

Figure 1A

VH3-15 Product	CDR1	CDR2
EVQLVESGGGLVQPGGSLRLSCAASGFTFSNAWMNVVRQAPGKGLEWVGRIKSKTDGGTTDYAAPVKGRFTISRDDSKNTLYL		
1.7.2 Heavy chain		
EVQLVESGGGLVQPGGSLRLSCVASGFTFTNAWMIWVRQAPGKGLEWVGRIKRKTDGGTTDYAAPVKGRFTISRDDSKNTLYL		
1.8.2 Heavy chain		
EVQLVESGGGLVQPGGSLRLSCVVS GFTFTNAWMIWVRQAPGKGLEWVGRIKRKTDGGTTDYAAPVKGRFTISRDDSKNTLYL		

VH3-15 Product	CDR3
QMSLKTEDTAVYYCTT--VA-DYWGGTGLVTVSSA	
1.7.2 Heavy chain	
QMSLKTEDTAVYYCTTGGVAEDYWGQGTGLVTVSSA	
1.8.2 Heavy chain	
QMSLKTEDTAVYYCTTGGVAEDYWGQGTGLVTVSSA	

Figure 1B

VH-3-23 Product	CDR1	CDR2
EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSAISGSGGSTYYADSVKGRFTISRDN SKNTLYLQM		
6.14.2 Heavy chain		
EVQLLESGGGLVQPGGSLRLSCAASGLTFNNSAMTWVRQAPGKGLEWVSTTSGSGGTTYADSVKGRFTISRDS SP KNTLYLQM		

VH-3-23 Product	CDR3
NSLRAEDTAVYYCAA-GYSYG-----YWGGTGLVTVSSA	
6.14.2 Heavy chain	
NSLRAEDTAVYYCAARGYSYGTTPYEYWGQGTGLVTVSSA	

Figure 1C

VH3-33 Product	CDR1	CDR2
QVQLVESGGGVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVIWDGSNKYYADSVKGRFTISRDN SKNTLYLQ		
6.22.2 Heavy chain		
QVQLVESGGGVQPGRSLRLSCAASGHTFSSDGMHWVRQAPGKGLEWVAIIWDGSNKYYADSVKGRFTISRDN SKNTLYLQ		
	CDR3	
VH3-33 Product	MNSLRAEDTAVYYCAR--- <td></td>	
6.22.2 Heavy chain	MNSLRAEDTAVYYCARDPGYYYGMDVWGQGT	

Figure 1D

VH3-30 Product	CDR1	CDR2
QVQLVESGGGVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISYDGSNKYYADSVKGRFTISRDN SKNTLYLQ		
6.34.2 Heavy chain		
QVQLVESGGGVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISNDGNNKYYADSVKGRFTISRDN SKNTLYLQ		
	CDR3	
VH3-30 Product	MNSLRAEDTAVYYCAR--TVVTYYYGMDVWGQGT	
6.34.2 Heavy chain	MNSLSAEDTAVYYCARDSTAITYYYYGMDVWGQGT	

Figure 1E

VH4-4 Product	<div>CDR1</div> <div>QVQLQESGPGLVKPSSETLSLTCTVSGGSISSYYW<u>SWIRQ</u>PAGKGLEWIGRIYTSGSTNYPNPSLKSRVTMSVDTSKNQFSLKL</div>	<div>CDR2</div> <div>QVQLQESGPGLVKPSSETLSLTCTVSGD<u>SISSNYW</u><u>SWIRQ</u>PAGKGLEWIGRIYTSGGTNSNP<u>SLRGRVTIL</u>ADTSKNQFSLKL</div>
6.67.1 Heavy chain		

VH4-4 Product	<div>CDR3</div> <div>SSVTAADTAVYYCAR--ITMVRGVI--FDYWGGQGLVTIVSSA</div>
6.67.1 Heavy chain	<div>CDR1</div> <div>SSVTAADTAVYYCARD<u>RIITIRGLIP</u>SFDDYWGGQGLVTIVSSA</div>

Figure 1F

VH3-23 Product	<div>CDR1</div> <div>EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSAISGSGGTTYADSVKGRFTISRDNSKNTLYLQ</div>	<div>CDR2</div> <div>EVQLLESGDILVQPGGSLRLSCAASGFTFRSYAMN<u>WVRQAPGKGLEWVS</u>ISCRGGTTYADSVKGRFTISRDNSKNTLYLQ</div>
6.73.2 Heavy chain		

VH3-23 Product	<div>CDR3</div> <div>MNSLRAEDTAVYYCA-IAVA---YYYYGMDVWGQGTIVTVSSA</div>
6.73.2 Heavy chain	<div>CDR1</div> <div>MNSLRAEDAAVYYCAKIAVAGEGLYYYYYGM<u>MDVWGQGTIVTVSSA</u></div>

Figure 1G

VH3-21 Product

EVQLVESGGGLVKPGGSLRLSCAASGFTFSSYSMNWVRQAPGKGLEWVSSISSSSSYIYYADSVKGRFTISRDNAKNSLYLQMN

6.77.1 Heavy chain

EVQLVESGGGLVKPGGSLRLSCAASGFTFSSYSMNWVRQAPGKGLEWVSSISSSSSYIYYADSVKGRFTISRDNAKNSLYLQMN

CDR1

CDR2

VH3-21 Product

SLRAEDTAVYYCAR-GYSSGW-YYYYYGMVDVWGQGTITVTVSSA

6.77.1 Heavy chain

SLRAEDTAVYYCARDGYSSGWSYYYYYGMVDVWGQGTITVTVSSA

CDR3

Figure 1H

VH1-18 Product

QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYGISWVRQAPGQGLEWMGWI SAYNGNTN~~Y~~AQKLGQGRVTMTTDTSTAYME

7.16.6 Heavy chain

QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYGINWVRQAPGQGLEWMGWI~~S~~VYSGNTN~~Y~~AQKVQGRVTMTADTSTAYMD

7.26.4 Heavy chain

QVQLVQSGAEVKKPGASVKVSC~~E~~ASGYTFTSYGIDWVRQAPGQGLEWMGWI~~S~~VYSGNTN~~Y~~AQKLGQGRVTMTSTDTSTAYME

CDR1

CDR2

VH1-18 Product

LRSLRSDDTAVYYCAR--SSSS--YYYYGMDVWGQGTITVTVSSA

7.16.6 Heavy chain

LRSLRSDDTAVYYCAR~~E~~GGSSSSG~~D~~YYYYGMDVWGQGTITVTVSSA

7.26.4 Heavy chain

LRSLRSDDTAVYYCAR~~E~~GGSSSSG~~D~~YYYYGMDVWGQGTITVTVSSA

CDR3

Figure 1I

VH4-4 Product
QVQLQESGPGLVKPSSETLSLTCTVSGGSISSYYWSWIRQPAKGLEWIGRIYTSGSTNYPNPSLKSRVTMSVDTSKNQFSLKLSS
7.20.5 Heavy chain
QVQLQESGPGLVKPSSETLSLTCTVSGGSISSYHWNWIRQPAKGLEWIGRIYTSGSTNYPNPSLKSRVTMSLDTSKNQFSLKLSS

CDR1
CDR2

VH4-4 Product VTAADTAVYYCAR----YYGSGS-YYGMDVWGQGTITVTVSSA
7.20.5 Heavy chain VTAADTAVYYCAREGVRYYYASGSYYYGLDVWGQGTITVTVSSA

CDR3

Figure 1J

VH3-33 Product
QVQLVESGGGVQPGRSRLRLSCAASGFTFSSYGMHWVRQAPGKLEWVAVIWDGSKNKYYADSVKGRFTISRDN
9.8.2 Heavy chain
QVQLVESGGGVQPGRSRLRLSCAASGFTFSSYGMHWVRQAPGKLEWVAVIWDGSNEYADSVKGRFTISRDN

CDR1
CDR2

VH3-33 Product SKNTLYLQMNSLRAEDTAVYYCA----FDYWGGQGLVTVSSA
9.8.2 Heavy chain SKNTLYLQMNSLRAEDTAVYYCARGAYHFAYWGQGLVTVSSA

CDR3

Figure 1K

A3 Product		
1.7.2 Kappa chain	CDR1	CDR2
1.8.2 Kappa chain		
A3 Product		
1.7.2 Kappa chain	CDR3	
1.8.2 Kappa chain		

Figure 1L

O12 Product		
6.14.2 Kappa chain	CDR1	CDR2
O12 Product		
6.14.2 Kappa chain	CDR3	

Figure 1M

A26 Product		
6.22.2 Kappa chain	CDR1	CDR2
A26 Product		
6.22.2 Kappa chain	CDR3	

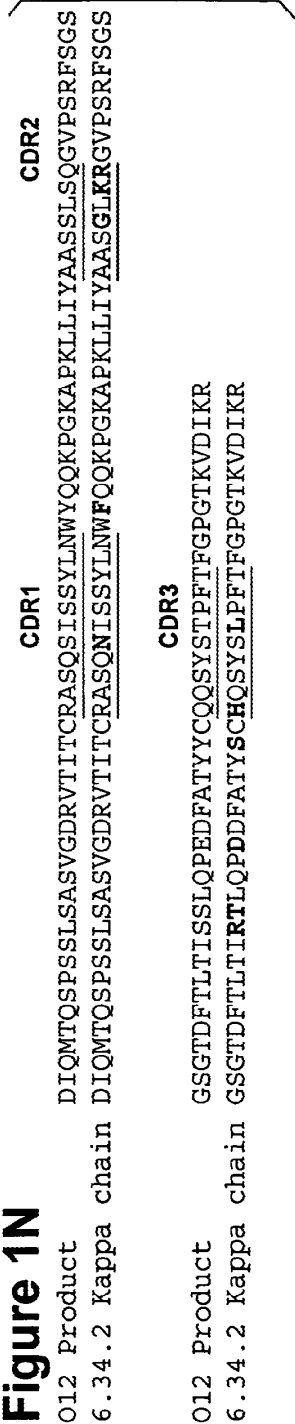
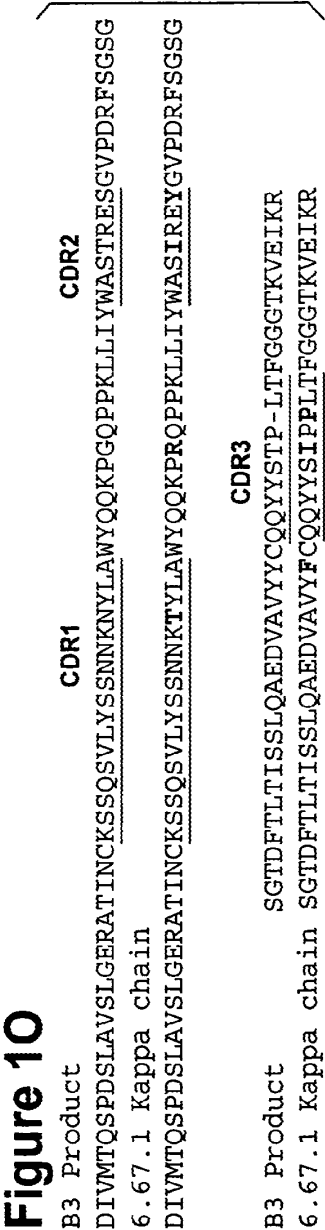


Figure 1P

	CDR1	CDR2
O12 Product	DIQMTQSPSSLSASVGDRTVITCRASQSISSYLNWYQQKPKAPKLLIYAASSLQSGVPSRFSGSGS	
6.73.2 Kappa chain	DIQMTQSPSSLSASVGDRTVITCRASQNI <u>TNYLNWYQQKPKAPKLLIYAASSLPRGVP</u> SRFRGSGS	
O12 Product	GTDFTLTISSSLQPEDFATYYCQQSYSTP----	FGQGTTLDIKR
6.73.2 Kappa chain	GTDFTLTISSSLQPEDFATYYCQQSYSN <u>PECGFG</u> GTTLDIKR	

Figure 1Q

	CDR1	CDR2
A2 Product	DIVMTQTPLSLSVTPGPASISCKSSQSLHSDGKTYLWYLQKPGQPPQLLIYEVS	NRFSGVPDRFSGS
6.77.1 Kappa chain	DIVMTQTPLSLSVTPGPASISCKSSQSLHSDGKTYLWYLQKPGQPPQLLIYEVS	NRFSGVPDRFSGS
A2 Product	GS	GTDFTLKISRVEAEDVGYYCMQSIQL--FGQGTKLEIKR
6.77.1 Kappa chain	GS	GTDFTLKISRVEAEDVGYYCMQSIQL <u>MCSFG</u> GTGTKLEIKR

Figure 1R

	CDR1	CDR2
A2 product	DIVMTQTPLSLSVTPGPASISCKSSQSLHSDGKTYLWYLQKPGQPPQLLIYEVS	NRFSGVPDRFSGS
7.16.6 Kappa chain	DIVMTQTPLSLSVTPGPASISCKSSQSLHSDGKTYLWYLQKPGQPPQLLIYEVS	NRFSGVPDRFSGS
7.26.4 Kappa chain	DIVMTQTPLSLSVTPGPASISCKSNQSLLYSDGKTYLFWYLQKPGQPPQLLIYEVS	NRFSGVPDRFSGS
A2 product	GS	GTDFTLKISRVEAEDVGYYCMQSIQLPWTFGQGTKVEIKR
7.16.6 Kappa chain	GS	GTDFTLKISRVEAEDVGYYCMQNIQLPWTFGQGTKVEIKR
7.26.4 Kappa chain	GS	GTDFTLKISRVEAEDVGYYCMQSIQLPWTFGQGTKVEIKR

Figure 1S

A3 Product	CDR1	CDR2
7.20.5 Kappa chain	DIVMTQSP LS LPVTPGEPASISCRSSQSL LL HGNGYNYLDWYLQKPGQSPQ LL IYLGSNRASGV PD RFSG	
	DIVMTQSP LS LPVTPGEPASISCRSSQSL LL HGNGYNYLDWYLQKPGQSPQ LL IYLGSNRASGV PD RFSG	
A3 Product	CDR3	
7.20.5 Kappa chain	SGSGTDFTLKISRVEAEDVGVY Y CMQALQTLTFGGG TK VEIKR	
	SGSGTDFTLKISRVEAEDVGVY Y CMQALQTLTFGGG TK VEIKR	

Figure 1T

O18 Product	CDR1	CDR2
9.8.2 Kappa chain	DIQMTQSP SS LSASVGD RV TTTCQASQD IS NYLNWYQQKPGKAPK LL IYDASNLETGV PS RFSGS	
	DIQMTQSP SS LSASVGD RV TTTCQASQD IS NYLNWYQQKPGKAPK LL IYDASNLETGV PS RFSGS	
O18 Product	CDR3	
9.8.2 Kappa chain	SGGTDFTFTISSLPQED IA TY Y CCQYDNL-ITFGQ TR LEIKR	
	SGGTDFTFTISSLPQED IA TY Y CCQ HS DNL SI TFGQ TR LEIKR	

Figure 2A (cont.)

6.34.2	--LNWFQQKPGKAPKLLIYAASGLKRGVPSRFSGSGSGTDFTLTIRTLPDDFATYSCHQ
6.73.2	--LNWYQQKPGKAPKLLIYAASSLPRGVPSRFRGSGSGTDFLTITISLQPEDFATYYCQQ
6.14.2	--LNWYQQKPGKAPKVLIFVSSLSQSGVPSRFSGSGSGTDFTLTISLQPEDFATYYCQQ
9.8.2	--LNWYQQKPGKAPKLLIYDASNLETGVPSRFSGSGSGTDFFTTISLQPEDIATYSCQH
6.22.2	--LHWYQQKPDQSPKLLIKYASQSFSGVPSRFSGSGSGTNFTLTINGLEAEADAATYYCHQ
	* *: *** :.*:*** * ***.*** *****;***:.* :::.* . * * :
1.7.2	ALQT---ITFGQGTRLEIKR
1.8.2	ALQT---ITFGQGTRLEIKR
7.20.5	ALQT---LTFGGGTKVEIKR
7.16.6	NIQLP--WTFGGGTKVEIKR
7.26.4	SIQLP--WTFGGGTKVEIKR
6.77.1	SIQLM--CSFGGQTKLEIKR
6.67.1	YYSIPP-LTFGGGTKVEIKR
6.34.2	SYSLP--FTFGPGTKVDIKR
6.73.2	SYSNPPEGFGGQTLDIKR
6.14.2	NYIPP--ITFGQGTRLEIRR
9.8.2	SDNLS--ITFGQGTRLEIKR
6.22.2	SGRLP--LTFGGGTKVEIKR
	** ** *::*:*

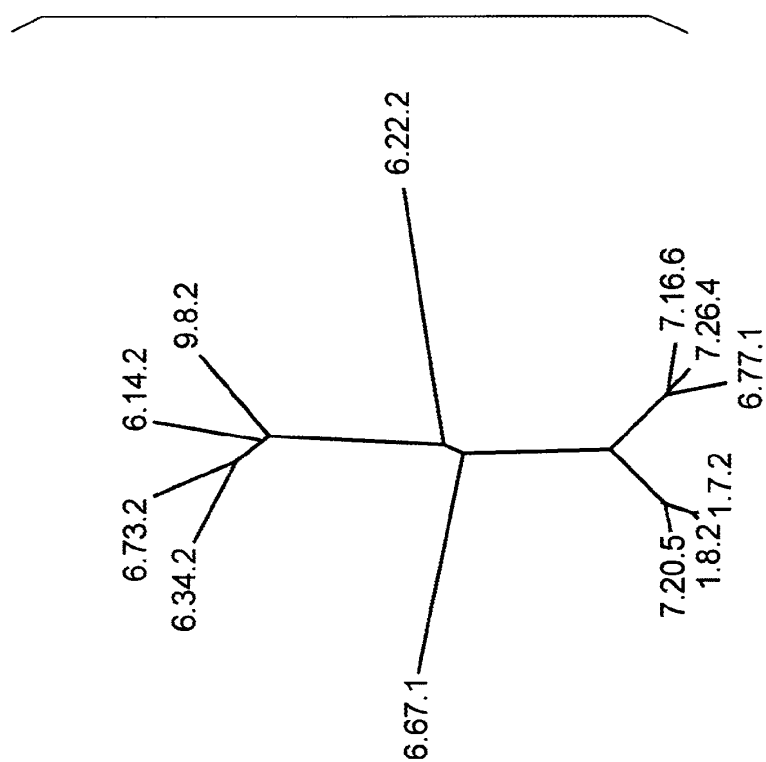
Figure 2A (cont.)

Figure 2B

7.16.6	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYGINNVRQAPGQGLEWMGWIS--VYSGNT
7.26.4	QVQLVQSGAEVKKPGASVKVSCHASGYTFTSYGIDWVRQAPGQGLEWMGWIS--VYSGNT
1.1.7.2	EVQLVESGGGLVKPAGSLRLSCVASSGFTFNAMTIWVRQAPGKGLIEWVGRIKRKTDDGGTT
1.1.8.2	EVQLVESGGGLVKPAGSLRLSCVVSGFTTNAMTIWVRQAPGKGLIEWVGRIKRKTDDGGTT
6.14.2	EVQLLESGGGLVQPGSLLRSCAASGLTFNNSAMTWVRQAPGKGLIEWSTTS--GSGGTT
6.73.2	EVQLLESGGDLVQPGSLLRSCAASGFTFRSYAMNWVRQAPGKGLIEWSVIS--GRGGTT
6.77.1	EVQLVESGGGLVKPAGSLRLSCAASGFTFSYSNMNVWRQAPGKGLIEWSSIS--SSSSYI
6.22.2	QVQLVESGGGVVQPRSLRLSCAASGHFTSSDGMHWVRQAPGKGLIEWVAIIW--YDGSNK
6.34.2	QVQLVESGGGVVQPRSLRLSCAASGFTFESSYGHHWVRQAPGKGLIEWAVIS--NDGNKK
9.8.2	QVQLVESGGGVVQPRSLRLSCAASGFTFSSYGMHWWVRQAPGKGLIEWAVIW--YDGSNE
7.20.5	QVQLQESGPGLVKPSETLSLTCTIVSGSSISSHWNWIRQPAGKGLIEWIGRIY---TSGST
6.67.1	QVQLQESGPGLVKPSETLSLTCTIVSGDSISSNYMSWIRQPAGKGLIEWIGRIY---TSGGT :***;** :*: :: **: ** :: . *:*.*:****;
7.16.6	NYAQKVQGRVTMTADTSTSTAAMDLSLRSDDTA VVYCAREG-SS--SSGDYYYGMDVMWG
7.26.4	NYAQKLQGRVTMTDSTSTSTAFFLLRLSLRSDDTA VVYCAREG-SS--SSGDYYYGMDVMWG
1.1.7.2	DYAAPVKGRFTISRDDSKNITLYLQMNSLKTEDTA VVYCTTGG-----VAEDY-----WG
1.1.8.2	DYAAPVKGRFTISRDDSKNITLYLQMNSLKTEDTA VVYCTTGG-----VAEDY-----WG
6.14.2	YYADSVKGRFTISRDSPKNTLYLQMNSLRAEDTA VVYCAARG--YSYGTTPYEY-----WG
6.73.2	YYADSVKGRFTISRDN SKNTLYLQMNSLRAEDAA VVYCAKIA-VAGEGLYYYYG-MDVMWG
6.77.1	YYADSVKGRFTISRDN AKNSLYLQMNSLRAEDTA VVYCARDG-YSSCWSYYYYYGM DVMWG
6.22.2	YYADSVKGRFTISRDN SKNTLYLQMNSLRAEDTA VVYCARD-----PGYYYG-MDVMWG
6.34.2	YYADSVKGRFTISRDN SKNTLYLQMNSLSAEDTA VVYCARDS-TA--ITYYYYG-MDVMWG
9.8.2	YYADSVKGRFTISRDN SKNTLYLQMNSLRAEDTA VVYCARG-----AYH-FAYWG
7.20.5	NYNP SLKSRTM SLDTSKNQFSLKLS SVTAA DTAVVYCAREGVRYYYYASGSYYYGLDVMWG

Figure 2B (cont.)

6.67.1	NSNPSLRGRVTILADTSKNQFSLKLSVTAADTAVYYCARD--RITIIIRGLIPSFDDYWG :..*.*: * ... : : * : * : *****; **
7.16.6	QGTTVTVSSA
7.26.4	QGTTVTVSSA
1.7.2	QGTTLVTVSSA
1.8.2	QGTTLVTVSSA
6.14.2	QGTTLVTVSSA
6.73.2	QGTTVTVSSA
6.77.1	QGTTVTVSSA
6.22.2	QGTTVTVSSA
6.34.2	QGTTVTVSSA
9.8.2	QGTTLVTVSSA
7.20.5	QGTTVTVSSA
6.67.1	QGTTLVTVSSA *** *****

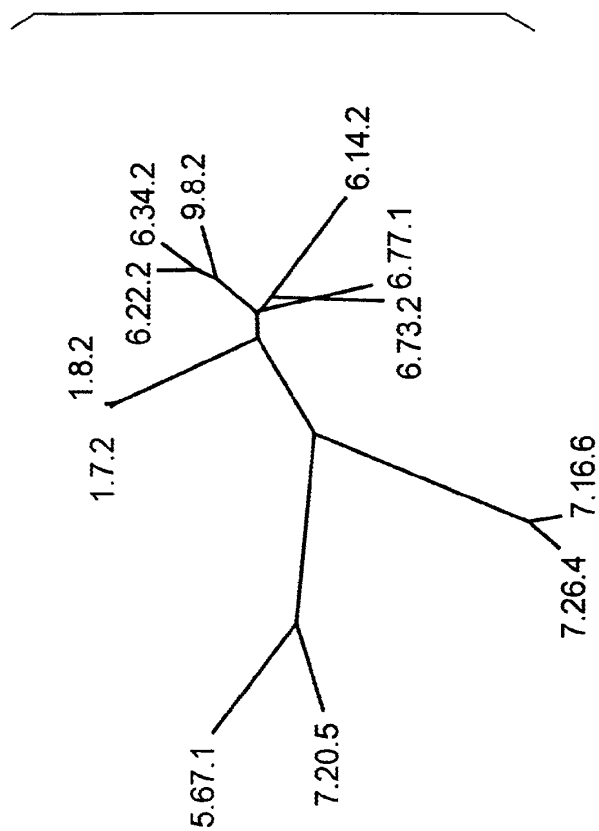
Figure 2B (cont.)

Figure 3

Domain 1	
cyno MadCAM	
human MadCAM	
cyno MadCAM	
human MadCAM	
Domain 2	
cyno MadCAM	
human MadCAM	
cyno MadCAM	
human MadCAM	

A

A'

B

MDRGLALLIAGLLGLLQPGCGQSLQVKPLQVEPPEPVVAVALGASRQLTCLD CADGGAT

MDFGLALLIAGLLGLLL--GQSLQVKPLQVEPPEPVVAVALGASRQLTCLACADRGAS

** *****

C

D

E

F

G

VQWRGLDTSLGAVQSDAGRSVLTVRNASLSAAGTRVCVGCGRGRTFQHTVRLLVYAFPDQ

VQWRGLDTSLGAVQSDTGRSVLTVRNASLSAAGTRVCVGCGRGRTFQHTVQLLVYAFPDQ

*****;

A

A'

B

C

C'

D

LTISPAALVPGDPEVACTAHKVTVPDPNALSFSLLLGDOELEGQAQALGPEVEVEEEE-PQE

LTVSPAALVPGDPEVACTAHKVTVPDPNALSFSLLVGGQELEGQAQALGPEVQEEEEEPQG

** *****;

E

F

G

EEDVLFRTVTERWRLPTLATPVLPALYCQATMRLPGLELSHRQAI PVLH

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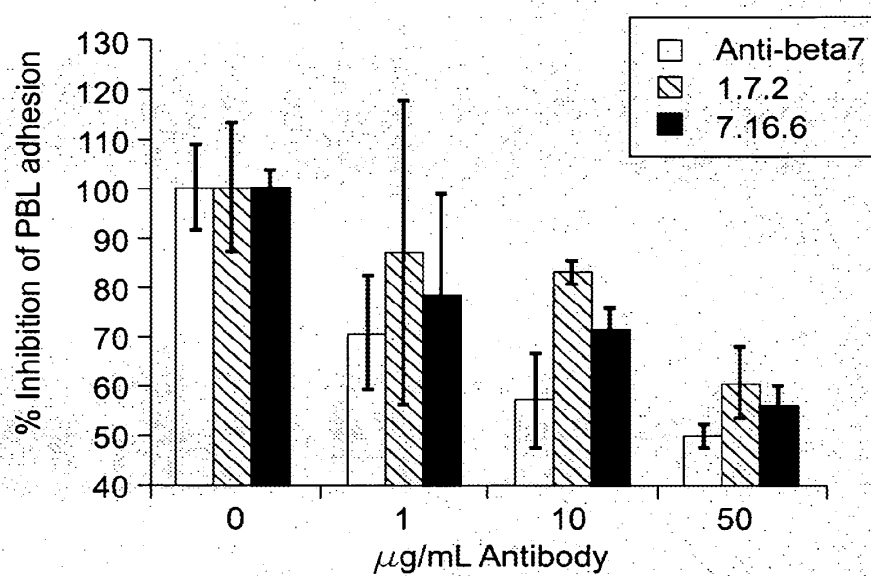
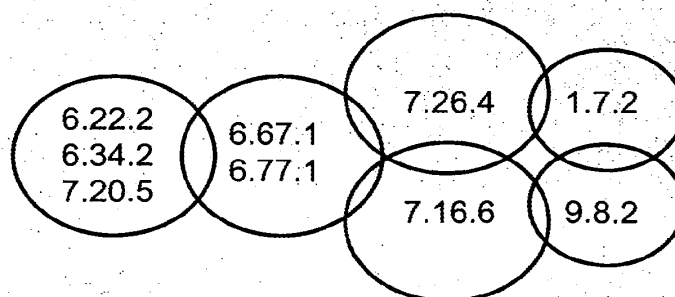
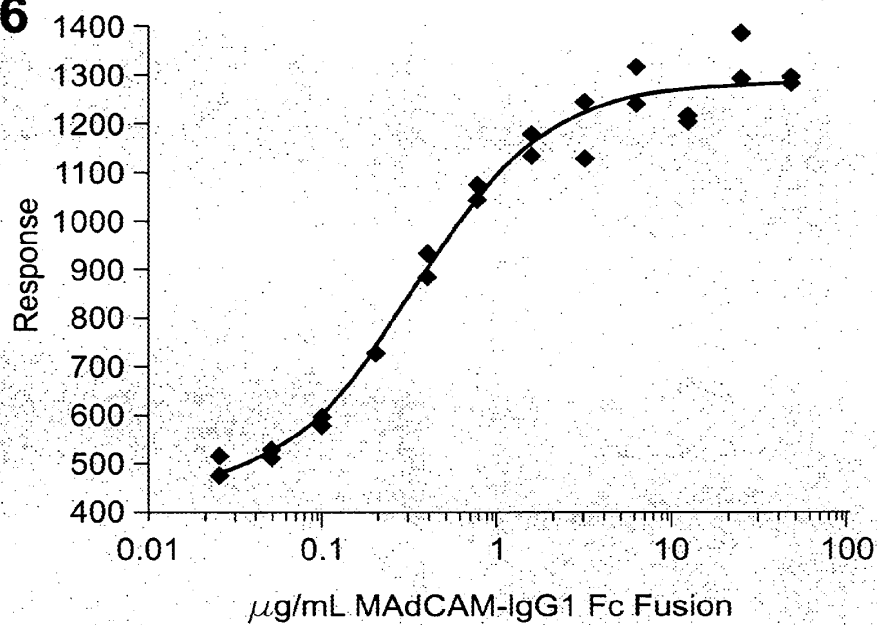
Figure 4**Figure 5**

Figure 6**Figure 7**