

FIG. 11A

>Ta1505-VL00-Mouse SEQ ID NO:84
DILMTQTPLSLPVSIGDQASISCRSSQNIVHSNGNTYLEWYLQKPGQSPKVLIVTVSNRFSGVPDFSGSGSGTDFTLKISRVEAEDLGVVYCFQGS~~H~~PLPTFGGGTKLELK

VICDR1 RSSQNIVHSNGNTYLE SEQ ID NO:81
VICDR2 TVSNRFSG SEQ ID NO:82
VICDR3 FQGS~~H~~PLPT SEQ ID NO:83

>Ta1505-VL46 SEQ ID NO:103
DIVMTQSPLSLPVTILGEPASISCRSSQSIVHSNGNTYLEWYLQKPGQSPQLLIYTVSNRFSGVPDFSGSGSGTDFTLKISRVEAEDLGVVYCFQGS~~H~~PLPTFGGGTKVEIK

VICDR1 RSSQSIVHSNGNTYLE SEQ ID NO:91
VICDR2 TVSNRFSG SEQ ID NO:82
VICDR3 FQGS~~H~~PLPT SEQ ID NO:83

>Ta1505-VL47 SEQ ID NO:104
DIVMTQSPLSLPVTILGDPASISCRSSQSIVHSNGNTYLEWYQKPGQSPQRLIYTVSNRFSGVPDFSGSGSGTDFTLKISRVEAEDLGVVYCFQGS~~H~~PLPTFGGGTKVEI
K

VICDR1 RSSQSIVHSNGNTYLE SEQ ID NO:92
VICDR2 TVSNRFSG SEQ ID NO:82
VICDR3 FQGS~~H~~PLPT SEQ ID NO:83

FIG. 11B

>Ta1505-VL46_G34A SEQ ID NO:105
DIVMTQSP~~LSLPVTL~~GEPA~~SICRSSQSIVH~~SNANTYLEWYLQKPGQSPQLLIYTV~~SNRFS~~GV~~PDRFSGSG~~GTFTLKISRVEAEDLGVVYCFQ~~QSHLPLT~~FGGGTKVEIK

νCDR1 RSSQSIVHSNANTYLE SEQ ID NO:93
νCDR2 TVSNRFSG SEQ ID NO:82
νCDR3 FQ~~QSHLPLT~~ SEQ ID NO:83

>Ta1505-VL46_G34S SEQ ID NO:106
DIVMTQSP~~LSLPVTL~~GEPA~~SICRSSQSIVH~~SNNTYLEWYLQKPGQSPQLLIYTV~~SNRFS~~GV~~PDRFSGSG~~GTFTLKISRVEAEDLGVVYCFQ~~QSHLPLT~~FGGGTKVEIK

νCDR1 RSSQSIVHSNNTYLE SEQ ID NO:94
νCDR2 TVSNRFSG SEQ ID NO:82
νCDR3 FQ~~QSHLPLT~~ SEQ ID NO:83

>Ta1505-VL46_G34T SEQ ID NO:107
DIVMTQSP~~LSLPVTL~~GEPA~~SICRSSQSIVH~~SNNTNTYLEWYLQKPGQSPQLLIYTV~~SNRFS~~GV~~PDRFSGSG~~GTFTLKISRVEAEDLGVVYCFQ~~QSHLPLT~~FGGGTKVEIK

νCDR1 RSSQSIVHSNNTNTYLE SEQ ID NO:95
νCDR2 TVSNRFSG SEQ ID NO:82
νCDR3 FQ~~QSHLPLT~~ SEQ ID NO:83

>Ta1505-VL46_N33Q SEQ ID NO:108
DIVMTQSP~~LSLPVTL~~GEPA~~SICRSSQSIVH~~SQGNNTYLEWYLQKPGQSPQLLIYTV~~SNRFS~~GV~~PDRFSGSG~~GTFTLKISRVEAEDLGVVYCFQ~~QSHLPLT~~FGGGTKVEIK

νCDR1 RSSQSIVHSQGNNTYLE SEQ ID NO:96
νCDR2 TVSNRFSG SEQ ID NO:82

FIG. 11C

ViCDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46_N33Q_G34A SEQ ID NO:109
DIVMTQSPSLPVTLGEPASISCRSSQSI~~VHSGNTYLE~~WYLQKPGQSPQLLIYTVSNRFS~~GV~~PDRFSGSGGTDFTLKISRVEAEDLG~~VVYFCFQGS~~HLP~~LT~~TFGGG~~TK~~VEIK

ViCDR1 RSSQSI~~VHSGNTYLE~~ SEQ ID NO:97

ViCDR2 TVSNRFSG SEQ ID NO:82

ViCDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46_N33D SEQ ID NO:110

DIVMTQSPSLPVTLGEPASISCRSSQSI~~VHSGNTYLE~~WYLQKPGQSPQLLIYTVSNRFS~~GV~~PDRFSGSGGTDFTLKISRVEAEDLG~~VVYFCFQGS~~HLP~~LT~~TFGGG~~TK~~VEIK

ViCDR1 RSSQSI~~VHSGNTYLE~~ SEQ ID NO:98

ViCDR2 TVSNRFSG SEQ ID NO:82

ViCDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46_N33S SEQ ID NO:111

DIVMTQSPSLPVTLGEPASISCRSSQSI~~VHSGNTYLE~~WYLQKPGQSPQLLIYTVSNRFS~~GV~~PDRFSGSGGTDFTLKISRVEAEDLG~~VVYFCFQGS~~HLP~~LT~~TFGGG~~TK~~VEIK

ViCDR1 RSSQSI~~VHSGNTYLE~~ SEQ ID NO:99

ViCDR2 TVSNRFSG SEQ ID NO:82

ViCDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46_N33T SEQ ID NO:112

DIVMTQSPSLPVTLGEPASISCRSSQSI~~VHSGNTYLE~~WYLQKPGQSPQLLIYTVSNRFS~~GV~~PDRFSGSGGTDFTLKISRVEAEDLG~~VVYFCFQGS~~HLP~~LT~~TFGGG~~TK~~VEIK

FIG. 11D

VICDR1 RSSQSIHVHSTGNTYLE SEQ ID NO:100

VICDR2 TVSNRFSG SEQ ID NO:82

VICDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46_S28N SEQ ID NO:113

DIVMTQSPLSLPVTLGEPASISCRSSQNIVHSNGNTYLEWYLQKPGQSPQLLIYTVSNRFSGVPDRFSGSGGTDFTLKISRVEAEDLGVVYCFQGSHPLTLTFFGGGTKVEIK

VICDR1 RSSQNIVHSNGNTYLE SEQ ID NO:101

VICDR2 TVSNRFSG SEQ ID NO:82

VICDR3 FQGSHLPLT SEQ ID NO:83

*Ta1505-VL46_G34A_S28N SEQ ID NO:114

DIVMTQSPLSLPVTLGEPASISCRSSQNIVHSNANTYLEWYLQKPGQSPQLLIYTVSNRFSGVPDRFSGSGGTDFTLKISRVEAEDLGVVYCFQGSHPLTLTFFGGGTKVEIK

VICDR1 RSSQNIVHSNANTYLE SEQ ID NO:102

VICDR2 TVSNRFSG SEQ ID NO:82

VICDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VH00-Mouse SEQ ID NO:89

EVQLVESGGGLVQPKGSLKLSCAASGFAFNSFALNWVRQAPGKSLEWVYHIRSKTNNYATFYADSVKDRFTVSRDSDSQSMVYLQMNNLKTEDTGIVYCVRRGPRDS
WFGYWGQGTLVTVSA

VICDR1 SEALN SEQ ID NO:86

VICDR2 HIRSKTNNYATFYADSVKD SEQ ID NO:87

VICDR3 RGPRDSWFGY SEQ ID NO:88

FIG. 11A

>Ta1505-VL00-Mouse SEQ ID NO:84
DILMTQTPLSLPVSIGDQASISCRSSQNIVHSNGNTYLEWYVLPKPGQSPKVLIVTVSNRFSGVDPDRFSGSGGTDFTLKISRVEAEDLGVVYCFQGSHLPLTFGGGKLELK

vICDR1 RSSQNIVHSNGNTYLE SEQ ID NO:81
vICDR2 TVSNRFS SEQ ID NO:82
vICDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46 SEQ ID NO:103
DIVMTQSPPLSLPVTIGEPASISCRSSQSIVHSNGNTYLEWYVLPKPGQSPQLLIIVTVSNRFSGVDPDRFSGSGGTDFTLKISRVEAEDLGVVYCFQGSHLPLTFGGGKVEIK

vICDR1 RSSQSIVHSNGNTYLE SEQ ID NO:91
vICDR2 TVSNRFS SEQ ID NO:82
vICDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL47 SEQ ID NO:104
DIVMTQSPPLSLPVTIGDPASISCRSSQSIVHSNGNTYLEWYVLPKPGQSPQRLIIVTVSNRFSGVDPDRFSGSGGTDFTLKISRVEAEDLGVVYCFQGSHLPLTFGGGKVEIK

vICDR1 RSSQSIVHSNGNTYLE SEQ ID NO:92
vICDR2 TVSNRFS SEQ ID NO:82
vICDR3 FQGSHLPLT SEQ ID NO:83

FIG. 11B

>Ta1505-VL46_G34A SEQ ID NO:105
 DIVMTQSP^{LS}LPVTLGEPASISCRSSQSI^{VH}SNANTYLEWY^{LQ}KPGQSPQ^{LL}IYTVSNR^{FS}GV^{PD}RFSGSGSDFTLKISRVEAEDLGVVYCFQGSHL^{PL}TFGGG^{TK}VEIK

νICDR1 RSSQSI^{VH}SNANTYLE SEQ ID NO:93
 νICDR2 TVSNR^{FS} SEQ ID NO:82
 νICDR3 FQGS^HLPLT SEQ ID NO:83

>Ta1505-VL46_G34S SEQ ID NO:106
 DIVMTQSP^{LS}LPVTLGEPASISCRSSQSI^{VH}SNNTYLEWY^{LQ}KPGQSPQ^{LL}IYTVSNR^{FS}GV^{PD}RFSGSGSDFTLKISRVEAEDLGVVYCFQGSHL^{PL}TFGGG^{TK}VEIK

νICDR1 RSSQSI^{VH}SNNTYLE SEQ ID NO:94
 νICDR2 TVSNR^{FS} SEQ ID NO:82
 νICDR3 FQGS^HLPLT SEQ ID NO:83

>Ta1505-VL46_G34T SEQ ID NO:107
 DIVMTQSP^{LS}LPVTLGEPASISCRSSQSI^{VH}SNNTNTYLEWY^{LQ}KPGQSPQ^{LL}IYTVSNR^{FS}GV^{PD}RFSGSGSDFTLKISRVEAEDLGVVYCFQGSHL^{PL}TFGGG^{TK}VEIK

νICDR1 RSSQSI^{VH}SNNTNTYLE SEQ ID NO:95
 νICDR2 TVSNR^{FS} SEQ ID NO:82
 νICDR3 FQGS^HLPLT SEQ ID NO:83

>Ta1505-VL46_N33Q SEQ ID NO:108
 DIVMTQSP^{LS}LPVTLGEPASISCRSSQSI^{VH}SQGNNTYLEWY^{LQ}KPGQSPQ^{LL}IYTVSNR^{FS}GV^{PD}RFSGSGSDFTLKISRVEAEDLGVVYCFQGSHL^{PL}TFGGG^{TK}VEIK

νICDR1 RSSQSI^{VH}SQGNNTYLE SEQ ID NO:96
 νICDR2 TVSNR^{FS} SEQ ID NO:82

FIG. 11C

ViCDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46_N33Q_G34A SEQ ID NO:109
 DIVMTQSPVLSPLPVTLGEPASISCRSSQSIHVSQANTYLEWYVLPKPGQSPQLLIYTVSNRFSQVPDRFSGSGSGTDFTLKISRVEAEDLGVVYCFQGSHPHPLTFFGGGTTKVEIK

ViCDR1 RSSQSIHVSQANTYLE SEQ ID NO:97

ViCDR2 TVSNRFS SEQ ID NO:82

ViCDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46_N33D SEQ ID NO:110
 DIVMTQSPVLSPLPVTLGEPASISCRSSQSIHVSQANTYLEWYVLPKPGQSPQLLIYTVSNRFSQVPDRFSGSGSGTDFTLKISRVEAEDLGVVYCFQGSHPHPLTFFGGGTTKVEIK

ViCDR1 RSSQSIHVSQANTYLE SEQ ID NO:98

ViCDR2 TVSNRFS SEQ ID NO:82

ViCDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46_N33S SEQ ID NO:111
 DIVMTQSPVLSPLPVTLGEPASISCRSSQSIHVSQANTYLEWYVLPKPGQSPQLLIYTVSNRFSQVPDRFSGSGSGTDFTLKISRVEAEDLGVVYCFQGSHPHPLTFFGGGTTKVEIK

ViCDR1 RSSQSIHVSQANTYLE SEQ ID NO:99

ViCDR2 TVSNRFS SEQ ID NO:82

ViCDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46_N33T SEQ ID NO:112
 DIVMTQSPVLSPLPVTLGEPASISCRSSQSIHVSQANTYLEWYVLPKPGQSPQLLIYTVSNRFSQVPDRFSGSGSGTDFTLKISRVEAEDLGVVYCFQGSHPHPLTFFGGGTTKVEIK

FIG. 11D

vicDR1 RSSQSIHVHSTGNTYLE SEQ ID NO:100

vicDR2 TVSNRFS SEQ ID NO:82

vicDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VL46_S28N SEQ ID NO:113

DIVMTQSPSLPVTLTGEPASISCRSSQNIHVHSGNTYLEWYLOKPGQSPQLLTVSNRFGVDPDRFSGSGGTDFTLKISRVEAEDLGVVYCFQGSHPLPLTFGGGTKVEIK

vicDR1 RSSQNIHVHSGNTYLE SEQ ID NO:101

vicDR2 TVSNRFS SEQ ID NO:82

vicDR3 FQGSHLPLT SEQ ID NO:83

*Ta1505-VL46_G34A_S28N SEQ ID NO:114

DIVMTQSPSLPVTLTGEPASISCRSSQNIHVHSGNTYLEWYLOKPGQSPQLLTVSNRFGVDPDRFSGSGGTDFTLKISRVEAEDLGVVYCFQGSHPLPLTFGGGTKVEIK

vicDR1 RSSQNIHVHSGNTYLE SEQ ID NO:102

vicDR2 TVSNRFS SEQ ID NO:82

vicDR3 FQGSHLPLT SEQ ID NO:83

>Ta1505-VH00-Mouse SEQ ID NO:89

EVQLVESGGGLVQPKGSLKLSCAASGFAFNSFALNWVVRQAPGKSLWVVRHRSKTNNYATFYADSVKDRFTVSRDDSQSMVYLQMNILKTEDTGIYYCVRRGPRDS
WFGYWGQGTLVTVSA

vicDR1 SFALN SEQ ID NO:86

vicDR2 HIRSKTNNYATFYADSVKD SEQ ID NO:87

vicDR3 RGRDWSWFGY SEQ ID NO:88