

Figure1A

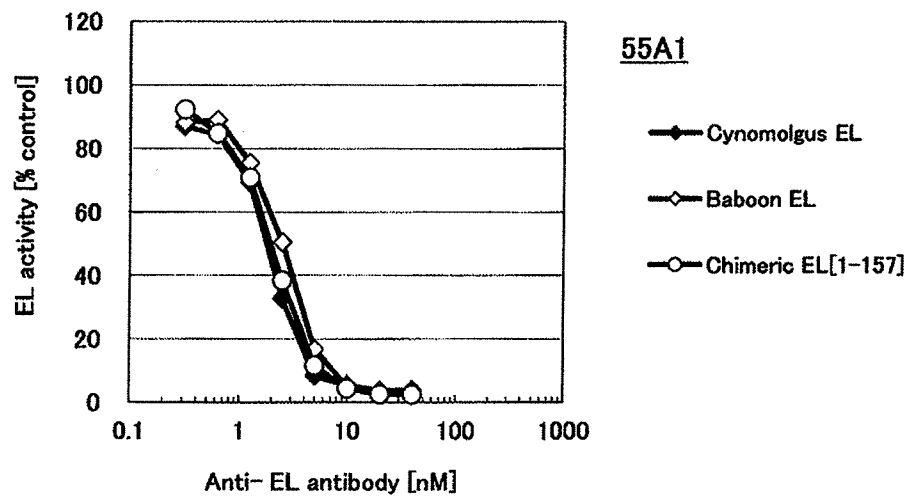


Figure1B

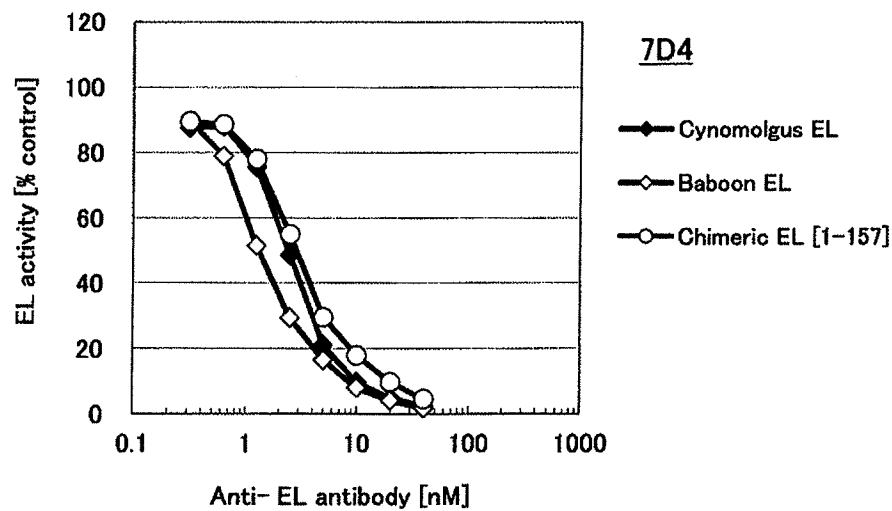


Figure1C

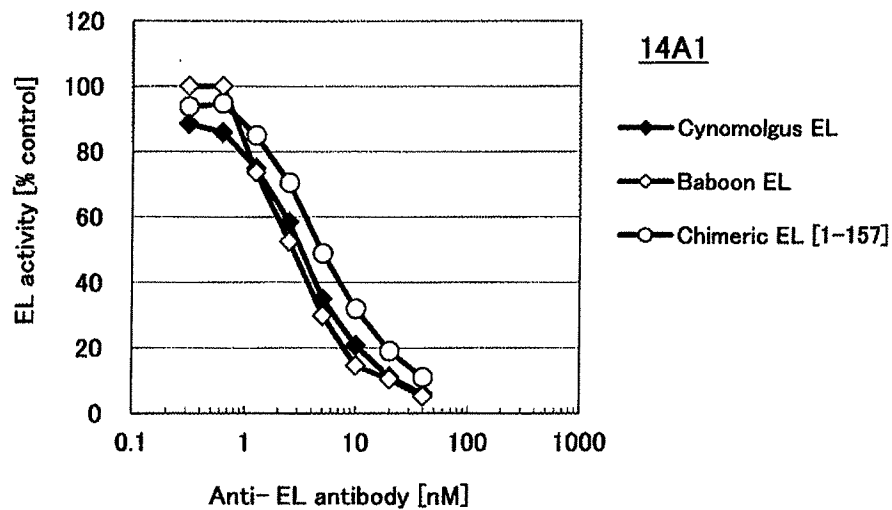


Figure1D

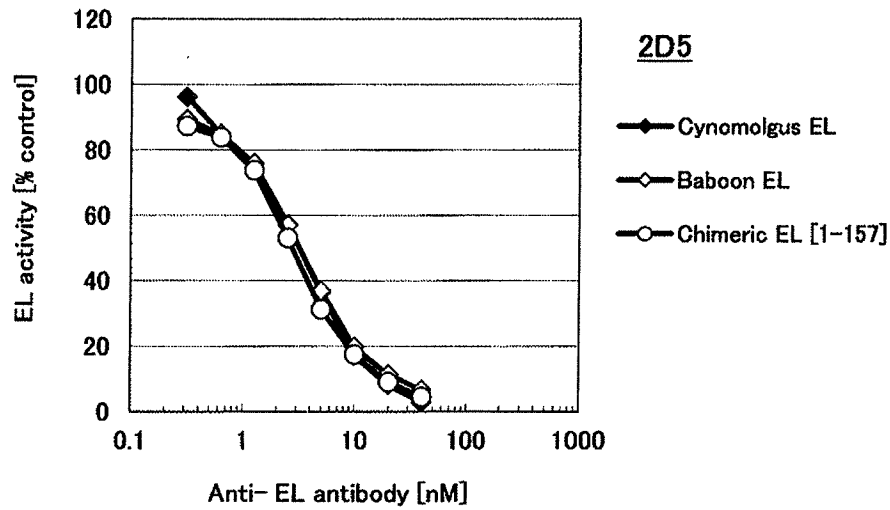


Figure1E

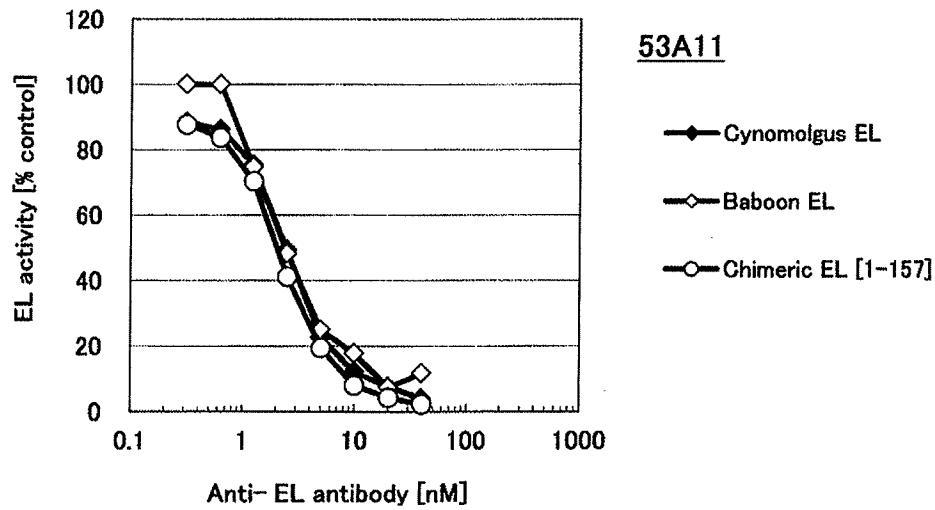


Figure1F

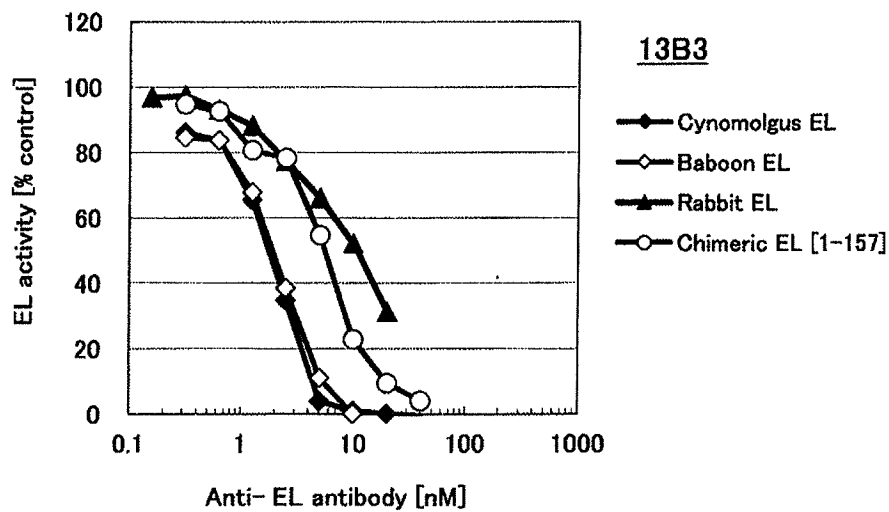


Figure1G

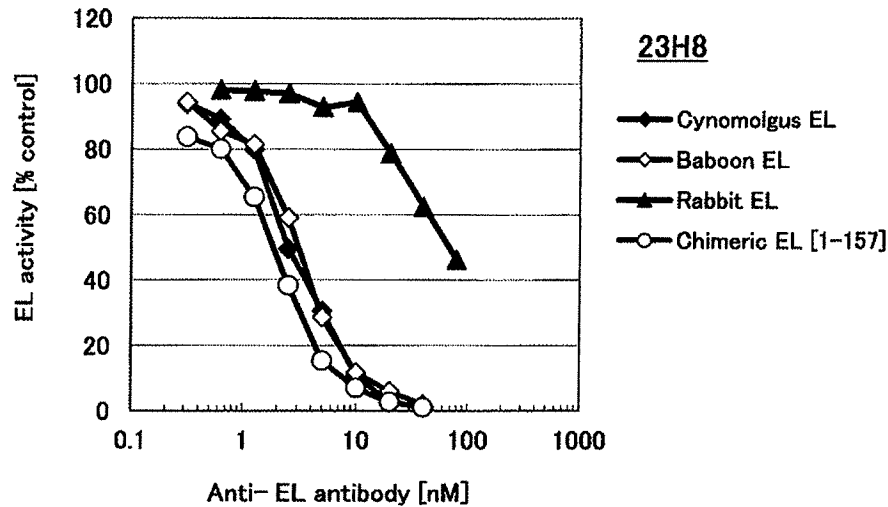


Figure1H

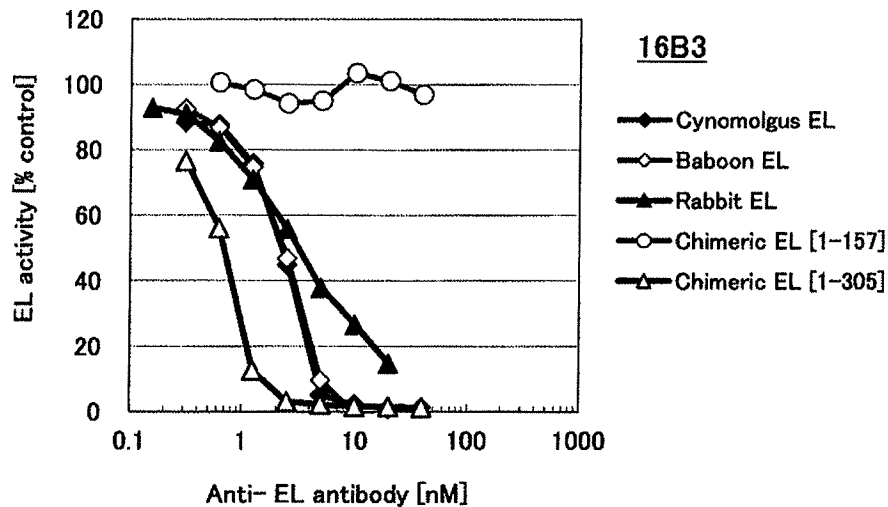


Figure1I

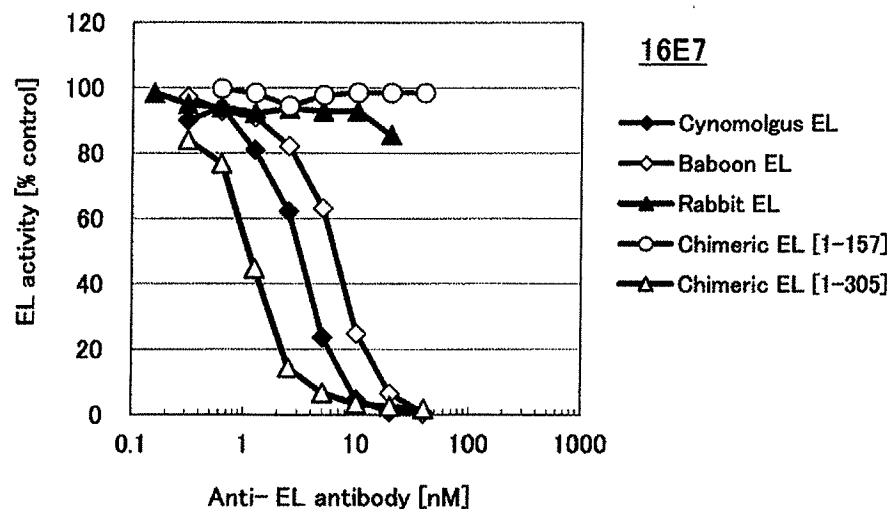


Figure1J

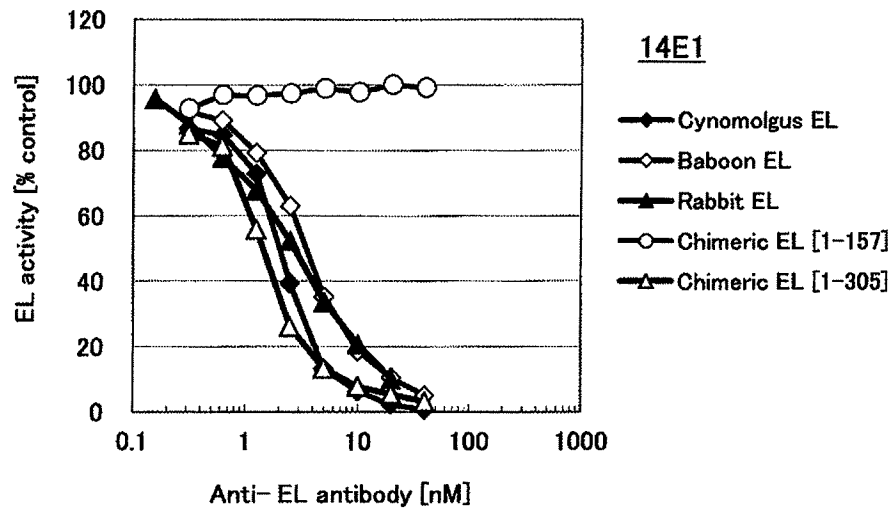


Figure1K

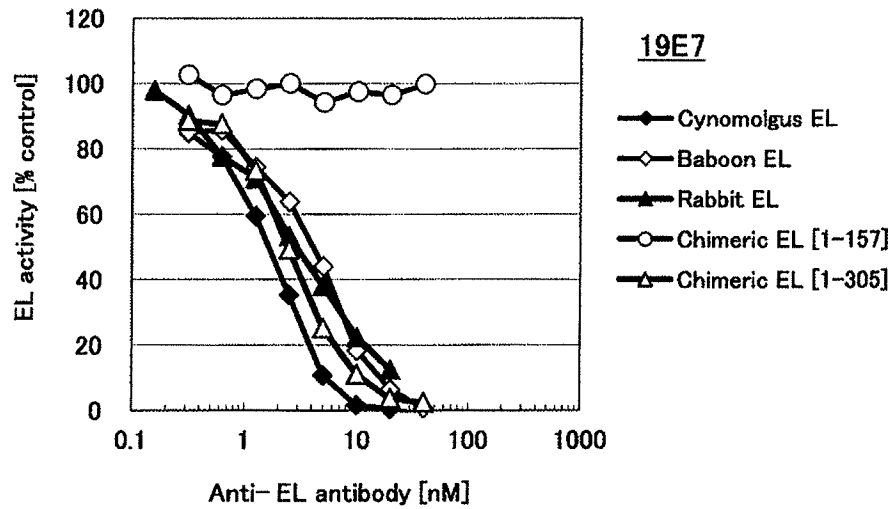


Figure2A

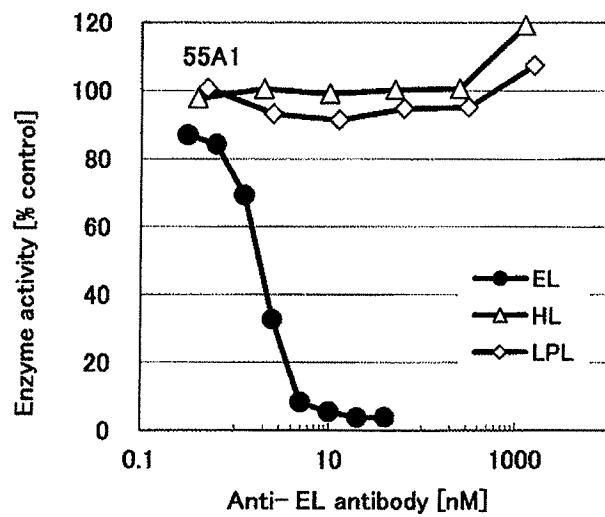


Figure2B

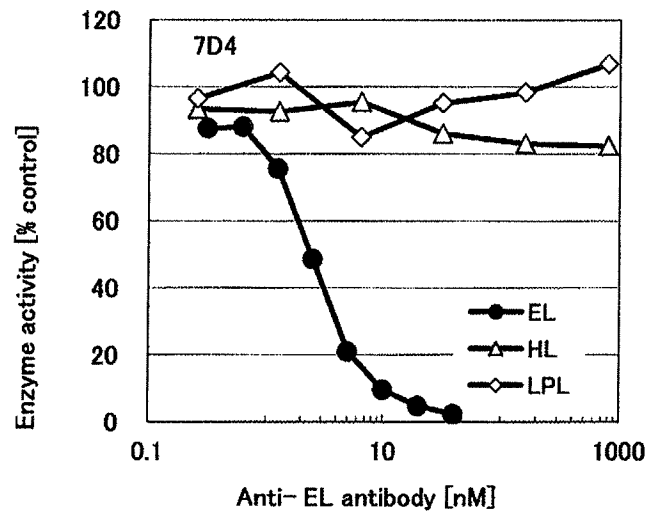


Figure2C

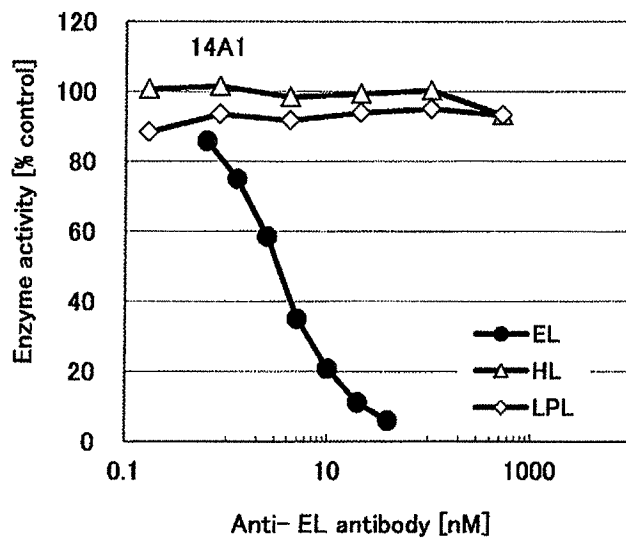


Figure2D

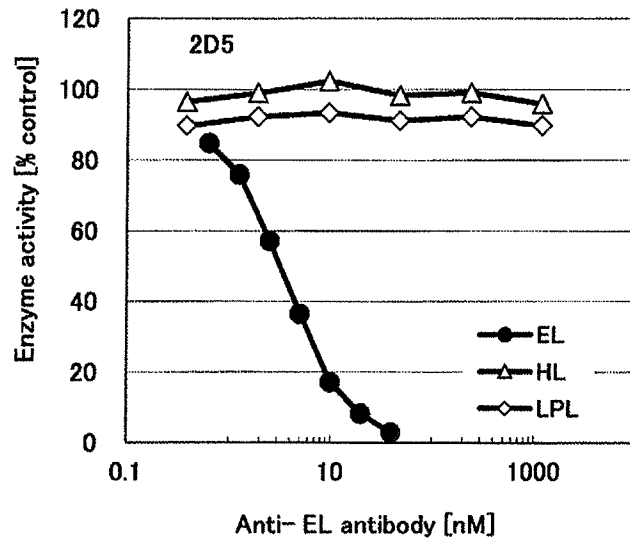


Figure2E

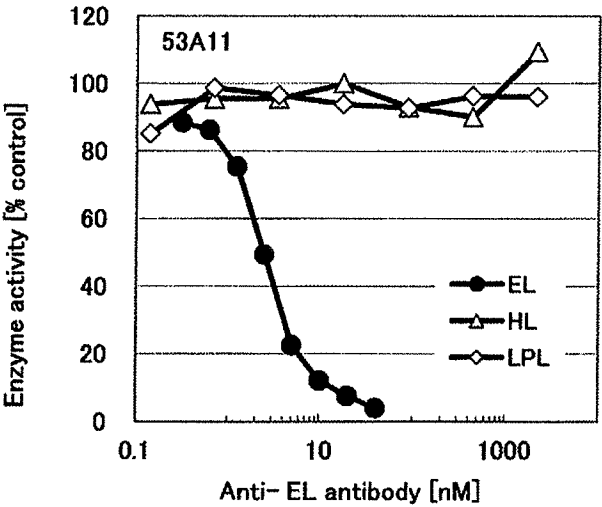


Figure2F

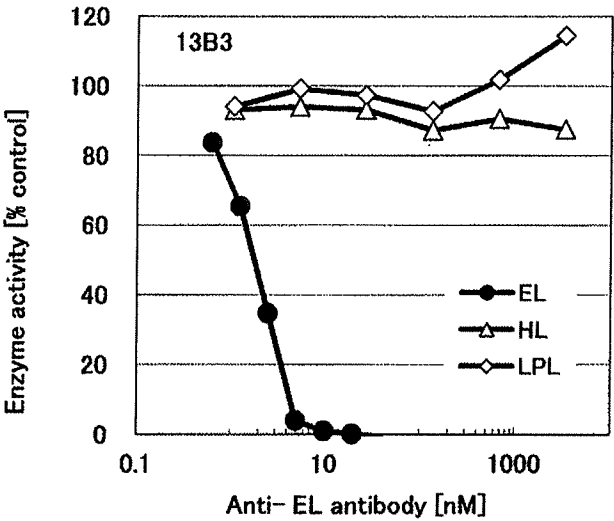


Figure2G

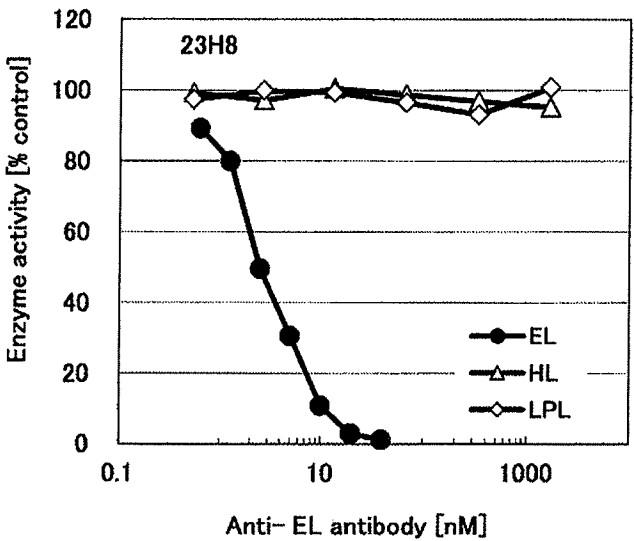


Figure2H

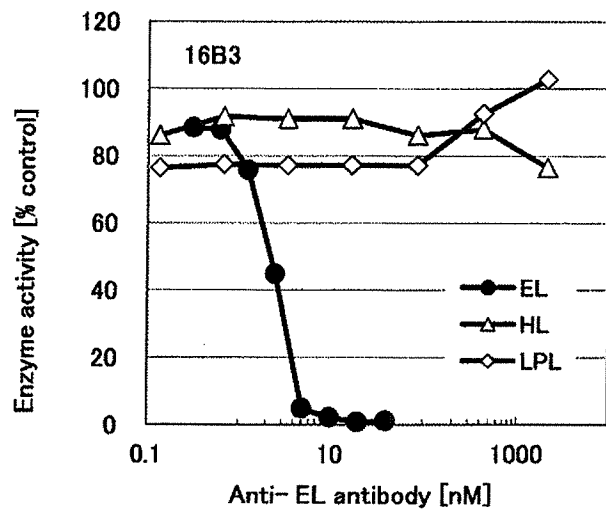


Figure2I

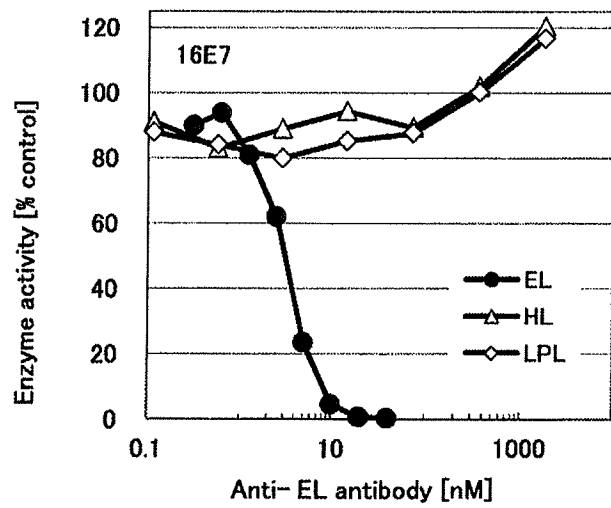


Figure2J

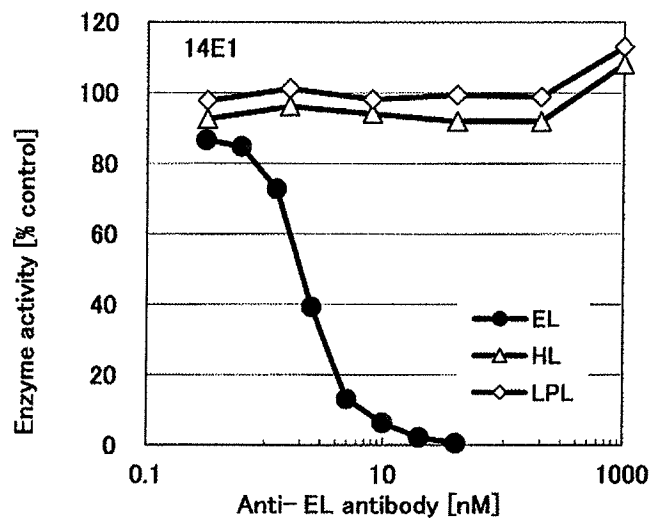


Figure2K

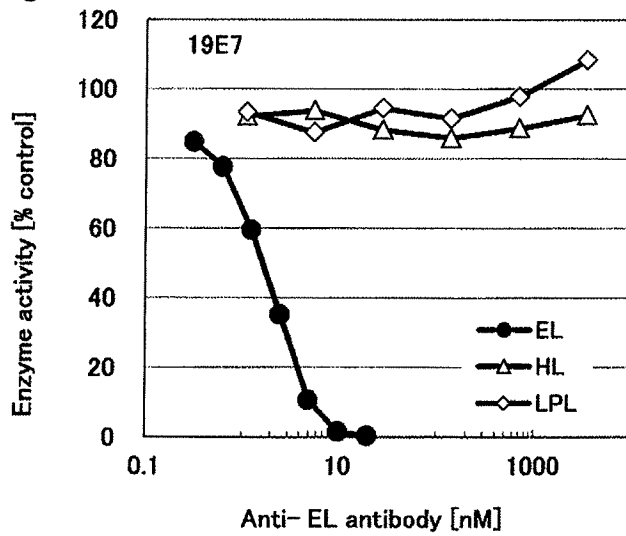


Figure2L

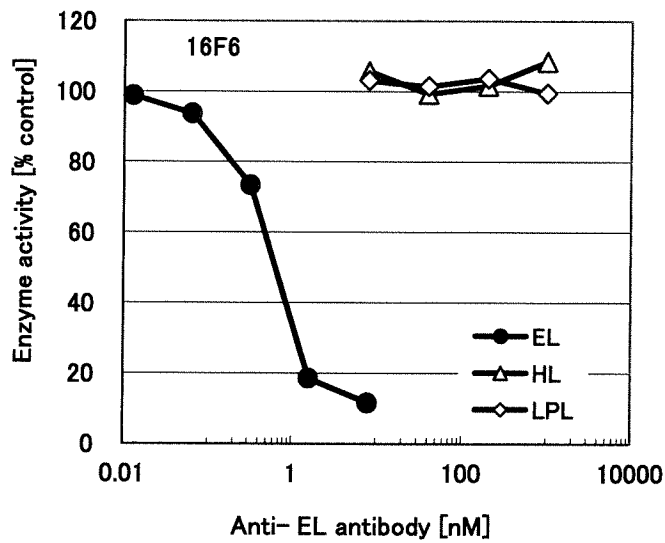


Figure3A

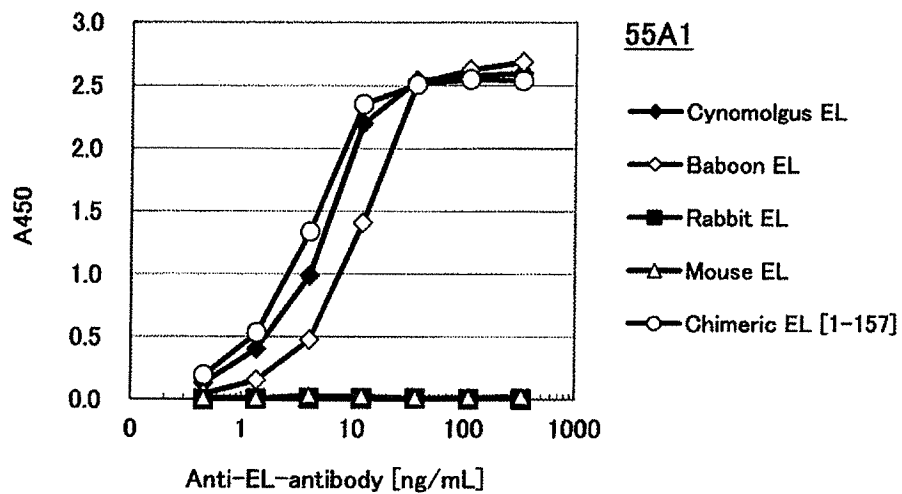


Figure3B

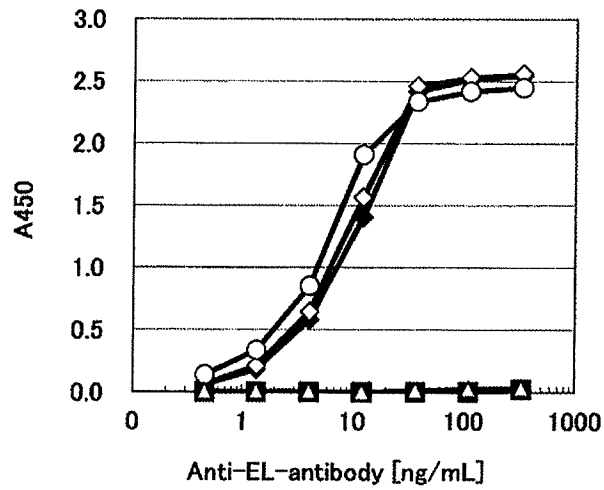


Figure3C

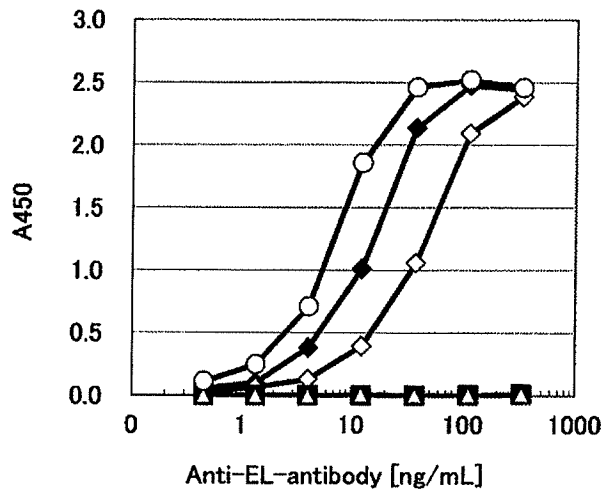


Figure3D

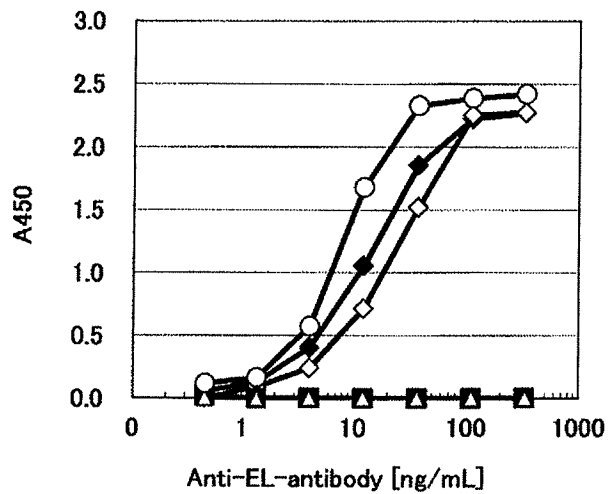


Figure3E

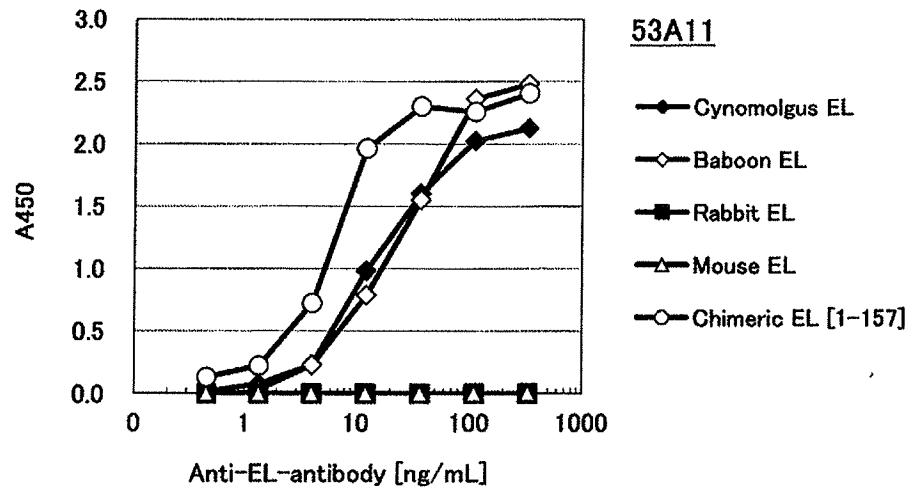


Figure3F

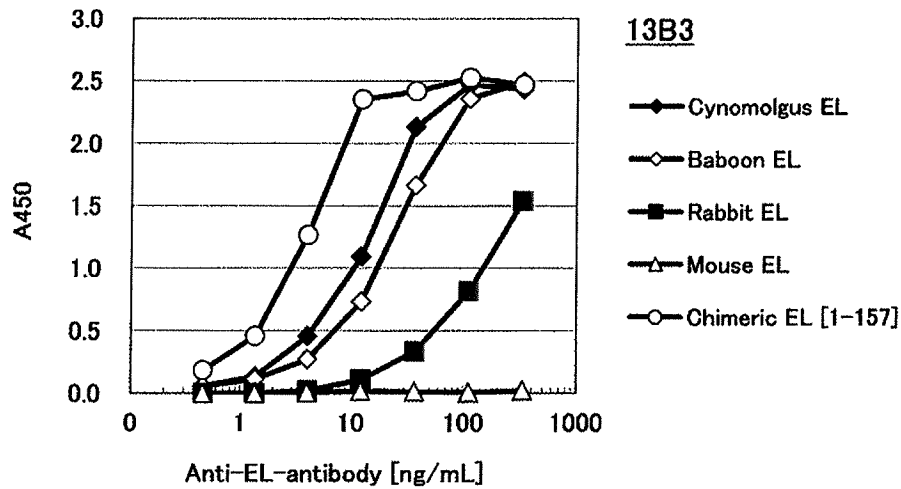


Figure3G

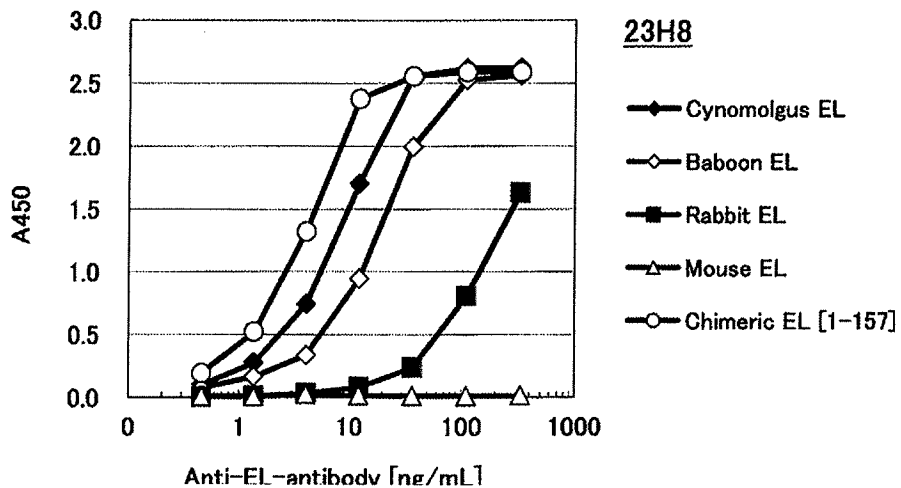


Figure3H

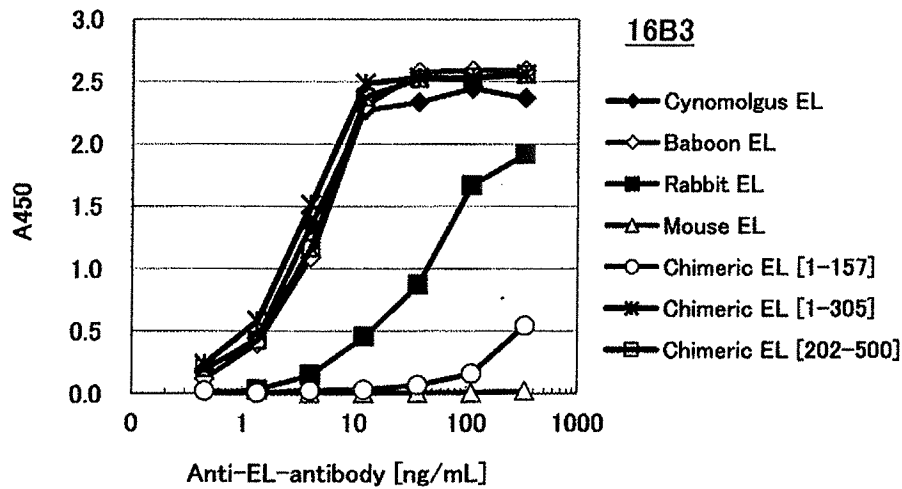


Figure3I

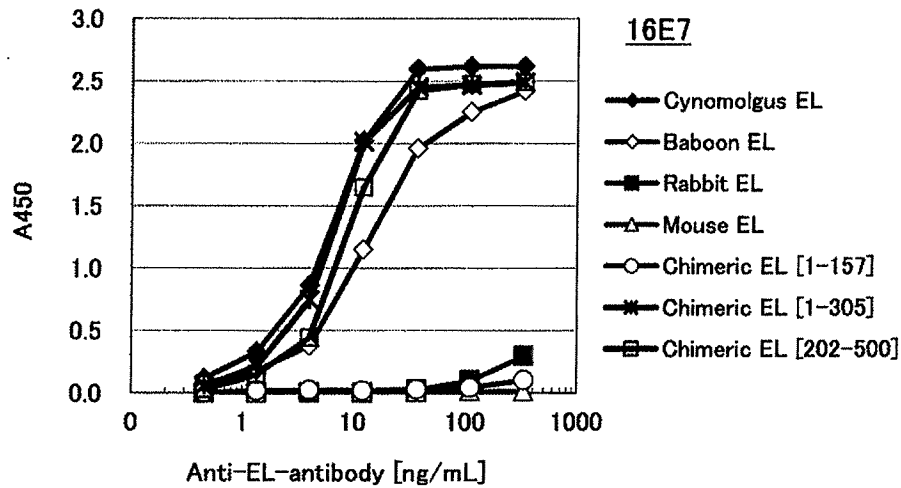


Figure3J

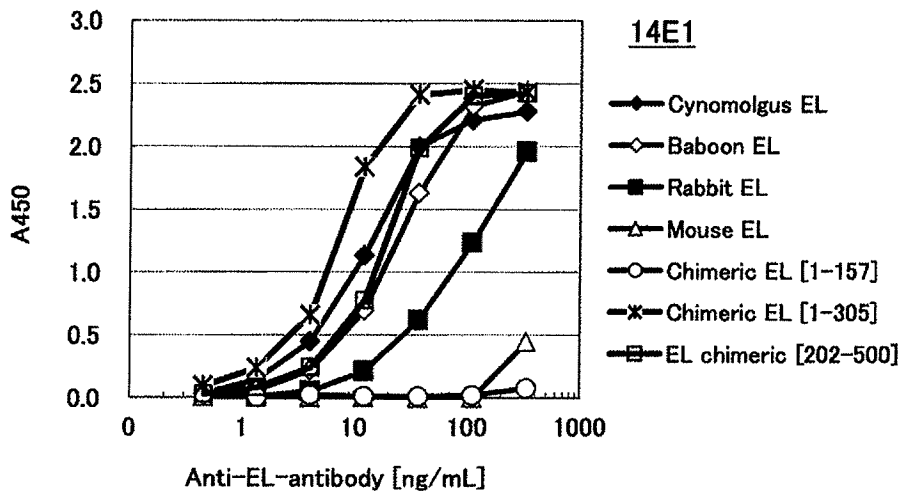


Figure3K

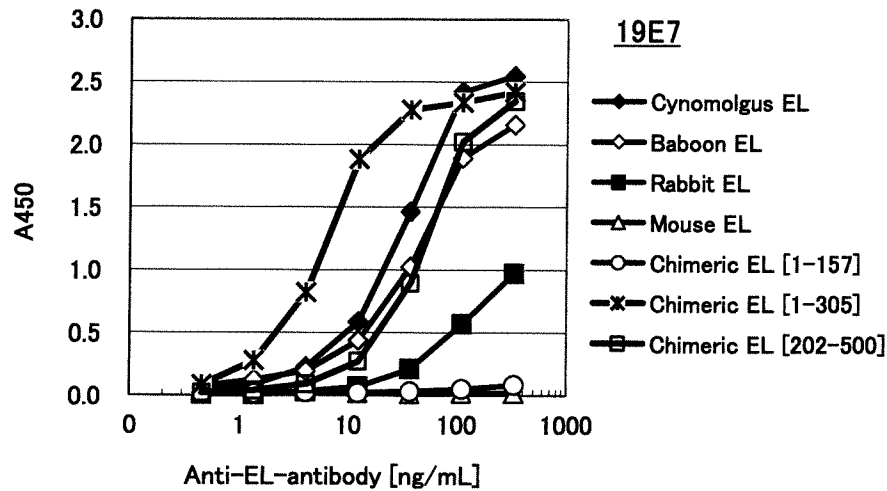


Figure3L

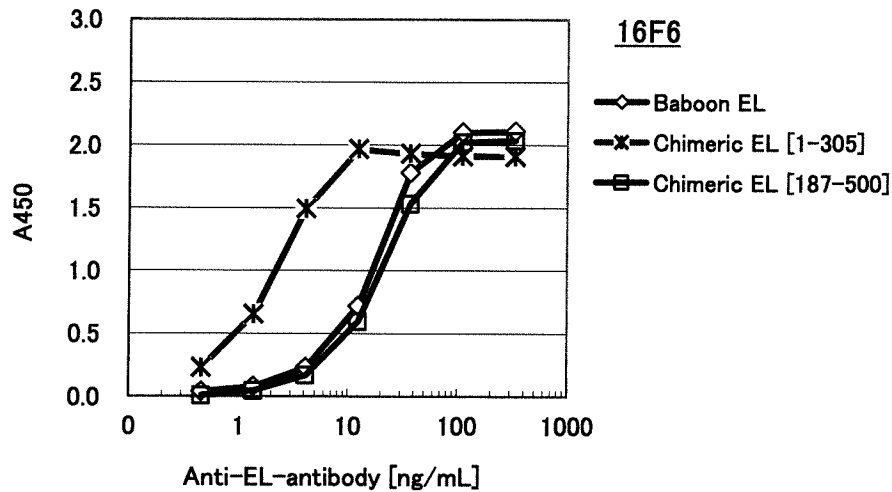


Figure4A

Heavy chain of 55A1

CDR1CDR2

QIHLVQSGPELKKPGETVKISCKASGYTFTNYGMNWVKQAPGKGLKWMGWINTYSGVPTYAGDF

KGRFAFSLETSASTAYLQINNLIKNEEDTATYFCARRGYGRRYFDVWGTGTTVTVSS

CDR3

Light chain of 55A1

CDR1CDR2

DIVLTQSPASLAVSLGQRATISCKASQSDYDVDSYMHWYQQKPGQPPKLLIYAASNLASGI

PARFSGGGSGTDFTLNIHPVEEEDVATYYCQQTIEDPPTFGGGTKLEIK

CDR3

Figure4B

Heavy chain of 7D4

	CDR1	CDR2
QIQLVQSGPELKKPGETVKISCKASGYTFTNYGMNWVKQAPGKDLKWMGWINTYSGVPTYADDF		
<u>KGRFAFSLETSASTAYLQINN</u> LKNEDTATYFCAR <u>FSYYGRHYFDYWGQGTTLTVSS</u>		
	CDR3	

Light chain of 7D4

	CDR1	CDR2
DIVLTQSPASLAVSLGQRATISCKASQSVVDYDGDSYMNWYQQKPGQPPQLLIYAASNLGSGI		
PARFSGSGSGTDFTLNHPVEEEDAATYYCHQSTDDPPWTFGGGTKLEIK		
	CDR3	

Figure4C

Heavy chain of 14A1

	CDR1	CDR2
QIQLVQSGPELKKPGETVKISCKASGYTFTNYGMNWVKQAPGKGLKWMGWINTYSGVPTYADDF		
<u>KGRFAFSLETSASTAYLQINN</u> FKNEDTATYFCAR <u>FSYYGRHYFDYWGQGTALTASS</u>		
	CDR3	

Light chain of 14A1

	CDR1	CDR2
DIVLTQSPASLAVSLGQRATISCKASQSVVDYDGDSYMNWYQQKPGQPPKLLIYAASNLSGI		
PARFSGSGSGTDFTLNHPVEEEDAATYYCQQTDDPPWTFGGGTKLEIK		
	CDR3	

Figure4D

Heavy chain of 2D5

	CDR1	CDR2
QIQLVQSGPELKKPGETVKISCKASGYTFTNYGMNWVKQAPGKGLKWMGWINTYSGVPTYTDDF		
<u>KGRFAFSLETSASTAFLQINN</u> LKNEDTATYFCAR <u>FSYYGRHYFDYWGQGTTLTVSS</u>		
	CDR3	

Light chain of 2D5

	CDR1	CDR2
DIVLTQSPASLAVSLGQRATISCKASQSVVDYDGDSYMHYQQKPGQPPKLLIYAASNLESIGI		
PARFSGSGSGTDFTLNHPVEEEDAATYYCQQTNDPPWTFGGGTKLEIK		
	CDR3	

Figure4H

Heavy chain of 16B3

	CDR1	CDR2
DVKLVESGGGLVQPGGSLKLSCTASGFTFSGYTMSWVRQTPEKRLELVAEISFARDRAFYPTV		
<u>KGRFTISRDN</u> AKNTLYLQMSSSLKSEDTAMYYCTR <u>LGGRNHDYWYFDVWGTGTTVT</u> VSS		
	CDR3	

Light chain of 16B3

	CDR1	CDR2
DIVLTQSPTSLAVSPGQRATISCRASESVEYYGTSLMQWYQQKPGQRPQLLIYAASNVESGV		
PARFSGSGSGTDFSLNIHPVEEDDIAVYFCQOSWKVPFTFGSGTKLEIK		
	CDR3	

Figure4I

Heavy chain of 16E7

	CDR1	CDR2
EVKLIVESGGGLVQPGGSLKLSCAASGFTFSSYTMSWVRQTPEKRLELVAEISFTRSRAFYPTV		
<u>KGRFTISRDN</u> AKNTLYLQMSSSLKSEDTAMYYCARLGGNNYDYWYFDVWGTGTTVTVSS		
	CDR3	

Light chain of 16E7

	CDR1	CDR2
DIVLTQSPTSLAVSLGQRATISCRASESVEYYGTSLMQWYQQKPGQRPKLLIYAASNVESGV		
PARFSGSGSGTDFSLNIHPVEEDDIAMVFCQOSWKVPFTFGSGTKLEIK		
	CDR3	

Figure4J

Heavy chain of 14E1

	CDR1	CDR2
QVQLQQSGAELVKPGASVRLSCKASGYTF ^T TKYTIH ^W VKQ ^R SGQGLEWIGW ^F YPGSDSIKYNE ^F		
<u>KDKATLTADKSSRTV</u> YMELSRLTSEDSAVYFCAR ^H EEYTNSL ^A YWGQGLVTVSA		
	CDR3	

Light chain of 14E1

	CDR1	CDR2
DIQMTQTTSSLSASLGDRVTISCRASQDISNYLNWYQQQPDGTVKLLIYYTSRLHSGVPSRF		
SGSGSGTDYSLTISNLEQEDIATYFCQGYTLPWTFGGGTNLEIK		
	CDR3	

Figure4K

Heavy chain of 19E7

CDR1CDR2

QVQLQQPGSVLVRPGASVKLSCKASGYTFTTYWMHWVKQRPQGGLWIGEIHYPYSGNNNNNEKF
KGKATLTVDTSSTAYVDLSRLTSEDSAVYYCARYDSNYVFAYWGQGLTVTVSA
 CDR3

Light chain of 19E7

CDR1CDR2

QIVLTQSPAIMASAPGEGVTITCSASSSVSYMHWFQQKPGTSPKLWIYSTNLASGVPARFS
 GSGSGTSYSLTISRMEAEDAATYYCQQRDSYLTFGSGTKLEVK
 CDR3

Figure4L

Heavy chain of 16F6

CDR1CDR2

QVQLQQSGAELMKPGASVKISCKATGYTFSTYWI~~AW~~VKQRP~~GH~~GLEWIGEILPGSAKTKYNKKF
KGKATFTADTSSNTAYMQLSLTSEDSAVYYCAVYDYGADYWGQGTSTTVSS
 CDR3

Light chain of 16F6

CDR1CDR2

DI~~VM~~TQSHKFMSTSVGDRVSI~~TC~~KASQDVYTAVAWYQQKPGQSPKLLIYSAS~~YR~~FTGV~~PD~~RF
 TGS~~G~~AGTEFTFTINSVQ~~AE~~DLAVYYCQOHYSI~~PR~~TFGGG~~T~~KLEIK
 CDR3

Figure5A

55A1 1:QIHLVQSGPELKKPGETVKISCKASGYTFTNYGMN~~WV~~KQAPGKGLKWMGWINTYSGVPTY 60

7D4 1:QIQLVQSGPELKKPGETVKISCKASGYTFTNYGMN~~WV~~KQAPGKDLKWMGWINTYSGVPTY 60

14A1 1:QIQLVQSGPELKKPGETVKISCKASGYTFTNYGMN~~WV~~KQAPGKGLKWMGWINTYSGVPTY 60

2D5 1:QIQLVQSGPELKKPGETVKISCKASGYTFTNYGMN~~WV~~KQAPGKGLKWMGWINTYSGVPTY 60

55A1 61:AGDFKGRFAFSLETSASTAYLQINN~~L~~KNEDTATYFCARRGY~~Y~~GRRYFDVWGTGTTVTVSS 120

7D4 61:ADDFKGRFAFSLETSASTAYLQINN~~L~~KNEDTATYFCARFSY~~Y~~GRHYFDYWGQGTTLTVSS 120

14A1 61:ADDFKGRFAFSLETSASTAYLQINN~~F~~KNEDTATYFCARFSY~~Y~~GRHYFDYWGQGTALTASS 120

2D5 61:TDDFKGRFAFSLETSASTAFLQINN~~L~~KNEDTATYFCARFSY~~Y~~GRHYFDYWGQGTTLTVSS 120

Figure5B

55A1 1:DIVLTQSPASLAVSLGQRATISCKASQSVDDYDVDSYMHWYQKPGQPPKLLIYAASNLAS 60
 7D4 1:DIVLTQSPASLAVSLGQRATISCKASQSVDDYDGDSYMNWYQKPGQPPQLLIYAASNLS 60
 14A1 1:DIVLTQSPASLAVSLGQRATISCKASQSVDDYDGDSYMNWYQKPGQPPKLLIYAASNLS 60
 2D5 1:DIVLTQSPASLAVSLGQRATISCKASQSVDDYDGDSYMHWYQKPGQPPKLLIYAASNLES 60

55A1 61:GIPARFSGSGSGTDFTLNIHPVEEEDVATYYCQQTIEDPP-TFGGGTKLEIK 111
 7D4 61:GIPARFSGSGSGTDFTLNIHPVEEEDAATYYCHQSTDDPPWTFGGGTKLEIK 112
 14A1 61:GIPARFSGSGSGTDFTLNIHPVEEEDAATYYCQQTDDPPWTFGGGTKLEIK 112
 2D5 61:GIPARFSGSGSGTDFTLNIHPVEEEDAATYYCQQTNDPPWTFGGGTKLEIK 112

Figure5C

53A11 1:EVQLQQSGPELLKPGASVKISCKASGYTFTDYMHWVKQSHGKSLEWIGGINPYYGGTTY 60
 13B3 1:EVQLQQSGPELLKPGASVKISCKASGYTFTDYTMHWVKQSHGKSLEWIGSINPYYGGTSY 60
 23H8 1:EVQLQQSGPELLKPGASVKISCKASGYTFTDNTIHWVKQSHGKSLEWIGHINPYYGGTNN 60

53A11 61:NEKFKDKATLTVDKSSSTAYMELRSLTSEDSAVYYCAKGD-YYGGSYNYWGQGTTLTVSS 119
 13B3 61:NEKFKDKATLTVDKSSNTAYMEFRSLTSEDCAVYYCARYG-NYVGIFYDWGQGTTLTVSS 119
 23H8 61:NEKFKDKATLTVDKSSSTAYMELRSLTSEDSAIYYCARKGIYYSSPFDYWGQGTTLTVSS 120

Figure5D

53A11 1:DIVLTQSLATLSVTPGDSVSLSCRASQDISNSLHWYQKSHESPRLLIKYASQSIGIPS 60
 13B3 1:ENVLTQSPAISASLGEKVTMSCRASSSV-HYMYWYQKSDASPKLWIYYTSNLAPGVPD 59
 23H8 1:DIQMTQTSSLSASLGDRVTISCRASQDINNYLNWYQKPDGTVKLLISYTSKLHSGVPS 60

53A11 61:RFSGSGSGTDFTLINSVETEDFGMYFCQQSNSWPYTFGGGTKLEIK 107
 13B3 60:RFSGSGSGNSYSLTISMEGEDAATYYCQQTSSPYTFGGGTKLEIK 106
 23H8 61:RFSGSGSGTDYSLTISNLEREDFATYFCQQNTLPFTFGSGTNLEIK 107

Figure6A

16B3 1:DVKLVESGGGLVQPGGSLKLSCTASGFTFSGYTMWVRQTPEKRLELVAEISFARDRAFY 60
 16E7 1:EVKLVESGGGLVQPGGSLKLSAASGFTFSSYTMWVRQTPEKRLELVAEISFTRSRAFY 60

16B3 61:PDTVKGRFTISRDNKNTLYLQMSSLSKSEDAMYYCTRLGGRNHDYWFYFDVWGTGTTVTV 120
 16E7 61:PDTVKGRFTISRDNKNTLYLQMSSLSKSEDAMYYCARLGGNNDYWFYFDVWGTGTTVTV 120

16B3 121:SS 122
 16E7 121:SS 122

Figure6B

16B3 1:DIVLTQSPTSLAVSPGQRATISCRASESVEYYGTSLMOWYQQKPGQRPQLLIYAASNVES 60
 16E7 1:DIVLTQSPTSLAVSLGQRATISCRASESVEYYGTSLMOWYQQKPGQRPKLLIYAASNVES 60

16B3 61:GVPARFSGSGSGTDFSLNIHPVEEDDIADVFCQQSWKVPFTFGSGTKLEIK 111
 16E7 61:GVPARFSGSGSGTDFSLNIHPVEEDDIAMYFCQQSWKVPFTFGSGTKLEIK 111

Figure6C

14E1 1:QVQLQQSGAELVKPGASVRLSCKASGYTFTKYTIHWVKQRSQGLEWIGWFYPGSDSIKY 60
 19E7 1:QVQLQQPGSVLVRPGASVKLSCKASGYTFTTYWMHWVKQRPQGLEWIGEIHPIYSGNNNN 60

14E1 61:NEKFKDKATLTADKSSRTVYMELSRLTSEDSAVYFCARHEEYTNLAYWGQGLTVTVSA 119
 19E7 61:NEKFKGKATLTVDTSSSTAYVDLSRLTSEDSAVYYCARYDS-NYVFAYWGQGLTVTVSA 118

Figure6D

14E1 1:DIQMTQTTSSLSASLGDRVTISCRASQDISNYLNWYQQQPDGTVKLLIYYTSRLHSGVPS 60
 19E7 1:QIVLTQSPAIMASAPGEGVTITCSASSSVS-YMHWFOQKPGTSPKLWIYSTSNLASGVPA 59

14E1 61:RFSGSGSGTDYSLTISNLEQEDIATYFCQQGYTLPWTFGGGTNLEIK 107
 19E7 60:RFSGSGSGTSYSLTISRMEAEDAATYYCQQRDSY-LTFGSGTKLEVK 105

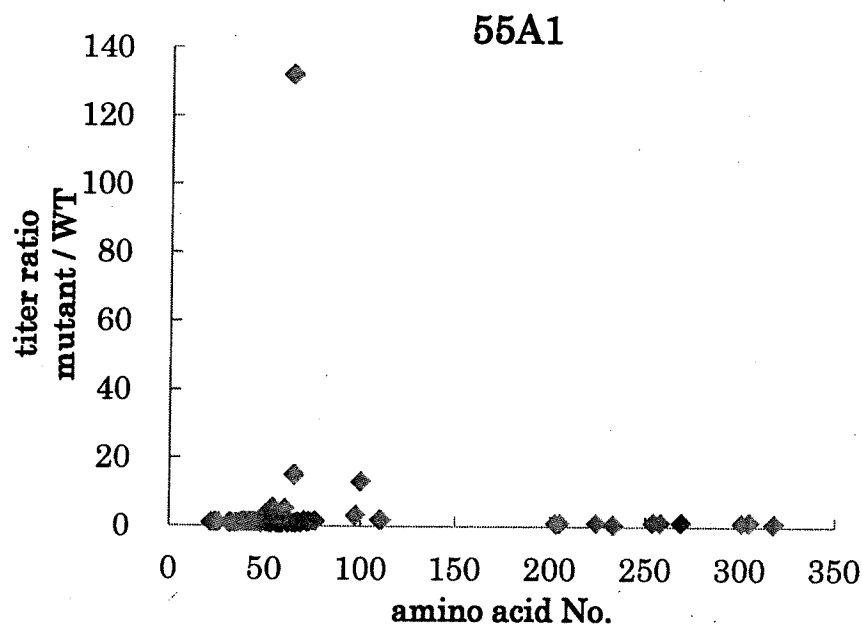
Figure7A

Figure7B

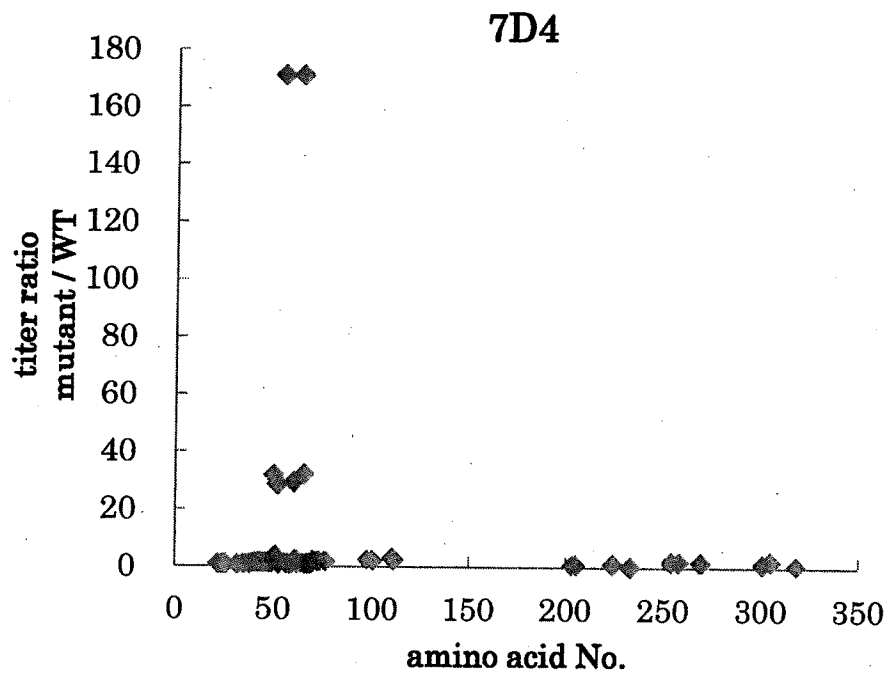


Figure7C

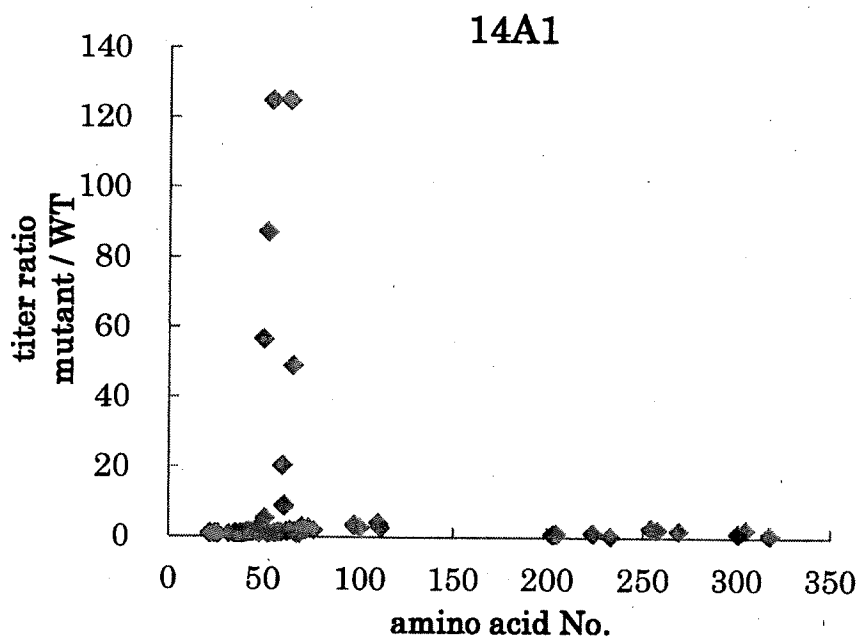


Figure7D

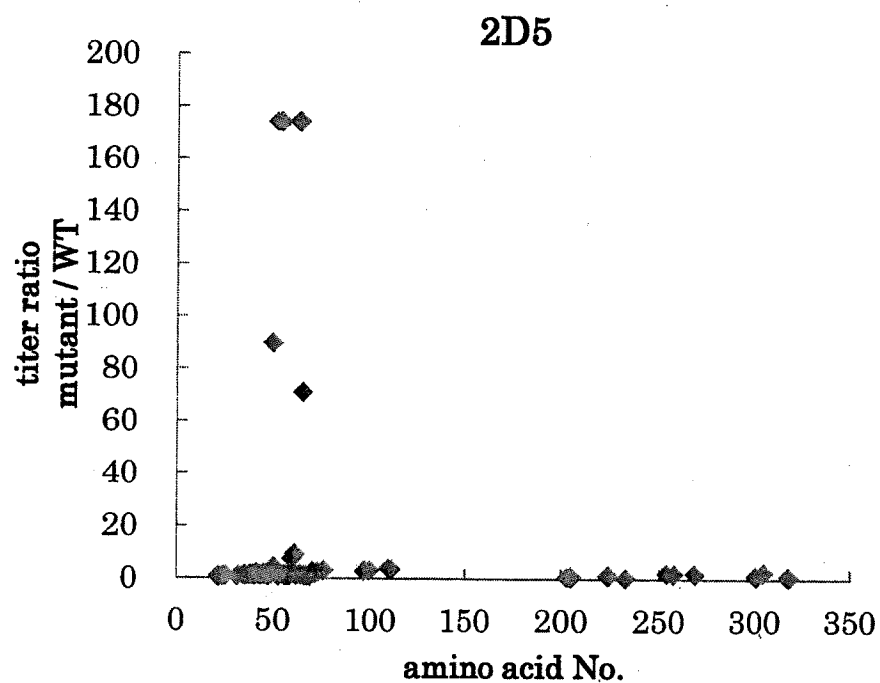


Figure7E

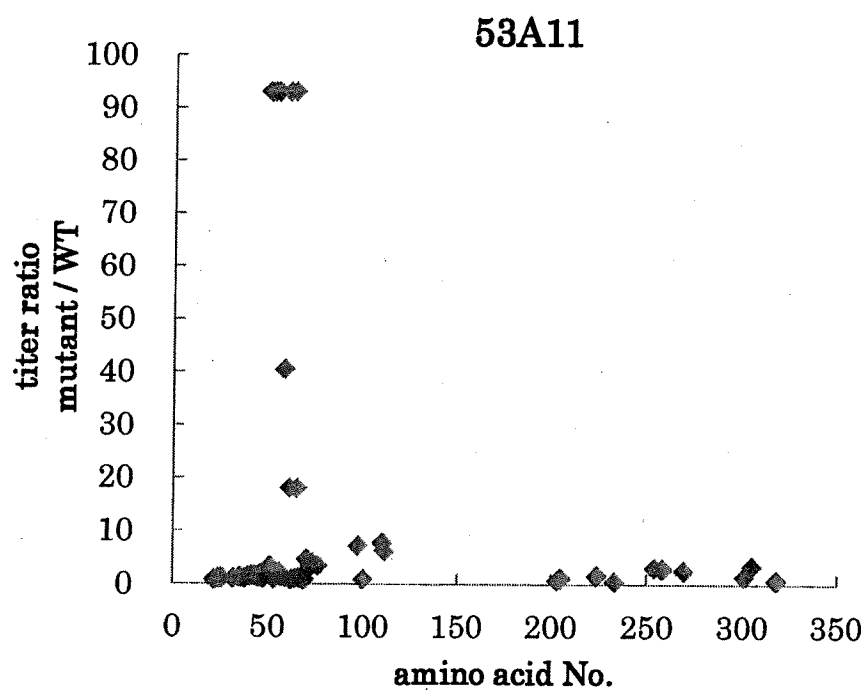


Figure7F

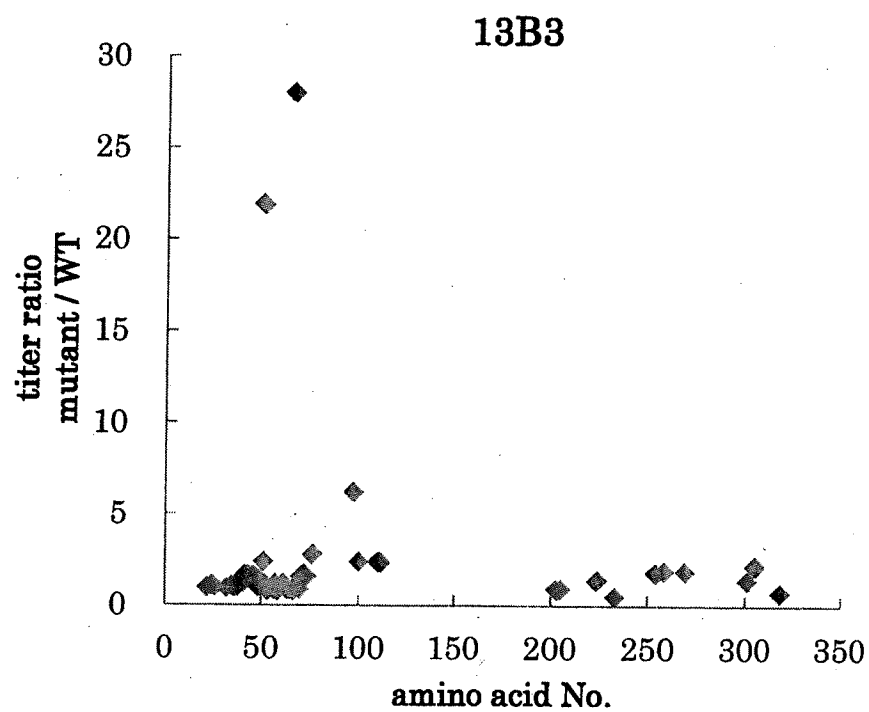


Figure7G

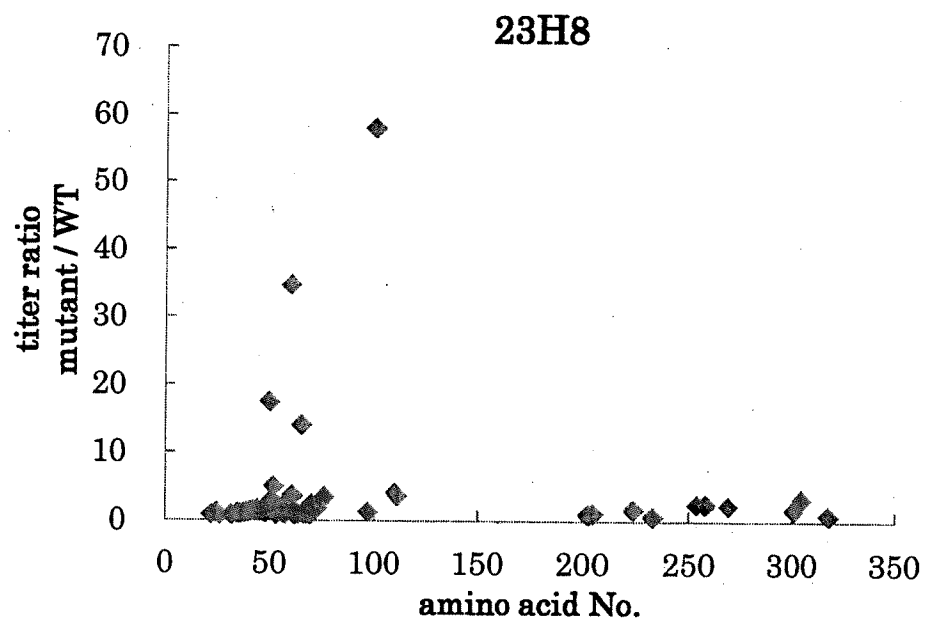


Figure7H

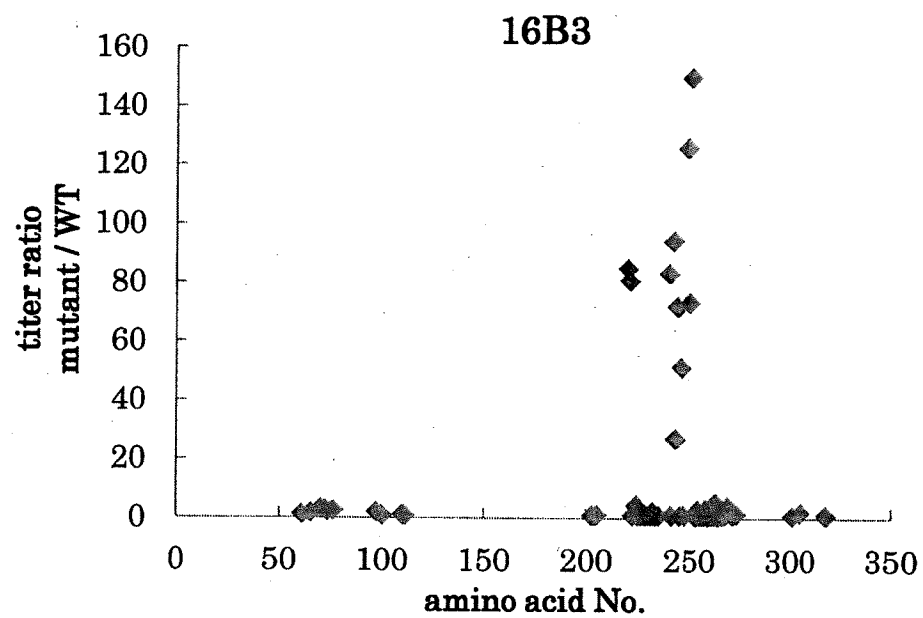


Figure7I

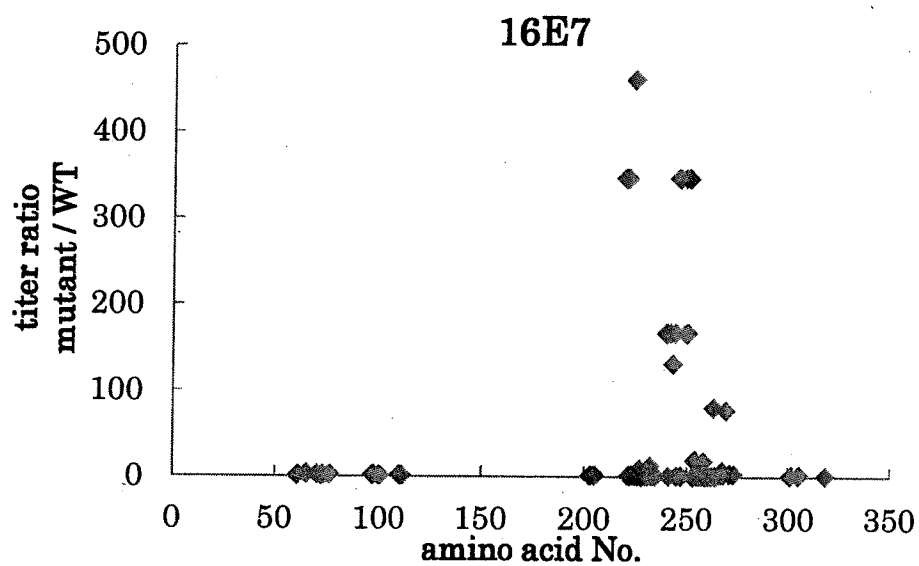


Figure7J

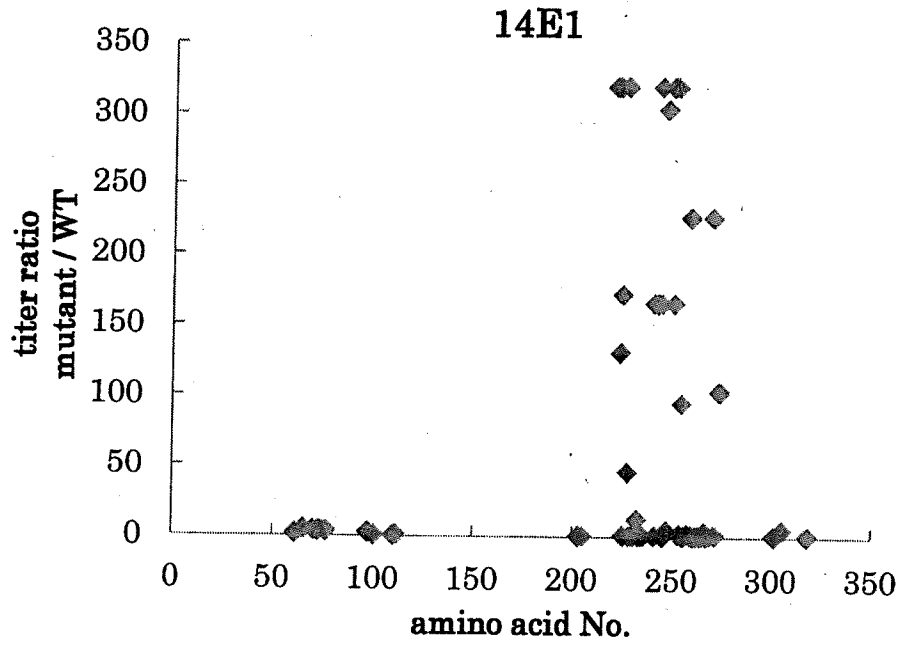
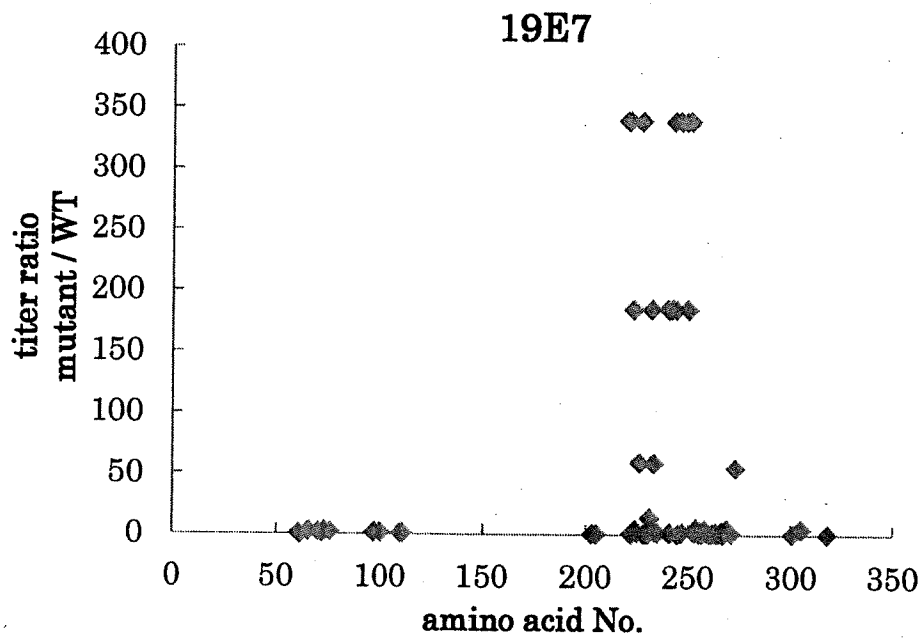


Figure7K



[illegible]

55566666666677777777788888888999999999
7890123456789012345678901234567890123456789
01234567
GVSREFSGSGSGTDFLTITSSLOPEDFAIYVCOOSWKVPFTFGOGTRLEIK
I S . S V
I R . E . V

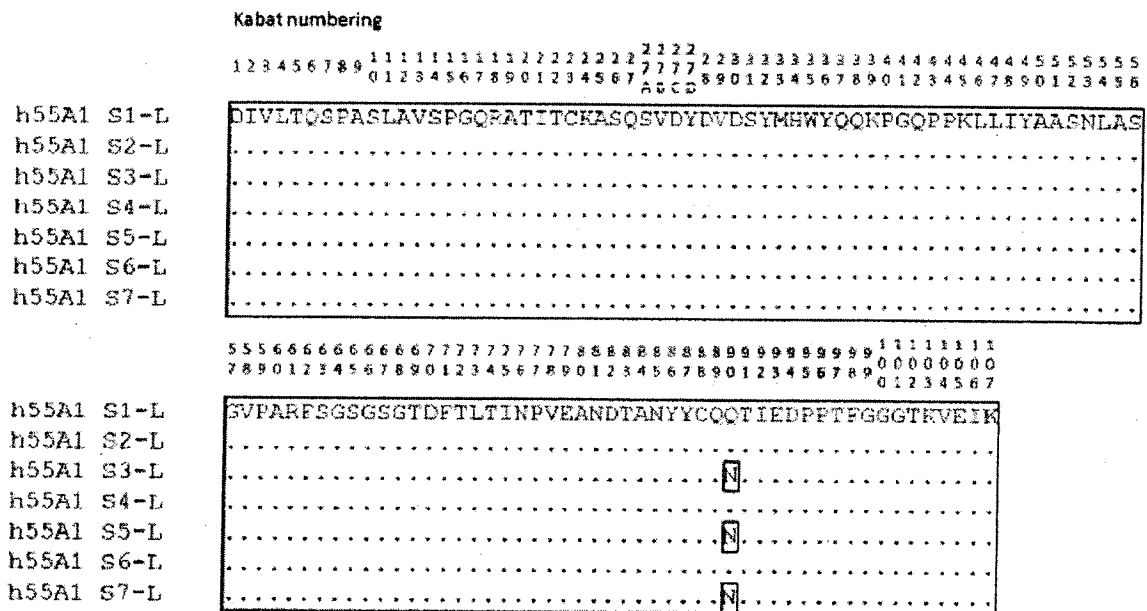


Figure10B

Light chain of h53A11

	Kabat numbering
	111111111122222222223333333333444444444455555555556
	0123456789012345678901234567890123456789012345678901234567890
h53A11 S1-L	EIVMTQSLATLSVSPGERATLSCRASQDISNSLHWYQQKPGQAPRLLIKVASQSIGIPA
h53A11 S2-L	Y.....
h53A11 S3-L	F.....
h53A11 S4-L	F.....
	666666666777777777778888888888999999999911111111
	123456789012345678901234567890123456789012345678901234567
h53A11 S1-L	RFSGSGSGTEFTLTISSLQSEDFAVYYCQQSNWPFYFGQGTKLEIK
h53A11 S2-L	.....
h53A11 S3-L	.....
h53A11 S4-L	.....

Figure11A

Heavy chain of h23H8

	Kabat numbering
	111111111122222222223333333333444444444455555555556
	0123456789012345678901234567890123456789012345678901234567890
h23H8 S1-H	QVQLVQSGAEVKKPGASVKVSCKASGYTFTDNTLHWVROAPGQGLEWMGHINPYGGTNN
h23H8 S2-H	.....
h23H8 S3-H	.....
	66666666677777777777888888888899999999991111111111111111
	0123456789012345678901234567890123456789012345678901234567890
h23H8 S1-H	NEKFKDRVMTMRDTSISTAYMELSRLSDDTAVYYCARKGIYYSSPFDYWGQGTITVTVSS
h23H8 S2-H	.....
h23H8 S3-H	.....

Figure11B

Light chain of h23H8

	Kabat numbering
	111111111122222222223333333333444444444455555555556
	0123456789012345678901234567890123456789012345678901234567890
h23H8 S1-L	DIQMTQSPSSLSASVGDRTITCRASQDINNYLNWYQQKPGKAPKLLIYYTSKLSGVPS
h23H8 S2-L	S.....
h23H8 S3-L	S.....
	666666666777777777778888888888999999999911111111
	123456789012345678901234567890123456789012345678901234567
h23H8 S1-L	RFSGSGSGTDFTLTISSLQPEDFATYYCQQGNTLPFTFGQGTKLEIK
h23H8 S2-L	F.....
h23H8 S3-L	.....

Figure12A

Heavy chain of h13B3

	Kabat numbering
	11111111112222222222333333333344444444445555555555
	012345678901234567890123456789012345678901234567890123456789
h13B3 S1-H	QVQLVQSGAEVKKPGASVKVSCKASGYTFTEYTMHWVRQAPGQGLEWMGSINPYYGGSY
h13B3 S2-H	.....
h13B3 S3-H	.....
h13B3 S4-H	.....
	66666666667777777777888888888899999999991111111111111111
	012345678901234567890123456789012345678901234567890123456789
h13B3 S1-H	NEKFKDRVTMTRDTSSTVYMELSSLRSEDTAVYYCARYGNYVGYFDYWGQGTTVTVSS
h13B3 S2-H	S.....I.....A.....R.....L.....V.....
h13B3 S3-H	S.....I.....A.....R.....L.....V.....
h13B3 S4-H	S.....I.....A.....R.....L.....V.....

Figure12B

Light chain of h13B3

	Kabat numbering
	111111111122222222223333333333444444444455555555556666666666
	01234567890123456789012345678901234567890123456789012345678901
h13B3 S1-L	EIVLTQSPSTLSLSPGERATLSCRASSSVHYMYWYQQKPGQAPRLLIYYTNSNLPAGIPDR
h13B3 S2-L	A.....A.....A.....A.....A.....A.....A.....A.....
h13B3 S3-L	A.....A.....A.....A.....A.....A.....A.....A.....
h13B3 S4-L	A.....A.....A.....A.....A.....A.....A.....A.....
	66666666667777777777888888888899999999991111111111
	012345678901234567890123456789012345678901234567890123456789
h13B3 S1-L	FSGSGSGTDFTLTISRLEPEDFAVYYCQQFTSSPYTFGGGTKVEIK
h13B3 S2-L	S.....S.....S.....S.....S.....S.....S.....S.....
h13B3 S3-L	S.....S.....S.....S.....S.....S.....S.....S.....
h13B3 S4-L	S.....S.....S.....S.....S.....S.....S.....S.....

Figure13A

Heavy chain of h12B10

	Kabat numbering
	11111111112222222222333333333344444444445555555555
	012345678901234567890123456789012345678901234567890123456789
h12B10 S1-H	EVQLVESGGGLVCKPGGSLRLSCAASGFSLSSTSGMVGWVRQAPGKGLEWLAHIWVNDKY
h12B10 S2-H	S.....
h12B10 S3-H	S.....
h12B10 S4-H	S.....
	56666666667777777777888888888899999999991111111111111111
	9012345678901234567890123456789012345678901234567890123456789
h12B10 S1-H	YNPSLKSRTISRDDSKNTLYLQMSLKTEDAVYYCARDHLAYFDYWGQGTTLTVSS
h12B10 S2-H	F.....L.....
h12B10 S3-H	F.....L.....
h12B10 S4-H	F.....L.....

Figure13B

Light chain of h12B10

	Kabat numbering
	123456789 111111111122222222223333333333444444444455555555556 0123456789012345678901234567890123456789012345678901234567890
h12B10 S1-L	DIQMTQSPSSLSASVGDRTITCKASQDINKYIAWYQQKPGKAPKLLMAYPFTLQPGVPS
h12B10 S2-L	.....
h12B10 S3-L	.....
h12B10 S4-L	.....
	666666666777777777788888888889999999999 11111111 123456789012345678901234567890123456789 000000000 01234567
h12B10 S1-L	RFSGSGSGTDFTLTISLQPEDFATYYCLOYDNLLWTFGGGTKVEIK
h12B10 S2-L	.....
h12B10 S3-L	.....
h12B10 S4-L	.....

Figure14A

Heavy chain of h16F6

	Kabat numbering
	123456789 111111111122222222223333333333444444444455555555556 0123456789012345678901234567890123456789012345678901234567890
h16F6 S1-H	QVQLVQSGAEVKKPGASVKVSCKASGYTFTTYWIAWVRQAPGQGLEWMGEILPGSAKTKY
h16F6 S2-H	.....
h16F6 S3-H	.....
h16F6 S4-H	.....
h16F6 S5-H	.....
	666666666777777777788888888889999999999 11111111111111 0123456789012345678901234567890123456789012345678901234567890 ABC 23456789012345678901234567890123456789012345678901234567890
h16F6 S1-H	NKKFKGRVTMTROTSTSTVYMELSSLRSEDYAVYYCAVDYGDYWGQGTITVTVSS
h16F6 S2-H	.....
h16F6 S3-H	.....
h16F6 S4-H	.....
h16F6 S5-H	.....

Figure14B

Light chain of h16F6

	Kabat numbering
	123456789 111111111122222222223333333333444444444455555555556 0123456789012345678901234567890123456789012345678901234567890
h16F6 S1-L	DIQMTQSPSSLSASVGDRTITCKASQDVYTAWYQQKPGKSPKLLIYSASYRFTGVPS
h16F6 S2-L	.....
h16F6 S3-L	.....
h16F6 S4-L	.....
h16F6 S5-L	.....
	666666666777777777788888888889999999999 1111111111 123456789012345678901234567890123456789012345678901234567890 01234567
h16F6 S1-L	RFSGSGSGTDFTLTISLQPEDFATYYCQQHYSIPRTFGGGTKVEIK
h16F6 S2-L	A.....
h16F6 S3-L	..T...A.....
h16F6 S4-L	..T...A.....E.....
h16F6 S5-L	..T...A.....E.....

Figure15A

Heavy chain of h16B3-S1

CDR1 CDR2
 EVQLVESGGGLVQPGGSLRLSCAASGFTFSGYTMSWVRQAPGKGLEWVSEISFARDRAFYPTVKG
 RFTISRDN SKNTLYLQMNSLRAEDTAVYYCAKLGGRNHDYWFFDVWGQGTTVTVSS
 CDR3

Light chain of h16B3-S1

CDR1 CDR2
 DIVMTQSPDSLAVSLGERATINCRASESVEYYGTSLMQWYQQKPGQPPKLLIYAASNVESGVPDRFS
 GSGSGTDFTLTISSLQAEDVAVYYCQQSWKVPFTFGQGTKLEIK
 CDR3

Figure15B

Heavy chain of h16B3-S2

CDR1 CDR2
 EVQLVESGGGLVQPGGSLRLSCAASGFTFSGYTMSWVRQAPGKGLEWVSEISFARDRAFYPTVKG
 RFTISRDN SKNTLYLQMNSLRAEDTAVYYCARLGGRNHDYWFFDVWGQGTTVTVSS
 CDR3

Light chain of h16B3-S2

CDR1 CDR2
 DIVMTQSPDSLAVSLGERATINCRASESVEYYGTSLMQWYQQKPGQPPKLLIYAASNVESGVPDRFS
 GSGSGTDFTLTISSLQAEDVAVYYCQQSWKVPFTFGQGTKLEIK
 CDR3

Figure15C

Heavy chain of h16B3-S3

CDR1 CDR2
 EVQLVESGGGLVQPGGSLRLSCAASGFTFSGYTMSWVRQAPGKGLEWVSEISFARDRAFYPTVKG
 RFTISRDN SKNTLYLQMNSLRAEDTAVYYCARLGGRNHDFWYFDVWGQGTTVTVSS
 CDR3

Light chain of h16B3-S3

CDR1 CDR2
 DIVMTQSPDSLAVSLGERATINCRASESVEYYGTSLMQWYQQKPGQPPKLLIYAASNVESGVPDRFS
 GSGSGTDFTLTISSLQAEDVAVYYCQQSWKVPFTFGQGTKLEIK
 CDR3

Figure15D

Heavy chain of h16B3-S4

CDR1	CDR2
EVQLVESGGGLVQPGGSLRLSCAASGFTFSGYTMSWVRQAPGKGLEWVSEISFARDRAFYPTVKG	
RFTISRDN SKNTLYLQMNSLRAEDTAVYYCARLGGKNHDFWYFDVWGQGT TTVTVSS	
CDR3	

Light chain of h16B3-S4

CDR1	CDR2
DIVMTQSPDSLAVSLGERATINCRASESVEYYGTSMLQWYQQKPGQPPKLLIYAASNVESGVPDRFS	
GSGSGTDFTLTISSLQAEDVAVYYCQQSWRVPFTEFGQGTKLEIK	
CDR3	

Figure15E

Heavy chain of h16B3-S5

CDR1	CDR2
EVQLVESGGGLVQPGGSLRLSCAASGFTFSGYTMSWVRQAPGKGLEWVSEISFARDRAFYPTVKG	
RFTISRDN SKNTLYLQMNSLRAEDTAVYYCARLGGKNRDFWYFDLWGQGT TTVTVSS	
CDR3	

Light chain of h16B3-S5

CDR1	CDR2
DIVMTQSPDSLAVSLGERATINCRASESVEYYGTSMLQWYQQKPGQPPKLLIYAASNVESGVPDRFS	
GSGSGTDFTLTISSLQAEDVAVYYCQQSWKVPFTEFGQGTKLEIK	
CDR3	

Figure15F

Heavy chain of h16B3-S6

CDR1	CDR2
EVQLVESGGGLVQPGGSLRLSCAASGFTFSGYTMSWVRQAPGKGLEWVSEISFARDRAFYPTVKG	
RFTISRDN SKNTLYLQMNSLRAEDTAVYYCARLGGKNRDFWYFDLWGQGT TTVTVSS	
CDR3	

Light chain of h16B3-S6

CDR1	CDR2
DIVMTQSPDSLAVSLGERATINCRASESVEYYGTSMLQWYQQKPGQPPKLLIYAASNVESGVPDRFS	
GSGSGTDFTLTISSLQAEDVAVYYCQQSWRVPFTEFGQGTKLEIK	
CDR3	

Figure15G

Heavy chain of h16B3-S7

CDR1
CDR2
 EVQLVESGGGLVQPGGSLRLSCAASGFTFSAYTMSWVRQAPGKGLEWVSDISFARDRAFYPTVKG
 RFTISRDN SKNTLYLQMNSLRAEDTAVYYCARLGGKNRDFWYFDLWGQGTTVTVSS
CDR3

Light chain of h16B3-S7

CDR1
CDR2
 DIVMTQSPDSLAVSLGERATINCRASESVEYYGTSLMQWYQQKPGQPPKLLIYAASNVESGVPDRFS
 GSGSGTDFTLTISLQAEDVAVYYCQQSWKVPFTFGQGTKLEIK
CDR3

Figure15H

Heavy chain of h16B3-S8

CDR1
CDR2
 EVQLVESGGGLVQPGGSLRLSCAASGFTFSAYTMSWVRQAPGKGLEWVSDISFARDRAFYPTVKG
 RFTISRDN SKNTLYLQMNSLRAEDTAVYYCARLGGKNRDFWYFDLWGQGTTVTVSS
CDR3

Light chain of h16B3-S8

CDR1
CDR2
 DIVMTQSPDSLAVSLGERATINCRASESVEYYGTSLMQWYQQKPGQPPKLLIYAASNVESGVPDRFS
 GSGSGTDFTLTISLQAEDVAVYYCQQSWRVPFTFGQGTKLEIK
CDR3

Figure15I

Heavy chain of h16B3-F1

CDR1
CDR2
 EVQLVESGGGLVQPGGSLRLSCAASGFTESGYTMSWVRQAPGKGLEWVSEISFARDRAFYPTVKG
 RFTISRDN SKNTLYLQMNSLRAEDTAVYYCARLGGRNHDYWFYFDVWGQGTTVTVSS
CDR3

Light chain of h16B3-F1

CDR1
CDR2
 DIQMTQSPSSLSASVGDRVTITCRASESVEYYGTSLMQWYQQKPGKAPKLLIYAASNVESGVPSRFS
 GSGSGTDFTLTISLQPEDFATYYCQQSWKVPFTFGQGTKLEIK
CDR3

Figure15J

Heavy chain of h16B3-F2

CDR1 CDR2
 EVQLVESGGGLVQPGGSLRLSCAASGFTFSGYTMSWVRQAPGKGLEWVSEISFARDRAFYPTVKG
 RFTISRDN SKNTLYLQMNSLRAEDTAVYYCARLGGRNHDYWFVDVWGQGT TTVTVSS
 CDR3

Light chain of h16B3-F2

CDR1 CDR2
 EIVMTQSPATLSVSPGERATLSCRASESVEYYGTSLMQWYQQKPGQAPRLLIYAASNVESGIPARFS
 GSGSGTEFTLTISLQSEDFAVYYCQQSWKVPFTFGQGTKLEIK
 CDR3

Figure15K

Heavy chain of h16B3-F3

CDR1 CDR2
 EVQLVESGGGLVQPGGSLRLSCAASGFTFSGYTMSWVRQAPGKGLEWVSEISFARDRAFYPTVKG
 RFTISRDN SKNTLYLQMNSLRAEDTAVYYCARLGGRNHDYWFVDVWGQGT TTVTVSS
 CDR3

Light chain of h16B3-F3

CDR1 CDR2
 EIVLTQSPGTLSPGERATLSCRASESVEYYGTSLMQWYQQKPGQAPRLLIYAASNVESGIPDRFS
 GSGSGTDFTLTISRLEPEDFAVYYCQQSWKVPFTFGQGTKLEIK
 CDR3

Figure16A

Heavy chain of h55A1-S1

CDR1 CDR2
 QVQLVQSGSELKKPGASVKVSCASGYTFTNYGMNWRQAPGQGLEWMGWINTYSGVPTYAGDFKG
 RFVFSLDTSVSTAYLQISSLKAEDTAVYYCARRGYGRYFDVWGKGTTTVTVSS
 CDR3

Light chain of h55A1-S1

CDR1 CDR2
 DIVLTQSPASLAVSPGQRATITCKASQSDYDVDSYMHYQQKPGQPPKLLIYAASNLASGVPARFS
 GSGSGTDFTLTINPVEANDTANYYCQQTIEDPPTFGGGGTKVEIK
 CDR3

Figure16B

Heavy chain of h55A1-S2

	CDR1	CDR2
QVQLVQSGSELKKPGASVKV	SCKASGYTFTNYGLN	WVRQAPGQGLEWMGWINTYSGVET
RFVFSLDTSVSTAYLQISS	LKAEDTAVYYCARRGY	YGRFFDVWGKGTTTVSS
	CDR3	

Light chain of h55A1-S2

	CDR1	CDR2
DIVLTQSPASLAVSPGQRATIT	CKASQSV	VDYDVDSYMHWYQQKPGQPPKLLIYAASN
GS	SGTDFTLTINPVEANDTANY	YCQQTIEDPPTFGGGTKVEIK
	CDR3	

Figure16C

Heavy chain of h55A1-S3

	CDR1	CDR2
QVQLVQSGSELKKPGASVKV	SCKASGYTFTNYGLN	WVRQAPGQGLEWMGWINTYSGVPT
RFVFSLDTSVSTAYLQISS	LKAEDTAVYYCARRGY	YGRFFDVWGKGTTTVSS
	CDR3	

Light chain of h55A1-S3

	CDR1	CDR2
DIVLTQSPASLAVSPGQRATIT	CKASQSV	VDYDVDSYMHWYQQKPGQPPKLLIYAASN
GS	SGTDFTLTINPVEANDTANY	YCQNTIEDPPTFGGGTKVEIK
	CDR3	

Figure16D

Heavy chain of h55A1-S4

	CDR1	CDR2
QVQLVQSGSELKKPGASVKV	SCKASGYTFTNYAMN	WVRQAPGQGLEWMGWINTYSGVGT
RFVFSLDTSVSTAYLQISS	LKAEDTAVYYCARRGF	YGRFFDVWGKGTTTVSS
	CDR3	

Light chain of h55A1-S4

	CDR1	CDR2
DIVLTQSPASLAVSPGQRATIT	CKASQSV	VDYDVDSYMHWYQQKPGQPPKLLIYAASN
GS	SGTDFTLTINPVEANDTANY	YCQQTIEDPPTFGGGTKVEIK
	CDR3	

Figure16E

Heavy chain of h55A1-S5

CDR1 CDR2
 QVQLVQSGSELKKPGASVKVSCASGYTFTNYAMNWVRQAPGQGLEWMGWINTYSGVGTYAGDFKG
 RFVFSLDTSVSTAYLQISSLKAEDTAVYYCARRGFYGRFFDVWGKGTTVTVSS
 CDR3

Light chain of h55A1-S5

CDR1 CDR2
 DIVLTQSPASLAVSPGQRATITCKASQSVDDVDSDYMHYQQKPGQPPKLLIYAASNLAGVPAFVS
 GSGSGTDFTLTINPVEANDTANYYCQNTIEDPPTFGGGTKVEIK
 CDR3

Figure16F

Heavy chain of h55A1-S6

CDR1 CDR2
 QVQLVQSGSELKKPGASVKVSCASGYTFTNYALNWVRQAPGQGLEWMGWINTYSGVGTYAGEFKG
 RFVFSLDTSVSTAYLQISSLKAEDTAVYYCARRGFYGRFFDVWGKGTTVTVSS
 CDR3

Light chain of h55A1-S6

CDR1 CDR2
 DIVLTQSPASLAVSPGQRATITCKASQSVDDVDSDYMHYQQKPGQPPKLLIYAASNLAGVPAFVS
 GSGSGTDFTLTINPVEANDTANYYCQQTIEDPPTFGGGTKVEIK
 CDR3

Figure16G

Heavy chain of h55A1-S7

CDR1 CDR2
 QVQLVQSGSELKKPGASVKVSCASGYTFTNYALNWVRQAPGQGLEWMGWINTYSGVGTYAGEFKG
 RFVFSLDTSVSTAYLQISSLKAEDTAVYYCARRGFYGRFFDVWGKGTTVTVSS
 CDR3

Light chain of h55A1-S7

CDR1 CDR2
 DIVLTQSPASLAVSPGQRATITCKASQSVDDVDSDYMHYQQKPGQPPKLLIYAASNLAGVPAFVS
 GSGSGTDFTLTINPVEANDTANYYCQNTIEDPPTFGGGTKVEIK
 CDR3

Figure16H

Heavy chain of h55A1-F1

CDR1
CDR2
 QVQLVQSGSELKKPGASVKVSCASGYTFTNYGMNWVRQAPGQGLEWMGWINTYSGVPTYAGDFKG
 RFVFSLDTSVSTAYLQISSSLKAEDTAVYYCARRGYYGRRYFDVWGKGTTVTVSS
CDR3

Light chain of h55A1-F1

CDR1
CDR2
 DIQLTQSPSSLSASVGDRVTITCKASQSVDDYDVDSYMHWYQQKPGKAPKLLIYAASNLAGVPSRFS
 GSGSGTDFTFTISSLQPEDATYYCQQTIEDPPTFGGGTKVEIK
CDR3

Figure16I

Heavy chain of h55A1-F2

CDR1
CDR2
 QVQLVQSGAEVKKPGASVKVSCASGYTFTNYGMNWVRQAPGQGLEWMGWINTYSGVPTYAGDFKG
 RVTMTTDTSTSTAYMELRSLRSDDTAVYYCARRGYYGRRYFDVWGKGTTVTVSS
CDR3

Light chain of h55A1-F2

CDR1
CDR2
 EIVMTQSPATLSVSPGERATLSCASQSVDDYDVDSYMHWYQQKPGQAPRLLIYAASNLAGIPARFS
 GSGSGTEFTLTISSLQSEDFAVYYCQQTIEDPPTFGGGTKVEIK
CDR3

Figure16J

Heavy chain of h55A1-F3

CDR1
CDR2
 QVQLVQSGAEVKKPGASVKVSCASGYTFTNYGMNWVRQAPGQGLEWMGWINTYSGVPTYAGDFKG
 RVTMTTDTSTSTAYMELRSLRSDDTAVYYCARRGYYGRRYFDVWGKGTTVTVSS
CDR3

Light chain of h55A1-F3

CDR1
CDR2
 DIQLTQSPSSLSASVGDRVTITCKASQSVDDYDVDSYMHWYQQKPGKAPKLLIYAASNLAGVPSRFS
 GSGSGTDFTLTISSLQPEDFATYYCQQTIEDPPTFGGGTKVEIK
CDR3

Figure16K

Heavy chain of h55A1-F4

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYSGVPTYAGDFKG
 RVTMTTDTSTSTAYMELRSLRSDDTAVYYCARRGYGRRYFDVWGKGTTTVTVSS
 CDR3

Light chain of h55A1-F4

CDR1 CDR2
 EIVLTQSPGTLSSLSPGERATLSCKASQSVVDYDVDSYMHYQQKPGQAPRLLIYAASNLASGIPDRFS
 GSGSGTDFTLTISRLEPEDFAVYYCQQTIEDPPTFGGGTKVEIK
 CDR3

Figure16L

Heavy chain of h55A1-F5

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYSGVPTYAGDFKG
 RFTFTLDTSTSTAYMELSSLRSEDTAVYYCARRGYGRRYFDVWGKGTTTVTVSS
 CDR3

Light chain of h55A1-F5

CDR1 CDR2
 DIQLTQSPSSLSASVGDRVTTITCKASQSVVDYDVDSYMHYQQKPGKAPKLLIYAASNLASGVPSRFS
 GSGSGTDFTLTISSLQPEDFATYYCQQTIEDPPTFGGGTKVEIK
 CDR3

Figure16M

Heavy chain of h55A1-F6

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTNYGMNWVRQAPGQGLEWMGWINTYSGVPTYAGDFKG
 RFTFTLDTSTSTAYMELSSLRSEDTAVYYCARRGYGRRYFDVWGKGTTTVTVSS
 CDR3

Light chain of h55A1-F6

CDR1 CDR2
 EIVMTQSPATLSVSPGERATLSCKASQSVVDYDVDSYMHYQQKPGQAPRLLIYAASNLASGIPARFS
 GSGSGTEFTLTISLQSEDFAVYYCQQTIEDPPTFGGGTKVEIK
 CDR3

Figure17A

Heavy chain of h53A11-S1

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTDYTMHWVRQAPGQRLEWMGGINPYYGGTTYNEKFKD
 RVTITRDTSASTAYMELSSLRSEDTAVYYCAKGDYYGGSYNYWGQGTTVTVSS
 CDR3

Light chain of h53A11-S1

CDR1 CDR2
 EIVMTQSLATLSVSPGERATLSCRASQDISNSLHWYQQKPGQAPRLLIKYASQISGIPARFSGSGS
 GTEFTLTISLQSEDAVYYCQQSNSWPYTFGQGTKLEIK
 CDR3

Figure17B

Heavy chain of h53A11-S2

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTDYTMHWVRQAPGQRLEWMGGINPYYGGTTYNEKFKD
 RVTITRDTSASTAYMELSSLRSEDTAVYYCAKGDYYGGSYNYWGQGTTVTVSS
 CDR3

Light chain of h53A11-S2

CDR1 CDR2
 EIVMTQSLATLSVSPGERATLSCRASQDISNSLHWYQQKPGQAPRLLIYYASQISGIPARFSGSGS
 GTEFTLTISLQSEDAVYYCQQSNSWPYTFGQGTKLEIK
 CDR3

Figure17C

Heavy chain of h53A11-S3

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTDYTMHWVRQAPGQRLEWMGGINPYYGGTTYNEKFKD
 RVTITRDTSASTAYMELSSLRSEDTAVYYCAKGDYYGGSYNYWGQGTTVTVSS
 CDR3

Light chain of h53A11-S3

CDR1 CDR2
 EIVMTQSPATLSVSPGERATLSCRASQDISNSLHWYQQKPGQAPRLLIKYASQISGIPARFSGSGS
 GTEFTLTISLQSEDAVYYCQQSNSWPYTFGQGTKLEIK
 CDR3

Figure17D

Heavy chain of h53A11-S4

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCASGYTFTDYTMHWVRQAPGQRLEWMGGINPYYGGTTTNEKFKD
 RVTITRDTSASTAYMELSSLRSEDTAVYYCARGDIYGGSYNYWGQGTTTVTVSS
 CDR3

Light chain of h53A11-S4

CDR1 CDR2
 EIVMTQSPATLSVSPGERATLSCRASQDISNSLHWYQQKPGQAPRLLIKYASQSISGIPARFSGSGS
 GTEFTLTISLQSEDFAVYYCQQSNSWPYTFGQGTKLEIK
 CDR3

Figure18A

Heavy chain of h23H8-S1

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCASGYTFTDNTIHWVRQAPGQGLEWMGHINPYYGGTNNNEKFKD
 RVTMTRDTSISTAYMELSRRLSDDTAVYYCARKGIYYSSPFDYWGQGTTVTVSS
 CDR3

Light chain of h23H8-S1

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVTITCRASQDINNYLNWYQQKPGKAPKLLIYYTSKLHSGVPSRFSGSGS
 GTDFTLTISLQPEDFATYYCQQGNTLPFTFGQGTKLEIK
 CDR3

Figure18B

Heavy chain of h23H8-S2

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCASGYTFTDNTIHWVRQAPGQGLEWMGHINPYYGGTNNNEKFKD
 RVTMTRDTSISTAYMELSRRLSDDTAVYYCARKGIYYSSPFDYWGQGTTVTVSS
 CDR3

Light chain of h23H8-S2

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVTITCRASQDINNYLNWYQQKPGKAPKLLISYTSKLHSGVPSRFSGSGS
 GTDFTLTISLQREDFATYYCQQGNTLPFTFGQGTKLEIK
 CDR3

Figure18C

Heavy chain of h23H8-S3

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCASGYTFTDNTIHWVRQAPGQGLEWMGHINPYYGGTNNNEKFKD
 RVTMTRDTSISTAYMELSRRLSDDTAVYYCARKGIYYSSPFDYWGQGTTVTVSS
 CDR3

Light chain of h23H8-S3

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVTITCRASQDINNYLNWYQQKPGKAPKLLISYTSKLHSGVPSRFSGSGS
 GTDFTLTISLQPEDFATYYCQQGNTLPFTFGQGTKLEIK
 CDR3

Figure19A

Heavy chain of h13B3-S1

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTEYTMHWVRQAPGQGLEWMGSINPYGGTSYNEKFKD
 RVTMTRDTSTSTVYMELSSLRSED~~TAVYYCARYGNYVG~~YFDYWGQGTTVTVSS
 CDR3

Light chain of h13B3-S1

CDR1 CDR2
 EIVLTQSPGTL~~SLSPGERATL~~SCRASSSVHYMYWYQQKPGQAPRLLIYYTSNLAPGIPDRFSGSGSG
 TDFTLTISRLEPEDFAVYYCQQFTSSPYTFGGGKVEIK
 CDR3

Figure19B

Heavy chain of h13B3-S2

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTEYTMHWVRQAPGQGLEWMGSINPYGGTSYNEKFKD
 RVTSTRDTSISTAYMEL~~SRLRSD~~TVVYYCARYGNYVGYFDYWGQGTTVTVSS
 CDR3

Light chain of h13B3-S2

CDR1 CDR2
 EIVLTQSPGTL~~SLSPGERATL~~SCRASSSVHYMYWYQQKPGQAPRLLIYYTSNLAPGIPDRFSGSGSG
 TDFTLTISRLEPEDFAVYYCQQFTSSPYTFGGGKVEIK
 CDR3

Figure19C

Heavy chain of h13B3-S3

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTEYTMHWVRQAPGQGLEWMGSINPYGGTSYNEKFKD
 RVTMTRDTSTSTVYMELSSLRSED~~TAVYYCARYGNYVG~~YFDYWGQGTTVTVSS
 CDR3

Light chain of h13B3-S3

CDR1 CDR2
 EIVLTQSPATLSLSPGERATL~~SCRASSSVHYMYWYQQKPGQAPRLLIYYTSNLAPGIPARFSGSGSG
 TDFTLTISLLEPEDFAVYYCQQFTSSPYTFGGGKVEIK
 CDR3~~

Figure19D

Heavy chain of h13B3-S4

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTEYTMHWVRQAPGQGLEWMGSINFIYGGTSYNEKFKD
 RVTSTRDTSISTAYMELSRRLRSDDTVVYYCARYGNYVGYFDYWGGGTTVTVSS
 CDR3

Light chain of h13B3-S4

CDR1 CDR2
 EIVLTQSPATLSLSPGERATLSCRASSSVHYMYWYQQKPGQAPRLLIYYTSLNAPGIPARESGSGSG
 TDFTLTISSLEPEDFAVYYCQQFTSSPYTFGGGKVEIK
 CDR3

Figure20A

Heavy chain of h12B10-S1

CDR1 CDR2
 EVQLVESGGGLVKPGGSLRLSCAASGFSLSITSGMGVGVWRQAPGKGLEWLAHIWWNDEKYYNP SLKS
 RFTISRDDSKNTLYLQMNSLKTEDTAVYYCARDHLAYYFDVWGQGLTVTVSS
 CDR3

Light chain of h12B10-S1

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVITITCKASQDINKYIAWYQQKPGKAPKLLMAYPFTLQPGVPSRFSGSGS
 GTDFTLTISLQPEDFATYYCLQYDNLWTFGQGTKVEIK
 CDR3

Figure20B

Heavy chain of h12B10-S2

CDR1 CDR2
 EVQLVESGGGLVKPGGSLRLSCAASGFSLSITSGMGVGVWRQAPGKGLEWLAHIWWNDEKYYNP SLKS
 RFTISRDDSKNTLYLQMNSLKTEDTAVYYCARDHLAFYFDLWGQGLTVTVSS
 CDR3

Light chain of h12B10-S2

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVITITCKASQDINKYIAWYQQKPGKAPKLLMAYPFTLQPGVPSRFSGSGS
 GTDFTLTISLQPEDFATYYCLQYDNLWTFGQGTKVEIK
 CDR3

Figure20C

Heavy chain of h12B10-S3

CDR1 CDR2
 EVQLVESGGGLVKPGGSLRLSCAASGFSLSTSGMGVGVWRQAPGKGLEWLAHIWWNDEKYYNPSLKS
 RFTISRDDSKNTLYLQMNSLKTEDTAVYYCARDHLAFFFDLWGQGTLVTVSS
 CDR3

Light chain of h12B10-S3

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVTITCKASQDINKYIAWYQQKPGKAPKLLMAYPFTLQPGVPSRFSGSGS
 GTDFTLTISLQPEDFATYYCLQYDNLLWTFGQGTKVEIK
 CDR3

Figure20D

Heavy chain of h12B10-S4

CDR1 CDR2
 EVQLVESGGGLVKPGGSLRLSCAASGFSLSSSGMGVGVWRQAPGKGLEWLAHIWWNDEKYYNPSLKS
 RFTISRDDSKNTLYLQMNSLKTEDTAVYYCARDHLVFFFDLWGQGTLVTVSS
 CDR3

Light chain of h12B10-S4

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVTITCKASQDINKYIAWYQQKPGKAPKLLMAYPFTLQPGVPSRFSGSGS
 GTDFTLTISLQPEDFATYYCLQYDNLLWTFGQGTKVEIK
 CDR3

Figure21A

Heavy chain of h16F6-S1

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTTYWIAWVRQAPGQGLEWMGEILPGSAKTKYNKKFKG
 RVTMTRDTSTSTVYMESSLRSEDVAVYYCAVYDYGADYWGQGTTVTVSS
 CDR3

Light chain of h16F6-S1

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVTITCKASQDVYTAWYQQKPGKSPKLLIYSASYRFTGVPSRFS
 GTDFTLTISLQPEDFATYYCQQHYSIPRTFGGGTKVEIK
 CDR3

Figure21B

Heavy chain of h16F6-S2

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTTYWIAWVRQAPGQGLEWMGEILPGSAKTKYNKKFKG
 RVTMTRDTSTSTVYMELSSLRSED~~TAVYYCAVYDYGADYWGQGT~~TVTVSS
 CDR3

Light chain of h16F6-S2

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVTITCKASQDVYTAVAWYQQKPGKSPKLLIYSASYRFTGVPSRFSGSGA
 GTDFTLTISLQPEDFATYYCQQHYSIPRTFGGGKVEIK
 CDR3

Figure21C

Heavy chain of h16F6-S3

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTTYWIAWVRQAPGQGLEWMGEILPGSAKTKYNKKFKG
 RVTMTRDTSTSTVYMELSSLRSED~~TAVYYCAVYDYGADYWGQGT~~TVTVSS
 CDR3

Light chain of h16F6-S3

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVTITCKASQDVYTAVAWYQQKPGKSPKLLIYSASYRFTGVPSRFTGSGA
 GTDFTLTISLQPEDFATYYCQQHYSIPRTFGGGKVEIK
 CDR3

Figure21D

Heavy chain of h16F6-S4

CDR1 CDR2
 QVQLVQSGAEVKKPGASVKVSCKASGYTFTTYWIAWVRQAPGQGLEWMGEILPGSAKTKYNKKFKG
 RVTMTRDTSTSTVYMELSSLRSED~~TAVYYCAVYDYGADYWGQGT~~TVTVSS
 CDR3

Light chain of h16F6-S4

CDR1 CDR2
 DIQMTQSPSSLSASVGDRVTITCKASQDVYTAVAWYQQKPGKSPKLLIYSASYRFTGVPSRFTGSGA
 GTDFTLTISLQPEDFATYYCQQHYSIPRTFGGGKVEIK
 CDR3

Figure21E

Heavy chain of h16F6-S5

CDR1 CDR2
QVQLVQSGAEVKKPGASVKVSCKASGYTFTTYWIAWVRQAPGQGLEWMGEILPGSAKTKYNKKFKG
RVTMTRDTSTSTVYMELSSLRSED^TAVYYCAVYDYGADYWGQGTTVTVSS
CDR3

Light chain of h16F6-S5

CDR1 CDR2
DIQMTQSPSSLSASVGD^RVSITCKASQDVYTAVAWYQQKPGKSPKLLIYSASYRFTGVPSRFTGSGA
GTDFTFTISSLQPEDFATYYCQQHYSIPRTFGGG^TTKVEIK
CDR3

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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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Lys Leu Leu Ile Tyr Ala Ala Ser Asn Val Glu Ser Gly Val Pro Asp
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Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
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35 40 45

Ser Glu Ile Ser Phe Ala Arg Asp Arg Ala Phe Tyr Pro Asp Thr Val
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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35 40 45

Ser Glu Ile Ser Phe Ala Arg Asp Arg Ala Phe Tyr Pro Asp Thr Val
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35 40 45

Lys Leu Leu Ile Tyr Ala Ala Ser Asn Val Glu Ser Gly Val Pro Asp
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
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<400> 65

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1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gly Tyr
20 25 30

Thr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
Page 15

35

40

45

Ser Glu Ile Ser Phe Ala Arg Asp Arg Ala Phe Tyr Pro Asp Thr Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Leu Gly Gly Lys Asn Arg Asp Phe Trp Tyr Phe Asp Leu Trp
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 66
<211> 122
<212> PRT
<213> chimera

<400> 66

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr
20 25 30

Thr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Asp Ile Ser Phe Ala Arg Asp Arg Ala Phe Tyr Pro Asp Thr Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Leu Gly Gly Lys Asn Arg Asp Phe Trp Tyr Phe Asp Leu Trp
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 67
<211> 111
<212> PRT
<213> chimera

<400> 67

15P00051WO_sequence listing_English.txt

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Ser Val Glu Tyr Tyr
20 25 30

Gly Thr Ser Leu Met Gln Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
35 40 45

Lys Leu Leu Ile Tyr Ala Ala Ser Asn Val Glu Ser Gly Val Pro Ser
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Trp
85 90 95

Lys Val Pro Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 68
<211> 111
<212> PRT
<213> chimera

<400> 68

Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Glu Ser Val Glu Tyr Tyr
20 25 30

Gly Thr Ser Leu Met Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
35 40 45

Arg Leu Leu Ile Tyr Ala Ala Ser Asn Val Glu Ser Gly Ile Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser
65 70 75 80

Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Trp
85 90 95

Lys Val Pro Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 69
<211> 111
<212> PRT
<213> chimera

15P00051WO_sequence listing_English.txt

<400> 69

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Glu Ser Val Glu Tyr Tyr
20 25 30

Gly Thr Ser Leu Met Gln Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
35 40 45

Arg Leu Leu Ile Tyr Ala Ala Ser Asn Val Glu Ser Gly Ile Pro Asp
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80

Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Trp
85 90 95

Lys Val Pro Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 70

<211> 120

<212> PRT

<213> chimera

<400> 70

Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Thr Tyr Ser Gly Val Pro Thr Tyr Ala Gly Asp Phe
50 55 60

Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr
65 70 75 80

Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg Gly Tyr Tyr Gly Arg Arg Tyr Phe Asp Val Trp Gly Lys
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

15P00051WO_sequence listing_English.txt

<210> 71
 <211> 111
 <212> PRT
 <213> chimera

<400> 71

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Pro Gly
 1 5 10 15
 Gln Arg Ala Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
 20 25 30
 Val Asp Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45
 Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Ala Ser Gly Val Pro Ala
 50 55 60
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn
 65 70 75 80
 Pro Val Glu Ala Asn Asp Thr Ala Asn Tyr Tyr Cys Gln Gln Thr Ile
 85 90 95
 Glu Asp Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 72
 <211> 120
 <212> PRT
 <213> chimera

<400> 72

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

15P00051wo_sequence_listing_English.txt

Ala Arg Arg Gly Tyr Tyr Gly Arg Arg Phe Phe Asp Val Trp Gly Lys
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 73
<211> 111
<212> PRT
<213> chimera

<400> 73

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Pro Gly
1 5 10 15

Gln Arg Ala Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
20 25 30

Val Asp Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
35 40 45

Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Ala Ser Gly Val Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn
65 70 75 80

Pro Val Glu Ala Asn Asp Thr Ala Asn Tyr Tyr Cys Gln Asn Thr Ile
85 90 95

Glu Asp Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 74
<211> 120
<212> PRT
<213> chimera

<400> 74

Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Thr Tyr Ser Gly Val Gly Thr Tyr Ala Gly Asp Phe
50 55 60

Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr
65 70 75 80

15P00051WO_sequence listing_English.txt

Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg Gly Phe Tyr Gly Arg Arg Phe Phe Asp Val Trp Gly Lys
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 75
<211> 120
<212> PRT
<213> chimera

<400> 75

Gln Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Ala Leu Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Thr Tyr Ser Gly Val Gly Thr Tyr Ala Gly Glu Phe
50 55 60

Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr
65 70 75 80

Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg Gly Phe Tyr Gly Arg Arg Phe Phe Asp Val Trp Gly Lys
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 76
<211> 111
<212> PRT
<213> chimera

<400> 76

Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
20 25 30

15P00051WO_sequence_listing_English.txt

Val Asp Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
35 40 45

Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Ala Ser Gly Val Pro Ser
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser
65 70 75 80

Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Thr Ile
85 90 95

Glu Asp Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 77
<211> 120
<212> PRT
<213> chimera

<400> 77

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Thr Tyr Ser Gly Val Pro Thr Tyr Ala Gly Asp Phe
50 55 60

Lys Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg Gly Tyr Tyr Gly Arg Arg Tyr Phe Asp Val Trp Gly Lys
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 78
<211> 111
<212> PRT
<213> chimera

<400> 78

Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
1 5 10 15

15P00051WO_sequence listing_English.txt

Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
20 25 30

Val Asp Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
35 40 45

Arg Leu Leu Ile Tyr Ala Ala Ser Asn Leu Ala Ser Gly Ile Pro Ala
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser
65 70 75 80

Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Thr Ile
85 90 95

Glu Asp Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 79
<211> 111
<212> PRT
<213> chimera

<400> 79

Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
20 25 30

Val Asp Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
35 40 45

Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Ala Ser Gly Val Pro Ser
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80

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

Glu Asp Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 80
<211> 111
<212> PRT
<213> chimera

<400> 80

15P00051WO_sequence listing_English.txt

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
20 25 30

Val Asp Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
35 40 45

Arg Leu Leu Ile Tyr Ala Ala Ser Asn Leu Ala Ser Gly Ile Pro Asp
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65 70 75 80

Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Thr Ile
85 90 95

Glu Asp Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105 110

<210> 81
<211> 120
<212> PRT
<213> chimera

<400> 81

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
20 25 30

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Trp Ile Asn Thr Tyr Ser Gly Val Pro Thr Tyr Ala Gly Asp Phe
50 55 60

Lys Gly Arg Phe Thr Phe Thr Leu Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg Gly Tyr Tyr Gly Arg Arg Tyr Phe Asp Val Trp Gly Lys
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 82

15P00051WO_sequence listing_English.txt

<211> 119
<212> PRT
<213> chimera

<400> 82

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met
35 40 45

Gly Gly Ile Asn Pro Tyr Tyr Gly Gly Thr Thr Tyr Asn Glu Lys Phe
50 55 60

Lys Asp Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Gly Asp Tyr Tyr Gly Gly Ser Tyr Asn Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 83
<211> 107
<212> PRT
<213> chimera

<400> 83

Glu Ile Val Met Thr Gln Ser Leu Ala Thr Leu Ser Val Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Asp Ile Ser Asn Ser
20 25 30

Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Lys Tyr Ala Ser Gln Ser Ile Ser Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro Tyr
85 90 95

15P00051WO_sequence listing_English.txt

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 84
<211> 107
<212> PRT
<213> chimera

<400> 84

Glu Ile Val Met Thr Gln Ser Leu Ala Thr Leu Ser Val Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Asp Ile Ser Asn Ser
20 25 30

Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Tyr Tyr Ala Ser Gln Ser Ile Ser Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro Tyr
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 85
<211> 107
<212> PRT
<213> chimera

<400> 85

Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Asp Ile Ser Asn Ser
20 25 30

Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
35 40 45

Lys Tyr Ala Ser Gln Ser Ile Ser Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro Tyr

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 86
<211> 119
<212> PRT
<213> chimera

<400> 86

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met
35 40 45

Gly Gly Ile Asn Pro Tyr Tyr Gly Gly Thr Thr Tyr Asn Glu Lys Phe
50 55 60

Lys Asp Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Asp Tyr Tyr Gly Gly Ser Tyr Asn Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 87
<211> 120
<212> PRT
<213> chimera

<400> 87

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Asn
20 25 30

Thr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly His Ile Asn Pro Tyr Tyr Gly Gly Thr Asn Asn Asn Glu Lys Phe
50 55 60

15P00051WO_sequence listing_English.txt

Lys Asp Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Lys Gly Ile Tyr Tyr Ser Ser Pro Phe Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 88
<211> 107
<212> PRT
<213> chimera

<400> 88

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Asn Asn Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Tyr Thr Ser Lys Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Thr Leu Pro Phe
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 89
<211> 107
<212> PRT
<213> chimera

<400> 89

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Asn Asn Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile

35

40

45

Ser Tyr Thr Ser Lys Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Arg
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Thr Leu Pro Phe
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 90
<211> 107
<212> PRT
<213> chimera

<400> 90

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Asn Asn Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Ser Tyr Thr Ser Lys Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Thr Leu Pro Phe
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 91
<211> 119
<212> PRT
<213> chimera

<400> 91

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
20 25 30

15P00051W0_sequence listing_English.txt

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ser Ile Asn Pro Tyr Tyr Gly Gly Thr Ser Tyr Asn Glu Lys Phe
50 55 60

Lys Asp Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Tyr Gly Asn Tyr Val Gly Tyr Phe Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Val Thr Val Ser Ser
115

<210> 92
<211> 106
<212> PRT
<213> chimera

<400> 92

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

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

Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
35 40 45

Tyr Thr Ser Asn Leu Ala Pro Gly Ile Pro Asp Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Phe Thr Ser Ser Pro Tyr Thr
85 90 95

Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 93
<211> 119
<212> PRT
<213> chimera

<400> 93

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
Page 30

1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30
 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Ser Ile Asn Pro Tyr Tyr Gly Gly Thr Ser Tyr Asn Glu Lys Phe
 50 55 60
 Lys Asp Arg Val Thr Ser Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Val Val Tyr Tyr Cys
 85 90 95
 Ala Arg Tyr Gly Asn Tyr Val Gly Tyr Phe Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Thr Val Thr Val Ser Ser
 115

<210> 94
 <211> 106
 <212> PRT
 <213> chimera

<400> 94

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Ser Ser Val His Tyr Met
 20 25 30
 Tyr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 35 40 45
 Tyr Thr Ser Asn Leu Ala Pro Gly Ile Pro Ala Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
 65 70 75 80
 Asp Phe Ala Val Tyr Tyr Cys Gln Gln Phe Thr Ser Ser Pro Tyr Thr
 85 90 95
 Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 95
 <211> 119

15P00051WO_sequence listing_English.txt

<212> PRT
<213> chimera

<400> 95

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Thr Ser
20 25 30
Gly Met Gly Val Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45
Trp Leu Ala His Ile Trp Trp Asn Asp Glu Lys Tyr Tyr Asn Pro Ser
50 55 60
Leu Lys Ser Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu
65 70 75 80
Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr
85 90 95
Cys Ala Arg Asp His Leu Ala Tyr Tyr Phe Asp Val Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 96
<211> 107
<212> PRT
<213> chimera

<400> 96

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 97
<211> 119
<212> PRT
<213> chimera

<400> 97

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Thr Ser
20 25 30

Gly Met Gly Val Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45

Trp Leu Ala His Ile Trp Trp Asn Asp Glu Lys Tyr Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu
65 70 75 80

Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Asp His Leu Ala Phe Tyr Phe Asp Leu Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 98
<211> 119
<212> PRT
<213> chimera

<400> 98

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Thr Ser
20 25 30

Gly Met Gly Val Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45

Trp Leu Ala His Ile Trp Trp Asn Asp Glu Lys Tyr Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu
65 70 75 80

15P00051WO_sequence listing_English.txt

Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Asp His Leu Ala Phe Phe Phe Asp Leu Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 99
<211> 119
<212> PRT
<213> chimera

<400> 99

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Ser
20 25 30

Gly Met Gly Val Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
35 40 45

Trp Leu Ala His Ile Trp Trp Asn Asp Glu Lys Tyr Tyr Asn Pro Ser
50 55 60

Leu Lys Ser Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu
65 70 75 80

Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Asp His Leu Val Phe Phe Phe Asp Leu Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 100
<211> 116
<212> PRT
<213> chimera

<400> 100

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr
20 25 30

15P00051wo_sequence_listing_English.txt

Trp Ile Ala Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Glu Ile Leu Pro Gly Ser Ala Lys Thr Lys Tyr Asn Lys Lys Phe
50 55 60

Lys Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Val Tyr Asp Tyr Gly Ala Asp Tyr Trp Gly Gln Gly Thr Thr Val
100 105 110

Thr Val Ser Ser
115

<210> 101
<211> 107
<212> PRT
<213> chimera

<400> 101

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Tyr Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Ser Ala Ser Tyr Arg Phe Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Ser Ile Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 102
<211> 107
<212> PRT
<213> chimera

<400> 102

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

15P00051WO_sequence listing_English.txt

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Tyr Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Ser Ala Ser Tyr Arg Phe Thr Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ala Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Ser Ile Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 103
<211> 107
<212> PRT
<213> chimera

<400> 103

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Tyr Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Ser Ala Ser Tyr Arg Phe Thr Gly Val Pro Ser Arg Phe Thr Gly
50 55 60

Ser Gly Ala Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Ser Ile Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 104
<211> 107
<212> PRT
<213> chimera

<400> 104

15P00051wO_sequence listing_English.txt

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Val Tyr Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Ser Ala Ser Tyr Arg Phe Thr Gly Val Pro Ser Arg Phe Thr Gly
50 55 60

Ser Gly Ala Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Ser Ile Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 105
<211> 107
<212> PRT
<213> chimera

<400> 105

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Tyr Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
35 40 45

Tyr Ser Ala Ser Tyr Arg Phe Thr Gly Val Pro Ser Arg Phe Thr Gly
50 55 60

Ser Gly Ala Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Ser Ile Pro Arg
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

<210> 106
<211> 17
<212> PRT
<213> chimera

<400> 106

Trp	Ile	Asn	Thr	Tyr	Ser	Gly	Val	Gly	Thr	Tyr	Ala	Gly	Glu	Phe	Lys
1				5				10						15	

Gly