ACA CTT TTC TCA TCT TTT ATG TGT AAG ACA CAG GTT TTC AUG TTA GGA GTT AAA GTC AGT TCA
 1093 GAA AAT CTT GAG ABA ATG GAG AGG GCT CAT TAT CAG TTG ACG TGG CAT ACA GTG TCA GAT TTT CTG TTT ATC AAG CTA
 1171 GTG AGA TTA GGG GCA AAG AGA GGC TTT AGT TGA GAG GAA AGT AAT TAA TAC TAT GGT CAC CAT CCA AGA GAT TGG ATC
 1249 GGA GAA TAA GCA TGA GTA GTT ATT GAG ATC TGG GTC TGA CTG CAG GTA GCG TGS TCT TCT AGA CGT TTA AGT GGG AGA
 1337 TTT GGA GGG GAT GAG GAA TGA AGG AAC TTC AGG ATA GAA AGC GGC TGA AGT CAA GTT CAG CTC CTA AAA TGG ATG TGG
 1405 GAG CAA ACT TTG AAG ATA AAC TGA ATG ACC CAG AGG ATG ABA CAG CGC AGA TCA AAG AGG GGC CTC GAG CTC TGA GAA
 1483 GAG AAG GAG ACT CAT CCG TGT TGA GTT TCC ACA AGT ACT GTC TTG AGT TTT GCA ATA AAA GTG GGA TNG CAG AGT TGA
 1561 GTG AGC CBT AGS CTG AGT TCT CTC TTT TGT CTC CTA AGT TTT TAT GAC TAC ABA AAT CAG TAG TAT GTC CTG ABA TAA
 1639 TCA TTA AGC TGT TTG ABA GTA TGA CTG CTT GCT AGT TAG ATA CCA TGG CTT GCT TGA CAG AAT TGA GAT GTG TGA CTC
 1717 TTA TTC TAA AAT TTG TCA CAA AAT GTC AAA ATG AGA GAC TCT CTA TGG CTT GCT TGA CAG AAT TGA GAT GTG TGA CTC
 1795 TTT TTC CTT TGT CTC ATT TCT ACA TGA AAG TAA ATT TGA AAT GAT CTT TTT TAT TAG AGT AGA AAT ACA GTT GGG
 1873 TTT CAA CTA TAT GTT TTA ATG GCC AGC GTT TTG TAA CAC ATT TGG TCC TTT GTT CTC CCA GTT ATT CCA GTT GGT GGG
 1951 TTT TAT ATC GCC AGC AAT GGA CTG ABA CCG TCC CCA ACC TCT TCT TTA CAA CTG GGT GAC CTC GCG GCT GTG CCA GCC
 2029 AAT TGG CTT TCA CCC TGC CGC TAA GGG CCA TGT GAA CCC CCG TAG CAT CCG TTG CTC GCG GAG CAC TTT CCT
 2107 GAG CCA CAG TCA TAG GAA CAG AGC CAC TAA TCT GAA GAG AAC AGA GAT GTG ACA GAC TAC ACT AAT GTG AGA AAA ACA
 2195 AGG AAA GGG TGA CTT AAT GGA GAT TTT GCA AAT AAG ATA AAT AAT TTA TTA TTA TCC CTT ATT TTA ATT TTC TAT TAG
 2263 GGA ATT AGA GAG GGC ATA AAC TGC TTT ATC CAG TGT TAT ATT AAA AGC TTA ATG ATA ATC TTT TAG AGG TAA AAT
 2341 CTA CAG CCA GCA AAA GTC ATG GTA AAT ATT CTT TGA CTG AAC TCT CAC TAA ACT CCT CTA AAT TAT ATG TCA TAT TAA
 2419 CTG GTT AAA TTA ATA TTA ATT TGT GAC ATG ACC TTA ACT GGT TAG GTA GGA TAT TTT TCT TCA TGC AAA AAT ATG ACT

Figure 12 contd

2497 AAT AAT AAT TTA GCA CAA AAA TAT TTC CCA ATA TAT TTC GAT AGA AAA ATG TTT AAC TCA GCT ACT ATA ATC
 2575 CCA TTA TTT TGA AAA TGA TAT TTT TGT TCT GCT TCT GCT TCT GCT TCT GCT TCT GCT TCT GCT TCT GCT
 2653 GAC AGG AGA AAA TGA AAG CCA GTT TCT GCT TCT GCT TCT GCT TCT GCT TCT GCT TCT GCT TCT GCT
 2731 ATA AAC TGG TCT GAA TGA TGA TGA TGA TGA TGA TGA TGA TGA TGA TGA TGA TGA TGA TGA TGA TGA
 2809 GCC TGA GAA TAT CTT CAA AGG GTC AGA CTC AAT TTA CTT TCT AAA GAA GTA GCT AGC TAA ACT TAG AAA
 2887 CAA CAA GAT TGT ATA TAT GTG CAT CCT GGC CCC APT GTT TTA CTT TTT TTT TTT TTT TTT TTT TTT TTT
 2955 TAT ATA CAA TAA CTG TTT ACA CAT AAT ACA CTG AAA TGG AGC CCT TCC TTG TTA CTT CAT ACC ATC CTC TGT GCT TCC
 3023 TTC CTC AGG GGC CGA GCT TTT CCA CAG GGC TCC CAT CTT CCC CCG CAT GAT GAA GCT GAC CTC TGG CAG AGC CAC
 3121 CGT GGT CTG CTT GGT GAA CAA CTT CTA CCG CAG AGA CAT CAG CAG CAG CAG CAG CAG CAG CAG CAG CAG
 3199 CGG CGT GCT GGA CAG CAG CGT GAC CGA CCA GGA CAG CAA GGA CAG CAG CAG CAG CAG CAG CAG CAG CAG
 3277 GGT GGA GTA CGA GAG CAA CAA CTT GTA CAC CTG CGA GGT GGT GGA CAG CAG CAG CAG CAG CAG CAG CAG CAG
 3355 CAA CCG GAA CCA GTG TTG AAG ACA AAG GTC CTG AGA CCG CAG CAG CAG CAG CAG CAG CAG CAG CAG CAG
 3433 AGG TCT TGG AGG CTT CCC CAC AGG CGA CTT ACC ACT GGT GGG GTC CTA ACC TCC CCA CTT CTT TCT CTT CTT
 3511 CTT CCC TTT CTT TGG CTT TTA TCA TGC TAA TAT TTG CAG AAA ATA TTC AAT AAA GTG AGT CTT TGC ACT TGA GAT CTC
 3589 TGT CTT TCT TAC TAA AUG GTA ATC AGT TGT TTT TCC ACT TAC CTG GGT TTC TGT TCT AAA GAA GTT AAA TGT TTA
 3667 GTT GCC CTG AAA TCC ACC ACA CTT AAA GGA TAA ATA AAA CCC TCC ACT TGC CTT GGT TGG CTG TCC ACT ACA TGG CAG
 3745 TCC TTT CTA AAG TTC ACG AGT ACT AAT CAT GGC TTA TTT CTC TGG GGC ATG GTA GGT TTG AGG AGG CAT ACT TCC TAG
 3823 TTT TCT TCC CTT AAG TCG TCA AAG TCC TGA AGG GGG ACA GTC TTT ACA AGC AOA TGT TCT GTA ATC TGA TTC AAC CTA
 3901 CCC AGT AAA CTT GGC GAA GCA AAG TAG AAT CAT CAG CAG AAG CAA AGG CAA CCT AAA TGT GCA AGC AAT AGG AAA
 3979 ATG TGG AAG CCC ATC ATA GTA CTT GGA CTT CAT CTG CTT TGG TGC CTT CAC TAA GTT TTT AAA CAT GAG CTG GCT CTT
 4057 ATC TGC CAT TGG CAA GGC TGG GCA CTA CCC ACA ACC TAC TTC AAG GAC CTC TAT ACC GTG AGA TTA CAC ACA TAC ATC
 4135 AAA ATT TGG GAA AAG TTC TAC CAA GCT GAG AGC TGA TCA CCC CAC TCT TAG GTG CTT ATC TCT GTA CAC CAG AAA CTT
 4213 TAA GAA GCA ACC AGT AAT GAG AGA CTC AAT TAT GAT CTA AAA CTG GAT ACA ACC AAT ATG ATG TCC ACC AAC AGT TAA
 4291 ATT ATG ACA TGT TCA CAA TTG AGC TAT TAC TTA ATA AGG AGA ATT AAT AAA ATA AAA CTT AAG AGC ATA GTT TAA TCT
 4369 CAT AAA CAA GAT AAT AAG CAA AAC AAA ACA TTT TTT CAT CCA TGT AAG TTT AAG TTA AAA TTA AAA TTA AAA
 4447 GAG ACA TAA GTT TTG AGG TAG CAA GAT GGA AAC TCT GGT GGT GGA ATG TTC TGT CTC TCT GTA TGG GAT GTG AAA
 4525 GTT ACT ATT GTG GAA TTG GGA TAT TCA AGG GAT ACA AGG AAT GAA TCA TAC TCC AAG GCC AGA AGT CCA ATA AAG AAA TAT
 4603 CTA ATA CCG AGT GCA TAC ATA AAA GAG GAT ACA AGG AAT GAA TCA TAC TCC AAG GCC AGA AGT CCA ATA AAG AAA TAT
 4681 ATC CAG GAT CAA ATC TCC CAC AAC CTT GAG CTT TCT ACT AAT CTG CTT TCC AGA GCT CCA AGT ACA AAA CAC ATA ATT
 4759 CAA ACA CAT GAT CCG TCC TTG GGT TCT CTT CTT TCA TGC ATC GAA TTA GAA ATA GGC AUG TAT AAA ATG AGA TAG TAG
 4837 AGA CTT TCA TCA ACA GGT CAA GAT ATA TNG GTA ATT TTG TCT GGT TAT GAA GAG CCC ACG TAT CAA AGG TTA CAT TAG
 4915 GGA AGG AAG AGG ACA CTA ACA GTG ACT TTC ATT CTC CCC CTC TTC CTG GAG GCC CCG GCA TTT AGT CCC TCG TGG GCT
 4993 CAT CCA CTC AGC ACA CAT TTA CTA AGC ATC TTC TCA GCC TAC ACT CTG AAG GCA GTG CAG AAT AAT GTT AGT GTC CTT
 5071 TCC CCC AGT TAA TAT GCA GTC CAG TTT CCC TGC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC
 5149 CAC CAA ATA GGA GAG GGC AAC CTT TTG CTT TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC TCC
 5227 TTA ATT GCT TTT TTT TTA TTT GTC TTT TCA AAT AGC ATA ACC TTG TTC ATC CAT TTC TGG GAA CCA AAT TTA TCA ATC
 5305 AAC AGT GTC TCT AAT CTG GCT ATT AAT ACA AAA ATG CCT CTT CAA AAT ATA TAT GTT CGA GTC TTA TCT AAA ACA GAA
 5383 CCC ACA ATA AAA AAG AAG AAA GAA TAC TAT TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA
 5461 TAA TCT AAT GTC ACA TGC TGT ATT TTT TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA
 5539 CTG ATC CTA GGA TCT AGG GAT GTT ACA GAT AAG AAA ACA AAT GTG ACA AAG AGC TGT CAC AAG GAT CTT CAA GGT
 5617 CAC AGA ATC ACT GTC TTG ATT TCA GTG GTG GGT CTA TAC ATA TAA TTA TTT ACT AAA TAA TTT TTT TTT TTT TTT
 5695 ATA TTG TAC CAA TGT CAA ATG CTT AAT TTT GGT TCT ATA GTA TAA TTA TTT ACT AAA TAA TTT TTT TTT TTT TTT
 5773 TGA TGT TTA CAT CAA AGG TGA GGC CAT AAT TGT TAG GAA CTA AAT AAC TTA AAT AAC TTA TTA TTA TTA TTA TTA
 5851 ATT TTG TGT GCT TTG GCA TAT CAT GCT TAA GCT GTC ACC AGA TAG ATC TAA TAA GAC CTA AGC CTC AGA AGC AGC CCC
 5929 CTG CCC AGC AAG CAG GCA GCA GCT AAG GCT AAG ACT GAT GAT AAT AGT AAT GAT AAT GAT AAT GAT AAT GAT AAT
 6007 GGT GGT GCT GAC CTA GTG AAC CAG CCC AAT GTG AGC CCC AAT GAT AAT GAT AAT GAT AAT GAT AAT GAT AAT
 6085 AAA TTG GAA CTT TGG GAA TGG TGT GCA GGA TCG CTC TGT TAT TAT TGA
 6163 TAC CAG TCT AGA AGC TTC CAA AAC TTT CTC ACT GAA GAA GAT TCC CCA TGT GGG ACC CCT ACA GAC TCT TTT GGC CAA

Figure 12 contd

6241 ACA ACT GCT TCC CTC CTG GTG TGA TAT TAT CTG TTT TGC TTT TAT TAT GGT AGC ATA ATA TTA TAA GGA ATG TTT GTG TGA ATA
6319 AAC CAA ACA TAT TTT AAA AGC AAA TAT TGT ATG CAC ATC CTA ATT GCT AAA AAG TTT ACA GCT BAT AGT CCC AVG CTC
6397 TCC ACA ATA CTG GAT CCA AAT AAG TCC TAA TTT CAA TGT TGG GCA TCT TTA CAG AGA GAA CAT TAA AAA TGA AGA
6475 GAC ATG CAG AGA GTG CAC CAT GCC ATC CAG AGC TGA AGT GAC ACA ACT GGT CAA AGA GGA TTA AGS ACT
6553 TCC AGA AGC CAC CAA AGG AAG GAG GTA TGA AGT GGT TTC CAC AGA GTA TCC CTC AGA GGA GAC TAA ACC AGC CAA CAC
6631 CTT TTT GCT TAA GAC TTC TTG CTT TCA GGA CTG TGA GAA GGT AGC TTC TTA TTA GGC CCA CCA GGA TGT GGC ATT
6709 TTG TTA AGG TAG AGT CAA GAA ACC AAT AAA ATG CAG ACA GAC AAA AGG ATA GCT GAG TTT TCC AGG CCC TTC CTT CTT
6787 AAT TTT GGT TTT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT GGT
6865 GGG GTT TTT TTG GGT TTT GGT TTT GGT TTT GGT GGT TTT GGT GGT TTT GGT TTT GGT TTT GGT TTT GGT TTT GGT
6943 TTT TTG TTT TTT TGA GAC AGT GGT TCT CTG TAT AGC CTT GGC TGT CCI GGA GTT CTT TCT ATC TCT AAT GTC TAC ATC
7021 TCA GAG GGG ATC CTC TAA TTT CAA ATG AGC AGT AGC TCT CCA TTT TTA GCT CTT ATT TAT TCA TTT ATT TAC TTA CTT
7099 ACT TAT TGT CTG TAG ATG AAA GAA TTT TGG AGT GGG AAA GGG TTC ATG AGC CCC CAG CAA CTA ATG AGG AGC TAC AGA
7177 CAA TTG ATG TTT CTG GGG AAA GGA GAC TCA GTT TCT TTG AGA GTA TAG CTT CTG ATG GGT CAA CCA TGT TCC TGT GGC
7255 TGA TGT CAC ACC CAG GAG TAT GCA GAC AAC AGA AAC TGG AGT TAA TGA GTT GGT TTA AAA ATA AAA AAG GGC ATG AAG
7333 CTT GGG ATA GAA ATT AAG GAT AAA TAC AAT TAA ATA CAG GAA ATT CTG AAA GAA TTA ATA ACA TTT CTT TTT TTA
7411 AAA AAT AAT CCA GAA TTA GCT ATG CTT CTT CAA AAT TGG TTT TCG AGA ACT TTA CAA GTT AAA TAA GTT ATA TTG TAG
7489 AAA AGG TAG AGA GGA GAA TAG TGG AAG AGA GAG ATA AGS AGA CTT CAA AAG GAG TGG AGG GAG ATA GAG GAG GAG AAA
7567 GCA GAA GCA ATG GCT GAT AGA CAC AGS ATA AGA GGG AAC AGA AAG GAG AAA GAG GAA GCC AGG ATG GGT ATT TCT TTG
7645 GAG TCT TTC TTT CTT ATA ACC AGS CCC CCA GTA TGC TCA TGT ATG TAT CAG GTC CTC TTA TCT CTT TAT AGC AAT CCT
7723 GTT TAT AAC TGG GTA ACT TTG TGA AGG GAA GGA AGT GCA CAC TGA GAT GTG CTA CAA CTT TTT AAT ACA AAA TTT TGA
7801 CTA TAT ATA TGG GTT AAA TCA ATA TAT TAA TTT CAA GTT TTA TTA TTT AGA TTT TGA TTT CAA CTC AAG ATA CTA ATT
7879 AGA GTT TGT ACA ATG TAT GTA TAA TTA ATA ATT AAT ATT ATG CAC TTT AGA TTT TGA TTT CAA CTC AAG ATA CTA ATT
7957 TTT CTC TGT ATA GCC CTG GCT GTC CTG CCA GTT TAA TTT CAA GTT TTA TTA TTT CAA CTC AAG ATA CTA ATT
8035 TTT CTC TGT ATA GCC CTG GCT GTC CTG CCA GTT TAA TTT CAA GTT TTA TTA TTT CAA CTC AAG ATA CTA ATT
8113 CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT
8191 CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT
8269 CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT CTG CCT
8347 TCT CAT TCT ATT TCT ATC AGA TAG GAC TGT GTA GAC TGT GCT AAA CTA ATA AAT GTG CCC TCA AAA GTT TAC ATA GCA AGT
8425 TGT ATT GTT GTT GTT TTG CTT TTG CTT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT
8503 CTT TGC TTT GCT TTG CTT TTG CTT TTG CTT TTG CTT TTG CTT TTG CTT TTG CTT TTG CTT TTG CTT TTG CTT TTG CTT TTG CTT
8581 GCA GAA AGA AYC TTA CTA TGA AGC TCT GAC TGT CTT GGG AAC TCA CTA TAT AGA TCA GGC TTG ATT CAA CTC ATA GAG
8659 ATC TGC CTT CTT CTG CCT CCC AAG TGC TGG GAA TAA AGG CAT ACA CCT CCA TGC CCA GAT AGT GAT CCC AAG TTT TAG
8737 CAA AAG TTT CTA GAC TTG ACA TTA ATC GAT GGA GAT AGA CAT GAA TTA CAC AAA GAA CTA ATG TGG AGT TTA CCT GAA
8815 TCA TAC TCT ATA CTT TAT CAG AGA TTA AAT TAA CAT TTA ATA ATC CAG TGC CAG GCT AGA GGC ACC ATT CAA TGG CAG
8893 TGT TTG CCA TCA TGC ATA GGC TTA GTC TTT AGT GCT GAA AGG CAT TGG GGG CAA TAT TAC TCA TTA TAC AGA TGA GAA
8971 ACT GGG AAA GAC TTG CCT CAG AAT CTC TAC TGA AAG GCT GAG TTT GTG GGT TCT AGA AAA TCT TTT ACT TTC AAT ATT
9049 TTT AAT GTA TAA TTT TTT TAT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT
9127 AAT ACA TGG ACA AAA TAC AAG AAT ACT ACC TCA ATG GAA GGA AAA AAG AAA AAG AAA AAG AAA AAG AAA AAG AAA AAG
9205 AAG AAT CAA CAT TCA TTC TTT TAT TAG ATA TTT TCT TCA TTT CAA ATG CTA TCC CCA AAG CCC CCT ATA
9283 CCT TCC CCT GCC CTG CTC CCC AAC CCA CCC ACT CCT GCT TTC TGG CCG TGG CAT TCC TCT GTA CTG AGG CAT ATG ATC
9361 TTC AAA AAA CCA AGG GCC TCT CTT CTC AAT TGT TAG TCC TCC TTA GGC CAT CTT TTG CTA CAT ATG CAA CTA GAG ACA
9439 CAG CTC TGG GGG TTA CTG GTT AGT TCT TGT TAG TCC TCC TTA GAT GAT GAC CCC TTT AGC TCT TTG GAT ACT
9517 TTC TCT AGT TCC TTC ATT AGG GGC CTT GTG TCC CAT CCA ATA GAT GAC TGT GAA GAT CCA CTT CTG TAT TTG CCA GGC
9595 ACT GGC ATA GCC TCA CCA GAA AGA GAG AGC TAT GTC AGG ATC CTG TCA AAA TCT TTC TGG CAT ATG CAA TAG TAT
9673 CTG GGT TTG GTG GTT GTA TAT GGG ATG CAT CCC CAA GTT CTT CTG AAT GGT CTT TCC TTC CAT CTG AGC TCC
9751 AAA CTT TGT CTC TAT AAC TCC TTC CAT GGG TAT TTT GTT CCC CAT TCT AAG AAG TGA TGA ATC CRC ACT TTG GTC
9829 TTC CTT CTT GAG TTT CAT ATG TTG CAT CTT GGA TAT TCT AAG TTT CTG TAT CCA GAT ATA AGT GAG TGC
9907 ATA TCA TGC GTG TTA TTT TGT GAT TAG TTT ACC TCA CTC AGG ATG ATA TCC TCC AGA TSC ATC CAT TTG CCT AAG AAT

Figure 12 contd

9985 TTC ATT AAT TCA CTG TTT TTA ATT GCT GAA TAG TAC TCC ATT GTG TAA ATG TAC CAC AAT TTC TGT ATC CAT TCC TCT
 10053 GTT GAG GGG CAT CTG GGT TCT TTC CAG CTT CTG GCT ATT ATA AAT AAG GCT GCT ATG AGC ATA GCG GAG CAT GTS TCC
 10141 TTA TCA AGT TGG AAC ATC TTC TAG GTA TAT GGC CAG GAG AGG AAT TGC TGG ATC TTC CGG TAG TAC CAT CAA CAT GCA
 10219 TTC TTA ATA AAA GCC CTA GAA CAA GGA CTG TAG GAA ACA TAT TCC AAC ATA AAG GAT ATG TAT GAC AAA CTC
 10297 ATG ACC AAT ATC ATC CTA AAT GAA TGA AAT GAT TAA TAA GCT CCA TTA AAA TCA GAG GAG TGC CCA CTA TCC CTA CTT
 10375 CTC ATC CAT AAT GAG ATT GAA GCA TTA GCT GAT GAA CAA AGG CAA GGA TAC AAG TGG GAA AAT ATT AAG TCA
 10453 AAT TGT TTT CAA TTG AAG ATT ATA TTA TCT TAT ACC CAA TGA CCT CAA ATT TTG ACT AGA AAA ATT GTA GAA ATT ATC
 10531 AAT AAT TTC AGC AAA GTG TTA TGA TGC ACC ACA TCC TTA TTC TCC CCA GCT TCT GCT TGC TTC TCT CTT GCT
 10609 CTT CAT CCT TTC TGT CCT TCC ATC TGC CTG CAC TCT TGT CTC AAG ACT GAG TGC AGC GTG TAA CTC TCC TGT GAC TGA
 10687 GTA TCT CAC AAA ACG TTC TAG CTG CCA AAC CTG GAT GAG CCC TTT GTC TTT CTG AAG CTA TGA GGC TCT CTA CAT AGA
 10765 CTC AAG AAG GAA ATG ACA GGG AGG TAA TGA AAT GGT GGG GAA GGC TGA CAT TAG CAT TGC TCC TGT GTG GCT CCT
 10843 TAA TTT CTC ATA CTT CAC ACT GAG ATG TTA TTA ACT GTG ACT CAT AGG TGA AGA AGC CAG TAA GGT TCT CAT ATT
 10921 TGA GTG TTA TAG AAT GAG TAG AGC AGT AGT TCT CAA ACT ATG GGT CAT GAC TCC TTT ATG GGT CAA ACT ACC CTT TCA
 10999 CAC AGG TTG CAT ATC AGA TAT CCT AAT TTT ATA TAC ATA TAT ATA TSC AYA TGT ATA TAT ATA TAT TTC ACA ACA GTA
 11077 GGA AAA TTA TTT AGT AAT CAY TTT ATA GTT GTG GGT CAT GGC AAC ATG AGG AAC TGT ATT AAA GGG TTG CAG CAT TAG
 11155 GAA TGT TGA GAC CCA CTG TAA TAG AGA ATG AGG CTT AAG GCA GGG CTA TAA AGC CCA ATG GAC CAT GTG CTT TTT CCA
 11233 ACA TTT GCC ACA TGS TAA GCT CTG TAT AGA CTT TTT AAA GAA CAT TGG TTT GTA ATT TTA AAT GGA TAA GGG TCT TCA
 11311 CTG TCT ATC ACC CAT CTA TAT AAT AAA TAC ATA AGT TTT GAT TCC ACC ATG GAT TCA AAT GCA AAA ATC CTC AAC CTA
 11389 AGA CAT AGC AGT GAA ACA TTG ATG ACC AAA TAG GAA ATC CAT GTA GAG ACC TTC TAT CTT CTG ATG GCT CCA CAG GCA
 11467 CCA TCT TGC AAC AGA GTT CTA CTT TGC TAC CAG TAA TGA ATA CAG TGT CTC AAC TCC TGC CAT TGA ATC TTC AGG AAG
 11545 CCC CTG AAA TGA CTT GTA CTA CAC CAT TTC TTA AAG ACA GAA AAG CTA AGA CTT AGA GGG AAT AAA TGT CAT GCT TGA
 11623 GAT CAT GCA ACC AAT TAA GTC CAT CTT GGC CTG ATC BAG AGG CAC ART TCA AAA GCA ATG TTG TTC CTT CAC TAG CTC
 11701 TTG TGT ATG GTT GCT GAT TCC GGA AGC AAA GTA TCA GTG AAT ATC CCT AGT GGG AAA AGA CTT GGA AAT CAA ATG TCT
 11779 CAT TTA ACA GAT TAG GAG ATG AAR CGS TAG ACT CTG TGT AGT TGT ACA CCC CTG TGA TCC CAT CGC TAG GAA GAC TGA
 11857 GGC AGG AAG TCC TCG AGC TCA AAT CAG CTT AGG CTA CAC AGA GAA ACT ATC TAA AAA ATA ATT ACT AAC TAC TTA ATA
 11935 GGA GAT TGG AAG TTA AGA TCT GGT CAC TAA GAG CCA GAA TTG AGA TTC GAA GCC AGT ATT TTC TAC CTG GTA TGT TTT
 12013 AAA TTG CAG TAA GGA TCT AAG TGT AGA TAT ATA ATA AGA TTC TAT TGA TCT CTG CAA CAA CAG AGA GTG TTA GAT
 12091 TTG TTT GGA AAA TAT TAT CAG CCA ACA TCT TCT ACC ATT TCA GTA TAG CAC AGA GTA CCC ACC CAT ATC TCC CCA
 12169 CCC ATC CCC CAT ACC AGA CTG GTT ATT GAT TTT CAT GGT GAG TGG CCT GAG AAG ATT AAA AAT AGT AAT GCT ACC TTA
 12247 TTG GGA GTG TCC CAT GGA CCA AGA TAG CAA CTG TCA TAG CAC TGC TGC TAT GAT CAA GAA GAC CCT TTG AGG
 12325 AAC TGA AAA CAG AAC CTT AGG CAC ATC TGT TGC TTT CGC TCC CAT CCT CCT CCA ACA GCC TGS GTG CAC TCC ACA
 12403 CCC TTT CAA GTT TCC AAA GCC TCA TAC ACC TGC TCC CTA CCC CAG CAC CTG GCC AAG GCT GTA TCC AGC ACT GGG ATG
 12481 AAA ATG ATA CCC CAC CTC CAT CTT GTT TGA TAT TAC TCT ATC TCA AGC CCC AGG TTA GTC CCC AGT CCC AAT GCT TTT
 12559 GCA CAG TCA AAA CTC AAC TTT GAA TAA TCA GTA TCC TTG AAG AGT TCT AGT ATG GTC ACT GGG CCC ATA TAC CAT GTA
 12637 AGA CAT GTG GAA AAG AUG TTT CAT GGG GCC CAG ACA CGT TCT AGA AGT ACC TGA GAG TGG CAA AAA ATA GTT GTG CTA
 12715 AAT AGT TTG GCC ATC TTT AGG CTG AGA GAC TAG GAA ATA CAG CGA TGG ACT ATA TCA GCA TTG CAG GAT AGT TGT CAG
 12793 TAA ACA CCC CAC AAC CCA TAA CAG AAG TAT TCT CTT ATA TCC CTT TTC CAT CCA TGT AGA TGG CTG TCT TCA
 12871 TAT TTG TTC TAG ACG GCC GGC C

Figure 12 contd

VKP-IGKV1-39/J-Ck-Δ2

1 GGC CGG CCC ACA TGA AAC AAT GGG AAC CAT GUG ACA ATC ACA GAG GTG TTG TTA CTA TAG CAA AAG GGA TTG TTA CTC
 79 TCC ACA TCC GTT TAA GTA ACT TGA AGG CCT GAT AGA CCC ACC CTC TAA GAC TTG TTA CTT AGG TTT GTA TTA BAG TTT GAC
 157 ATA CTC TCC TGT TAA CTC CCA ATA CAA CTC TAA AAT ATA TTA TTC CAT ATA TTA TTA TTA TTA TTA TTA TTA TTA TTA
 235 TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT
 313 GCT GGT CTG ACC TGG GAC CTT GGG GAC CTT GGG GAC CTT GGG GAC CTT GGG GAC CTT GGG GAC CTT GGG GAC CTT GGG
 391 GCC TGC CCC ATG CCC TGC TGA TTG ATT TGC ATG TTC CAG AGC ACA GGC TGC CTT GAA GAC TTT TTT TTT TTT TTT
 469 TCG CAC CCT GTG CAG GAG TCA GTC TCA GTC AGG AGC ACA CTA GGA ATT TAC TCA GCC AGT GTG CTC AGT GAC TGG AAC TTC
 547 GCT ACT CTG GCT CCG AGG TAA GGA TGG AGA ACA CTA GGA ATT TAC TCA GCC AGT GTG CTC AGT GAC TGG AAC TTC
 625 AGG GAA GTT CTC TGA TAA CAT GAT TBA TAG TBA GAA TAT TTG TTT TTA TGT TTT CAG GTG CCA GAT GTG ACA
 703 TCC AGA TGA CCC AGA GGC CTA GCA GCC TGA ACT GAT AGC AGA GGC CCG GCA GAG TGA CCA TCA CCT GCA GAG CCA GGC AGA
 781 GCA TCA GCA GCT ACC TGA ACT GAT AGC AGA GGC CCG GCA GAG TGA CCA TCA CCT GCA GAG CCA GGC AGA
 859 TGC AGA GCG GCG TGC CCA GCA GAT TCA GCG GCA GCG GCT CCG GCA CCG ACT TCA CCA TCA GCA GGC TGC AGC
 937 CCG AGG ACT TCG CCA CCT ACT ACT GCT AGC AGA GCT ACA GCA CCC CCC CCA CCT TCG GCG AGG GCA CCA AGG TGG AGA
 1015 TCA AAC GTA AGT ACA CTT TTC TCA TCT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT
 1093 GAA AAT CTT GAG AAA ATG GAG AGG GCT CAT TAT CAG TTG AGC TGS CAT ACA GTG TCA GAT TTT CTG TTT ATC AAG CTA
 1171 GTG AGA TTA GGG GCA AAA AGA GGC TTT AGT TGA GAG GAA AGT AAT TAA TAC TAT GGT CAC CAT CCA AGA GAT TGG ATC
 1249 GGA GAA TAA GCA TGA GTA GTT ATT GAG ATC TGG GTC TGA CTG CAG GTA GCG TGG TCT TCT AGA CGT TTA AGT GGG AGA
 1327 TTT GGA GGG GAT GAG GAA TGA AGG AAC TTT CCG AAC TTT TAT GAT TTT TAT GAT TTT TAT GAT TTT TAT GAT TTT TAT
 1405 GAG CAA ACT TTG AAG ATA AAC TGA ATG ACC CAG AGG ATG AAA CAG CGC AGA TCA AAG AGG GGC CTG GAG CTC TGA GAA
 1483 GAG AAG GAG ACT CAT CCG TGT TGA GTT TCC ACA AGT ACT GTC TTT GAT TTT TAT GAT TTT TAT GAT TTT TAT GAT TTT
 1561 GTG AGC CGT AGG CTG AGT TCT CTC TTA TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT TTT
 1639 TCA TTA BGC TGT TTT AAA GTA TGA CTG CTT GCC ATG TAG ABA CCA TGS CTT GGT GAA TAA TCA GAA GAG GTG TGA CTC
 1717 TTA TTC TAA AAT TTG TCA CAA AAT GTC AAA ATG AGA GAC TCT GCA GCG AGC AGT CCA GAT CAA GCT CAA GGG GTT
 1795 TTT TTC CTT TGT CTC ATT TCT ACA TGA AAG TAA GAT GAT CTT TTT TAT AAG AGT AGA AAT ACA GTT GGG
 1873 TTT GAA CTA TAT GTT TTA ATG GCC AGC GTT TTG TAA GAC ATT TGG TCC TTT TAT TTT TTT TTT TTT TTT TTT TTT TTT
 1951 TTT TAT ATC GGC AGC AAT GGA CTG AAA CCG TCC GCA ACC TCT TCT TTA CAA CTG GGT GAC CTC GCG GCT GTG CCA GGC
 2029 ATT TGG CBT TCA CCC TGC TGC TAA GGG CCA TGT GAA GAG AAC AGA GAT GTG ACA GAT GTG ACA GAT GTG ACA GAT
 2107 GAG GCA CAG TGA TAG GAA CAG AGC CAC TAA TCT GAA GAG AAC AGA GAT GTG ACA GAT GTG ACA GAT GTG ACA GAT
 2185 AGG AAA GGG TGA CTT ATT GGA GAT TTC AGA AAT AAA ATG CAT TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA
 2263 GGA ATT AGA AAG GGC ATA AAC TGC TTT ATC CAG TGT TAT ATT AAA AGC TTA ATG TAT ATA ATC TTT TAG AGG TAA AAT
 2341 CTA CAG CCA CCA AAA GTC ATG GTC AAT ATT CTT TGA CTG AAC TCT CAC TAA ACT OCT CTA AAT TAT ATG TCA TAT TAA
 2419 CTG GTT AAA TTA ATA TAA ATT TGT GAC ATG ACC TTA ACT GGT TAG GTA GAA TAT TTT TCT TCA TGC AAA AAT ATG ACT
 2497 AAT AAT AAT TTA GCA CAA AAA TAT TTC CCA ATA CTT TAA TTC TGT GAT AGA AAA ATG TTT AAC TCA GCT ACT ATA ATC
 2575 CCA TAA TTT TGA AAA CTA TTT AFT TGG CTA CAC CAA AGG AAG CTA TAC AGA GGC TAA TAT CAG AGT ATT CTT GGA AGA
 2653 GAC AGG AGA AAA TGA AAG CCA GTT TCT GCT CTT ACC TTA TGT GCT TGT GAT TTT TTT TTT TTT TTT TTT TTT TTT
 2731 ATA ARC TGG TCT GAA TCT CTS TCT GAA GCA TGG AAC TGA AAA GAA TGT AGT TTC AGG GAA GAA AGS CAA TAG AAG GAA
 2809 GCC TGA GAA TAT CTT CAA AGG GTC AGA CTC AAT TTA CTT TCT AAA GAA GTA CTT AGG AAC TAA GCG TGC TTT TTT TTT TTT
 2887 CAA CAA GAT TGT ATA TAT TTT GTG CAT CTT GGC CCA ATT GTT CTT TAT CTG TAG GGA TAA GCG TGC TTT TTT TTT TTT
 2965 TAT ATA ACA TAA CTG TTT ACA CAT AAT ACA CTC AAA TGG AGC CCT TCC TTG TTA CTT CAT ACC CTC TGT GCT TCC
 3043 TTC CTC AGG GGC CAG GGC TCC CAC GCT GTC CAT CTT CCC CCG CAG CAG CTA GGT GAA CTG GAA GAT CCA GCG AGC CAC
 3121 CGT GGT CTG CTT CGT GAA CAA CTT CTA CCG CAG AGA CAT CAG CGT GAA CTG GAA GAT CCA GCG CAG CCA GCG GGA
 3199 GGT GGA GTA CAG GAG GCA CAA CTT GTA CAG CTG CCA GGT GCA CAA GAC CAG CTC CAG CCC CBT GGT CAA GAT CAA
 3277 GGT GGA GAA CAG GTG TTG AAG ACA AAG GTG CTG AGA GCG CAC CAG CTC CCG CAG CTC CAG CCC CBT GGT CAA GAT CAA
 3355 CAA CCG GAA CAG GTG TTG AAG ACA AAG GTG CTG AGA GCG CAC CAG CTC CCG CAG CTC CAG CCC CBT GGT CAA GAT CAA
 3433 AGG TCT TGG AGG CTT CCC CAC AAG CCA CTT ACC GTT GCG GTG CTC CAA ACC TCC TCC CCA CCT CCT TCT CCT CCT
 3511 CCT CCC TTT CCT TGG CTT TTA TCA TGC TAA TAT TTG CAG AAA ATA TTC AAT AAA GTG AGT CTT TGC ACT TGA GAT CTC

Figure 12 contd

3583 TGT CTT TCT TAC TAA ATG GTA ATC AGT TGT TTT TCC AGT TAC CTG GGT TTC TCT TGT TCT AAA GAA GTT AAA TGT TTA
 3667 GTT GCC CTG AAA TCC ACC ACA CTT ABA GGA TAA ATA AAA CCC TCC ACT TGC CCT GGT TGG CTG TCC ACT ACA TGG CAG
 3745 TCC TTT CTA AGG TTC ACG AGT ACT AIT CAT GGC TTA TTT CTC TGG GCC ATG GTA GGT TTG AGG AGG CAT ACT TCC TAG
 3823 TTT TCT TCC CCT AAG TCG TCA AAG TCC TGA AGG GGG ACA GTT TTT ACA AGC ACA TGT TCT GTA ATC TGA TTC AAC CTA
 3901 CCC AGT AAA CTT GGC GAA GCA AAG TAG AAT CAT TAT CAC AGG AAA GAT TTT AAA CTT AAA CAT GAG CTG GCT CCT
 3979 ATG TGG AAG CCC ATC ATA GTA CTT GGA CTT CAT CTG TGT TGG CTG CTT TAT ACC GTG AGA TTA CAC AOR TAC ATC
 4057 AAT TGC CAT TGG CAA GGC TGG GCA CTA CCC ACA ACC TAC TTT CAG GAC CTC TAT ACC GTG AGA TTA CAC AOR TAC ATC
 4135 AAA ATT TGG GAA AAG TTC TAC CAA GCT GAG AGC CTC ATT TAT GAA AGT CTA AAA CTG GAT ACA ACC AAA ATG TCC ACC AAC AGT TAA
 4291 TTA GAA GCA ACC AGT ATT GAG AGA CTT GAT TTA ATA AAG AGA ATT AAT AAA ATA AAA CTG AAG AGC ATA GTT TAA TCT
 4369 CAT AAA CAA GAT AAT AAG CAA AAC AAA ACA TTT TTT CAT CCA TGT AAG TTT AAA AGC AAG TAA AAT TTA AAA TTA AGA
 4447 GAG ACA TAA GTT TTG AAG TAG CAA GAT GGA AAC TCT GGG GCT TGG GGA ATG TTT CCA TCA TAA TAA CTT CAC CTA AAG AAA TAT
 4525 GTT ACT ATT GGG GAA TTG GGA TCT AIG TTC CTC CTG TAT ATA TGG TAT ACT TCA TAA TAA CTT CAC CTA AAG AAA TAT
 4683 CTA ATA CCC AGT GCA TAC ATA AAA GAG GAT ACA AAG AAT GAA TCA TAC TAC GTC AAG GCA GTG CCA AGT ACA AAA CAC ATA ATT
 4881 ATC CAG GAT CAA ATC TCC CAC AAC CTT GAG CTT TCT ACT ATT CTC CCI TCC AGA GCT CAA AGT ACA AAA CAC ATA ATT
 4759 CAA ACA CAT GAT CCC TCC TTG GGG TCT CTT CCT TCA TGC ATC GAA TTA GAA ATA GCA GAG CCC AOG TAT CAA AGG TTA CAT TAG
 4837 AGA CTT TCA TCA ACA GGT CAA AGA ATA TAG GTA ATT TTG TCT GGG TAT GAA GAG CCC AOG TAT CAA AGG TTA CAT TAG
 4915 GGA AGG BAG AGS ACA CTA ACA GTG ACT TTC ATT CTC CCC CTC TGC CTG GAG GCC CCI GCA TTT AGT CCC TCG TGG GCT
 4993 CAT CCA CTC AGC ACA CAT TTA CTA AGC ATC TTC TCA GCC TAC ACT CTG AAG GCA GTG CAG AAT AAT GTT AGT GTC OCT
 5071 TCC CCC AGT TAA TAT GCA GTC CAG TTT CCC TGC TCC TCT TCT TCA GTC CAC ATA AGG ATG ATG GGA AAG GAC AGT
 5149 CAC CAA ATA GGA GAG GGC AAC CCT TTG CCT TCC TAC CTC TTG AGA ATG TAC ATT AIT AIC CAC TTT TTG AAA CTT CTT
 5227 TTA ATT GCT TTT TTT TTA TTT GTC TTT TCA AAT AGC ATA ACC TTG TTC ATC CAT TTC TGG GAA CCA AAT TTA TCA ATC
 5305 AAC AGT GCC TCT AAT CAG GCT AIT AAT ACA AAA AAG CCT CCA AAT ATA TAT GTT CGA GTC TTA TCT AAA ACA GAA
 5383 CCC ACA ATA AAA AAG AAG AAA TAC ATA TAA GCA TTT ATA TTA TGC ACC TTG TGC TTT GTG AAA AAA ATA
 5461 TAA TCT AAT GTC ACA TGC TGT ATT CTT TTT ATT TAA CAC TGG TGA AAT TAT TAT AAG AAA GAG GAC AGA TCA
 5539 CTG ATC CTA GGA TCT AGG GAT GTT ACA AAG AAA ACA AAT GTG ACA AAG AGC TGT CAC AAG GAG GAT CTT CAA GGT
 5617 CAC AGA ATC ACT GTC TTG AIT TCA GTG GTT TCA GTG GCT AAT TTT GGC TCT ATA GTA TAA TTA TGC ACT AAA TTA TTT GGA CAA AGA AAA
 5695 ATA TTG TAC CAA TGT CAA ATG CTT AAT TTT GGC TCT ATA GTA TAA TTA TGC ACT AAA TTA TTT GGA CAA AGA AAA
 5773 TGA TGT TTA CAT CAA AGS TGA GGC CAT ATT TGT TAG GAA CAT AAC TTA AAA ACC ATT TTG GAT AAC TAA TGA AAA GCC
 5851 ATT TTG TGT GCT TGG GCA TAT CAT GCT TAA GGT GTC ACC AGA TAG ATC TAA TAA GAC CTA AAG AAC TAC CTT CAA GGT
 5929 CTG CCC AGC AAG CAG GCA CCA CAG ATA AGA GCT AAA CCC AGS ACA GGC CAT GAT AAG CTA AAG CTA AAG AAC CCA
 6097 GGT GTT GCT GAC CTA GTG AAC CAG CCC CAA GCT GTG AGC CCC AAT AGC ACA AAG CTA CTG CCC AAA GAA ATT ATA CAA
 6185 AAA TTG GAA CTT TGG GAA TGG TGT GCA GGA TCG CTC TGC TGT ATG CCT GGA ACA CAG CTT CTC TAT GTT TTG TAT TGA
 6241 ACA ACT GCT TCC CTC CTG GTG TGA TCA TGG ACC AAG ATA GCA ACT GTC ATA GCT ACC GTC ACA CTG TGA TCA AGA
 6319 AGA CCC TTT GAG GAA CTG AAA ACA GAA CCT TAG GCA CAT CTG TTG CTT TCG CTC CCA TCC TCC AAC AGC ANG GCT
 6397 GTC TTC ATA TTT GTT CTA GAC GGC CGG CC

1 GGC CGG CCC ACA TGA AAC AAT GGG AAC CAT GTG ACA ATC ACA GAG GTG TTG TTA CTA TAG CAA BAG GGA TTG TTA CTC
 79 TCC ACA TCC CTT TAA GTA ACT TGA AGG CTT GAT AGA CCC ACC CTC TAA GAC TTC ATT AGA CAT TCC CTA CGA ATG GTT
 157 ATA CTC TCC TGT ATA CTC CCA ATA CAA CTC TAA AAT ATA TTA TTC CAT ATA GTC CTT AGG TTT GTA TTA AAG TTT GAC
 235 TTT TTT CCT TCA AAA TAT CTC TTG TCA CAA CAG CGG CTC TAG AGA ATA CAT TCC CAG GCA AAT CTA TGC TGC
 313 GCT GGT CTG ACC TGG GAC CTT GGC CTT GTG CTG AGT TAC TAA GAT GAT CCA GCC CTG CAG CTG TGC TCA
 391 GCC TGC CCC ATG CCC TGC TGA TTG ATT TGC ATG TGC CAG AGC ACA GCC CCC TGC CCT GAA GAC TTT TTT ATG GGC TGG
 469 TCG CAC CTT GTG CAG GAG TCA GTC TCA TGG ACC AAG ATA GCA ACT GTC ATA GCT ACC GTC ACA CTG TGA TCA AGA
 547 GCT ACT CTG GCT CCG AGS TAA GGA TGG AGA ACA CTA GGA ATT TAC TCA GCC AGT GTG CTC AGT ACT GAC TGG AAC TTC

VKP-16LV2-14/J-CK

Figure 12 contd

625 AGG GAA GTT CTC TGA TAA CAT GAT TAA TAG TAA GAA TAT TTG TTT TTA TGT TTC CAA TCT CAG GTG CCA GAT GTC AGT
 703 CTG CCC TGA CCC AGC CCG CCT CTG TGT CTG GCA GCC CTG GCG GCA TCA CCA TCA GCT GCA CCG GCA GAT GTC AGT
 781 ACG TGG GCG GGT ACA ACT ACG TGT CCT GGT ATC AGC AGC ACC CCG GCA AGG CCG GCA TGA TGT TCT ACG AGG TGT
 859 CCA ACA GAC CCA GCG GCG TGA GCA ACA GAT TCA GCG GCA GCG GCA CCA CCG GCA GCT CCA CCC TGG TGT TTS GCG GCG GAA CAA
 937 TCC AGG CTG AGG ACG ACG CCG ACT ACT ACT GCA GCA GCT ACA CCA GCA GCT CCA CCG GGT TTC ATG TTA GGA GTT AAA
 1015 AGC TGA CCG TGC TGC GTA AGT ACA CTT TTT TCA TCT TTT TTT ATG TGT AAG ACA CAG GGT TCG CAT ACA GTG TCA GAT TTT CTG TTT
 1033 GTC AGT TCA GAA AAT CTT GAG AAT GAG GGC TTT AGT TGA GAG GAA AAT TAA TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT
 1171 ATC BAG CTA GTG AGA TTA GGG GCA AAA AAG GGC TTT AGT TGA GAG GAA AAT TAA TAT TAT TAT TAT TAT TAT TAT TAT TAT
 1349 GAT TGG ATC GGA GAA TAA GCA TGA GTA GTT ATT GAG ATC TGA CTA CTA CTA CTA CTA CTA CTA CTA CTA CTA CTA
 1377 AGT GGG AGA TTT GGA GGG GAT GAG GAA TGA AGG AAC TTT AGG ATA GAA AAG GGC TGA AGT CAA GGT CCA GTC CTA AAA
 1495 TGG ATG TGG GAG CAA ACT TTG AAG ATA AAC TGA ATG ACC CAG AGG ATG AAA CAG CCG AGA TCA AAG AGG GGC CTG GAG
 1493 CTC TGA GAA GAG AGC AGT CAT CCG TGT TGA GTT TCC ACA AGT ACT GTC TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT
 1561 CAG AGT TGA GTG AGC CGT AGG CTG AGT TCT CTC TTT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT
 1639 CTG AAA TAA TCA TTA AGC TGT TTG AAA GYA TGA CTG CTT GCC ATG TAG ATA CCA TGG CTT GCT GAA TAA TCA GAA GAG
 1717 GTG TGA CTC TTA TTT TTT CTT TGT CTC ACT TTT TCT ACA TGA AAG TAA ATT TGA AAT GAT CTT TTT TAT TAT AAG AGT AGA GCT
 1795 CAA GGG GTT TTT TTT CTT TGT CTC ACT TTT TCT ACA TGA AAG TAA ATT TGA AAT GAT CTT TTT TAT TAT AAG AGT AGA GCT
 1873 ACA GTT GGG TTT GAA CTA TAT GTT TTA ATG GCC AGC AAT GEA CTG AAA CCG TCC GCA ACC TCT TCT TTA CAA CTG GGT GAC CTC GCG GCT
 2029 GTG CCA GCC ATT TGG CGT TCA CCC TGC TAA GGG CCA TGT GAA CCC CCG TAG CAT CCC TTG CTC CCG GTG GAC
 2107 CAC TTT CTT GAG GCA CAG TGA TAG GAA CAG AGC CAC TAA TCT GAA GAG AAC AGA GAT GTG ACA GAC TAC ACT AAT GTG
 2185 AGA AAA ACA AGG AAA GGG TGA CTT ATT GGA GAT TTC AGA AAT AAA ATG CAT TTA TTA TTA TTA TTA TTA TTA TTA TTA
 2263 TTC TAT TAG GGA ATT AGA AAG GGC ATA AAG TGC TTT ATT CAC TGA TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT
 2341 AGG TAA AAT CTA CAG CCA GCA AAA GTC ATG GTA ATT CTT TGA CTG AAC TCT CAC TBA ACT CTT ATA AAT TAT ATG
 2419 TCA TAT TAA CTG GTT AAA TTA ATA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA
 2497 AAT ATG ACT AAT AAT AAT TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA TTA
 2575 ACT ATA ATC CCA TAA TTT TGA AAA CTA TTT ATT AGC TTT TGT GTT TGA CCC TTA TTA TTA TTA TTA TTA TTA TTA TTA
 2653 GAC CCT TTA AAA CTC TTG AAA CTA CTT TAG AGT CAT TAA GTT ATT TAA CCA CTT TTA ATT ACT TTA AAA TGA TGT CAA
 2731 TTC CCT TTT AAC TAT TAA TTT ATT TTA AGG GGG GAA AGG CTG CTC ATA ATT CTA TTT TTT TTT TTT TTT TTT TTT TTT
 2809 CAG TTT TCG TTT TTA CTA CCT CTG TCA CCC BAG AGT TGG CAT CTC AAC AGA GGG GAC TTT CCG AGA GGC CAT CTG GCA
 2887 GTT GCT TAA GAT CAG BAG TGA AGT CTG CCA GTT CCT CCC AGG CAG GTG GCC CAG ATT ACA GGT GAC CTG TTC TGG TGT
 2965 GGC TAA AAA TTG TCC CAT GTG GTT ACA AAC CAT TAG ACC AGG GTG TGA TGA ATT GCT CAG AAT AIT TCT GSA CAC CCA
 3043 AAT ACA GAC CCT GGC TTA AGG CCC TGT CCA TAC AGT AGG TTT AGC TTG GCT ACA CCA AAG GAA GCC ATA CAG AGG CTA
 3121 ATA TCA GAG TAT TCT TGG AAG AGA CAG GAG AAA ATG AAA GCC AGT TTC TGC TCT TAC CTT ATG TGC TTT TGT TGT TGT
 3199 TCC CAA ACA TCA GGA GTG TCA GAT AAA CTG GTC TGA ATC TCT GTC TGA AGC ATG GAA CTG AAA AGA ATG TAT TTT CAG
 3277 GGA AGA AAG GCA ATA GAA GGA AGC CTG AGA ATA TCT TCA AAG GGT CAG ACT CAA TTT ACT TTC TTA AGA AGT AGC TAG
 3355 GAA CTA GGG AAT AAC TTA GAA ACA ACA TIG TAT ATA TGT GCA TCC TGG CCC CAT TGT TCC TTA TCT GTA GGG ATA
 3433 AGC GTG CTT TTT TGT GTG TCT GTA TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT TAT
 3511 TCA TAC CAT CCT CTG TGC TTT CTT CTT CAG GGG CCG ACG CTG CCG GCA TAA TAC TAC TAC TAC TAC TAC TAC TAC TAC
 3589 AGC TGA CCT CTG CCG GAG CCA CCG TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT TGT
 3667 TCG ACG GCA GCG AGG AGA GGG TCG TCG ACA CCG TGA CCG AGG ACA CCA AGG ACT CCA CCT ACA GCA TGA
 3745 GCA GCA CCC TGA GCC TGA CTA AGG TGG AGT ACG AGA GGC ACA ACC TGT ACA CCT GCG AGG TGG TGC ACA AGA CCA GCT
 3823 CCA GCC CCG TGG TCA AGT CCT TCA ACC GGA ACG AGT GTT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT
 3901 CTC CAT CCT ATC TTC CCT TCT AAG GTC TTG GAG GCT TCC CCA CAA CCG ACC TAC CAC TGT TGT GCT CCA AAC CTC
 3979 CTC CCC ACC TCC TCC TCC CTT TCC TCT TCT TCT TCT TCT TCT TCT TCT TCT TCT TCT TCT TCT TCT TCT TCT TCT
 4057 GAG TCT TTG CAC TTG AGA TCT CTG TCT TTA CTA AAT GGT AGT AAT CAG TTA CTT CAG TTA CTT CAG TTA CTT CAG TTA
 4134 TTC TAA AGA AGT TAA ATG TTT AGT TGC CTT GAA ACT CAC CAT TAA AGG ATA AAT AAC CTC CTC CAC TTC CCG TGG
 4213 TTG GCT GTC CAC TAC ATG GCA CTC CTT TCT AAG GTT CAC GAG TAC TAT TCA TGG CTT ATT TCT CTG GGC CAT GGT AGG
 4291 TTT GAG GAG GCA TAC TTC CTA GTT TTC CCA GTC GTC AAG GGG GAC AGT CTT TAC AAG CAC AATG

4369	TTC	TGT	AAT	CTG	ATT	CAA	CCT	ACC	CAG	TAA	ACT	TGG	GGA	AGC	AAA	GTA	GAA	TCA	TTA	TCA	CAG	GAA	GCA	RAG	GCA	AGC
4447	TAA	ATG	TGC	AAG	CAA	TAG	GAA	AAT	GTG	GAA	GCC	CAT	CAT	AGT	ACT	TGG	ACT	TCA	TCT	GCT	TTT	GTG	CCY	TCA	CTA	AGT
4525	TTT	TAA	ACA	TGA	GCT	GGC	TCT	TAT	CTG	TCC	TAT	CTG	ACA	AGB	CTG	GGC	AGC	CAC	ACA	CTA	CTT	CAA	EGA	CCT	CTA	TAC
4603	CGT	GAG	ATT	ACA	CAC	ATA	CAT	CAA	AAT	TTG	GGA	AAA	GTT	CTA	CCA	AGC	TGA	GAG	CTG	ATC	ACC	CCA	TCT	TTA	GCT	GCT
4681	TAT	CTC	TGT	ACA	CCA	GAA	ACC	TTA	AGA	AGC	AAC	CAG	TAT	TGA	GAG	ACT	CAT	TTA	TGA	AGG	TCT	AAA	ACT	GGA	TAT	AAC
4759	CAA	AAT	GTG	CAC	CAA	CAG	TTA	AAT	TAT	GAC	TTA	ATC	TAT	GAC	ATC	AAA	ATT	CTA	TTA	CTT	AAT	AAG	CAT	TAA	TAA	AAA
4837	ACT	TAA	GAG	CAT	AGT	TTA	ATC	TCA	TAA	ACA	AGA	TAA	TAA	GCA	AAA	CAA	AAC	AAT	TTT	TCA	TCC	ATG	TAA	GTT	TAA	AAG
4915	CAG	GTA	AAA	TTT	AAA	ATT	AAG	AGA	GAC	ATA	AGT	TTT	GAG	GTA	GCA	AGA	TGG	AAA	CTC	TGG	GGC	ITG	GGG	AAT	GTT	CTG
4993	TCT	CTC	TGT	ATG	GGA	TGT	GAA	AGT	TAC	TAT	TGT	GGA	ATT	GGG	ATC	TAT	GTT	CTT	CTT	GTA	TAT	ATT	GTA	TAC	TTV	ATA
5071	ATA	ACT	TCA	CCY	AAA	GNA	ATA	TCT	AAT	ACC	CAG	TGC	ATA	ACT	CCA	ACA	CCT	TGA	GCC	TAC	TAT	TCT	AGC	CAA	GGC	
5149	CAG	AAA	GAC	AAT	AAA	GTA	GGG	GAT	CCA	GGA	TCA	AAT	CTC	CTA	CCA	AGT	AAA	GGA	TAC	AAA	TGA	ATA	CGT	CAA	GGC	
5227	TCA	ARG	TAC	AAA	ACA	CAT	AAT	TCA	AAC	ACA	TCA	TCC	CTC	CTT	GGG	GTG	TCT	TCC	TTG	TAC	TAT	TCT	GCC	TTG	CAG	AGC
5305	CAT	GTA	TAA	AAT	GAG	ATA	GAA	GAG	ACC	TTG	ATC	AAC	AGG	TCA	AAG	AAT	ATA	GGT	AAT	TTT	GTC	GTG	TGA	AGA	GOC	
5383	CAC	GTA	TCA	AGT	GTT	ACA	TTA	GGG	AAG	GAA	GAG	ACT	AAC	AGT	AAG	CTA	TTT	ACT	AGC	CTA	AGC	CTA	TCT	GGA	GSC	CCG
5461	TGC	ATT	TAG	TCC	CTG	GIG	GGC	TCA	TCC	ATC	CAG	CAC	ACA	TTT	ACT	AGC	CAA	CCC	TTT	GCC	TTG	CTA	CCY	GAG	AGC	
5539	GCA	GAA	TAA	TCT	TAG	TGT	CCC	TTG	CCC	CAG	TTA	ATA	TGC	AGT	CCA	GTT	TCC	CTG	CTC	CTT	CCC	TTT	CTC	AGT	CCA	CAT
5617	AAG	GAT	GAT	GGG	AAA	GGA	CAG	TCA	CCA	AAT	AGS	AGA	GGG	CAA	CCC	TTT	GCC	TTG	CTA	CCY	GAG	AAT	GTA	CAT	TAT	
5695	TAT	CCA	CTT	TGT	GAA	ACT	TCT	TTT	AAT	TGC	TTT	TTA	ATT	TTT	CTT	CTT	AAA	TAG	CAT	AAC	CTT	GTT	CAT	CTA	TTT	
5773	CTG	GGA	ACC	AAA	TTT	ATC	AAT	CAA	CAG	TGC	CTC	TAA	TCT	GGC	CTA	TGC	CTA	TGC	CTA	AGC	TAT	TTC	AAA	CAT	AGA	
5851	TGG	AGT	CTT	ATC	TAA	BAC	AGA	ACC	CAC	AAT	AAA	AAA	GAA	GAA	AGA	ATA	CAT	ATA	ATA	TAT	ATA	TAT	CTG	AGC	AAC	
5929	TTT	GTG	CTT	TGT	GAA	AAA	AAT	ATA	ATC	TAT	TGT	CAC	ATG	CTG	TAT	TCT	TTT	TAT	TVA	ACA	CTG	GTG	AAA	TTA	CAT	
6007	CAT	GGA	GAA	AGA	GGA	CAG	ATC	ACT	GAT	CTC	AGS	TAG	CGA	TGT	TAC	AGA	TAA	GAA	AAC	TGT	GAC	AAA	GAG	CTG		
6085	TCA	CAA	GGA	GGA	TCT	TCA	AGG	TCA	CAG	AAT	CAC	TGT	CTT	GAT	TTT	AGT	CTA	TAT	TGG	CTA	AGT	ATA	ATT	ATG	CAT	TAT
6163	AAT	GTT	ATT	TGG	ACA	RAG	AAA	ATG	ATG	TT																

8113	AGC	CAG	GAT	GGG	TAT	TTT	TTT	GCC	TAT	CTG	TGA	CTT	GCA	CAT	GGT	CTT	GGC	AAI	TAT	TGA	TGA	GTT	CAA	GGC	TTA	ATT					
8131	CTT	CAC	TTG	TGC	CAA	TAG	CAA	TCC	TGT	TTA	TTA	CTG	GGT	AAC	TAT	TCT	TCT	TAT	AAC	CAG	GCC	CCC	AGT	AVG	CTC	TAT	GTA	TCA	GGT	CCG	
8269	CTT	ATC	TTA	TAC	AAA	ATT	TTG	AAG	AGT	TAA	TTG	TAC	TAT	ATA	TGT	TTT	GTG	AAG	GGG	AAG	TGC	ACA	CTG	AGA	TGT	AGT	CTT	ACA			
8347	ACT	TTT	TAA	TAC	AAA	ATT	TTG	AAG	AGT	TAA	TTG	TAC	TAT	ATA	TGT	TTT	GTG	AAG	GGG	AAG	TGC	ACA	CTG	AGA	TGT	AGT	CTT	ACA			
8425	ATT	TCA	ACT	CAA	GAT	ACT	AAI	TCT	ATA	TAT	ATG	GGT	TAA	ATC	ATA	ATT	ATA	AGT	TTA	ATT	TCA	CAT	GCT	TAT	TAT						
8503	TAT	TGT	GGT	TTT	CGA	GAC	AGG	GTT	TCT	CTG	TAT	AGC	CCT	GGC	TCT	GGC	TGT	GGC	TGT	GGC	TTT	GTA	GAC	CAG	GCT	GGC	CTC				
8581	AAA	CTC	AGA	AAC	ATA	CCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	CTC			
8659	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	CTC			
8737	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	TCT	GCC	CTC			
8815	AAA	TTT	TAA	AAC	TTT	ATA	TAT	GTG	TCA	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT			
8895	GCC	CTC	AAA	AGT	AAI	CGC	AAG	TTG	TAT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TGT	TTT			
8971	TGC	TTT	GCT	TTG	CTT	TGC	TTT	GCT	TTG	CTT	TGC	TTT	GCT	TTG	CTT	TGC	TTT	GCT	TTG	CTT	TGC	TTT	GCT	TTG	CTT	TGC	TTT	TTT			
9049	TTT	TTT	CCG	GGG	AGG	GGG	TGG	AGA	AAG	AAI	CTT	ACT	AAI	AAG	CTC	TGA	CTG	TCC	TGG	GAA	CTC	ACT	ATA	TAG	ATT	CTG	GGT				
9127	ASG	CTT	SAT	TCA	ACT	CAT	AGA	GAT	CTG	CTT	TCT	TCT	GCC	TCC	CAA	GGT	CTG	GGG	AGA	ATA	AAG	GCA	TAC	ACC	TTC	ATA	CCC				
9205	AGA	TAG	TCC	CAA	GTT	TTA	GCA	AAA	GTT	TCT	AGA	CTT	GAC	ATT	AAI	CGA	TGG	AGA	TAG	ACA	TGA	ATA	ACA	AGA	AGA	AGA	AGA				
9283	ACT	AAI	GTG	GAG	TTT	ACC	TGA	ATC	ATA	CTC	TAT	ACT	TTA	TCA	GAG	ATT	AAA	TTA	ACA	TTT	AAI	BAI	BAI	BAI	BAI	BAI	BAI				
9361	TAG	AGC	ATT	CAA	CAT	TCA	ATG	GCA	GTG	TTT	GCC	ATC	ATG	CTG	CAI	AGT	CTT	AGT	CTT	AGT	CTT	AGT	CTT	AGT	CTT	AGT	CTT				
9439	TGA	CTC	ATT	ATA	CAG	ATG	AGA	AAC	TGG	GAA	AGA	CTT	GCC	TCA	GAT	TCT	CTA	CTG	AAA	GGC	TGA	GTT	TGT	GGC	TTT	TAG					
9517	AAA	ATC	TTT	TAC	TTT	CAA	TAT	TTT	TAA	TGT	ATA	ATT	TTT	TTA	TTT	CXA	CTG	ATT	TTA	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT				
9595	AGG	AAA	TAA	ATG	CAA	TAA	ACC	AAA	TAC	ATG	GAC	AAA	AAA	ATA	CTT	TTT	TTA	TTA	GAT	GAT	CAC	CTC	AAI	AGG	AGG	AAA	AAA				
9673	AAA	GAA	AGA	AAA	AGT	CTT	TGA	TAA	GAT	TCA	ACA	TTT	CTT																		

Figure 12 contd

1951 AGT TTA AGA TAT AGT GTA TTT TCC CAA GGT TTG AAC TAG CTC TTC ATT TCT TTA TGT TTT BAA TGC ACT GAC CTC CCA
2029 CAT TCC CTT TTT AGT AAA ATA TTC AGA AAT AAT TTA AAT ACA TAG TTG TAG TTG GAC TTA GGG AAC AAA GGA ACC TTT AAT AGA
2107 AAT CCA GAT GCT CAA GGC CCT TCA TAA TAT CCC CCA GTT TAG TTG GAC TTA GGG AAC AAA GGA ACC TTT AAT AGA
2185 AAT TGG ACA GCA AGA AAG CGA GCT TCT ACG GAA TTC TCG ACT CAT TCC TTT TGT CCG CCA GGA GTG CTG GGG CGT CCG
2263 TTT CCA CTA TCG GCG AGT ACT TCT ACG CAG CCA TCG GTC CAG ACG GCG CTT CTG CCG ATT TGT GTA CCG CCG
2341 ACA GTC CCG GCT CCG GAT CCG AGT AAT CAG CCA TCG CCG CCA GCT CTA TCA TCG AAA TTG CCG TCA ACC
2419 AAG CTC TGA TAG AGT TGG TCA AGA CCA ATG CCG ASC ATA TAC GCG CCG AGC CCG GAT CTT GCA AGC TTC GGA TGC
2497 CTC CCG TCG AAG TAG CCG GTC TCG TCC TCC ATA CAA GGC AAC CAC GGC CCG GAT CCG AAC AAG ATG TTG GCG ACC TCG TAT
2575 TGG GAA TCG CCG AAC ATC GGC TCG CTC CAG TCA ATG ACC GCT GTT ATG CCG CCA ATG GTC ACA TTG TTG GAG
2653 CCG AAA TCC GCG TGC ACG AAG TGC CCG ACT TCG GGG CAG TCC TCG GCG CAA AGC ATC TCA TCG AGA GGC TCG GCG
2731 ACG GAC GCA CTG ACG GTG TCG TCC ATC ACA GTT TGC CAG TGA TAC ACA TCG GGA TCA GCA ATC CCG CAT ATG AAA TCA
2809 CCG CAT GTA GTG TAT TGA CCG ATT CTT TGC CCG AGT TGC AGA ACA GCG GSC AGT TCG GTT TCA GGC AGG TCT TGC AAC GTG ACA CCC
2887 AIC GCA TCC ATG AGC TCC GCG ACG GGT TGC AGA ACA GCG GSC AGT TCG GTT TCA GGC AGG TCT TGC AAC GTG ACA CCC
2965 TGT GCA CCG CCG GAG ATG CAA TAG GTC AGG CCG TCG CAG AAT TCC CCA ATG TCA AGC ACT TCC AGA ATC GGG AGC GCG
3043 GCG GAT GCA AAG TGC CGA TAA ACA TAA GCA TCT TTG TAG AAA CCA TCG GCG CAG CTA TTT ACC CCG AGG ACA TAT CCA
3121 CCG CCT CCT ACA TCG AAG CTG AAA GCA CCA GAT TCT TCG CCG TCC TCG GCG CAG AGC TGC AGT CCA TCG GCG CAG CTA TTT ACC CCG AGG ACA TAT CCA
3199 TTT TCG ATC AGA AAC TTC TCG ACA GAC GTC GCG GTG AGT TCA GGC TTT TTC ATG ATG GCG TCT CCA GCT TAT CTG ACG GTT
3277 TTA TAC TAT GGC GAT ATA CTA TGC CCA TGA TTA ATT GTC BAA ACA GOG TGG ATG CCG TCT CCA GCT TAT CTG ACG GTT
3355 CAC TAA ACG AGC TCT GCT TAT ATA GAC CTC CCA CCG TAC ACG CCT ACC GCG CAT TTG CBT CAA TGG GGC GGA GTT GTT
3433 ACG ACA TTT TGG AAA GTC CCG TTG ATT TAC TAG TCA BAA CAA ACT CCC ATT GAC GTC AAT GGG GTG GAG ACT TGG AAA
3511 TCC CCG TGA GTC AAA CCG CTA TCC ACG CCC ATT GAT GTA CTG CCA AAA CAA ACT CCC ATT GAC GTC AAT GGG GTG GAG ACT TGG AAA
3589 TAC GTA GAT GTA CTG CCA AGT AAG AAA GTC CCG CAT GTA CTG CCA AAA CAA ACT CCC ATT GAC GTC AAT GGG GTG GAG ACT TGG AAA
3667 AIT GAC GTC AAT AGG GGG GGT ACT TGG CAT ATG ATA TCG TAC TAT GGG AAC ATA CTG GGC ATA ATG CCA GCG CCA TTT ACC GTC
3745 CAC CCA TTG ACG TCA ATG AGA AGT CCC TAT TGG GGT TAC TAT GGG AAC ATA CTG GGC ATA ATG CCA GCG CCA TTT ACC GTC
3823 GTC GTT GGG CCG TCA GCG AGG CCG GCG ATT TAC CBT BAG TTA TGT AAC GCG TGG CCG GTT TTC CAT AAG CTC CCG CCT GAC GAG
3901 AAA GGC CAG CAA AAG GCG AGG AAC GGT AAA AAG AGC CCG TGG CCG ATA GGA CTA TAA AGA TAC CCG GTT TTC CAT AAG AAC ATG TGA GCA
3979 CAT CAC AAR AAT CGA CCG TCA AGT CAG AGG TGG CGA AAC CCG ACA GGA CTA TAA AGA TAC CCG GTT TTC CAT AAG AAC ATG TGA GCA
4057 AGC TCC CTC GTG CCG TCT CTT CCG ACC CTC CCG CTT ACC GGA TAC TCC GCG TCC CCG GTT TTC CAT AAG AAC ATG TGA GCA
4135 GCG CTT TCT CAT AGC TCA CCG TGT AGG TAT CTC AGT TCG GTG TAG GTC GTT CCG TCC AAG CTG GGC TGT GTG CAC GAA
4213 CCC CCC GTT CAG CCG GAC CCG TGC CCG TTA TCC GGT AAC TAT CBT CPT GAG TCC AAC CCG GTA AGA CAC GAC TTA TCG
4291 CCA CTG GCA GCA GCG ACT GGT AAC AGG ATT AGC AGA CCG AGG TAT GTA GGC GGT CCA GAG TTT TGG AAG TGG TGG
4369 CCT AAC TAC GGC TAC ACT AGA AGA ACA GTA TTT GGT ATC TGC TCG CTG AGC CCA GTT ACC TTC GGA AAA AGA GTT
4447 GGT AGC TCT TGA TCC GGC AAA CAA ACC ACC GCT GGT TTT TTT GTT TGC AAG CAG CAG ATT ACG CCG AGA
4525 AAA BAA GGA TCT CAA GAA GAT CCT TTG ATC TTT TCT ACG GCG TCT GAC GCT CAG TGG AAC GAA AAC TCA CBT TAA GCG
4603 ATT TTG GTC ATG GCT AGT TAA TTA ACA TTT AAA TCA

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1 GCG GCG GCA ATA AAA TAT CTT TAT TTT CAT TAC ATC TGT GTG TTG GTT TTT TGT GTG AAT CBT AAC TAA CAT ACG CTC
79 TCC ATC AAA ACA AAA CCA AAG CCA AAT TAG CAA AAT AGG CTG TCC CCA GTG CAA GTG CAG GTG CCA GAA CAT TTC
157 TCT ATC GAA GGA TCT CCG ATC GCT CCG GTT CCG AGT GGG CAG AGC CCA CAT CCG CCA CAG TCC CCG AGA AGT TGG
235 GGG GAG GGG TCG GCA ATT GAA CCG GTG CCG AAG GAT GGC CCG GGG TAA ACT GGG AAG ATG ATG TCG TGT ACT GGC
313 TCC CCG TTT TTC CCG AGG GGG GAG AAC CBT ATA TAA GTG CAG TAG TCG CCG TGA AUG TTC TTT TTC GCA ACG GGT
391 TTG CCG CCA GAA CAC AGC TGA AGC TTC GAG GGG CTC GCA TCT CTC CTT CAC GNG COT GCG CTA CCT GAG GCG GCG
469 ATC CAC GCG GGT TGA GTC CCG TTC CCG CTT GTG GTG CCG CCA ATG CCG TCT AGG TAA GTT
547 TAA AGC TCA GGT CCA GAC CCG TTT GGA GCG TCC CTT GGA GCG TAC CTA GCA TCA GCG GCG TCT CCA CCG TTT
625 GCG TGA CCC TCG TTG CTC AAC TCT ACG TCT TTG TTT GGT TTT TCG GCG GGT ACA GAT CCA AGC TGT GAC CCG
703 CCG CTA CCT GAG ATC ACC GGC GTG TCG ACG CCA CCA TGG ACA TGA GAG TGC CCG CCG AGC TCC TGG GSC TCC TGC TAC

Figure 12 contd

781	TCT GGC TCC GAG GTA AGG ATG GAG AAC ACT AGG AAT TTA CTC AGC CAG TGT GGT CAG TAC TGA CTG GAA CTT CAG GGA
859	AGT TCT CTG ATA ACA TGA TTA ATA GTA AGA ATB TTT GTT TTT ATG TTT CCA ATC TCA GGT GCC AGA TGT CAG TCT GCC
937	CTG ACC CAG CCC GGC TCT GTG TCT GTG TCT GGC AGC ACT GGC CAG AGC CCA GGC TGC ACC GGC ACC AGC GAC GAC GTG
1015	GGC GGC TAC AAC TAC TCC TCG TAT CAG CAG CAG CCA GGC AAG GGC AGC AGC AAG GGC AGC AGC AAG GGC AGC AGC AAG GGC
1093	AGA CCC AGC GGC GTG AGC AAC AGA TTC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC
1171	GCT GAG GAC GAG GGC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC
1249	ACC GTG CTG AGA GGC GGC GCT CCC ACC ACC GTG TCC ATC TTC CCC ACC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC
1327	ACC GTG GTC TGC TTC GTG AAC AAC TTC TAC CCA GAC ATC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC
1405	GAC GGC GTG CTG GAC AGC GTG ACC GAC CAG GAC AAC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC
1483	AAG GTG GAG TAC GAG AGC CAG AAC CTG TAC ACC TGC GAG GTG CAC AAG ACC AGC TCC AGC ACC CTG AGC CTG ACC
1561	TTC AAC CCG AAC GAG TGT TGA GCT AGC TCG CCA GAC ATG ATA AGA TAC ATT GAT GAG TTT GGA CAA ACC ACA ACT AGA
937	CTG ACT CAG CCA GGC TCC GTC TCC TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG
1615	GGT GGT TAT AAC TAT GTC TCC TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG
1693	CGC CCC TCA GCG GTT TCT TAT CCG TTC TCT GGC TCC AGC TCA GAC CCA CCA GAC CCA GAC CCA GAC CCA GAC CCA GAC
1771	GCT GAG GAC GAG GCT GAT TAT TAC TGC AGC TCA TAT ACA AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC
1849	ACC GTC CTA CCG GCT GAT GAT GCT GCA CCA ACT ATC TTC CCA CCA CCA CCA CCA CCA CCA CCA CCA CCA CCA CCA
1927	ACA GTC GTG TGC TTC GTG AAC AAC TTC TAT CCA GAC ATC AGT GTC AAG TGG AAG ATT GAT GGC AGT GBA CAA OGA
1405	GAT GGT GTC CTG GAC AGT GTT ACT GAT CAG GAC AGC AAG GAC AGC AAG GAC AGC AAG GAC AGC AAG GAC AGC AAG GAC
1463	AAG GTT GAA TAT GAA AGG CAT AAC CTC TAT ACC TGT GAG GTT GAT CAT AAG ACA TCA TCC TCA CCC GTC GTC AAG AGC
1561	TTC AAC AGG AAT GAG TGT TAG GCT AGC TGC CCA GAC ATG ATA AGA TAC ATT GAT GAG TTT GGA CAA ACC ACA ACT AGA
1639	ATG CAG TGA AAA AAA TGC TTT ATT TGT GAA ATT TGT GAT GCT ATT GCT TTA TTT GTA ACC ATT AFA AGC TGC AAT AAA
1717	CAA GTT AAC AAC AAT TGC AAT TGC ATT CAT TTT ATG TTT CAG GTT CAG GTG TGG GAG GTT TTT TTA AGC AAG TAA
1795	AAC CTC TAC AAA TGT GGT ATG GAA TTC TAA AAT ACA GCA TAG CAA AAC TTT AAC CTC CAA ATC AAG CCT CTA CTT GAA
1873	TCC TTT TCT GAG GGA TGA ATA AGC CAT AAG CAT CAG GGC CTG TTG CCA ATG TGC ATT AGC TGT TTG CAG CCT CAC CTT
1951	CTT TCA TGG AGT TTA AGA TAT AGT GHA TTT TCC CAA GGT TTG AAC TAG CTC ATT TTA TGT TTT AAA TGC ACT
2029	GAC CTC CCA CAT TCC CTT TTT AGT AAA ATA TTC AGA AAT AAT TTA AAT ACA TCA TTG CAA TGA AAA TAA ATG TTT TTT
2107	ATT AGG CAG AAT CCA GAT GCT CAA GGC CCT TCA TAT TAT CCC CCA GTT TAG TAG TTG GAC TTA GGG AAC AAA GGA ACC
2185	TTT AAT AGA AAT TGG ACA GCA AGA AAG CCA GCT TCT AGC GAA TTC TCG CAG GGC CCA GCT GCA TCA TCG AAA TTG
2263	GGG CGT CCG ITT CCA CTA TCG GCG AGT ACT TCT ACA CAG CCA TCG GTC CAG GGC CCA GCT GCA TCA TCG AAA TTG
2341	GTA CCG CCG ACA GTC CCG GCT CCG GAT CCG AGC AAT GCG TCG CAT CCA GCT GCG CCA GCT GCA TCA TCG AAA TTG
2419	CCG TCA ACC AAG CTC TGA TAG AGT TGG TCA AGA CCA ATA TAC GCG AGC AGC CAG GGC CCA GCT GCA TCA TCG AAA TTG
2497	TCC GSA TGC CTC CCG TCG AAG TAG CCG GTC TGC TCC ATA CAA GGC AAC CAC GGC CTC CAG AAG AAG ATT TTG GCG
2575	ACC TCG TAT TGG GAA TCC CCG AAC ATC GGC CTC CAG TCA ATG ACC GCT GTT ATG CCG CCA TTG TCC GTC AGG ACA
2653	TTG TTG GAG CCG AAA TCC CCG TGC AGC AGG TGC CCG ACT TCG GGC CAG TCC TCG GGC CCA AGC ATC AGC TCA TCG AGA
2731	GCC TGC GCG ACG AAG GCA CTC AGC GTG TCG TCC ATC ACA GTT TGC CAG TGA TAC ACA TGG GGA TCA GCA ATC GCG CAT
2809	ATG AAA TCA CCG CAT GTA GTG TAT TGA CCG AAT CCT TGC GGT CCG AAT GGC CCG AAC CCG CTC GTC TGG CTA AGA TCG
2887	GCC GCA GCG ATC GCA TCC ATG AGC TCC GTC AGC TCG TGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC AGC
2965	GTG ACA CCC TGT GCA CCG CCG GAG ATG CAA TAG GTC AGG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG TCG
3043	GGG AGC GCG GCG GAT GCA AAG TGC CCA TAA ACA TAA CCA TCT TTG TAG TAT TCC TCG CCG TCG TCG TCG TCG TCG TCG
3121	ACA TAT CCA CCG CCT CCT ACA TCG AAG CTG AAA GCA CCA GAT TCT TCG CCG TCG TCG TCG TCG TCG TCG TCG TCG
3199	CTG TCG AAC TTT TCG AIC AGA AAC TTC TCG ACA GAC GTC GTC GTC GTC GTC GTC GTC GTC GTC GTC GTC GTC GTC
3277	TGA GTC GTA TTA TAC TAT GGC GAT ATA CTA TGC CCA TGA TTA ATT TTA AAA ACA GCG TGT TGC ATG ATG GCT CTC TTA TAG
3355	CTG AGC GTT CAT TAA ACG AGC TCT GAT TAT ATA GAC CTC CCA CCG TAC ACG CCT ACC GCG CAT TTG CCG TCT CCA GCT TAT
3433	GGA GTT GTT ACG ACA TTT TGG AAA GTC CCG TTG ATT TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC TAC
3511	ACT TGG AAA TCC CCG TGA GTC AAA CCA GTC CCA TCC AGC CCT ATT GAT GTA CTG CCA AAA CCG CAT CAT CAT GGT AAT AGC
3589	GAT GAC TAA TAC CCA GAT GTA CTG CCA AGT AGA AAA GTC CCA TAA GGT CAT GTA CTG GGC ATA ATG CCA GGC GGC CCA
3667	TTT ACC GTC ATT GAC GTC AAT AGG GGC GGT ACT TGG CAT ATG ATA TGC CAA TTG TAC TGC CAA GTG GGC AGT TTA CCG
3745	TAA ATA CTC CAC CCA TTG ACG TCA ATG GAA AGT CCC TAT TGG CGT TAC TAT GGG AAC ATA CGT CAT TAT TGA CGT CAA

Figure 12 contd

3623 TGG CGG GTC GTT GGG CCG TCA GCC AGG CCG GGC AAT TAC CGT AAG TTA TGT AAC GGC TGC AGG TTA ATT AAG AAC
 3901 ATG TGA GCA AAA GGC CAG CAA AAG GCC AGG RAC CGT AAA AAG GCC GTG TTG CTG GCG TTT TTC CAT AGG CTC CGC CCC
 3979 CCT GAC GAG CAT CAC AAA AAT CGA CGC TCA AGT CAG AGG TGG CGA AAC CCG ACA GGA CTA TAA AGA TAC CAG GCG TTT
 4057 CCC COT GGA AGC TCC CTC GTG CCG GTT CCG ACC CTG CCG CTT ACC GGA TAC CTG TCC GGC TTT CTC COT TCG
 4135 GGA AGC GTG CCG CTT TCT CAT AGC TCA CGC TGT AGG TAT CTC AGT TCG GTG TAG GTC GTT CCG TCC AAC CCG CTG GCG TGT
 4213 GTG CAC GAA CCC CTT CAG CCC GAC CGC TGC TTA TCC GGT AAC TAT COT CTT GAG TCC AAC CCG GTA AGA CAC
 4291 GAC TTA TCG CCA CTG GCA GCA GCC ACT GGT AAC AGG ATT AGC AGA GCG AGG TAT GTA GGC GGT GCT ACA GAG TTC TTG
 4369 AAG TGG TGG COT AAC TAC TAC ACT AGA AGA GGA GAT TTT GGT ATC TGC CTG AAG CCA GTT ACC TTC GGA
 4447 AAA AGA GTT GGT AGC TCT TGA TCC GGC AAA CAA ACC ACC GGT GGT AGC GGT TTT TTT GTT TGC AAG CAG CAG ATT
 4525 ACG CGC AGA AAA AAG GAT CTT TTA GAA GAT COT TTG ATC TTT TCT ACG GCG TCT GAC GCT CAG TGG AAC GAA AAC TCA
 4603 CGT TAA GGG ATT TTG GTC ATG GCT AGT TAA TTA ACA TTT AAA TCA

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1 CTT GAT TTG GGT GAT GGT TCA CGT AGT GGG CCA TCG CCC TGA TAG ACG GGT TTT CCG COT TTG ACG TTG GAG TUC ACG
 79 TTC TTT AAT AGT GGA CTC TTG TTG TTT CTA ACT GGA ACA ACA CTC AAC TCT ATC TCG GGC TAT TCT TTT GAT TTA TAA GGG
 157 ATT TTG CCG ATT TCG GTC TAT TGG TTA AAA AAT GAG CTG ATT TAA CAA AAA TTT AAC GCG AAT TTT AAC AAA ATA TTA
 235 ACG TTT ACA ATT TTA TGG TGC AGT CTC AGT ACA ATC TGC TCT GAT GCC GCA TAG TTA AGC CAG CCC CGA CAC CCG CCA
 313 ACA CCC GCT GAC GCG CCC TGA CCG GCT TGT CTG CTC CCG GCA TCC GCT TAC AGA CAA GCT GTG ACC GTC TCC GGG AGC
 391 TGC ATG TGT CAG AGG TTT TCA CCG TCA TCA CCG AAA CCG GCG AGA CGA AAG GGC CTC GTG ATA CCG CTA TTT TTA TAG
 459 GTT AAT GTC ATG ATA ATA ATG GGT TCT TAG ACG TCA GGT GGC ACT TTT CCG GCA AAT GTG CCG GGA ACC COT ATT TGT
 547 TTA TTT TTC TAA ATA CAT TCA AAT ATG TAT CCG COT ATG AGA CAA TAA CCC TGA TAA ATG CTT CAA TAA TAT TGA AAA
 625 AGG AAG AGT ATG AGT ATT CAA CAT TTC COT GTC CCG CTT ATT CCC TTT TTT TGC CTT COT GTT TTT GCT
 703 CAC CCA GAA ACG CTG GTG AAA GTA AAA GAT GCT GAA GAA GAT TTT CCA ATG ATG AGC ACT TTT AAA GTT CTG CTA TGT
 781 AAC AGC GGT AAG ATC CTT GAG AGT TTT CCG CCC GAA GAA GAT TTT CCA ATG ATG AGC ACT TTT AAA GTT CTG CTA TGT
 859 GGC GCG GTA TTA TCC COT AIT GAC GCG GGS CAA GAG CAA CTT GGT GGC ATG GAT TCT CAG AAT GAT GAC TTG GTT
 937 GAG TAC TCA CCA GTC ACA GAA AAG CAT CTT ACG GAT GGC ATG ACA GTA AGA GAA TTA TGC AGT GCT GCC ATG ACC ATG
 1015 AGT GAT AAC ACT CCG GCT AAC TTA CTT CTG ACA CCG ATC GGA GGA CCG AAG GAG CTA ACC GCT TTT TTG CAC AAC ATG
 1093 GGG GAT CAT GTA ACT CCG CTT GAT COT TGG GAA CCG GAG CTG AAT GAA GCC ATA CCA AAC GAC GAG COT GAC ACC ACG
 1171 ATG COT GTA GCA ATG GCA ACA CCG TTG CCG AAA CTA TTA ACT GGC GAA CTA CTT ACT CTA GCT TCC CCG CAA CAA TTA
 1249 ATA GAC TGG ATG GAG GCG GAT AAB GTT GCA GGA CCA CTT CTG CCG TCG GCG TGS TTT ATT GCT GAT
 1327 AAA TCT GGA GCC GGT GAG COT GAG COT CCG GGT ATC AAT GCA GCA CTA GAT GAG AAG CCG TCC COT GCT ATC GTA
 1405 GTT ATC TAC ACG ACG GCG AGT CAG GCA ACT ATG GAT GAA CGA AAT AGA CAG ATC GCT GAG ATA GGT GCC TCA CTG AAT
 1483 AAG CAT TGG TAA CTG TCA GAC CAA GTT TAC TCA TAT ATA CTT TAG ATT GAT TTA AAA CTT TAT TTA TTT AAA AGG
 1561 ATC TAG GTG AAG ATC CTT TTT GAT BAT CTC ATG ACC AAA ATC COT TAA COT GAG TTT TCG TTC CAC TGA GCG TCA GAC
 1639 CCC GTA GAA AAG ATC AAA GGA TCT TCT TGA GAT COT TTT TTT CTG CCG GTA ATC TGC TGC CAA ACA AAA CCA
 1717 CCG CTA CCA GCG GTG GTT TGT TTG CCG GAT CAA GAG CTA CCA ACT CTT TTT CCG AAG GTA ACT GGC TTC AGC AGA GCG
 1795 CAG ATA CCA AAT ACT GTT CTT CTA GTG TAG CCG TAG TTA GGC CAC TTC AAG AAC TCT GTA GCA CCG CTT ACA TAC
 1873 CTC GCT CTG CTA ATC CTG TTA CCA GTG TAT CCG GAT AAG TCG TGT CTT ACT GCG TTG GAC TCA AGA CGA
 1951 TAG TTA CCG GAT AAG CCG CAG CCG TCG GGC TGA ACG GGG GGT TCG TGC ATA CAG CCC AGC TTG GAG CCA ACC TAC
 2029 ACC GAA CTG AGA TAC CTA CAG COT GAG CTA TGA GAA AGC CCG ACC CTT CCC GAA GAG AAG GCG GAC AGG TAT CCG
 2107 GTA AGC GGC AGG GTC GGA ACA GGA GAG CCG COT TTT TTT TGA TGC TCA GGG GCG AGC CTA TGG AAA AAC GCC AGC
 2185 GGG TTT CCG CAC CTC TGA CTT GAG COT TTT TTT TGG TGG COT TTT GCT CAC ATG TTC TTT COT GAT TTA TCC COT GAT TCT
 2263 AAC GCG GGC TTT TTA CCG TTC CTG GCC TTT TGC TGG COT TTT GCT CAC ATG TTC TTT COT GAT TTA TCC COT GAT TCT
 2341 GTG GAT AAC COT ATT ACC CCG TTT GAG TGA COT GAT ACC COT CCG AGC CCA AGC CCG AGC CAG TCA GTG
 2419 GAG GAG GAA GCG GAA GAG CCG CCA ATA CCG COT CTC CCG COT TAA TAA TGC AGC TGG CAC
 2497 GAC AGG TTT CCC GAC TGG AAA CCG GGC AGT GAG CCG AAC ATT AAT GTG AGT TAG CTC ACT CAT TAG GCA CCC CAG
 2575 GCT TTA CAC TTT ATG CTT CCG GCT AGT TTG TGT GGA ATT GTG AGC GGA TAA CAA TTT CAC ACA AAC AGC TAT

2653	GAC	CAT	GAT	TAC	GCC	AAG	CTT	TGG	AGC	CTT	TTT	TGG	GAA	GAT	TTT	TGG	GAA	GAT	TTT	CBA	CGT	GAA	AAA	ATT	ATT	ATP	CGC	BAF	TCC	TTT
2731	AGT	TGT	TCC	TTT	CTA	TTT	TCA	CAG	TGC	ACA	GAT	CCA	AAT	GAC	CCA	GTC	TCC	ATC	CTC	GTC	CTT	ATC	ATC	ATC	ATC	TGC	ATC	TGT	AGG	AGA
2809	CAG	AGT	CAC	CAT	CAC	TTG	GCG	AAG	TCA	GCG	GAG	CAT	TAG	CAG	CTA	GTC	AAA	TTG	GTA	TCA	GCA	GAA	ATC	AGG	TAA	AGG	GAA	AGC	TGA	AGC
2887	CCC	TAA	GCT	CCT	GAT	CTA	TGC	TGC	ATC	CAG	TTT	GCA	AAG	TGC	CGT	CCC	ATC	ATC	AGT	GTT	CAG	TGG	CAG	TGG	ATC	TAG	ATC	TAG	ATC	AGC
2965	AGA	TTT	CAC	TCT	CAC	CAT	CAG	CAG	TCT	GCA	ACC	TGA	AGA	TTT	TGC	AAC	TTA	CTA	CTG	TCA	ACA	GAG	TTA	CAG	TAC	TAG	CAC	TAC	CCC	AGC
3043	TCC	AAC	GTT	CTG	CGB	ACA	AGG	CAG	CAA	CGT	CBA	TCT	CGT	CAC	TCT	TGC	TGC	ATC	ATC	TGT	CTT	CAI	CTT	CCC	GCC	ATC	CTC	GCC	ATC	ATC
3121	TGA	TGA	GCA	GTT	GAA	ATC	TGG	BAC	TGC	CTC	TGT	TGT	TGT	CTG	CTC	GCT	GAT	TAA	CTT	CTA	TCC	CAG	AGA	CBA	AGT	ACA	AGT	ACA	AGT	ACA
3199	GTG	GAA	GST	GGA	TAA	CGC	CCT	CXA	ATC	GGG	TAA	CTC	CCA	GSA	GBG	TGT	CAC	AGA	GCA	GBA	CAG	CAA	GSA	CAG	CBA	AGT	ACA	AGT	ACA	AGT
3277	CAG	CCT	CAG	CAC	CCT	BAC	GCT	BAC	GCT	GAG	CAA	AGC	AGA	CTA	CGA	GAA	ACA	CAA	AGT	CTA	CSC	CTG	CGA	AGT	CBA	AGT	CBA	AGT	CBA	AGT
3355	GGG	CCT	GAG	CTC	GCC	CTT	CAT	AAA	GAT	AAA	CTT	CAA	CAG	GGG	AGA	GTG	TTA	GTA	AGG	CGC	GCC	AAT	TCT	APT	TCA	AGG	AGA	AGG	AGA	AGG
3433	CAG	TCA	TAA	TGA	AAT	ACC	TAT	TGC	CTA	CGG	CAG	CCG	CTG	GAT	TCT	PAI	TAC	TTC	TAC	CGG	CCC	AOC	CGG	CCA	TGG	CGA	TGC	TGC	CGA	TGC
3511	CTG	CTT	GCC	GAA	TAT	CAT	GGT	GBA	AAA	TGG	CCG	CTT	TTT	TGG	ATP	CAT	CGA	CTG	TGG	CGT	GGT	TGT	GGC	GGA	CGG	CGG	CGG	CGG	CGG	CGG
3589	CTA	GSA	CAT	AGC	GTT	GGC	TAC	CCG	TGA	TAT	TGC	TGA	AGA	GCT	TGG	AGA	GCT	TGG	CGG	CGT	GGT	TGT	GGC	TGT	GGC	GGA	CGG	CGG	CGG	CGG
3667	TTA	CGB	TAT	CSC	CCC	TCC	CTA	TTT	GCA	GGC	CAT	CGC	CTT	CTA	TGG	CTT	TCT	CGA	CXA	GAT	CTT	CGT	CGT	CGT	CGT	CGT	CGT	CGT	CGT	CGT
3745	GGG	TTT	GCT	AGC	AGA	TTT	CGA	TTC	CAC	CGC	CTT	CTA	TGA	AAG	GTT	GGG	CTT	GGG	CTT	GGG	CTT	GGG	CTT	GGG	CTT	GGG	CTT	GGG	CTT	GGG
3823	CGG	CTG	GAT	GAT	CCT	CCA	GGG	CGG	GGA	TCT	CAT	GCT	GGA	GTT	CTT	CGC	CCA	CCC	CAA	CTT	GAT	TAT	TGC	AGC	TTA	TAA	TAA	TAA	TAA	TAA
3901	TGG	TAA	CAA	AAG	CAA	TAG	CAT	CAC	AAA	TTT	CAC	AAA	TAA	AGC	ATT	TTT	TTT	ACT	GCA	TTT	TAG	TTG	TGC	AGC	TTA	TAA	TAA	TAA	TAA	TAA
3979	CAT	CAT	CAA	TGT	ATC	TTA	TCA	TGT	CTG	TAT	ACC	GTC	GAC	CTC	TAG	CTA	GAG	CTT	GGC	GTA	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	ATG
4057	TCT	TCC	TGT	GTG	AAA	TTG	TTA	TCC	GCT	CAC	AAT	TGC	GTT	GGG	CTC	ACT	GCC	TTT	CCA	GTC	GGG	AAA	CCT	GTC	GTG	CGA	CGC	CGC	CGC	CGC
4135	TGC	CTA	ATG	AGT	GAG	CTA	ACT	CAC	ATT	ACT	TGC	GTT	GGG	CTC	ACT	GCC	TTT	CCA	GTC	GGG	AAA	CCT	GTC	GTG	CGA	CGC	CGC	CGC		

Figure 12 contd

6397 TTG CAG CAC ATC CCC CTT TCG CCA GCT GGC GTA ATA GCG AAG AGG CCC GCA CCG ATC GCC CTT CCC AAC AGT TGC GCA
 6476 GCC TGA ATG GCG AAT GGC GCC TGA TGC GGT ATT TTC TCC TTA CCG ATC TGT GCG GTA TTT CAC ACC GCA TAC GTC AAA
 6553 GCA ACC ATA GTA CCG GCC CTG TAG CCG CCG ATT AAG GCG GCG TGT GGT TAC GCG CAG CBT GAC CAC TAC ACT
 6631 TGC CAG CCG CTT AGC GCC CCG TCC TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG
 6709 TCT AAA TCG GCG GCT CCC TTT AGG GTT CCG ATT TAG TGC TTT ACG GCA CCT CGA CCC CAA AAA A

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1 TAC TCT TCC TTT TTC AAT ATT ATT GAA GCA TTT ATC AGG GTT ATT GTC TCA TGA GCG GAT ACA TAT TTG AAT GTA TTT
 79 AGA AAA ATA ABC AAA TAG GGG TTC CCG GCA CAT TTC CCG GAA AAG TGC CAC CTG ACG TCG ACG GAT CCG GAG ATC TCC
 157 CGA TCC CCT ATG GTG CAC TCT CAG TAC AAT CTG CTC TGA TGC CCG ATA GPT AAG CCA GTA TCT GCT CCC TGC TTG TGT
 235 GTT GGA GGT GGT TAG GCG TTT TGC GCT GCT CCG GAG CAA AAT TTA AGC TAC AAC AAG GCA AGG CTT GAC CGA CAA TTG CAT GAA GAA
 313 TCT GCT TAG GGT TAG GCG TTT TGC GCT GCT CCG CCA TAT TGG CCA TTA GCC ATA TTA TTC ATT GGT TAT
 391 ATA GCA TAA ATC AAT ATT GGC TAT TGG CCA TTG CAT ACG TTG TAT CCA TAT CAT AAT ATG TAC ATT TAT ATT GGC TCA
 469 TGT CCA ACA TTA CCG CCA TGT TGA CAT TGA TTA TTG ACT AGT TAT TAA TAG TAA TCA AAT ACG GCG TCA TTA GTT CAT
 547 AGC CCA TAT ATG GAG TTC CCG GTT ACA TAA CTT ACG GTA AAT GGC CCG CCT GGC TGA CCG CCG AAC GAC CCC CCG CCA
 625 TTG ACG TCA ATA ATG ACG TAT GTT CCC ATA GTA ACG CCA ATA GCG ACT TTC CAT TGA CGT CAA TGG GTG GAG TAT TTA
 703 CCG TAA ACT GCC CAC TTG GCA CAT CAA GTG TAT CAT ATG CCA AGT ACG CCC CTT ATT GAC GTC AAT GAC GGT AAA
 781 TGG CCC GCT TGG CAT TAT GCC CAG TAC ATG ACC TTA TGG GAC TTT CTT ACT TGG CAG TAC ACG TTT GAC TCA CCG GGA TTT CCA AGT
 859 GCT ATT ACC ATG GTG ATG CCG TTT TGG CAG TAC ATC AAT GGG CGT GGA TAG CCG TTT GAC TCA CCG GGA TTT CCA AGT
 937 CTC CAC CCC ATT GAC GTC AAT GGG AGT TTG TTT TGG CAC CAA AAT CAA CCG GAC TAT ATA AGC GCT TTA GTG AAC CBT CAG
 1015 GCC CCA TTG ACG CAA AUG GCG GGT AGG GGT GTA CCG TGG GAG GTC TAT ATA AGC AAG GCT TTA GTG AAC CBT CAG
 1093 ATC GCC TGG AGA CCG CAT CCA CCG TGT TTT GAC CTC CAT AGA CAC CCG GAC CCA TCC AGC CTC CCG GCG GCG GAA
 1171 CCG TGC ATT GGA AGC TTG GTA CCG GTG AAT TGG CCG GCC GTC GAG GTT ATC GAT CCG ACC GAC GCG GTG GCG GCG
 1249 AGA GCG CCG AAT TCC CTA GCC ACC ATG GGA TGG AGC TGT ATC CTC CTC TTT TTG GTA CNG CTG CTG GCG CAG CCG GCG
 1327 ATG GCG CCG AGA ATG GCG GGA ACT GCG CCG AGT TAG GCG AGT TAG GCG AGT TAG GCG AGT TAG GCG AGT TAG GCG AGT
 1405 CTA ATT GAG ATG CCG ATC CCG TGG CAC GAC AGG TTT CCC CCG AAG TGG AAA GCG GCG AGT GAG CCG AAC GCA ATT AAT GTG
 1483 AGT TAG CTC ACT CAT TAG GCA CCC CAG GCT TTA CAG TTT AMT CTT CCG GCT CBT ATG TTG TGT GGA ATT GTG AGC GGA
 1561 TAA CAA TTT CAC ACA GGA AAC AGC TAT GAC CAT GAT TAC GCC AAG CTT GCG CTG CAG GTT CTT TCC GCC TCA GAA GCC
 1629 ATA GAG CCC ACC GCA TCC CCA GCA TGC CTG CTA TTG TCT TCC CAA TCC CCG TCG CTG TCG TCG CCG ACC CCA CCC
 1717 CCC AGA ATA GAA TGA CAC CTA CTC AGA CAA TGC GAT GCA ATT TCC TCA TTT TAT TAG GAA AGG ACA GTG GGA GTG GCA
 1795 CCT TCC AGG GTC AAG GAA GGC ACG GGG GAG GCG CAA ACA GAT GGC TGG CAA CTA GAA GGC ACA GTG GAG GCT GAT
 1873 CAG CGA GCT CTA GAT CAT CGA TGC ATG GCG TCG TGC GCT CTT TTC GGT CCG SCG CTG CCG GTG GCG CCG TCA
 1951 GGC ACC GCG CTT GCG GGT CAT GCA CCA GGT GCG GCG TCC TTC GCG CAC CTC GAG GGT GAC GGT GAA GCG CCG GAG
 2029 CCG CTC GTA GAA GCG GAG GTT GCG GCG CCG GGA GGT CTC CAG GAA GGC GCG CAC CCC GCG GCG CTC GCG CTC CAC
 2107 TCC GCG GAG CAC GAC GGC GCT GCC CAG ACC CTT GCC CTG GTG GTC GCG CCA GAC GCC GAC GGT GCG CAG GAA CCA GCG
 2185 GCG CTC CTT GCG CCG GTG CCG CAG GCG CCG TTC CAT CTG TTG CTG CCG GCG CCG GCG ACC GCT CAA CTC GCG
 2263 CAT CCG CCG GCC GAT CTC GCG GAA CAC CAG CCG CCG CCG CCG GGT CCA GAC CCG CCG CCG GCG GCG
 2341 GTC GTC CCG CCG CCA CAC CTT GCG GAT GTC GAG CCG GAC GAA GAG TTC TTG CAG CTC GGT CAC CBT CTC
 2419 CAG TGC TAG CAC CAA GCG CCC ATC GGT CTT CCC CCG GCG ACC CTC CTC CCA GAG CAC CTC TGG GCG CAC AGC GCG CCT
 2497 GCG CTG CCT GGT CAA GGA CTA CTT CCC CAG ACC GTC CTC CTT CAG CAG CCG CCG CCG CCG CCG CCG CCG CCG
 2575 CAC CTT CCC GCG TGT CCT CCA GTC CTC AGG ACT CTA CTC CTT CAG CAG CCG CCG CCG CCG CCG CCG CCG CCG
 2653 CAC CCA GAC CTA CAT CTG CAA CCG GAA TCA CAA GCG CAG CAA CAC CAA GGT GGA CAA GAG AGT TGG TGA GAG GCG AGC
 2731 ACA GCG AGG GAG GGT GTC TGC TGG AAG CCA GGC TCA GCG CTC CTG CCG CCG CCG CCG CCG CCG CCG CCG CCG
 2809 AGG GCA GCA AGG GCG GCG TGT TCT TCA CCC GGA GCG CTC TGC CCG CCG CCG CCG CCG CCG CCG CCG CCG
 2887 TCT GCG TTT TTC CCG AGG CTC TGG GCA GCG ACA GCG TAG GCG CCG CCG CCG CCG CCG CCG CCG CCG CCG
 2965 CTG GCG TCA GAC CTG CCA AGA GCG ATA TCC GCG AGG ACC CTG CCC CTG ACC TAA GCG CCG CCG CCG CCG CCG CCG
 3043 CAC TCC CTC AGC TCG GAC ACC TTC TCT TCT CCG CCG AGA TTC CAG TAA CTC CCA ATC TTC TCT CTG CAG AGC CCA AAT CTT

Figure 12 contd

3121 GTG ACA AAA CTC ACA CAT GCC CAC CGT GCC CAG CAC CTG AGG TCC TGG GGG GAC CGT CAG TCT TCC TCT TCC CCC CAA
3129 AAC CCA AGG ACA CCC TCA TGA TGT CCC GGA CCC CTG AGG TCA CAT GCG TGG TGG ACG TGA GCC ACG AGG ACC CTG
3277 AGG TCA AGT TCA ACT GGT ACG TGG ACG GCG TGG AGG TGC ATA ATG CCA AGA CAA AGC CGC AGG AGG AGT ACA ACA
3355 GCA CGT ACC GTG TGG TCA GCG TCC TCA CCG TCC TGC ACC AGG ACT GGC TGA ATG AGA GGC AGC ACA AGT GCA AGG TCT
3433 CCA ACA AAG CCC TCC CAG CCC CCA TCG AGA AAA CCA TCT CCA AAG CCA AAG GGC AGC ACA GAG AAC CAC AGG TGT ACA
3511 CCC TGC CCC CAT CCG GAG AGA TGA CCA AGA CCA AGG TCA CCG TGA CCG TGG TCA AAG GCT TCT ATC CCA GCG
3589 ACA TCG CCG TGG AGT GGG AGA GCA ATG GGC AGC CCG AGA ACA ACT ACA AGA CCA CAC CTC CCG TGC TGG ACT CCG ACG
3667 GCT CCG TCT TCG TGT ATA GCA AGC TCA CCG TGA AGA GGT GGT GGC AGG GGC AGG TCT TCT CAT GCT CCG TGA
3745 TGC ATG AGG CTC TGC ACA ACC ACT ACA CCG TGA AGA GGC TCT CCG TGT CTC CGS GHA AAT GAG TTT AAC GGA TCT TAA
3823 TTA ATC CGA GCT CCG TAC CAA GCT TAA GGT TAA AAG GGT GGT TAA CCG TCG TCC TTT CCG TGT GGC AGC CAT CTG
3901 TTG TTT GCC CCG CCG TGC CTT CCG TGA CCG TGG AAG GTG CCA CTG CCA CTG TCC TTT CCG TGT GGC AGG ATT GGG
3979 TTG CAT CCG ATT GTC GTA GGT GGT GTC ATT CTA TTC TGG GGG GTG GGG TGG AGG ACA GCA AGG GGG AGG ATT GGG
4057 AAG ACA ATA GCA GGC ATG CTG GGG ATG CCG GCG GGT TAA CCG CCG GCG TGG TGG TTA CCG GCA GCG TGA CCG CTA CAC TTG
4135 GGT ATC CCC ACG CCG CCG GTC GGT GTC GCG GCG CAT TAA CCG CCG GCG TGG TGG TGG TTA CCG GCA GCG TGA CCG CTA CAC TTG
4213 CCA CCG CCG AGC GCG TCC TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG TTT CCG TTT
4291 AAA TCG GGG GGT CCC TTT AGG GTT CCG ATT TAG TGC TTT ACG GCA CCG CCA AAA ACT TGA TTA GGG TGA TGG
4369 TTC ACG TAG TGG GCG ATC GCG CTG ATA GAC GGT TTT TCG CCC TTT GAC GTT GGA GTC CAC GGT CTT TTA TAG TGG ACT
4447 CTT GTT CCA AAC TGG AAC AAC ACT CAA CCC TAT CTC GGT CTA TTC TTT TGA TTT ATA AGS GAT TTT GCC GAT TTC GGC
4525 CTA TTG GTT AAA AAA TGA GCT GAT TTA ACA AAA ATT TAA CCG GAA TTA ATT CTG TGG AAT GTG TGT CAG TTA GGG TGT
4603 GGA AAG TCC CCA GGC TCC CCA GCA GGC AGA AGT ATG CAA AGC ATG CAT CTC AAT TAG TCA GCA ACC AGG TGT GGA AAG
4681 TCC CCA GGC TCC CCA GCA GGC AGA AGT ATG CAA AGC ATG CAT CTC AAT TAG TCA GCA ACC ATA GTC CCG CCC CTA ACT
4759 CCG CCC ATC CCG CCG CCG CTA ACT CCG CCC AGT TCC GCC CAT TCT CCG CCC CAT GGC TGA TCA AAT TTT TAT TAT GCA
4837 GAG CCC GAG GCG CCG TCT GCG TCT GAG CTA TTC CAG AAG TAG TGA AGA GGC TTT TTT GHA GGC CTA GGC TTT TGC AAA
4815 AAG CTC CCG GCA GCT TGG ATA TCC ATT TTC GGA TCT GAT CAA GAG ACA GCA TCG TTT CCG TTT CCG ATG ATT GAA CAA
4893 GAT GGA TTG CAC GCA GGT TCT CCG GCG GCT TGG GTG BAG CTA TTC GGC TAT GAC TGG GCA CBA CAG ACA ATC GGC
5071 TGC TCT GAT GCG GCG GTG TTC CCG CTG TCA GCG CAG GGG CCG CCG GTT CTT TTT GTC AAG ACC GAC CTG TCC GGT GCC
5149 CTG AAT GAA CTG CAG GAG GCA CCG CCG CTA TCG TGG CTG GCC ACG GGT CTT CCG TGC GCA GCT TGC GCA CTC GTC GTC GAC
5227 GTT GTC ACT GAA CCG GGA AGG GAC TGG CTG CTA TTG GCG GAA GTG CCG CAG GAT CTC CTG TCA TCT CAC CTT GCT
5305 CCT GCC GAG AAA GTA TCC ATC ATG GCT GAT GCA ATG CCG CCG CTG CAT ACG CTT GAT CCG GCT ACC TGC CCA TTC GAC
5383 CAC CAA CCG AAA CAT CCG ATC GAG CCA GCA CGT ACT CCG ATG GHA GCG CCG CTT GTC GAT CAG GAT CAT CTG GAC GAA
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Figure 13

A

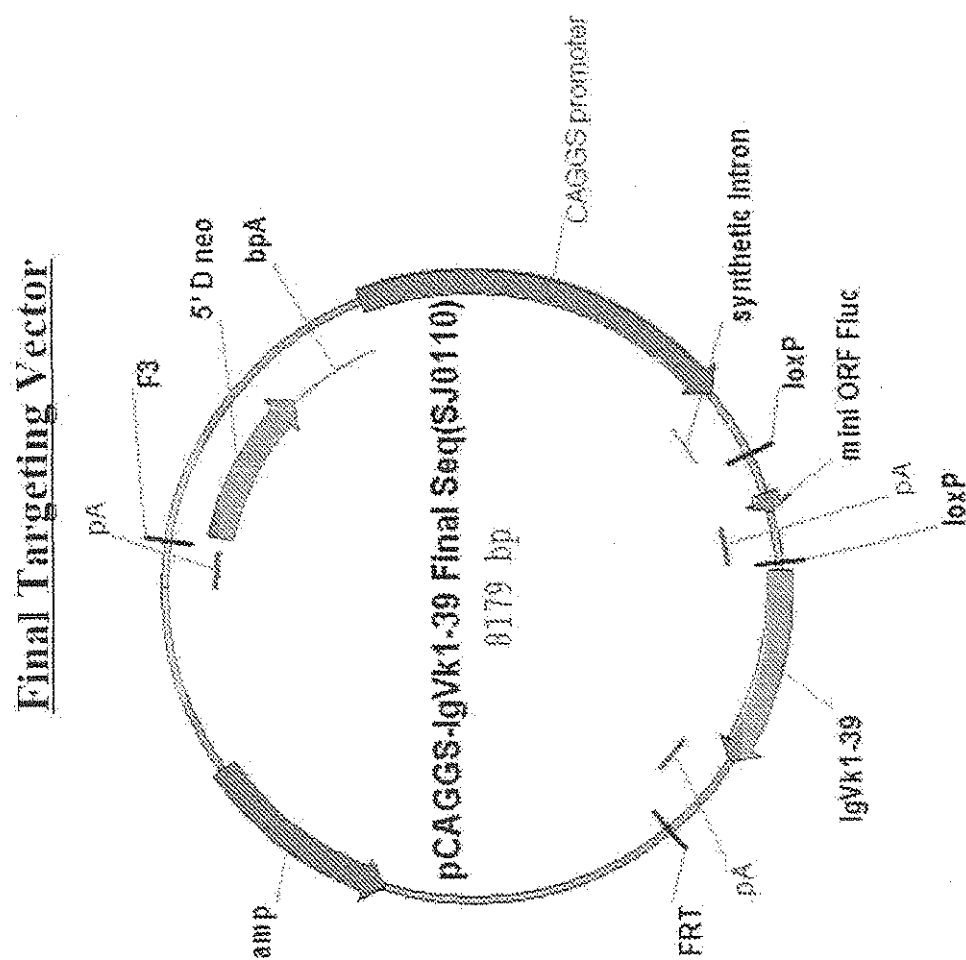


Figure 13 contd

B

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Figure 13 contd

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Figure 13 contd

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Figure 13 contd

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Figure 13 contd

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Figure 13 contd

C

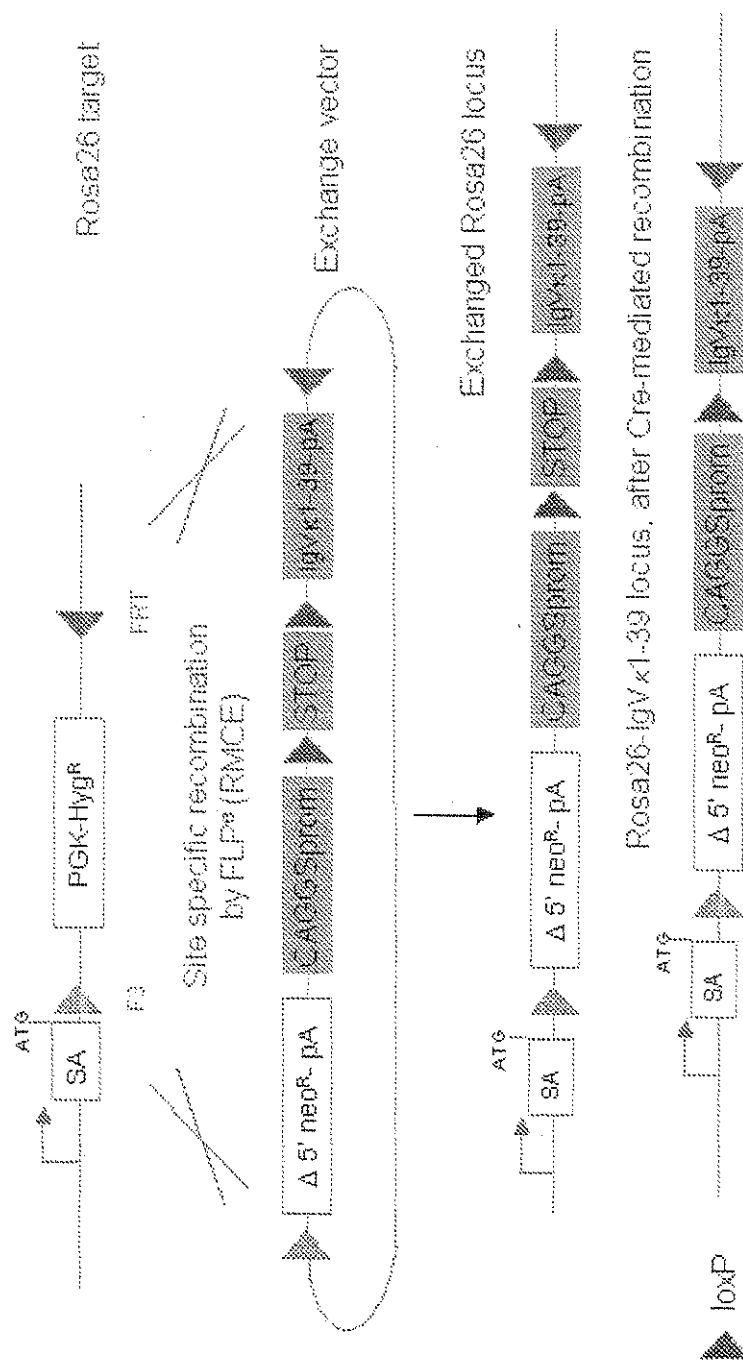
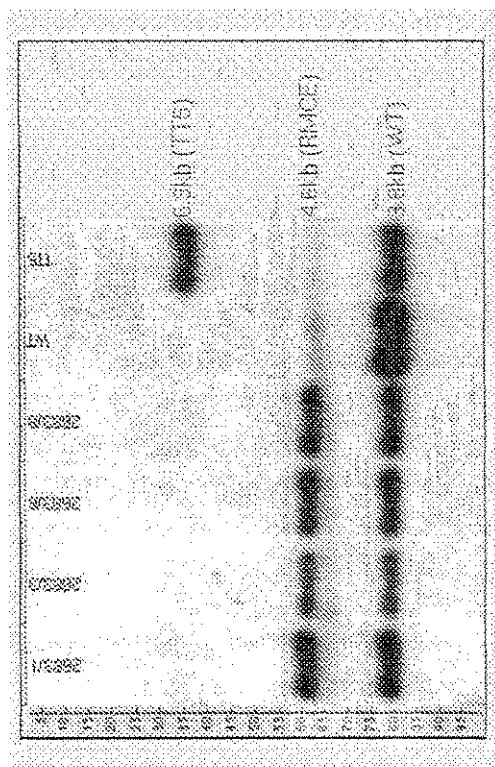


Figure 14

A



B

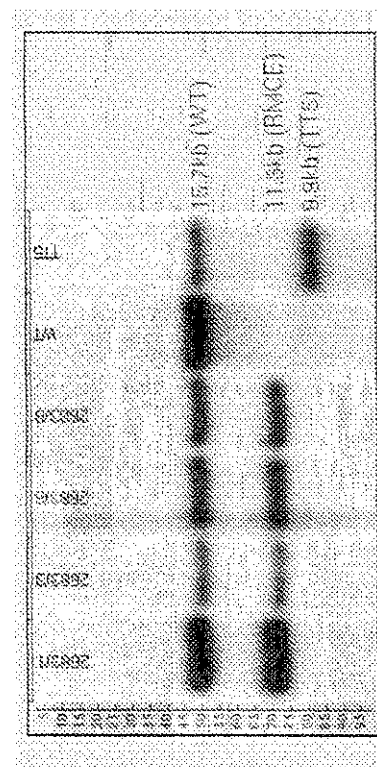


Figure 14 contd

C

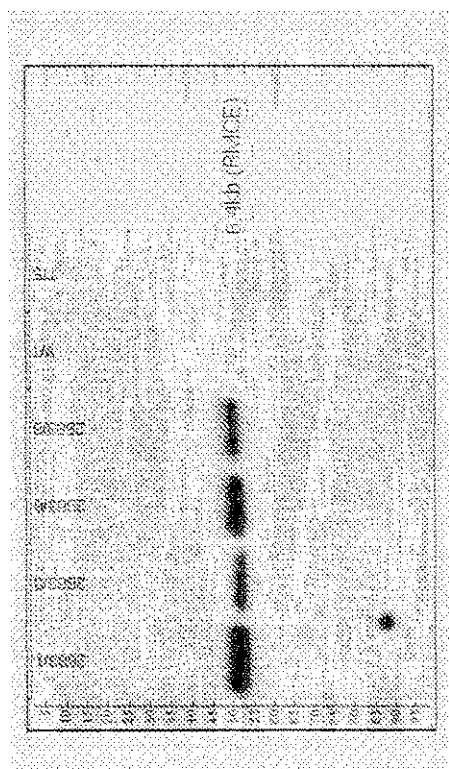


Figure 15

A

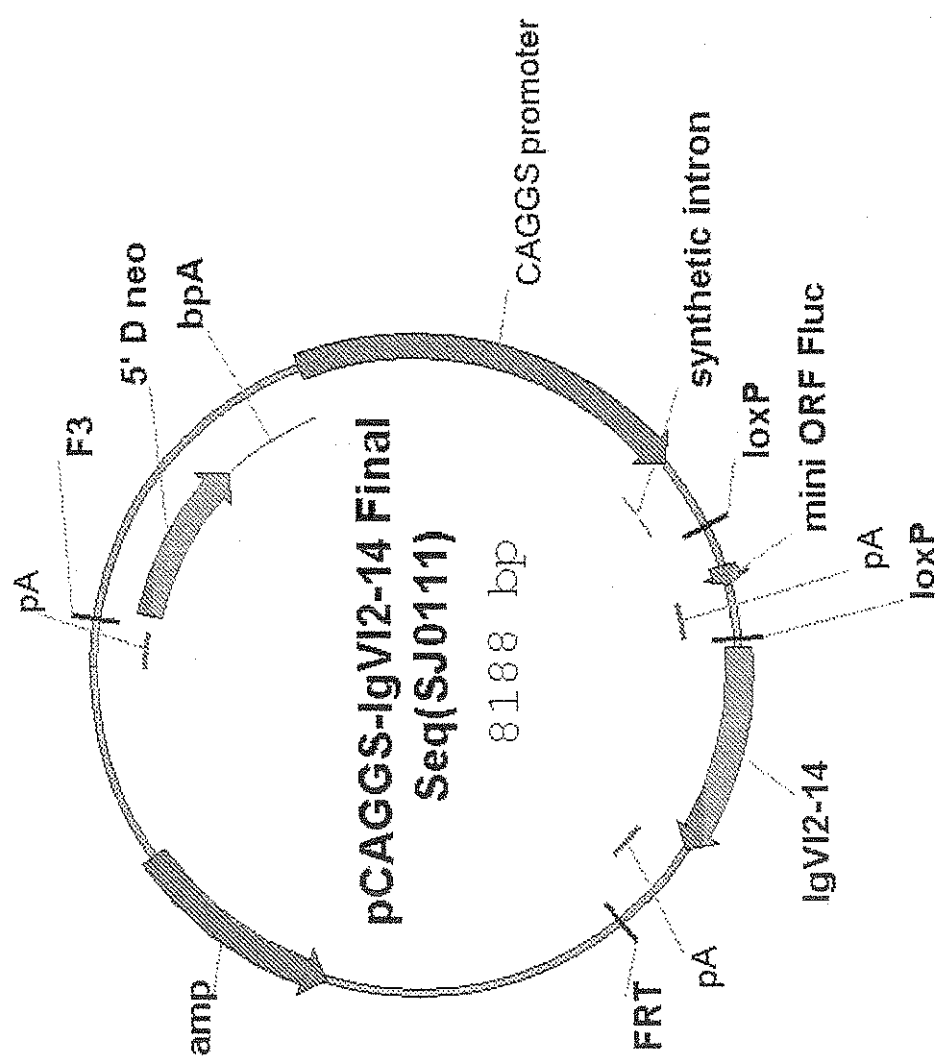


Figure 15 contd

B

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Figure 15 contd

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 1501 tgccaagttc taattccatc agaagctgac tctagatggc gcgtatgcag gttttcgaca
 1561 ttgattattg actagtattt aatagtaatc aattacgggg tcattagttc atagcccata
 1621 tatggagttc cgcgttacat aacttacggt aaatggcccc cctggctgac cgcccaacga
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Figure 15 contd

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Figure 15 contd

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Figure 15 contd

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Figure 15 contd

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8041 agctggcgaa agggggatgt gctgcaaggc gattaagtgt ggtaacgcca gggttttccc
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Figure 15 contd

C

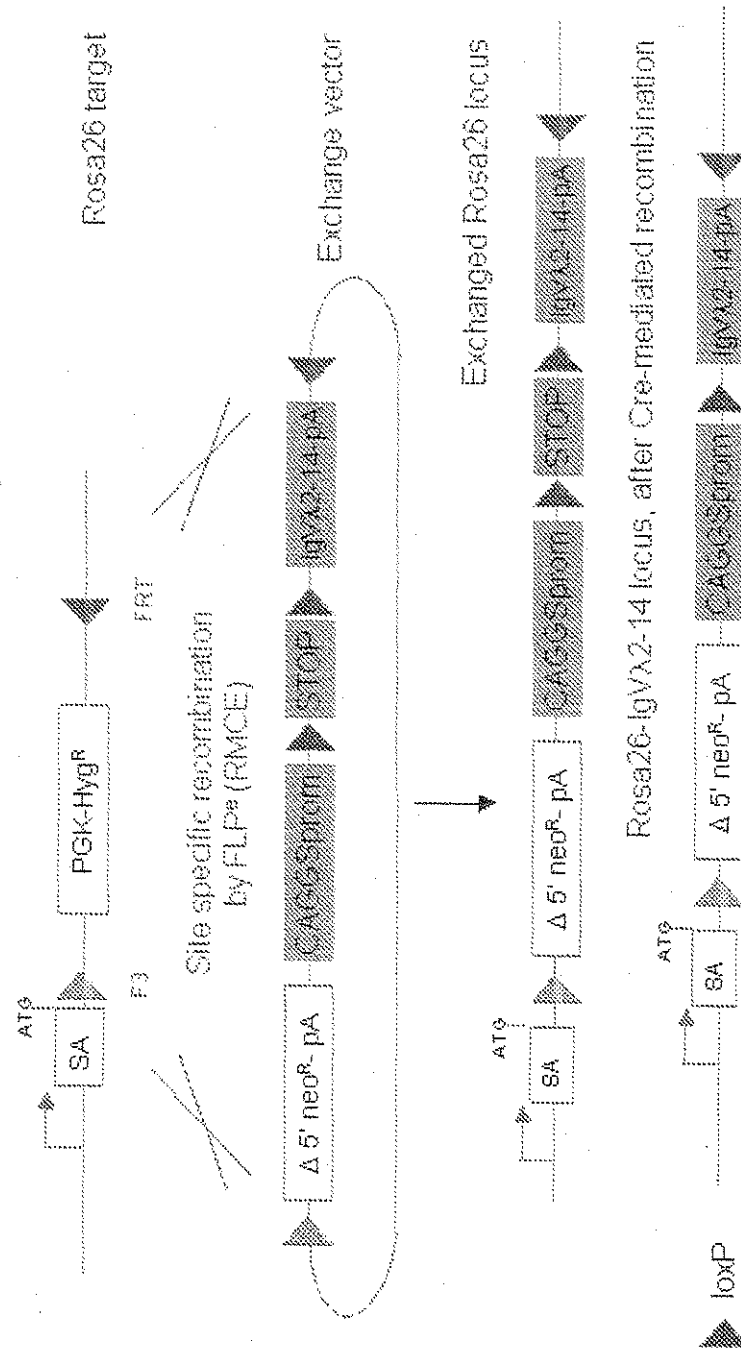


Figure 16

A

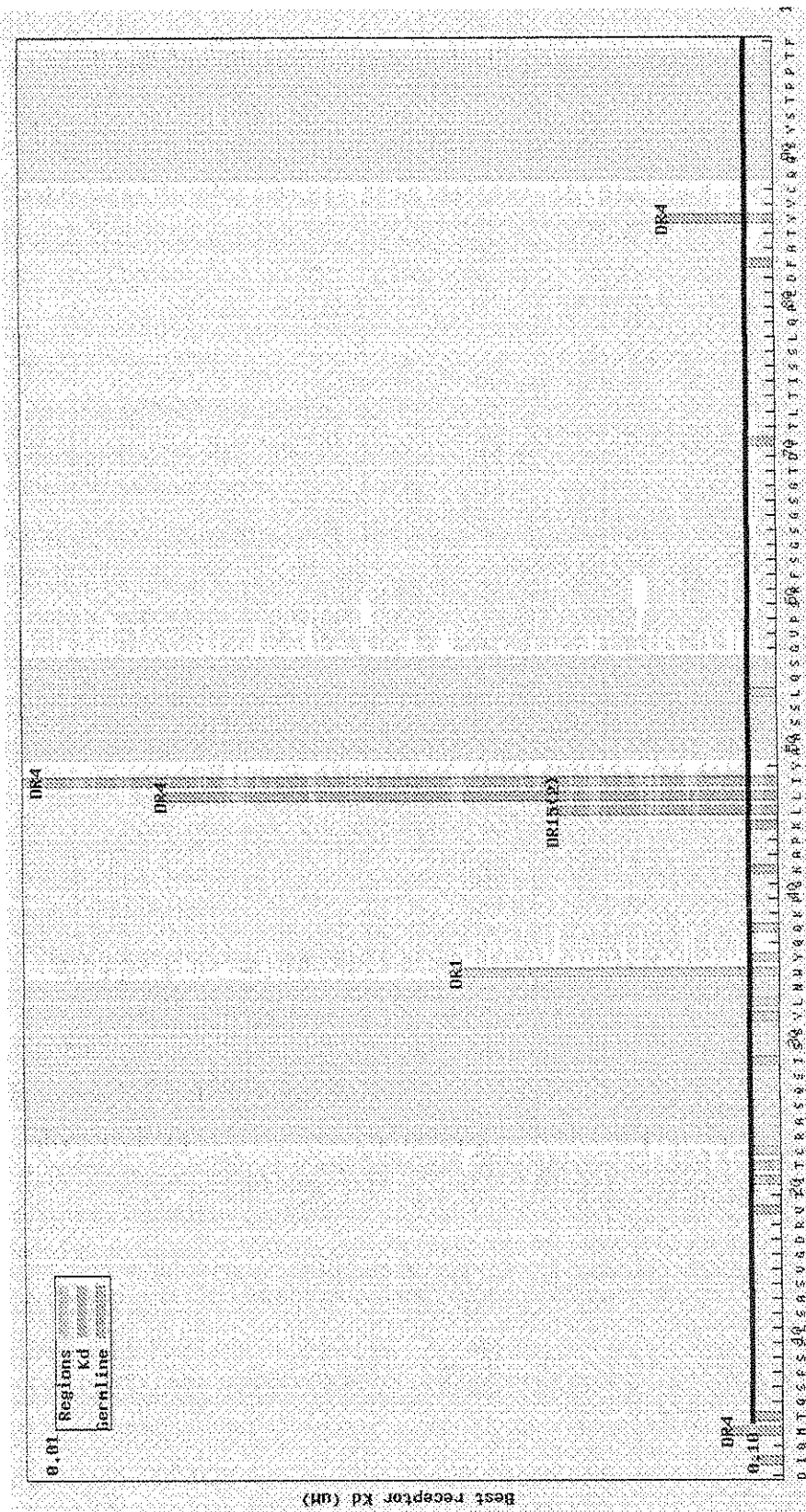


Figure 16 contd

B

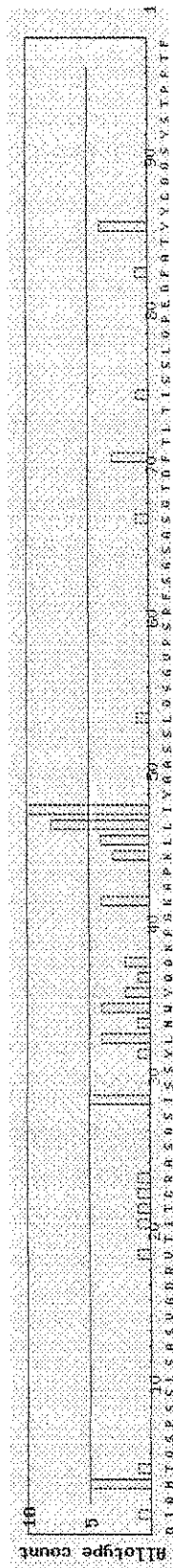


Figure 16 contd

C



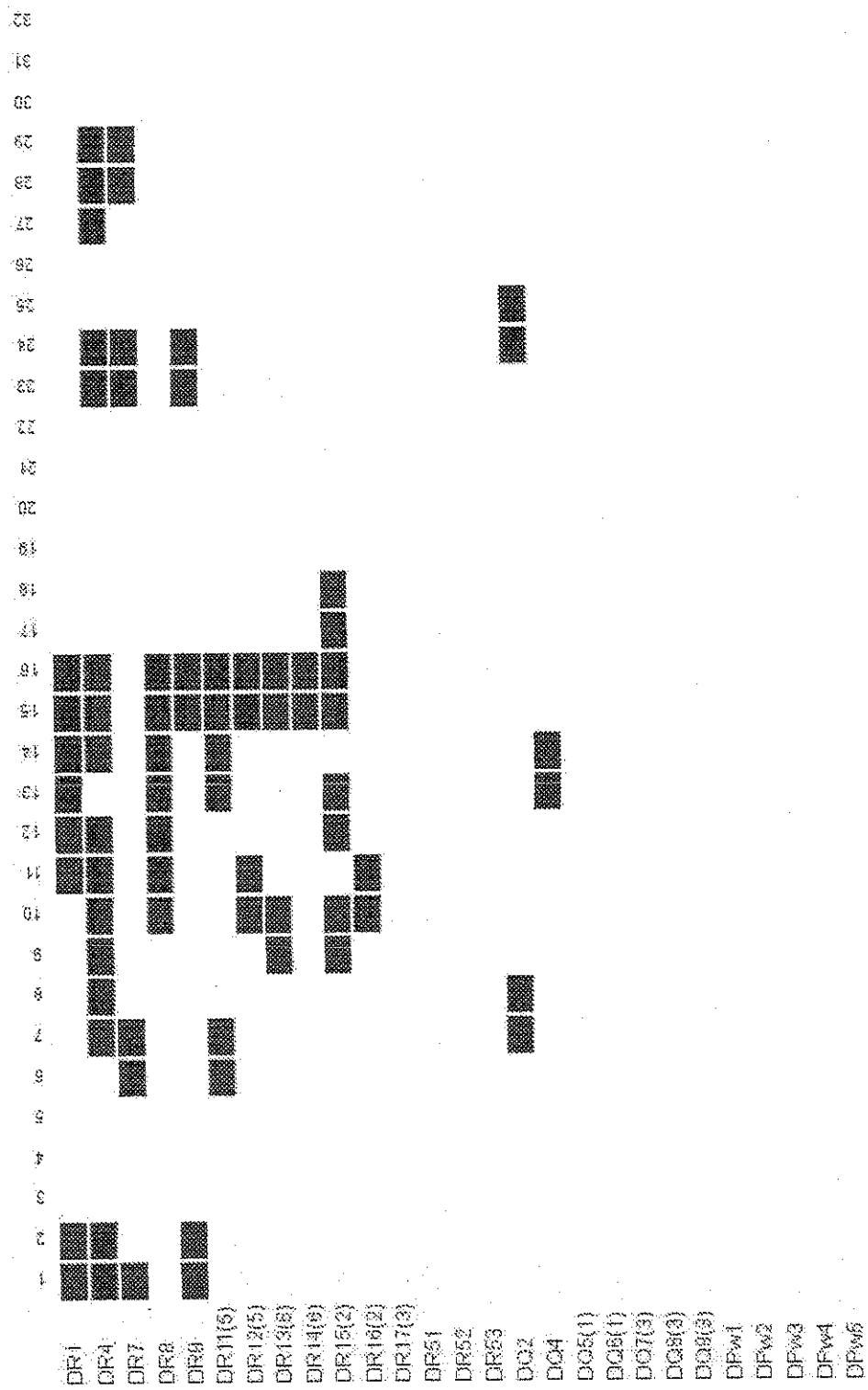


Figure 18

A

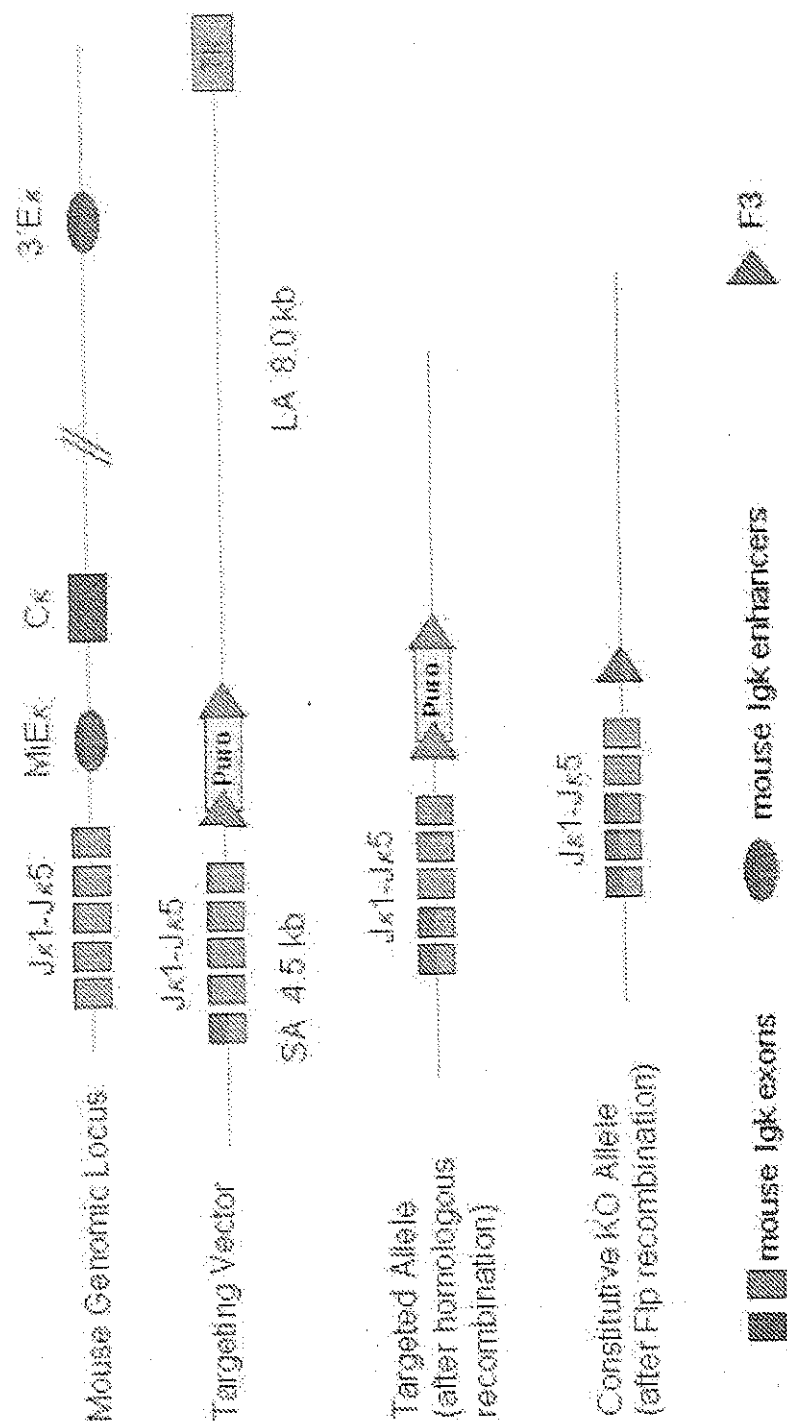


Figure 18 contd

B

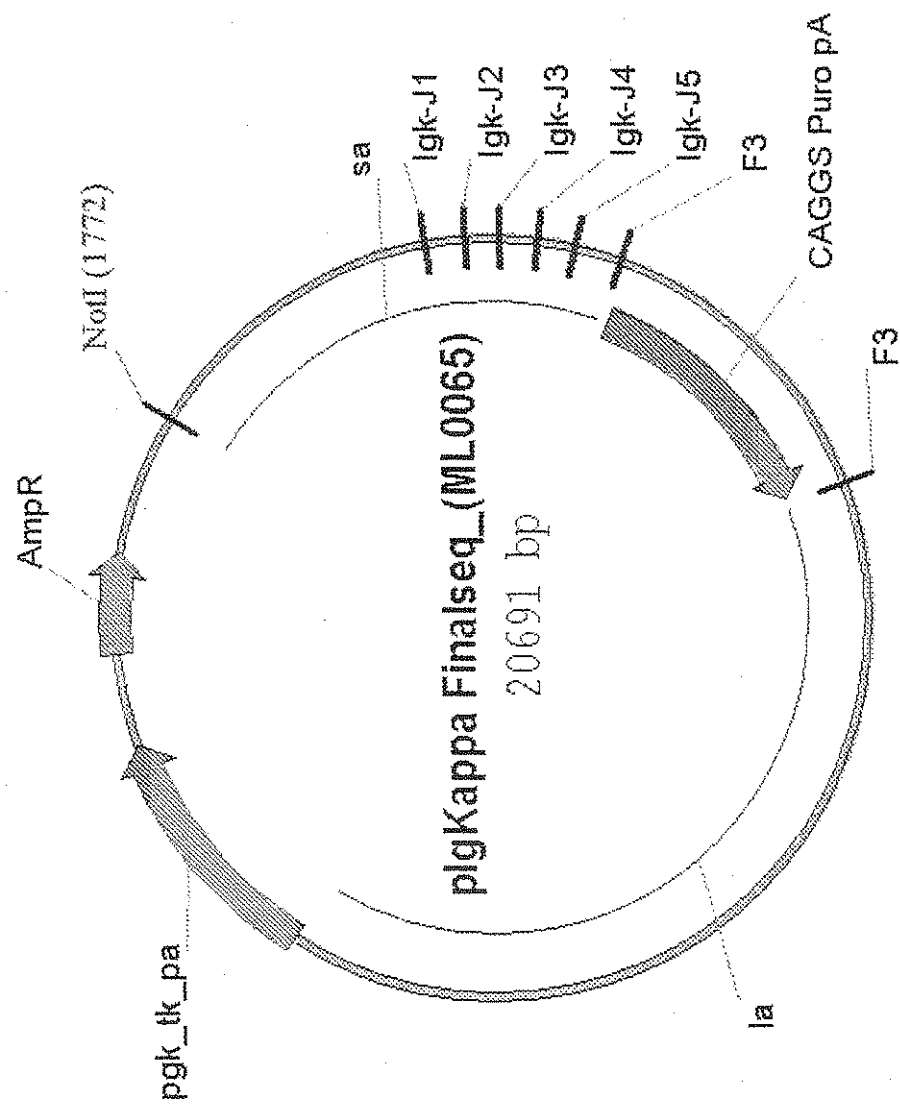


Figure 19

A

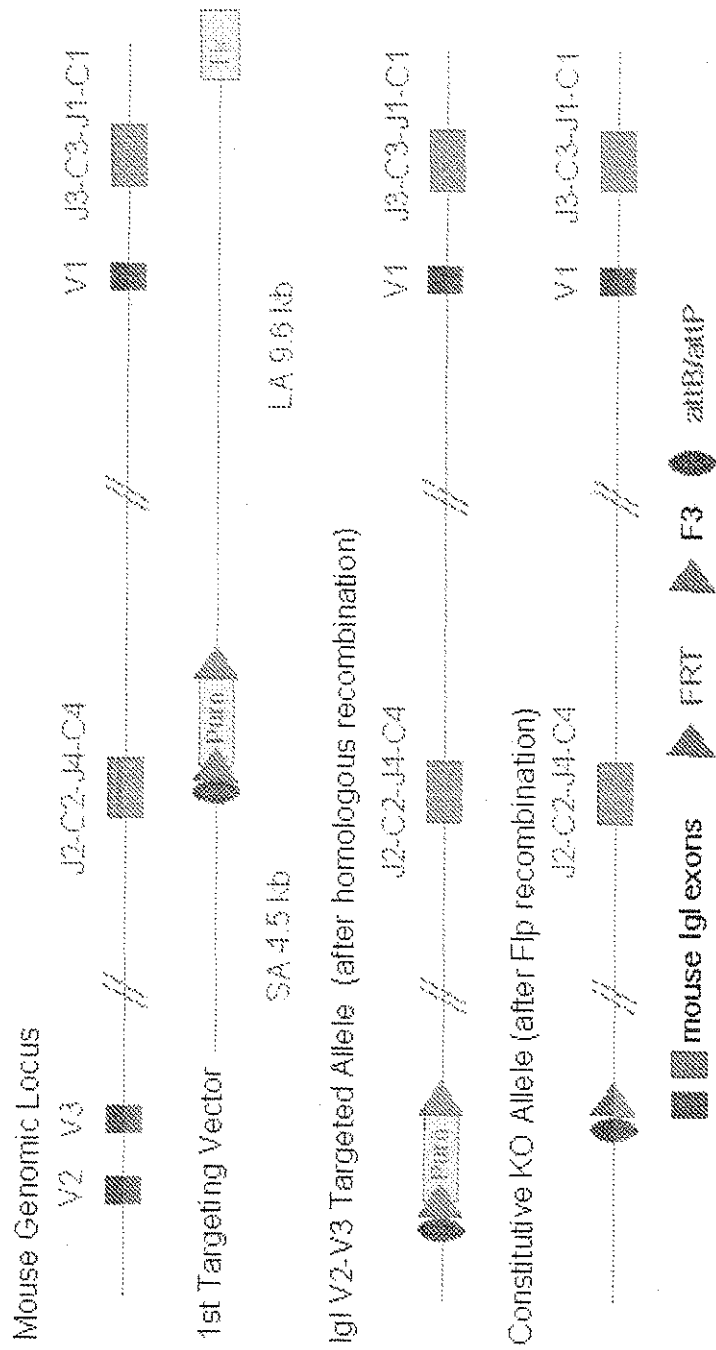


Figure 19 contd

B

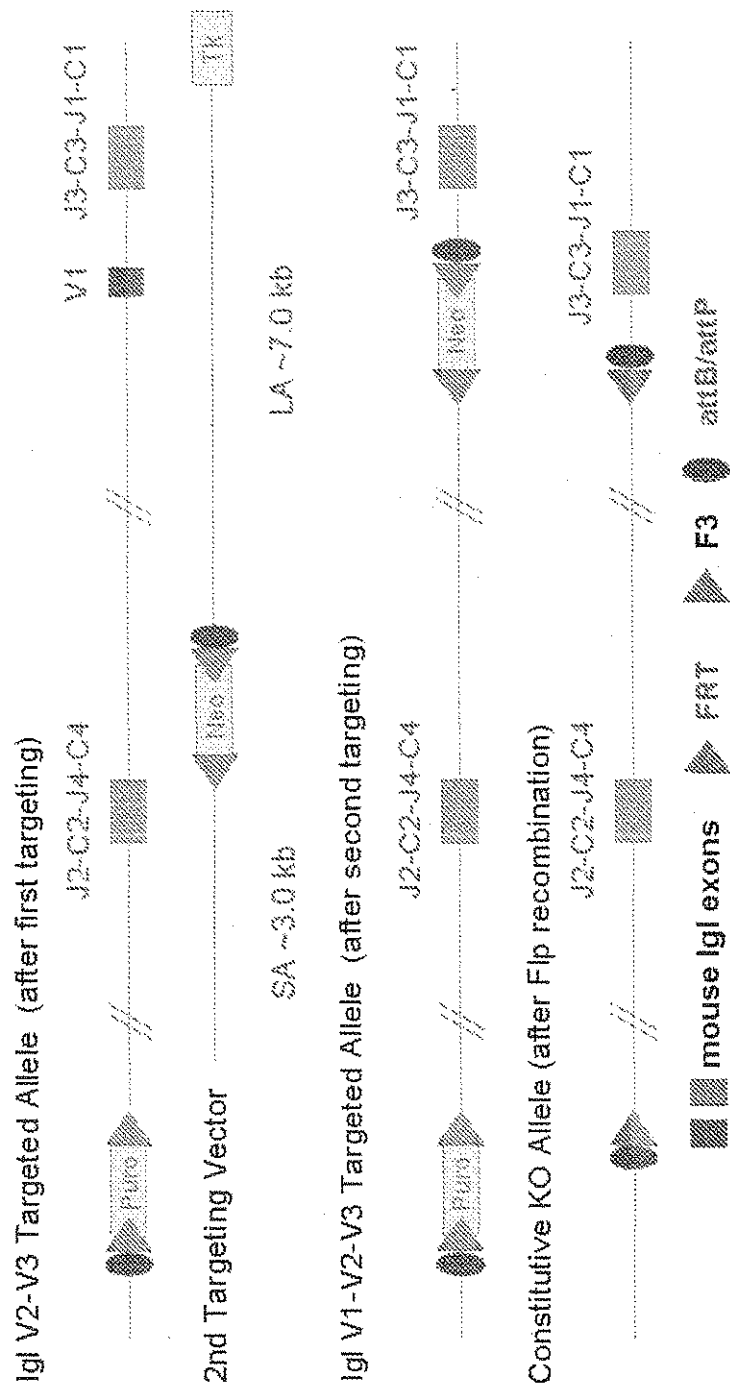


Figure 20

A

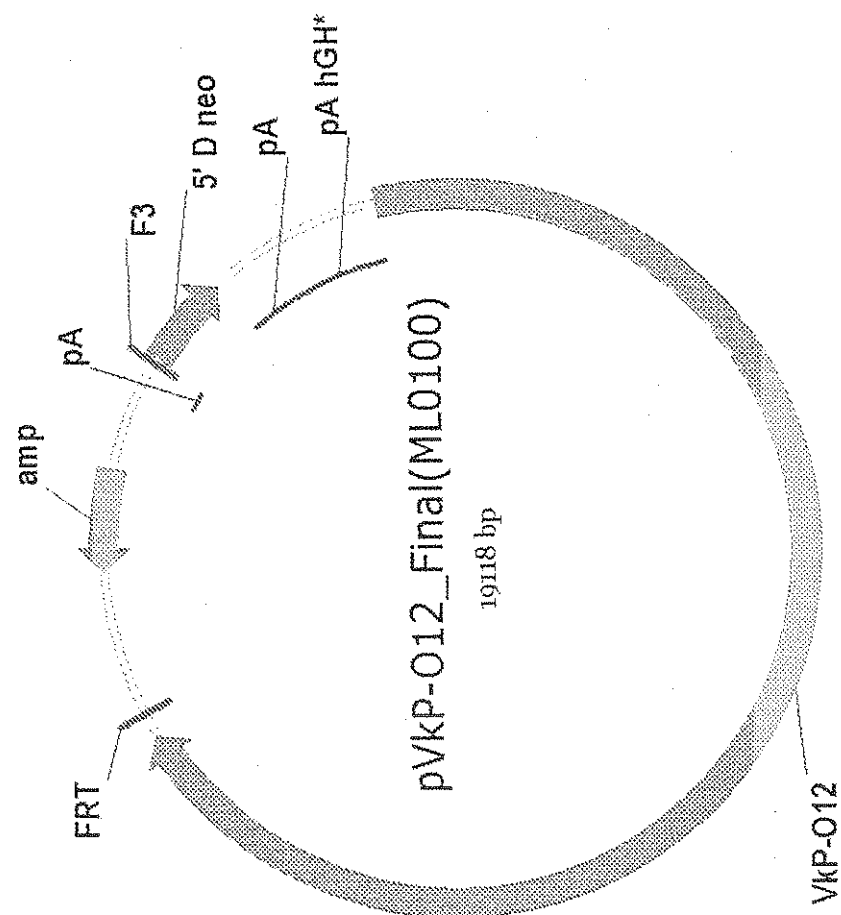


Figure 20 contd

B

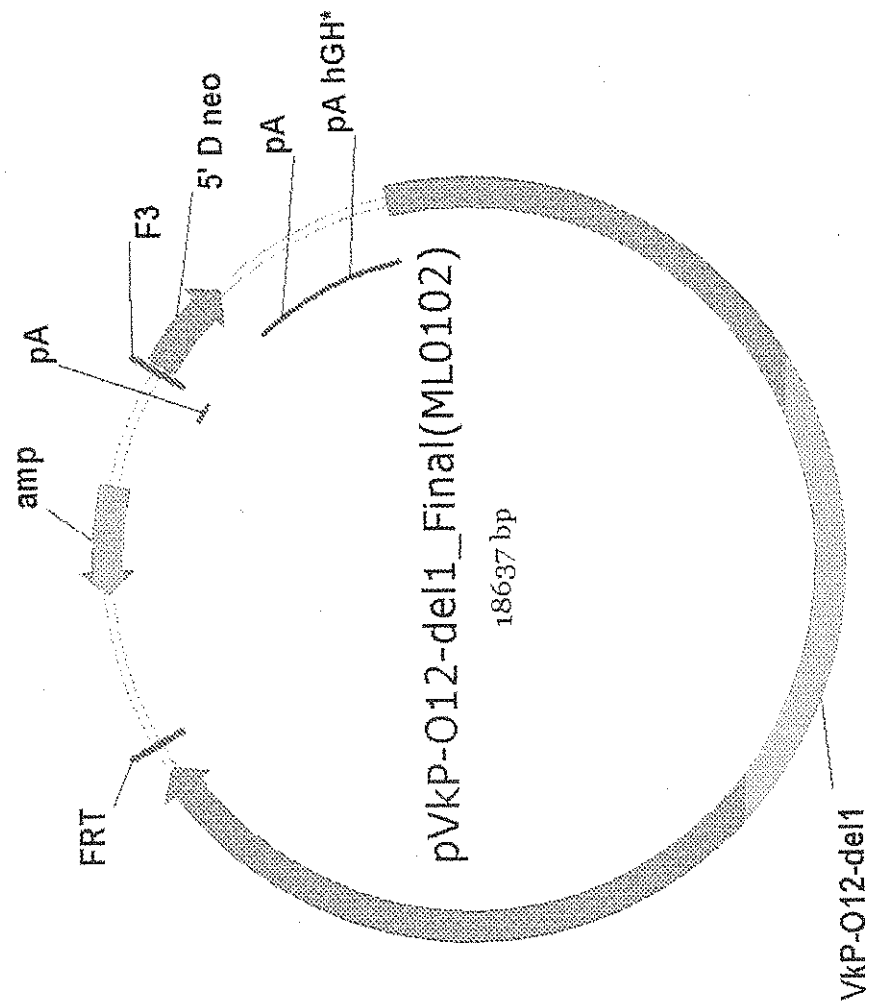


Figure 20 contd

C

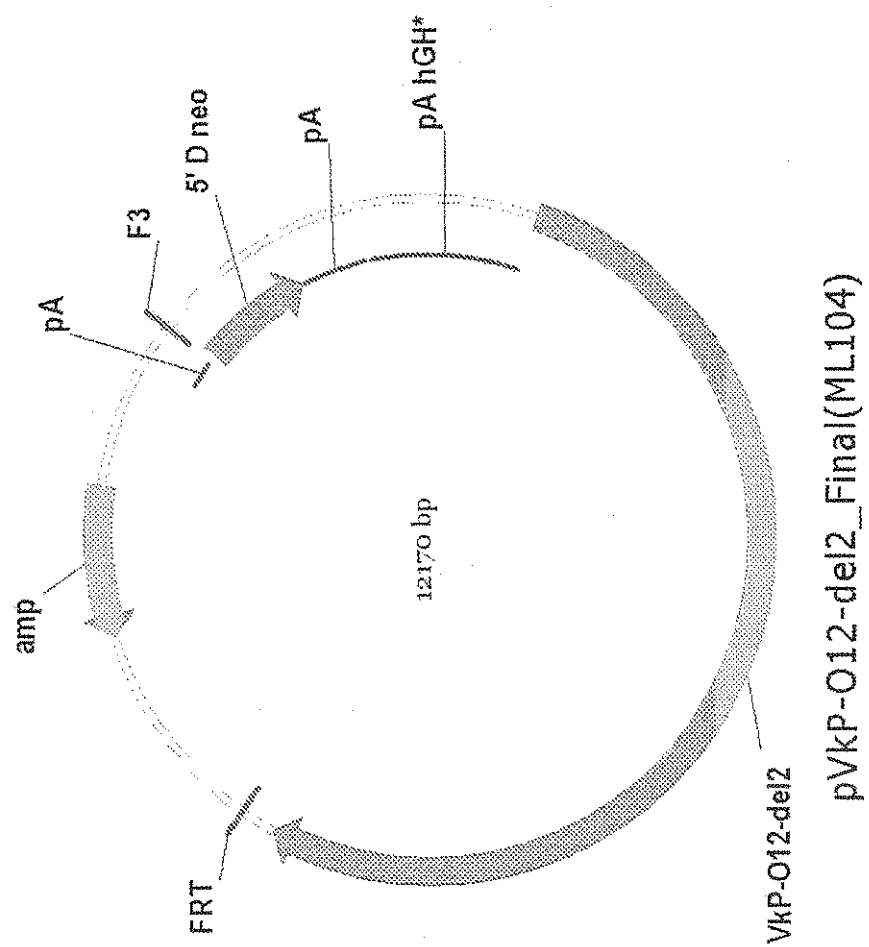


Figure 21

A

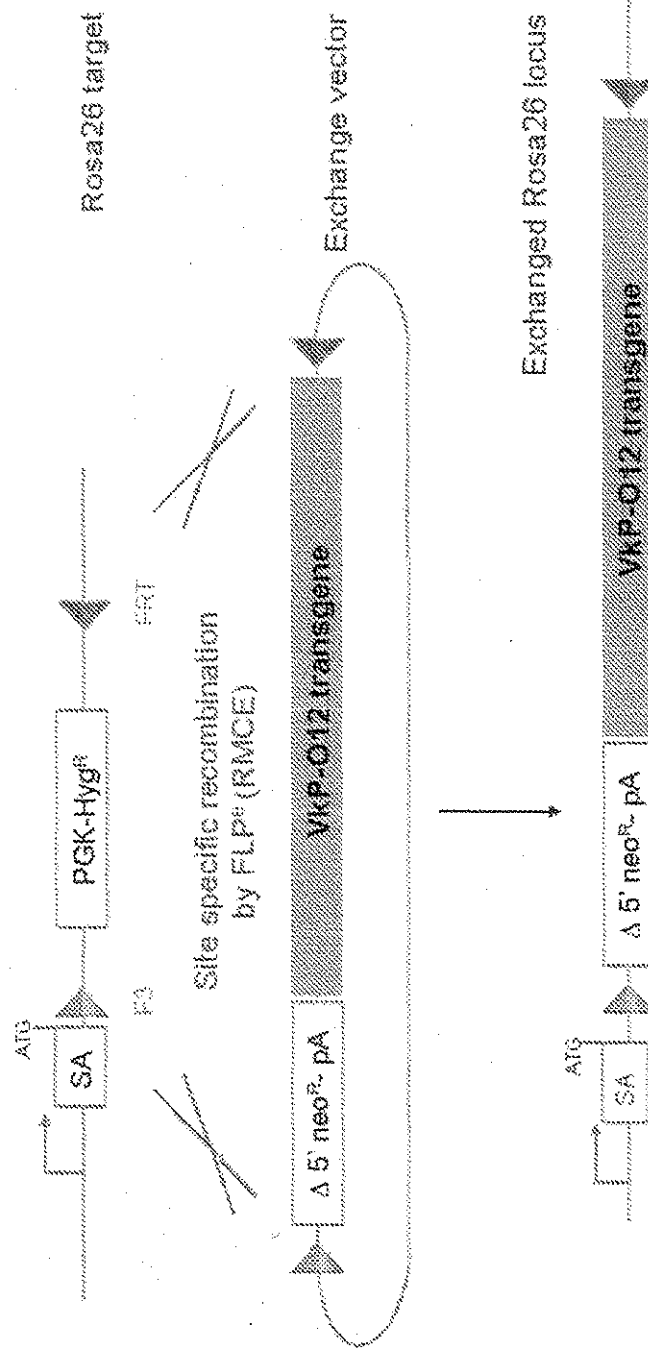


Figure 21 contd

B

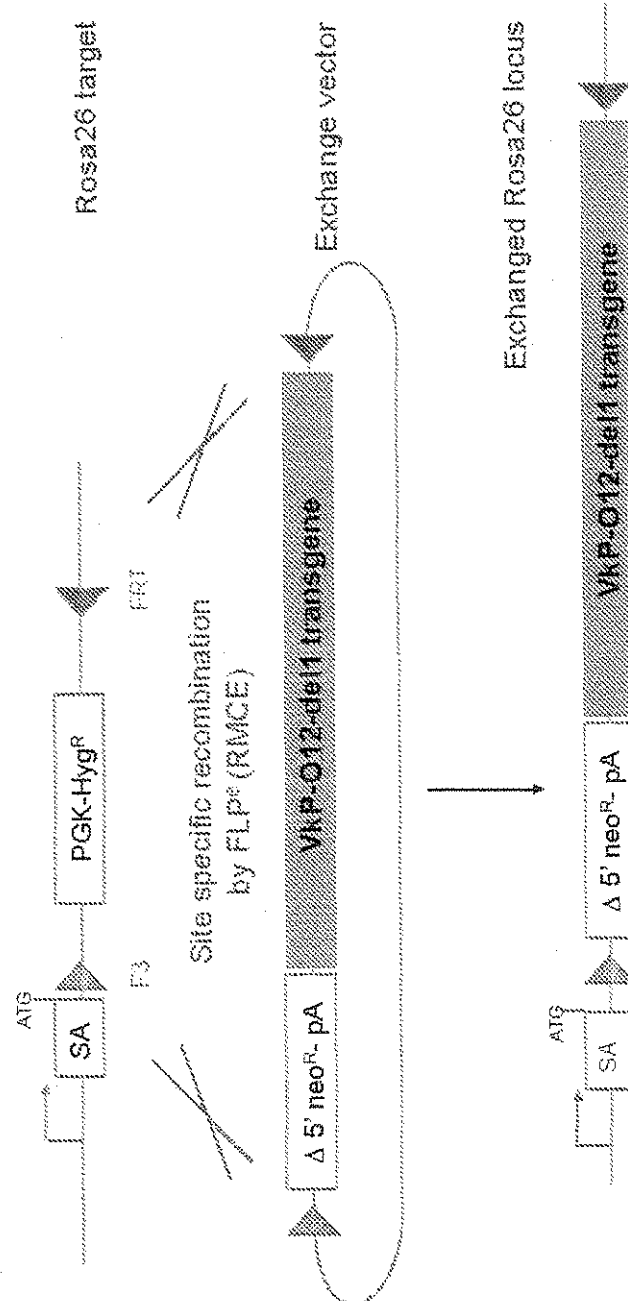


Figure 21 contd

C

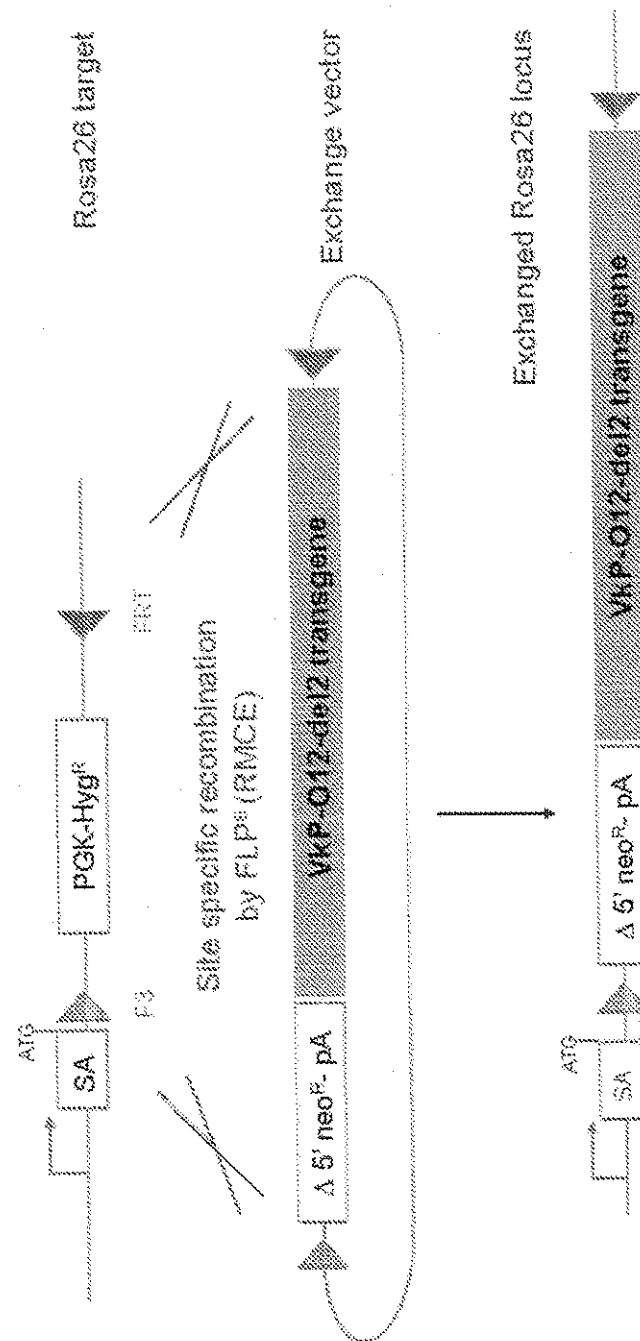


Figure 22

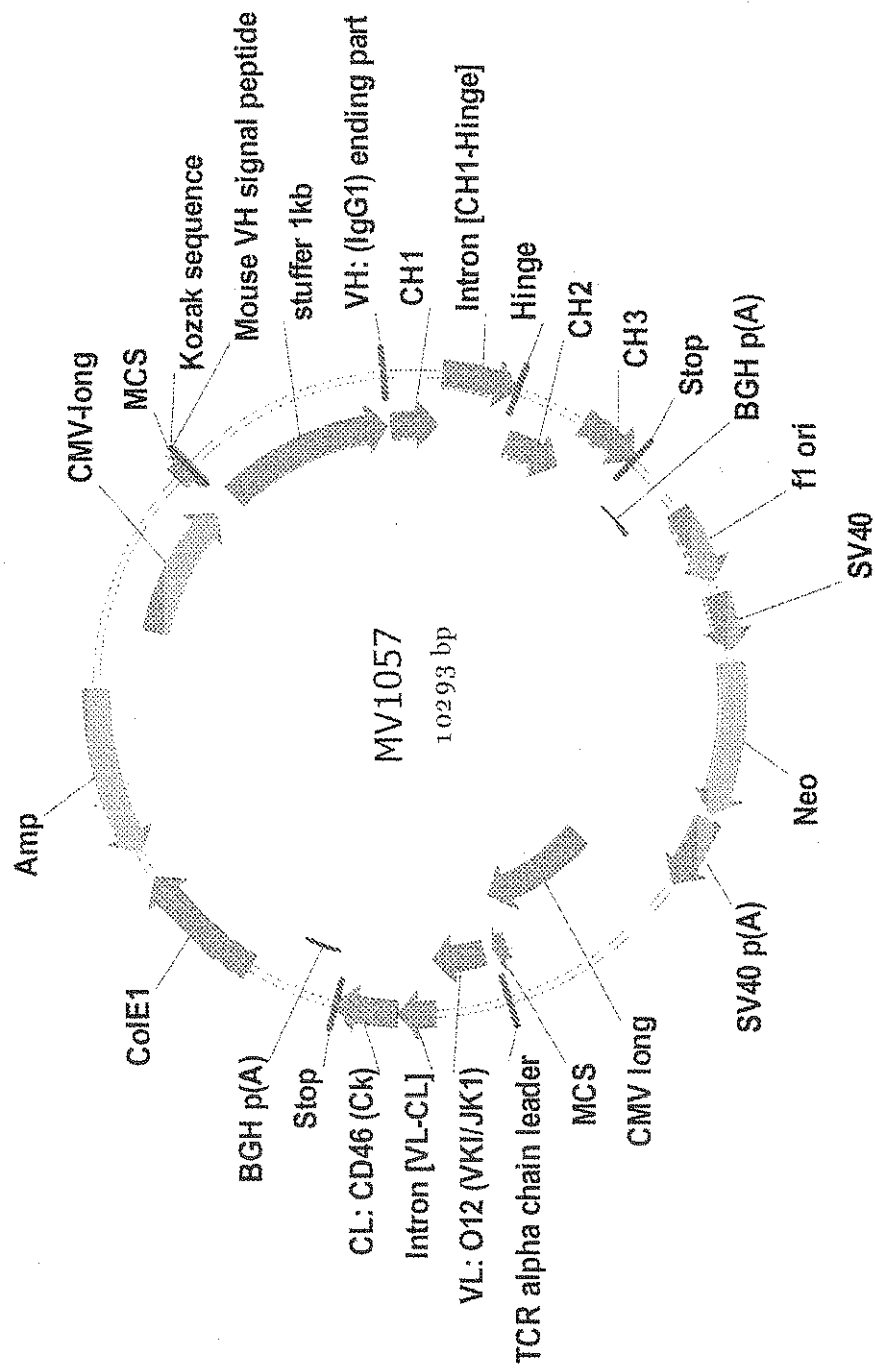


Figure 23

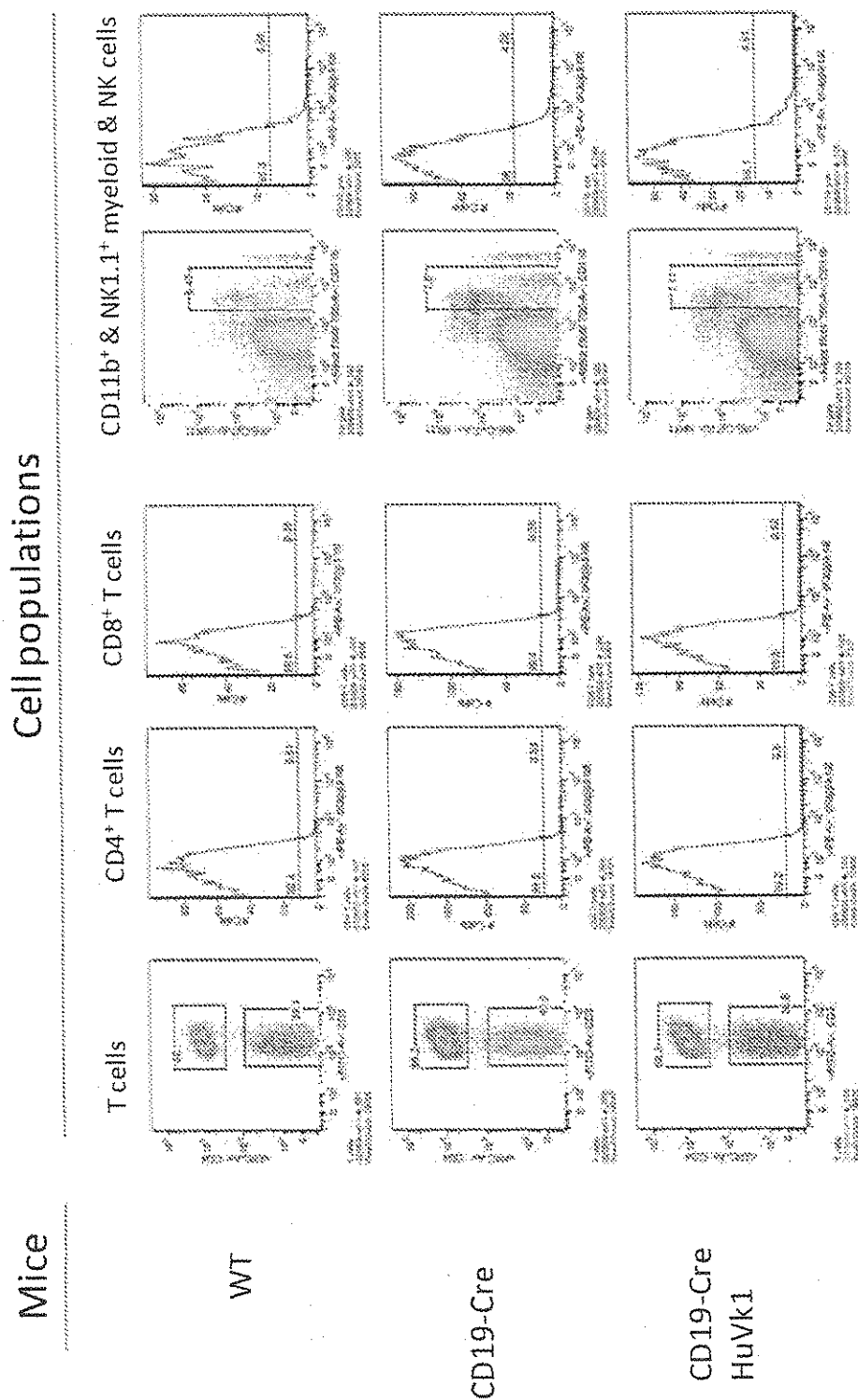


Figure 24

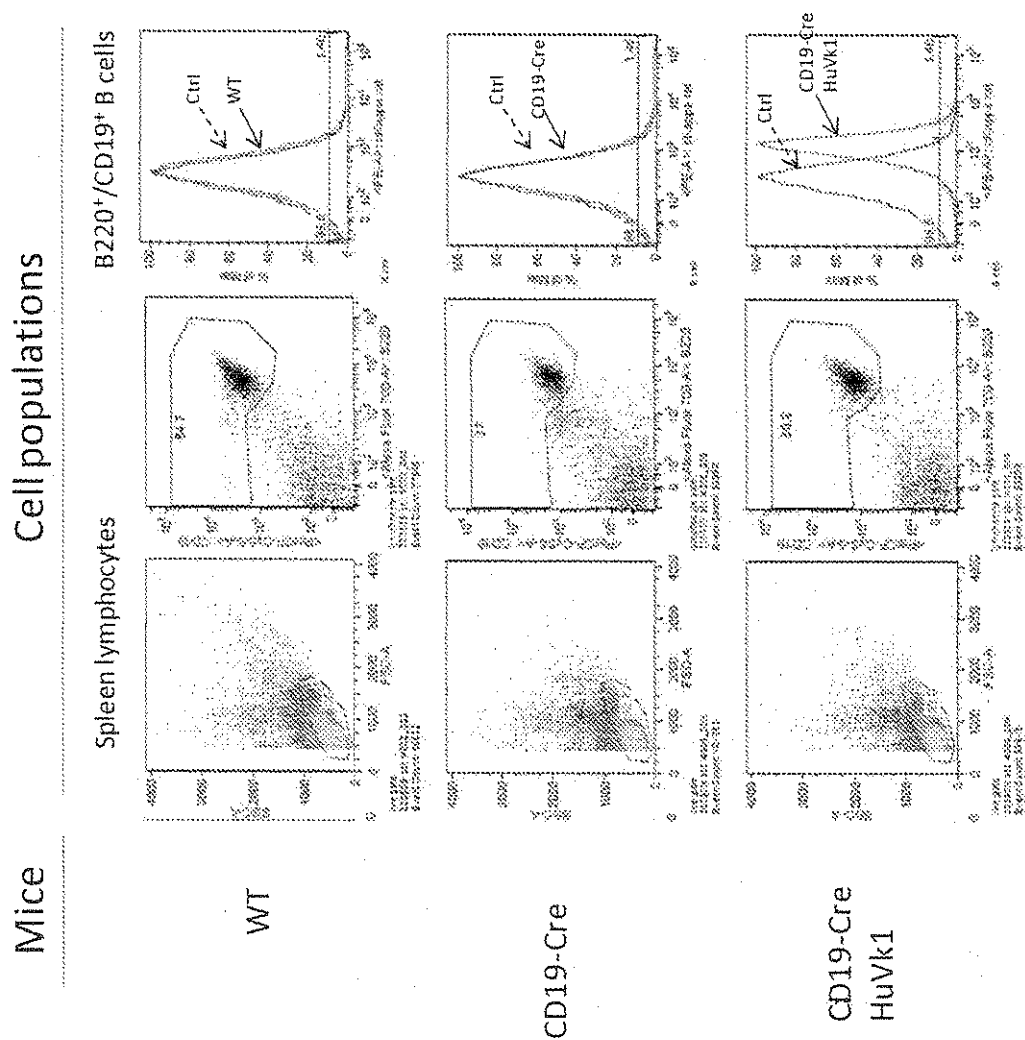


Figure 25

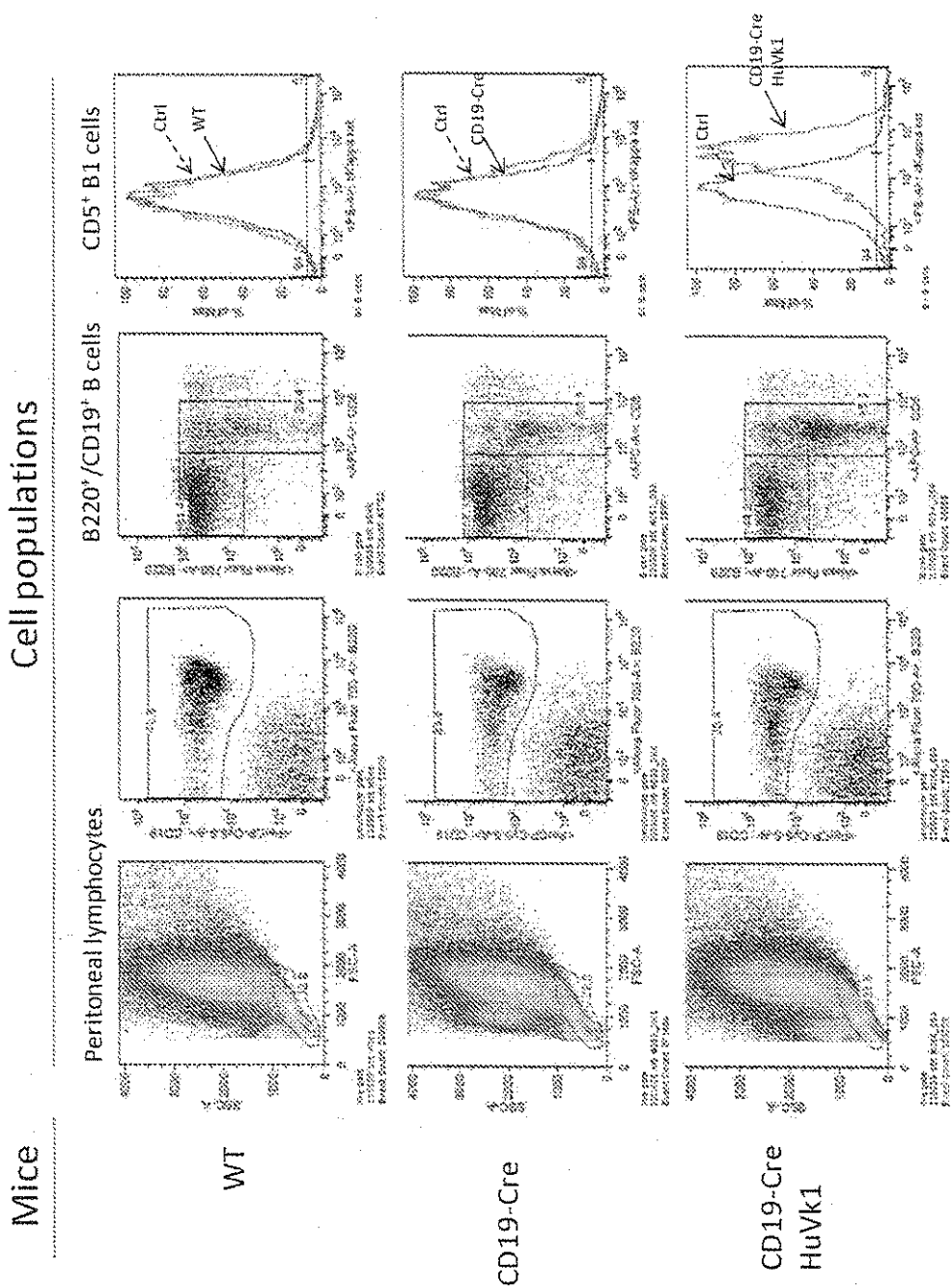


Figure 26

A

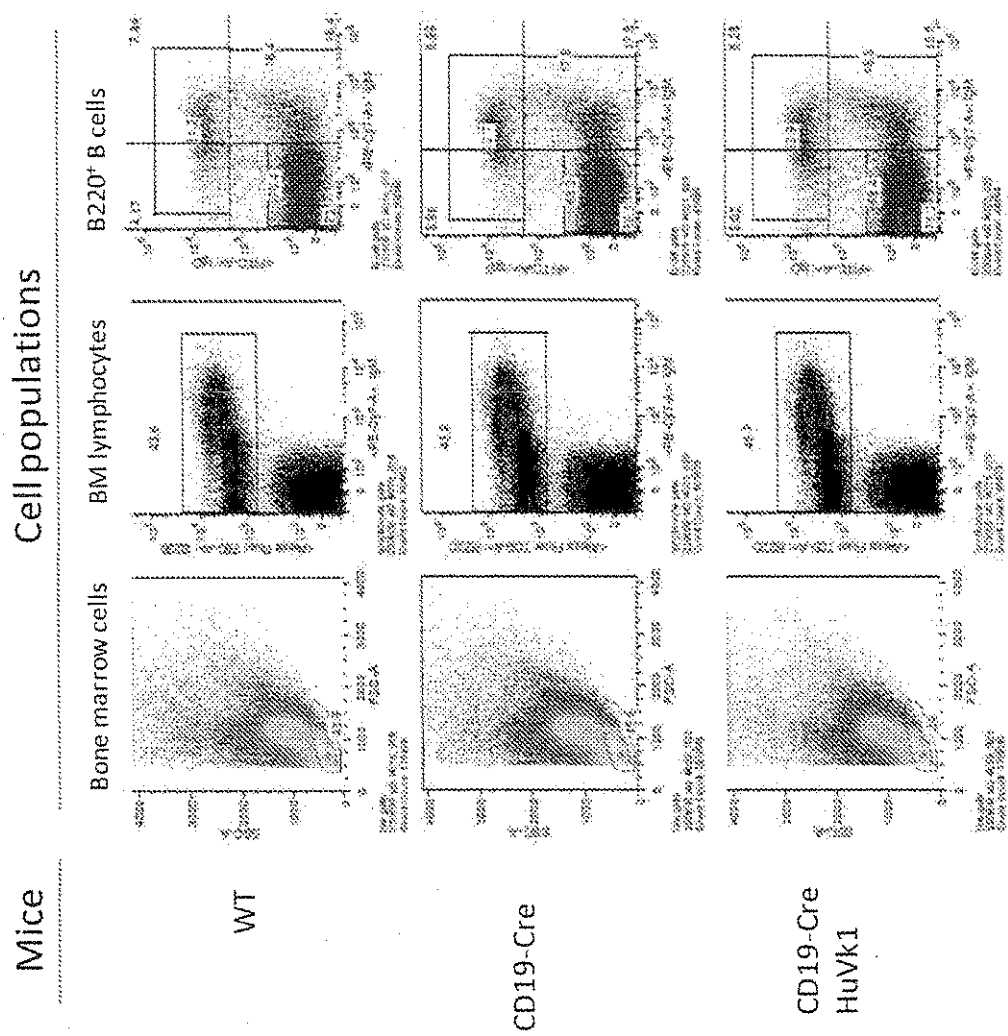


Figure 26 CONTD

B

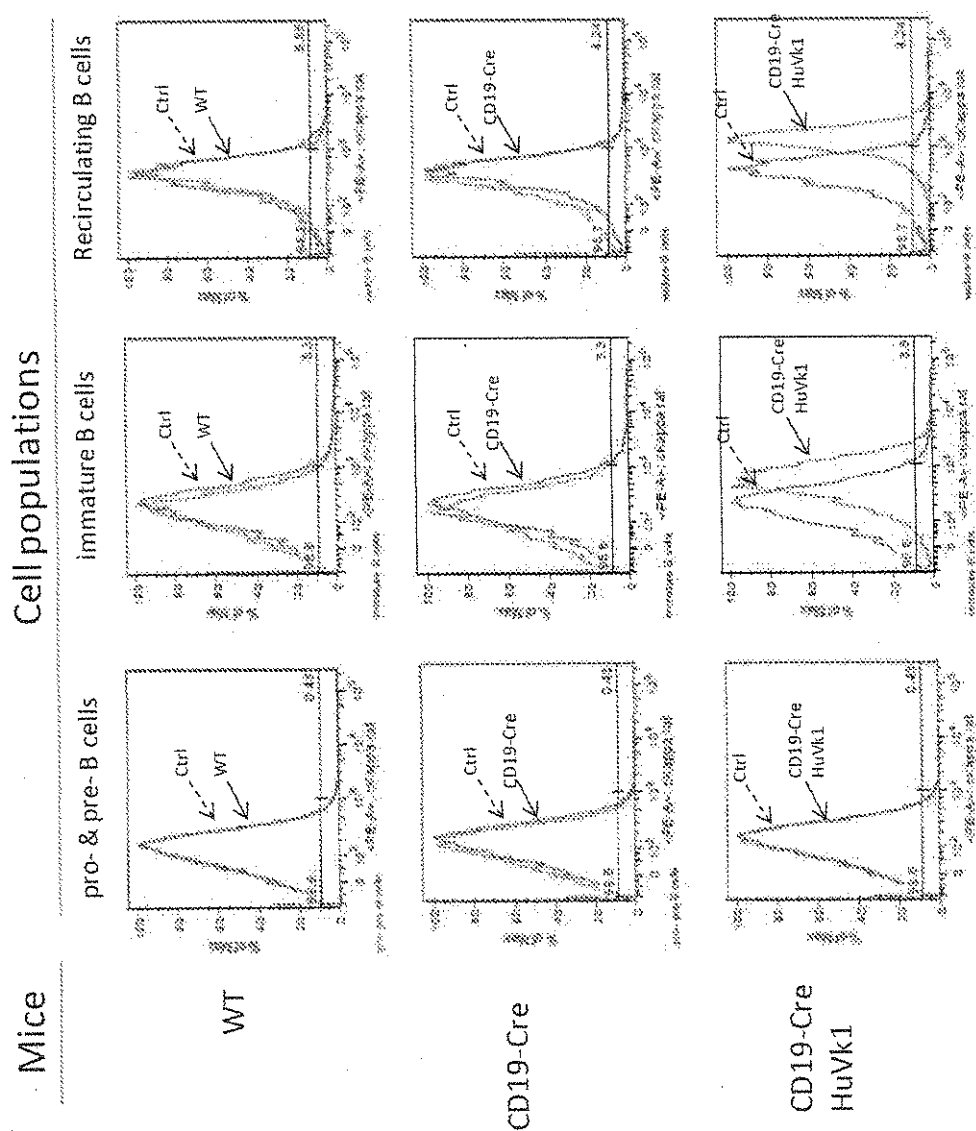


Figure 27

