

SEQUENCES**SEQ ID NO. 1** (J591 VH):

EVQLQQSGPELKKPGTSVRISCKTSGYTFTEYTIHWVKQSHGKSLEWIGNINPNNGGTTYN
 5 QKFEDKATLTVDKSSSTAYMELRSLTSEDSAVYYCAAGWNFDYWGQGTTLTVSS

SEQ ID NO. 2 (J591 VL):

DIVMTQSHKFMSTSVGDRVSIICKASQDVGTAVDWYQQKPGQSPKLLIWASTRHTGVPD
 RFTGSGSGTDFTLTITNVQSEDLADYFCQQYNSYPLTFGAGTMLDLK

10

SEQ ID NO. 3 (J591 VH Delm):

EVQLVQSGPEVKKPGATVKISCKTSGYTFTEYTIHWVKQAPGKGLEWIGNINPNNGGTTYN
 QKFEDKATLTVDKSTDYAYMELSSLRSEDTAVYYCAAGWNFDYWGQGTTLTVSS

SEQ ID NO. 4 (J591 VK Delm):

DIQMTQSPSSLSTSVGDRVTLTCKASQDVGTAVDWYQQKPGPSPKLLIWASTRHTGIPSR
 FSGSGSGTDFTLTISLQPEDFADYYCQQYNSYPLTFGPGTKVDIK

15

SEQ ID NO. 5 (J415 VH):

EVKLEESGGGLVQPGGSMKLSVASGFTFSNYWMNWVRQSPEKGLEWVAEIRSQSNNFA
 THYAESVKGRVIISRDDSKSSVYLQMNNLRAEDTGIYYCTRRWNNFWGQGTTLTVSS

20

SEQ ID NO. 6 (J415 VL):

NIVMTQFPKMSISVGERVTLTCKASENVGTYVSWYQQKPEQSPKMLIYGASNRFTGVPDR
 25 FTGSGSATDFILTISVQTEDLVDDYCGQSYTFPYTFGGGKLEMK

25

SEQ ID NO. 7 (J415-2 VH Delm):

EVKLEESGGGLVQPGGSMKISCVASGFTFSNYWMNWVRQTPEKGLEWVALIRSQSNNFA
 THYAESVKGRVIISRDDSKSSVYLQMNSLRAEDTAVYYCTRRWNNFWGQGTTTVTVSS

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SEQ ID NO. 8 (J415-3 VH Delm):

EVKLEESGGGLVQPGGSMKISCVASGFTFSNYWMNWVRQTPEKGLEWVAEIRSQSNNFA
 THYAESVKGRVIISRDDSKSSVYLQMNSLRAEDTAVYYCTRRWNNFWGQGTTTVTVSS

SEQ ID NO. 9 (J415 VH Delm consensus):

35

EVKLEESGGGLVQPGGSMKISCVASGFTFSNYWMNWVRQTPEKGLEWVAEIRSQSNNFA
THYAESVKGRVIISRDDSKSSVYLQMNSLRAEDTAVYYCTRRWNNFWGQGTTVTVSS

SEQ ID NO. 10 (J415 VH-MuVH consensus):

5 EVKLEESGGGLVQPGGSMKLSCVASGFTFSNYWMNWVRQSPEKGLEWVAEIRLQSDNFA
THYAESVKGRVIISRDDSKSSVYLQMNNLRAEDTGIYYCTTGGYGGRRSWNAFWGQGT
TVSS

SEQ ID NO. 11 (J415-2 VL Delm):

10 NIVMTQSPKMSASAGERMTLTCKASENVGTYVSWYQQKPTQSPKMLIYGASNRFTGVPD
RFSGSGSGTDFILTASSVQAEDPVDYYCGQSYTFPYTFGGGTKLEMK

SEQ ID NO. 12 (J415-3 VL Delm):

NIVMTQSPKMSASAGERMTLTCKASENVGTYVSWYQQKPTQSPKMLIYGASNRFTGVPD
15 RFSGSGSGTDFILTASSVQAEDLVDYYCGQSYTFPYTFGGGTKLEMK

SEQ ID NO. 13 (J415-4 VL Delm):

NIVMTQSPKMSASAGERMTLTCKASENVGTYVSWYQQKPTQSPKMLIYGASNRFTGVPD
RFSGSGSGTDFILTISSVQAEDLVDYYCGQSYTFPYTFGGGTKLEMK
20

SEQ ID NO. 14 (J415-6 VL Delm):

NIVMTQFPKMSASAGERMTLTCKASENVGTYVSWYQQKPEQSPKMLIYGASNRFTGVPD
RFSGSGSGTDFILTISSVQAEDLVDYYCGQSYTFPYTFGGGTKLEMK

25 **SEQ ID NO. 15** (J415-7 VL Delm):

NIVMTQFPKMSASAGERVTLTCKASENVGTYVSWYQQKPTQSPKMLIYGASNRFTGVPD
RFSGSGSGTDFILTISSVQAEDLVDYYCGQSYTFPYTFGGGTKLEMK

SEQ ID NO. 16 (J415-8 VL Delm):

30 NIVMTQFPKMSASAGERMTLTCKASENSGTYVSWYQQKPEQSPKMLIYGASNRFTGVPD
RFSGSGSGTDFILTISSVQAEDLVDYYCGQSYTFPYTFGGGTKLEMK

SEQ ID NO. 17 (J415 VL consensus):

NIVMTQFPKMSASAGERMTLTCKASENVGTYVSWYQQKPTQSPKMLIYGASNRFTGVPD
35 RFSGSGSGTDFILTISSVQAEDLVDYYCGQSYTFPYTFGGGTKLEMK

SEQ ID NO. 18 (J415 VL-MuVL1 consensus):

DIVMTQSPSSLAVSAGEKVTLSCKASESLLNVGNQKTYVAWYQQKPGQSPKLLIYGASTRE
SGVPDRFTGSGSGTDFILTISSVQAEDLAVYYCGNSYSFPLTFGGGKLELK

5 **SEQ ID NO. 19** (J591 Delm heavy chain):

EVQLVQSGPEVKKPGATVKISCKTSGYTFTEYTIHWVKQAPGKGLEWIGNINPNNGGTTYN
QKFEDKATLTVDKSTDYAYMELSSLRSEDTAVYYCAAGWNFDYWGQGTLTSSASTKGP
SVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSS
VVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPP
10 KPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSV
LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTC
LVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSV
MHEALHNHYTQKSLSLSPGK

15 **SEQ ID NO. 20** (J591 Delm light chain):

DIQMTQSPSSLSTSVGDRVTLTCKASQDVGTAVDWYQQKPGPSPKLLIYWASTRHTGIPSR
FSGSGSGTDFTLTISSLQPEDFADYYCQQYNSYPLTFGPGTKVDIKRTVAAPSVFIFPPSDE
QLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSK
ADYEKHKVYACEVTHQGLSSPVTKSFNRGEC