

Figure 1

SEQUENCE ID NO: 1

	40	50	60
MDTSR LGVLL SLPVL LQLAT GGSSP RSGVL LRGCP THCHC EPDGR MLLRV DCSDL GLSEL			
	90	100	110
PSNLS VFTSY LDLSM NNISQ LLPNP LPSLR FLEEL RLAGN ALTYI PKGAF TGLYS LKVLM			
			180
LQNNQ LRHVP TEALQ NLRSL QSLRL DANHI SYVPP SCFSG LHSLR HLWLD DNALT EIPVQ			
			240
AFRSL SALQA MTLAL NKIHH IPDYA FGNLS SLVVL HLHNN RIHSL GKKCF DGLHS LETLD			
			300
LNYYN LDEFP TAIRT LSNLK ELGFH SNNIR SIPEK AFVGN PSLIT IHFYD NPIQF VGRSA			
			360
FQHLP ELRTL TLNGA SQITE FPDLT GTANL ESLTL TGAQI SSLPQ TVCNQ LPNLQ VLDLS			
			420
YNLLE DLPSF SVCQK LQKID LRHNE IYEIK VDTFQ QLLSL RSLNL AWNKI AIIHP NAFST			
			480
LPSLI KDLDS SNLLS SFPIT GLHGL THLKL TGNHA LQSLI SSENF PELKV IEMPY AYQCC			
			540
AFGVC ENAYK ISNQW NKGDN SSMDL LHKKD AGMFQ AQDER DLEDF LLDLF EDLKA LHSVQ			
			600
CSPSP GPFPK CEHLL DGWLI RIGVW TIAVL ALTCN ALVTS TVFRS PLYIS PIKLL IGZIA			
			660
AVNML TGVSS AVLAG VDAFT FGSFA RHGAW WENGW GCHVI GFLSI FASES SVFLL TLAAL			
			720
ERGFV VKYSA KFETK APFSS LKVII LLCAL LALTM AAVPL LGGSK YGASP LCLPL PFGEF			
			780
STMGY MVALI LLNSL CFLMM TIAYT KLYCN LDKGD LENIW DCSMV KHIAL LLFTN CILNC			
			840
PVAFV SFSSL INLTF ISPEV IKFIL LVVVP LPACL NPLLY ILFNP HFKED LVSLR KQTYV			
			900
WTRSK HPSLM SINSQ DVEKQ SCDST QALVT FTSSS ITYDL PPSSV PSPAY PVTES CHLSS			
VAFVP CL			

Figure 2

Sequence ID NO: 2

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                                30          40          50
MRPSG TAGAA LLALL AALCP ASRAL EEKKV CQGTS NKLTQ LGTFE DHFLS
                                100
LQRMF NNCEV VLGNL EITYV QRNYD LSFLK TIQEV AGYVL IALNT VERIP
LENLQ IIRGN MYZEN SYALA VLSNY DANKT GLKEL PMRNL QEILH GAVRF
                                200
SNNPA LCNVE SIQWR DIVSS DFLSN MSMDF QNHLG SCQKC DPSCP NGSCW
GAGEE NCQKL TKIIC AQQCS GRCRG KSPSD CCHNQ CAAGC TGPRE SDCLV
                                300
CRKFR DEATC KDTCP PLMLY NPTTY QMDVN PEGKY SFGAT CVKKC PRNYV
VTDHG SCVRA CGADS YEMEE DGVRK CKKCE GPCRK VCNGI GIGEF KDSL S
                                400
INATN IKHFK NCTSI SGDLH ILPVA FRGDS FTHTP PLDPQ ELDIL KTVKE
ITGFL LIQAW PENRT DLHAF ENLEI IRGRT KQH GQ FSLAV VSLNI TSLGL
                                500
RSLKE ISDGD VIISG NKNLC YANTI NWKKL FGTSG QKTKI ISNRG ENSCK
ATGQV CHALC SPEGC WGPEP RDCVS CRNVS RGREC VDKCN LLEGE PREFV
                                600
ENSEC IQCHP ECLPQ AMNIT CTGRG PDNCI QCAHY IDGPH CVKTC PAGVM
GENNT LVWKY ADAGH VCHLC HPNCT YGCTG PGLEG CPTNG PKIPS IATGM
                                700
VGALL LLLVV ALGIG LFMRR RHIVR KRTL RLLQE RELVE PLTPS GEAPN
QALLR ILKET EFKKI KVLGS GAFGT VYKGL WIPEG EKVKI PVAIK ELREA
                                800
TSPKA NKEIL DEAYV MASVD NPHVC RLLGI CLTST VQLIT QLMPF GCLLD
YVREH KDNIG SQYLL NWC VQ IAKGM NYLED RRLVH RDLAA RNVLV KTPQH
                                900
VKITD FGLAK LLGAE EKEYH AEGGK VPIKW MALES ILHRI YTHQS DVWSY
GVTWV ELMTF GSKPY DGIPA SEISS ILEKG ERLPQ PPICT IDVYM IMVKC
                                1000
WMIDA DSRPK FRELI IEF SK MARDP QRYLV IQGDE RMHLP SPTDS NFYRA
LMDEE DMDDV VDADE YLIPQ QGFFS SPSTS RTPLL SSLSA TSNNS TVACI
                                1100
DRNGL QSCPI KEDSF LQ RYS SDPTG ALTED SIDDT FLPVP EYINQ SVPKR
PAGSV QNPVY HNQPL NPAPS RDPHY QDPHS TAVGN PEYLN TVQPT CVNST
                                1200
FDSPA HWAQK GSHQI SLDNP DYQQD FFPKE AKPNG IFKGS TAENA EYLRV
APQSS EFIGA

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Figure 3 a)

SEQ ID NO:	MF	Target	VH
3	3370	EGFR	QVQLVQSGAEVKKPGASVKVCKKASGYTFTSYGISWVRQAPGGQGLEWMGMWISAYNGNTNYYAQKLQGRVTMTTDTSTSTAYMELRSLRSDDTAVYYCAKDRHWHWWLDAFDYWGQGTLVTVSS
4	3755	EGFR	QVQLVQSGSELKKPGASVKISCKKASGYDFTNYAMNWRQAPGHGLEWMGMWINANTGDPITYAQQGFTGRFVFSLDTSVSTAYLQISSLKAEDSAVYYCTRERFLEWLHFDYWGQGTLVTVSS
5	4280	EGFR	QVQLVQSGAEVKKPGASVKVCKVSGYTLTELSMHWVRQAPGKGLEWMGGFDPEYGKTFFAQNFQGRVTMTEDTSDATAYMELSSLRSEDTAVYYCATEGYYETTTTYYYNLFDSWGQGTLVTVSS
6	4289	EGFR	QVQLVQSGSELKKPGASVKVCKTSGYTFDTDYAMTWVRQAPGGQGLEWMGMWITNTGDPITYAPGFTGRFVFSLDTSVSTAYLQISSLKAEDTAVYYCARVYHWIRGFEFWGQGTLVTVSS
7	5790	LGR5	QVQLQESGPGLVKPSSETLSLTCTVSGGSFSSSSSYWGWIRQPPGKGLEWIGSFYYSNGNTYYNPSLKSRTISEDTSKNQFSLKLSSVTAADTAVYYCARQTYSSSWDGVLYYFDYWGQGTLVTVSS
8	5803	LGR5	QVQLQESGPGLVKPSSETLSLTCTVSNNGSISTYYYSWIRQPPGKGLEWIGYVYVYTGRTKYNPSLKSRRVTISVDTSKNQFSLNLSVTAADTAVYYCARGGIVVPAARDYVYYMDVWGKGTTVTVSS
9	5805	LGR5	EVQLVQSGAEVKKPGESLKIACKGSGFSFTSHWIGWVRQKPGRGLEWMGVYPGDSDTRYSPSPFQGGVTVSADKSINTAYLQWNSLKSADTAIYYCARPNSGSPRYFEFWGRGTLVTVSS

Figure 3 a) cont.

10	5808	LGR5	QVQLVQESGPGLVKPSSETLSLTCTVSGGSISSSYWGWIRQPPGKGLEWIGSFYSGNTYYNPSLK SRVTISVDTSKNQFSCLKLSSVTAADTAVYYCARQEYYGSGSPSYFDYWGGGTLTVSS
11	5809	LGR5	EVQLVQSGAEVKKPGESLKISKCKSGSDSFISHWIAWVRQMPGKGLEWMGIVYPGSDSDTRYSPSFQ GQVTISADKSIITAYLQWSSSLKASDTAMYYCARHEWELLGPFIDYWGGGTLTVSS
12	5814	LGR5	EVQLVQSGAEVKKPGSSVKVSCKASGGTSTNDAISWVRQTPGQGLEWMGSIIPILDITTDHAQKFQ GRVTITADKSTNTAYMELNSLRSDDTAVYYCAREHIAARQDYFDYWGGGTLTVSS
13	5816	LGR5	EVQLVQSGSKLKKPGASVKVSCKASGYTFTSYTMNWNVRQAPGQGLEWMGWINTDITGDPITYAQQ FTGRFVFSLDTSVSTAFLLQINSLKAEDTAVYYCARGDCDSTSCYRYSYGYEDYWGGGTLTVSS
14	5817	LGR5	QVQLVQSGAEVKKPGSSVKVSCKVSGGTFRSYAISWVRQAPGQGLEWMGGIIPIFDTRNYAQILQQ RVTITADLSTSTAYMELNSLRSEDTAIYYCARGSDGDFDPWGGGTLTVSS
15	5818	LGR5	EVQLVQSGTEVRKPGSSVKVSCKASGGTFSNYAISWVRQAPGQGLEWMGSIIPILGTTDHAQKFQ DRVTTITADKSSNTTYMELSSLRSDDTAVYYCAREYIAARLDYFDSWGGGTLTVSS

Figure 3 b)

MF	Target:	SEQ ID Nos	FW1	CDR1	FW2	CDR2	FW3	CDR3	FW4
3370	EGFR	16-22	QVQLVQSGAEVKKPG ASVKVSCKASGYTFT	SYGIS	WVRQAPGGLEW MG	WTSAYNGNTNYA QKLG	RVMTMTDTSTSTAYNELR SLRSDDTAVYYCAK	DRHHWLDLF DY	WGQGTLLV VSS
3755	EGFR	23-29	QVQLVQSGSELKKPG ASVKISCKASGYDFT	NYAMN	WVRQAPGHG LEWMG	WINANTGDP YAQGFTG	RFVFSLDTSVSTAYLQ ISSILKAEDSAVYYCTR	ERFLEWLHF DY	WGQGTLL VTSS
4280	EGFR	30-36	QVQLVQSGAEVKKPG ASVKVSCKVSQGYTLT	ELSMH	WVRQAPGKG LEWMG	GFDPEYGKTF FAQNFQG	RVMTMTEDTSADTAYM ELSSLRSEDTAVYYCA T	EGYYETTY YYNLFDS	WGQGTLL VTSS
4289	EGFR	37-43	QVQLVQSGSELKKPG ASVKVSCKTSQGYTFT	DYAMT	WVRQAPGQG LEWMG	WITNTGDP YAPGFTG	RFVFSLDTSVSTAYLQ ISSILKAEDTAVYYCAR	VYHWIRGFE F	WGQGTLL VTSS
5790	LGR5	44-50	QVQLQESGPGLVKPS ETLSLTCTVSGGSFS	SSSSYWG	WIRQPPGKGL EWIG	SFYYSNGNTYY NPSLKS	RVTISEDTSKNQFSLK LSSVTAADTAVYYCA R	QTYSSWDG VLYYFDY	WGQGTLL VTSS
5803	LGR5	51-57	QVQLQESGPGLVKPS ETLSLTCTVSNNGSIS	TYYS	WIRQPPGKGL EWIG	YVYYTGRTKY NPSLKS	RVTISVDTSKNQFSLN LSSVTAADTAVYYCA R	GGIVVVPAA RDYYYYMDV	WGKGT VTSS
5805	LGR5	58-64	EVQLVQSGAEVKKPG ESLKIACKGSGFSFT	SHWIG	WVRQKPGRG LEWMG	VYTPGDSDR YSPSFQG	QVTVSADKKSINTAYL QWNSLKASDTAVYYC AR	PNSGSPRYF EF	WGRGTLL VTSS
5808	LGR5	65-71	QVQLQESGPGLVKPS ETLSLTCTVSGGSIS	SSSYWG	WIRQPPGKGL EWIG	SFYYSNGNTYY NPSLKS	RVTISVDTSKNQFSLK LSSVTAADTAVYYCA R	QEYYYSGS PSYYFDY	WGQGTLL VTSS

Figure 3 b) cont.

5809	LGR5	72-78	EVQLVQSGAEVKKPG ESLKISCKGSGDSFI	SHWIA	WVRQMPGKG LEWMG	IVYPGSDTR YSPSFQG	QVTISADKSITTAYLQ WSSLKASDTAMYYCA R	HEWELLGPF DY	WGQGTLL VTVSS
5814	LGR5	79-85	EVQLVQSGAEVKKPG SSVKVSCKASGGTST	NDAIS	WVRQTPGQG LEWMG	SHIPLDTTDH AQKFQG	RVTTADKSTNTAYM ELNSLRSDDDTAVYYC AR	EHIARQDY FDY	WGQGTLL VTVSS
5816	LGR5	86-92	EVQLVQSGSKLKKPG ASVKVSCKASGYTFT	SYTMN	WVRQAPGQG LEWMG	WINTDTGDPT YAQFTG	RFVFSLDTSVSTAFLLQ INSLKAEDETAIVYYCA R	GDCDSTCY RYSYGYEDY	WGQGTLL VTVSS
5817	LGR5	93-99	QVQLVQSGAEVKKPG SSVKVSCKVS GGTFR	SYAIS	WVRQAPGQG LEWMG	GIPIFDTRNY AQILQG	RVTTADLSTSTAYME LNSLRSEDTAIYYCAR	GSDEGDWFD P	WGQGTLL VTVSS
5818	LGR5	100- 106	EVQLVQSGTEVRKPG SSVKVSCKASGGTFS	NYAIS	WVRQAPGQG LEWMG	SHIPLDTTDH AQKFQD	RVTTADKSSNTTYM ELSSLRSDDDTAVYYC AR	EYIAARLDYF DS	WGQGTLL VTVSS

Figure 3 c)

MF1337: Sequence ID NO: 107

gaggtgcagctggtggagactggggctgaggtgaagaagccggggcctcagtgaaggtctcctgcaagg
cttctgactacatcttcaccaaatatgacatcaactgggtgcgcagggccctggacaagggcttgaatg
gatgggatggatgagcgctaactggaaacacgggctatgcacagaagtccagggcagagtcaccatg
accagggacacgtccataaacacagcctacatggagctgagcagcctgacatctggtgacacggccgtt
atttctgtgcgaggagtagtcttttcaagacagagacggcgccctactatcacttcgctctggacgtctg
gggccaagggaccacggtcaccgtctccagt

MF3370: Sequence ID NO: 108

caggttcagctggtgcagctctggagctgaggtgaagaagcctggggcctcagtgaaggtctcctgcaagg
cttctggttacacctttaccagctatggtatcagctgggtgcgacagggccctggacaagggcttgagt
gatgggatggatcagcgcttacaatggtaacacaaactatgcacagaagctccagggcagagtcaccatg
accacagacacatccacgagcacagcctacatggagctgaggagcctgagatctgacgacacggctgtg
attactgtgcaaaagatcgctattggcattggtggctggacgcctttgattattggggccaaggtaccct
ggtcaccgtctccagt

MF3755: Sequence ID NO: 109

caggtgcagctggtgcagctctgggtctgagttgaagaagcctggggcctcagtgaagatttctgcaagg
cttctggatacgaacttactaactatgctatgaattgggtgcgacagggccctggacacgggcttgagt
gatgggatggatcaacccaacactggggaccaacgtatgccagggttcacaggacggtttgtcttc
tccttgacacctctgtcagcacggcatactgcagatcagcagtttaaaggctgaggactctgccgtg
attactgtacgagagagcgatttttgagtggttacactttgactactggggccagggaaccctggtcac
cgtctccagt

MF4280: Sequence ID NO: 110

caggtgcagctggtgcagctctggggctgaggtgaagaagcctggggcctcagtgaaggtctcctgcaagg
tttccggatacacctcactgaattatccatgcactgggtgcgacaggtccttggtaaagggcttgaatg
gatgggaggtcttgatcctgagtatggtaaaacattcttcgcacagaactccagggcagagtcaccatg
accgaggacacatctgcagacacagcctacatggagctaagcagcctgagatctgaggacacggccgtg
attactgtgcaacagaggggtattatgagactactactattactacaaccttttgactcctggggcca
gggaaccctggtcaccgtctccagt

MF4289: Sequence ID NO: 111

caggtgcagctggtgcaatctgggtctgaattgaagaagcctggggcctcagtgaaggttctcctgcaaga
cttctggatacaccttactgactatgctatgacttgggtgcgacagggccctggacaagggcttgaatg
gatgggatggatcaccaccaacactggggaccaacgtatgccccgggttcacaggacggtttgtcttc
tccttgacacctctgtcagcacggcatactgcagatcagcagcctaaaggccgaggacactgccgtat
attactgtgcgagagtgatcattggatacggggatttgagttttggggccagggaaccctggtcaccgt
ctccagt

MF5790: Sequence ID NO: 112

caggtgcagctgcaggagtcggggccaggactggtgaagccttcggagaccctgtccctcacctgcactg

Figure 3 c) cont.

tctctggtggctccttcagcagtagtagttcctactggggctggatccgccagccccaggggaaggggct
ggagtggattgggagtttctattatagtggaacacactactacaacccgtccctcaagagtcgagtcacc
atatccgaagacacgtccaagaaccagttctcctgaagctgagctctgtgaccgccgagacacggctg
tgtattactgtgcgagacagacgtatagcagcagctgggacggggctctgtactactttgactactgggg
ccagggaaacctggtcaccgtctccagt

MF5803: Sequence ID NO: 113

caggtgcagctgcaggagtcggggccaggactggtgaagccttcggagaccctgtccctcacctgcactg
tctctaattggctccatcagtagtactactggagctggatccggcagccccaggggaaggggctggagtg
gattggatatgtctattacactgggcgcaccaagtacaacccctccctcaagagtcgagtcaccatata
gtagacacgtccaagaaccagttctcctgaacctgagttctgtgaccgtcgggacacggccgtgtatt
actgtgcgagagggggtattgtagtagtccagctgcgcgggactattactactacatggacgtctgggg
caaagggaccacggtcaccgtctccagt

MF5805: Sequence ID NO: 114

gaggtgcaactgggtgcagctcggagcagaggtgaaaaagcccgaggagtctctgaagatcgctgtaagg
gttctggattcagttttaccgccactggatcggtgggtgcgcagaaagcccgaggagggcctggagtg
gatgggggtcatctatcctggtgactctgataccagatacagcccgctcctccaaggccaggtcaccgtc
tcagccgacaagtccatcaataaccgcctacctgcagtggaacagcctgaaggcctcggacaccgccat
attactgtgcgagaccgaacagtgggagtcgccggtacttcgagttctggggccgtggcaccctggtcac
cgtctccagt

MF5808: Sequence ID NO: 115

caggtgcagctgcaggagtcggggccaggactggtgaagccttcggagaccctgtccctcacctgcactg
tctctggtggctccatcagcagtagtagttactactggggctggatccgccagccccaggggaaggggct
ggagtggattgggagtttctattatagtggaacacactactacaacccgtccctcaagagtcgagtcacc
atatccgtagacacgtccaagaaccagttctcctgaagctgagctctgtgaccgccgagacacggctg
tgtattactgtgcgagacaggagtattactatggttcggggagtccttcgtactactttgactactgggg
ccagggaaacctggtcaccgtctccagt

MF5809: Sequence ID NO: 116

gaggtgcagctggtgcagctcggagcagaggtgaaaaagcccgaggagtctctgaagatctctgtaagg
gttctggagacagttttatcagccactggatcgctgggtgcgcagatgccgggaaaggcctggagtg
gatggggatcgtctatcctggtgactctgataccagatacagcccgctcctccaaggccaggtcaccatc
tcagccgacaagtccatcaccaccgcctacttcagtgagcagcctgaaggcctcggacaccgccatgt
attactgtgcgagacacagtgggaaactacttgcccccttgactactggggccagggaaacctggtcac
cgtctccagt

MF5814: Sequence ID NO: 117

gaggtgcagctggtgcagctcggggctgaggtgaagaagcctgggtcctcggtgaaggctcctgcaagg
cttctggaggcacctccactaacgatgctatcagttgggtgcgacagaccctggacaagggttgagtg
gatgggaagtatcatcctatccttgataacaacagaccacgcacagaagtccagggcagagtcacgatt
accgggacaaaatccacgaacacagcctacatggagctgaacagcctgagatctgatgacacggccgtgt
attactgtgcgagagagcatatagcagctcgtcaggactactttgactattggggccagggaaacctgggt

Figure 3c) cont.

caccgtctccagt

MF5816: Sequence ID NO: 118

gaggtgcagctggtgcagctctgggtctaaattgaagaagcctggggcctcagtgaaggtttctgcaagg
cttctggatacaccttcactagctatactatgaattgggtgcgacaggccctggacaagggttgagtg
gatgggatggatcaacaccgacactggggaccaacgtatgccagggttcacaggacggtttgtcttc
tccttggacacctctgtcagcacggcatttctacagatcaacagcctaaaggctgaggacactgccgtat
attactgtgcgagaggagattgtgatagtagtaccagctgctatagatacagttatggttacaggactactg
gggccagggaaccctgggtcaccgtctccagt

MF5817: Sequence ID NO: 119

caggtgcagctggtgcagctctgggctgaggtgaagaagcctgggtcctcggtgaaggtctctgcaagg
tttctggaggcaccttcaggagctatgctatcagctgggtgcgacaggccctggacaagggttgagtg
gatgggaggggatcatcctatctttgatacaagaaactacgcacagattcttcagggcagagtcacgatt
accgcgacttatccacgacacagcctacatggagctgaacagctctgagatctgaggacacggccattt
attactgtgcgagaggagcgcagagggggactggttcgaccctggggccaaggaaccctgggtcaccgt
ctccagt

MF5818: Sequence ID NO: 120

gaggtgcagctggtgcagctctgggactgaggtgaggaagcctgggtcctcggtgaaggtctctgcaagg
cttctggaggcaccttcagcaactatgctatcagctgggtgcgacaggccctggacagggttgagtg
gatgggaagtatcatcctatccttggacaacagaccacgcacagaagtccaggacagagtcacgatt
accgcgacaaatcctcgaacacaacctacatggagctgagcagcctgagatctgatgacacggccgtat
attactgtgcgagagagtatatagcagctcgtctggactactttgactcttggggccagggaaccctggt
caccgtctccagt

Figure 4

a) Sequence ID NO: 121

DIQMTQSPSSLSASVGDRVTITCRASQSISSYLNWYQQKPGKAPKLLIYAASSLQSGVP
SRFSGSGSGTDFTLTISLQPEDFATYYCQQSYSTPPTFGQGTKVEIK
RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT
EQDSKDYSLSSLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

b)

Sequence ID NO: 122

DIQMTQSPSSLSASVGDRVTITCRASQSISSYLNWYQQKPGKAPKLLIYAASSLQSGVP
SRFSGSGSGTDFTLTISLQPEDFATYYCQQSYSTPPTFGQGTKVEIK

Sequence ID NO: 123

gacatccagatgaccagtcctccatcctccctgtctgcatctgtaggagacagagtcaccatcacttgccgggcaagtcagagca
ttagcagctacttaaattggtatcagcagaaaccagggaagccctaagctcctgatctatgctgcatccagtttgcaaagtgg
ggtcccatcaaggttcagtggcagtggtatctgggacagatttcactctcaccatcagcagctctgcaacctgaagattttgcaactt
actactgtcaacagagttacagtagccctccaacgttcggccaagggaaccaaggtggagatcaaa

c)

Sequence ID NO: 124

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT
EQDSKDYSLSSLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

Sequence ID NO: 125

gaactgtggetgcaccatctgtcttcatcttcccgcctatgatgagcagttgaaatctggaactgcctctgttgtgcctgctga
ataacttctatcccagagaggccaaagtacagtgggaaggtggataaacgccctccaatcgggtaactcccaggagagtgctaca
gagcaggacagcaaggacagcacctacagcctcagcagcacctgacgctgagcaaagcagactacgagaaacacaaagtc
tacgctgcgaagtcacccatcagggcctgagctcgccgtcacaagagcttcaacaggggagagtg

d)

Sequence ID NO: 126

DIQMTQSPSSLSASVGDRVTITCRASQSISSYLNWYQQKPGKAPKLLIYAA
SSLQSGVPSRFSGSGSGTDFTLTISLQPEDFATYYCQQSYSTP

e)

CDR1 - QSISSY, Sequence ID NO: 127

CDR2 – AAS Sequence ID NO: 128

CDR3 – QQSYSTPPT Sequence ID NO: 129

Figure 5

a)

CH1:

Sequence ID NO: 130

gctagcaccaagggcccatcggtcttccccctggcaccctctccaagagcacctctgggggcacagcggccctgggctgcctgggt
caaggactacttccccgaaccgggtgacgggtgctggaactcaggcgccctgaccagcggcgtgcacacattcccggtgtccta
cagtcctcaggactctactccctcagcagcgtcgtgaccgtgcctccagcagcttgggcacccagacctacatctgcaacgtgaa
tcacaagcccagcaacaccaaggtggacaagagagtt

Sequence ID NO: 131

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQ
SSGLYSLSSVTVPPSSSLGTQTYICNVNHKPSNTKVDRV

b)

Hinge:

Sequence ID NO: 132

gagcccaaattctgtgacaaaactcacacatgccaccgtgccca

Sequence ID NO: 133

EPKSCDKTHTCPPCP

c)

CH2:

Sequence ID NO: 134

APELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNA
KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAK

Sequence ID NO: 135

gcacctgaactcctggggggaccgtcagttcttcttcccccaaaaccaaggacacctcatgatctccggacctgaggt
cacatgcgtggtggtggacgtgagccacgaagacctgaggtcaagtcaactggtacgtggacggcgtggaggtgcataatg
ccaagacaaagccgcgaggagcagtacaacagcacgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctg
aatggcaaggagtacaagtgaaggtctccaacaagccctccagccccatcgagaaaaccatctccaaagccaaa

Figure 5 d)

CH3: L351K and T366K

Sequence ID NO: 136

GQPREPQVYTKPPSREEMTKNQVSLKCLVKGFYPSDIAVEWESNGQPENNYKTTPPV
LDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPG-

Sequence ID NO: 137

gggcagccccgagaaccacaggtgtacaccaagccccatcccgggaggagatgaccaagaaccaggtcagcctgaagtgcct
ggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagcaatgggcagccggagaacaactacaagaccacgcctc
ccgtgctggactccgacggctccttctctctatagcaagtcaccgtggacaagagcaggtggcagcaggggaacgtcttctc
atgctccgtgatgcatagaggtctgcacaaccactacgcagaagagcctctccctgtctcgggttga

e)

CH3: L351D and L368E

Sequence ID NO: 138

GQPREPQVYTDPPSREEMTKNQVSLTCEVKGFYPSDIAVEWESNGQPENNYKTTPPV
LDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPG-

Sequence ID NO: 139

gggcagccccgagaaccacaggtgtacaccgacccccatcccgggaggagatgaccaagaaccaggtcagcctgacctgcga
ggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagcaatgggcagccggagaacaactacaagaccacgcctc
ccgtgctggactccgacggctccttctctctatagcaagtcaccgtggacaagagcaggtggcagcaggggaacgtcttctc
atgctccgtgatgcatagaggtctgcacaaccactacgcagaagagcctctccctgtctcgggttga

Figure 6

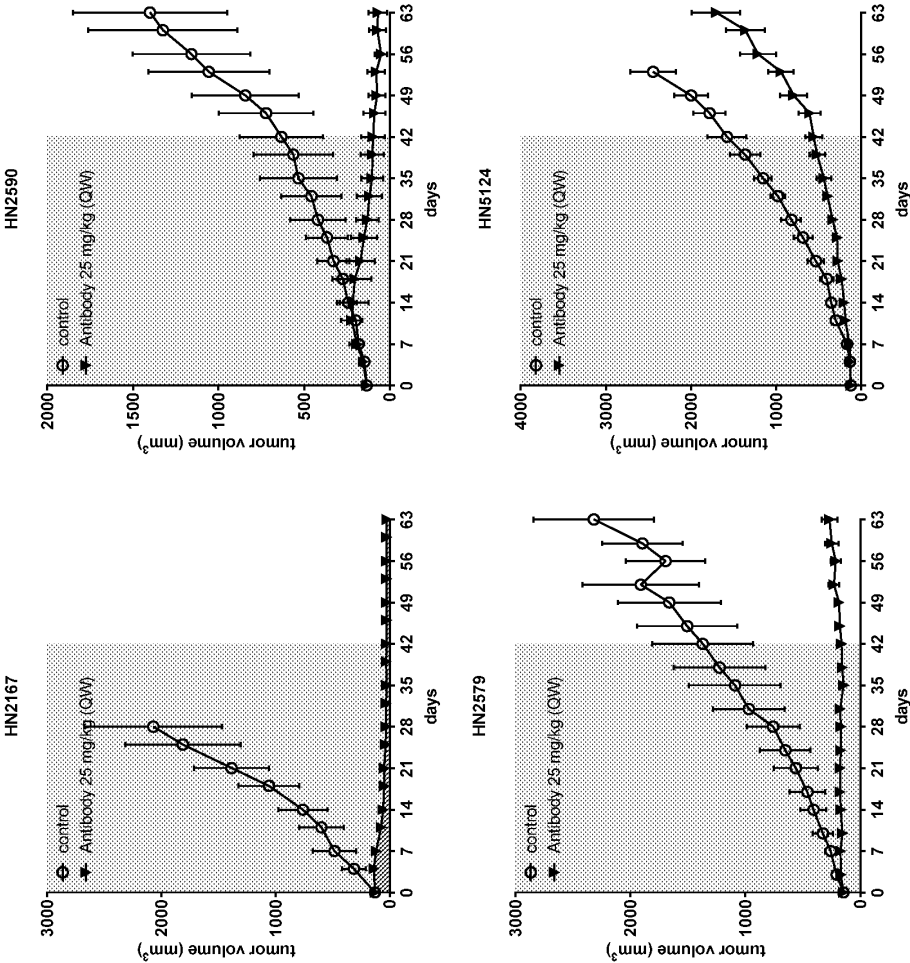


Figure 6 cont.

