SEQ ID NO.	Sequence	Description	Antibody
1	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCASWG TGTLWPWGQG KMVTVSS	Full-length V_H	194_e06, 196_a07, 198_f06
2	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCASWG DGTLNPWGQG KMVTVSS	Full-length V_H	194_a02, 194_b09
3	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCASWG LGSNENWGQG TMVTVSS	Full-length V_H	195_e11
4	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCADTN SAKFDPWGQG TMVTVSS	Full-length V_H	194_g09, 196_h02
5	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAGTG YPSFDPWGQG TMVTVSS	Full-length V_H	194_e01
6	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAGTA KPSFDPWGQG TMVTVSS	Full-length V_H	196_d10
7	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAGNE RPSFDPWGQG TMVTVSS	Full-length V_H	196_g03
8	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFAI SRDNSKNTLY LQMNSLRAED TAVYYCAGSR TVQFDPWGQG TMVTVSS	Full-length V_H	196_e06
9	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCATNS PGTFDPWGQG TMVTVSS	Full-length V_H	195_a09

Figure 1A

10	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCATIA PGRFDPWGQG TMVTVSS	Full-length V_H	198_a09
11	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAGLD RVWFDPWGQG TMVTVSS	Full-length V_H	200_h06
12	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCASWG GGWFDPWGQG TMVTVSS	Full-length V_H	129_1c4
13	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAKWG GGWFDPWGQG TMVTVSS	Full-length V_H - germlined	g_129_1c4
14	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLIL SEVNKRPSGV SNRFSGSKSG NTASLSISGL QAEDEADYYC SSFTSGLPWV LFGGGTKLTV L	Full-length V_L	194_a02, 194_e06, 196_a07, 198_f06
15	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLIL SEVNKRPSGV SNRFSGSKSG NTASLSISGL QAEDEADYYC SSFTSGLPWV VFGGGTKLTV L	Full-length V_L	194_b09
16	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLIL SEVNKRPSGV SNRFSGSKSG NTASLSISGL QAEDEADYYC SSFTSGIVFN LFGGGTKLTV L	Full-length V_L	195_e11
17	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQR HPGKAPKLIL SEVNKRPSGV SNRFSGSKSG NTASLSISGL QAEDEAEYYC SSYTMGSTFM LFGGGTKLTV L	Full-length V_L	194_g09
18	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLIL SEVNKRPSGV SNRFSGSKSG NTASLSISGL QAEDEAGYYC TSYRAGSTFM LFGGGTKLTV L	Full-length V_L	194_e01
19	QSALTQPASV SGPPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLIL SEVNKRPSGV SNRFSGSKSG NTASLSISGL QAEDEADYYC TSYTMGSTFM LFGGGTKLTV L	Full-length V_L	198_a09

Figure 1B

20	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLIL SEVNKRPSGV SNRFSGSKSG NTASLSISGL QAEDEADYYC TSYRMDSTFM LFGGGTKLTV L	Full-length V_L	200_h06
21	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLIL SEVNKRPSGV SNRFSGSKSG NTASLSISGL QAEDEADYYC SSFTSGSTFM LFGGGTKLTV L	Full-length V_L	129_1c4
22	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLMI YEVNKRPSGV SNRFSGSKSG NTASLTISGL QAEDEADYYC SSFTSGSTFM LFGGGTKLTV L	Full-length V_L	g_129_1c4
23	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLIL SEVNKRPSGV SNRFSGSKSG NTASLSISGL QAEDEADYYC TSYTMGSTFM LFGGGTKLTV L	Full-length V_L	196_h02, 196_d10, 196_g03, 196_e06, 195_a09
24	SYAMS	V_H CDR1	All
25	AISGSGGSTYYADSVKG	V_H CDR2	All
26	WGTGTLWP	V_H CDR3	194_e06, 196_a07, 198_f06
27	WGDGTLNP	V_H CDR3	194_a02, 194_b09
28	WGLGSNEN	V_H CDR3	195_e11
29	TNSAKFDP	V_H CDR3	194_g09, 196_h02
30	TGYPSFDP	V_H CDR3	194_e01
31	TAKPSFDP	V_H CDR3	196_d10
32	NERPSFDP	V_H CDR3	196_g03
33	SRTVQFDP	V_H CDR3	196_e06
34	NSPGTFDP	V_H CDR3	195_a09

Figure 1C

51	RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAD	V_H FR3	194_g09, 196_h02
52	RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAG	V_H FR3	194_e01, 196_d10, 196_g03, 200_h06
53	RFAISRDNSKNTLYLQMNSLRAEDTAVYYCAG	V_H FR3	196_e06
54	RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAT	V_H FR3	195_a09, 198_a09
55	RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAK	V_H FR3	g_129_1c4

56	WGQGKMVTVSS	V_H FR4	194_e06, 196_a07, 198_f06, 194_a02, 194_b09
57	WGQGTMVTVSS	V_H FR4	195_e11, 194_g09, 196_h02, 194_e01, 196_d10, 196_g03, 196_e06, 195_a09, 198_a09, 200_h06, 129_1c4, g_129_1c4
58	QSALTQPASVSGPPGQSITISC	V_L FR1	198_a09
59	QSALTQPASVSGSPGQSITISC	V_L FR1	All – except 198_a09
60	WYQRHPGKAPKLILS	V_L FR2	194_g09
61	WYQQHPGKAPKLMIY	V_L FR2	g_129_1c4

Figure 1E

62	WYQQHPGKAPKLILS	V_L FR2	194_a02, 194_e06, 196_a07, 198_f06, 194_b09, 195_e11, 195_a09, 196_d10, 196_e06, 196_g03, 196_h02, 198_a09, 200_h06, 194_e01, 129_1c4
63	GVSNRFSGSKSGNTASLSISGLQAEDEAEYYC	V_L FR3	194_g09
64	GVSNRFSGSKSGNTASLSISGLQAEDEAGYYC	V_L FR3	194_e01
65	GVSNRFSGSKSGNTASLTISGLQAEDEADYYC	V_L FR3	g_129_1c4
66	GVSNRFSGSKSGNTASLSISGLQAEDEADYYC	V_L FR3	194_a02, 194_e06, 196_a07, 198_f06, 194_b09, 195_e11, 195_a09, 196_d10, 196_e06, 196_g03, 196_h02, 198_a09, 200_h06, 129_1c4
67	FGGGTKLTVL	V_L FR4	All
68	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAGTTGGGGA ACGGGGACCTTGTGGCCCTGGGGCCAAGGGAAAATGGTCACCGTCTCGAG T	Full-length V_H DNA	194_e06, 196_a07, 198_f06

Figure 1F

35	IAPGRFDP	V_H CDR3	198_a09
36	LDRVWFDP	V_H CDR3	200_h06
37	WGGGWFDP	V_H CDR3	129_1c4, g_129_1c4
38	TGTSNDVGAYNYVS	V_L CDR1	All
39	EVNKRPS	V_L CDR2	All
40	SSFTSGLPWVL	V_L CDR3	194_a02, 194_e06, 196_a07, 198_f06
41	SSFTSGLPWVV	V_L CDR3	194_b09
42	SSFTSGIVFNL	V_L CDR3	195_e11
43	TSYTMGSTFML	V_L CDR3	195_a09, 196_d10, 196_e06, 196_g03, 196_h02, 198_a09
44	SSYTMGSTFML	V_L CDR3	194_g09
45	TSYRMDSTFML	V_L CDR3	200_h06
46	TSYRAGSTFML	V_L CDR3	194_e01
47	SSFTSGSTFML	V_L CDR3	129_1c4, g_129_1c4
48	EVQLLESGGGLVQPGGSLRLSCAASGFTFS	V_H FR1	All
49	WVRQAPGKGLEWVS	V_H FR2	All
50	RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAS	V_H FR3	194_e06, 196_a07, 198_f06; 194_a02, 194_b09, 195_e11, 129_1c4

Figure 1D

69	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAGTTGGGGA GACGGGACCTTGAACCCGTGGGGCCAAGGNAAAATGGTCACCGTCTCTCNAG T	Full-length V_H DNA	194_a02, 194_b09
70	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAGTTGGGGA CTGGGGAGCAACGAAAACTGGGGCCAAGGGACAATGGTCACCGTCTCTCGAG T	Full-length V_H DNA	195_e11
71	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGGACACCGAAC TCCGCCAAGTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCGAG T	Full-length V_H DNA	194_g09, 196_h02

Figure 1G

72	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGGGCACGGGG TACCCCTCCTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCGAG T	Full-length V_H DNA	194_e01
73	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGGGCACGGCC AAGCCGAGCTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCGAG T	Full-length V_H DNA	196_d10
74	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGGGGAACGAG AGGCCGTCGTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCGAG T	Full-length V_H DNA	196_g03
75	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCGCCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGGGCAGCCGC ACGGTGCAGTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCGAG T	Full-length V_H DNA	196_e06

Figure 1H

76	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGACGAACTCG CCGGGGACGTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCGAG T	Full-length V_H DNA	195_a09
77	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGACCATCGCG CCCGGCCGGTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCGAG T	Full-length V_H DNA	198_a09

78	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGGGGCTCGAC CGGGTGTGGTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCGAG T	Full-length V_H DNA	200_h06
79	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAGTTGGGGA GGAGGCTGGTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCCTC A	Full-length V_H DNA	129_1c4

Figure 1I

80	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAAATGGGGA GGAGGCTGGTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCCTC A	Full-length V_H DNA	g_129_1c4
81	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATTCTT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGAGCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCAGCTCATTTACAAGCGGCCTCCCCTGGGTC CTCTTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA	194_a02, 194_e06, 196_a07, 198_f06
82	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATTCTT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCTTCTCTGAGCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCAGCTCATTTACAAGCGGGCTCCCCTGGGTC GTCTTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA	194_b09

83	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATTCTT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGAGCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCAGCTCATTTACAAGCGGCATCGTGTTCAAC CTGTTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA	195_e11
84	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACGACACCCAGGCAAAGCCCCCAAACTCATTCTT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGAGCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGAGTATTACTGCAGCAGCTACACGATGGGGAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA	194_g09

Figure 1J

85	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATTCTT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGAGCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGGTTATTACTGCACGAGCTACCGGGCCGGGAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA	194_e01
86	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGCCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATTCTT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGAGCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCACCTCGTACACCATGGGCAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA	198_a09
87	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATTCTT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGAGCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCACCTCGTACCGCATGGACAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA	200_h06

88	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATTCTT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGAGCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCAGCTCATTTACAAGCGGCAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA	129_1c4
89	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATGATT TATGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGACCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCAGCTCATTTACAAGCGGCAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA	g_129_1c4

Figure 1K

90	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATTCTT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGAGCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCACCTCGTACACCATGGGCAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA	196_h02, 196_d10, 196_g03, 196_e06, 195_a09

91	NPKGQFDP	V_H CDR3 variant	129-1c4 variant
92	NSAGSFDP	V_H CDR3 variant	129-1c4 variant
93	SNGGLFDP	V_H CDR3 variant	129-1c4 variant
94	SNGGFFDP	V_H CDR3 variant	129-1c4 variant
95	SDLGEFDP	V_H CDR3 variant	129-1c4 variant
96	TNTGQFDP	V_H CDR3 variant	129-1c4 variant
97	TPRGLFDP	V_H CDR3 variant	129-1c4 variant
98	SNTGNFDP	V_H CDR3 variant	129-1c4 variant
99	SRTVQFDP	V_H CDR3 variant	129-1c4 variant
100	LGVPQFDP	V_H CDR3 variant	129-1c4 variant
101	SDNGTFDP	V_H CDR3 variant	129-1c4 variant
102	IAPGRFDP	V_H CDR3 variant	129-1c4 variant
103	NTTGTFDP	V_H CDR3 variant	129-1c4 variant
104	SDAGRFDP	V_H CDR3 variant	129-1c4 variant
105	INEGRFDP	V_H CDR3 variant	129-1c4 variant
106	NSNGVFDP	V_H CDR3 variant	129-1c4 variant
107	SHSGKFDP	V_H CDR3 variant	129-1c4 variant

Figure 1L

108	NKKPPFDP	V_H CDR3 variant	129-1c4 variant
109	SDNGLFDP	V_H CDR3 variant	129-1c4 variant
110	WGAGELDH	V_H CDR3 variant	129-1c4 variant
111	WGTGAHEN	V_H CDR3 variant	129-1c4 variant
112	NNVGREDP	V_H CDR3 variant	129-1c4 variant
113	TDRPVFDP	V_H CDR3 variant	129-1c4 variant
114	IRSGMFDP	V_H CDR3 variant	129-1c4 variant
115	TEGALFDP	V_H CDR3 variant	129-1c4 variant
116	SDFGKFDP	V_H CDR3 variant	129-1c4 variant
117	NELGSFDP	V_H CDR3 variant	129-1c4 variant
118	QELPVFDP	V_H CDR3 variant	129-1c4 variant
119	FRDTAFDP	V_H CDR3 variant	129-1c4 variant
120	ADMGRFDP	V_H CDR3 variant	129-1c4 variant
121	LGVPVFDP	V_H CDR3 variant	129-1c4 variant
122	THAGMFDP	V_H CDR3 variant	129-1c4 variant
123	VYAGRFDP	V_H CDR3 variant	129-1c4 variant
124	NTQGRFDP	V_H CDR3 variant	129-1c4 variant
125	TNGGLFDP	V_H CDR3 variant	129-1c4 variant
126	ITTVKFDP	V_H CDR3 variant	129-1c4 variant
127	RLVHGFDP	V_H CDR3 variant	129-1c4 variant
128	IRLGTFDP	V_H CDR3 variant	129-1c4 variant
129	SERPQFDP	V_H CDR3 variant	129-1c4 variant

Figure 1M

130	TSRPLFDP	V_H CDR3 variant	129-1c4 variant
131	VESGRFDP	V_H CDR3 variant	129-1c4 variant
132	SEMPMFDP	V_H CDR3 variant	129-1c4 variant
133	VNPGYFDP	V_H CDR3 variant	129-1c4 variant
134	NDIAREDP	V_H CDR3 variant	129-1c4 variant
135	VGVGQFDP	V_H CDR3 variant	129-1c4 variant
136	TRYPTFDP	V_H CDR3 variant	129-1c4 variant
137	NSAGTFDP	V_H CDR3 variant	129-1c4 variant
138	VNEGREDP	V_H CDR3 variant	129-1c4 variant
139	NRTGREDP	V_H CDR3 variant	129-1c4 variant
140	NASAREDP	V_H CDR3 variant	129-1c4 variant
141	INTGMFDP	V_H CDR3 variant	129-1c4 variant
142	NDNGREDP	V_H CDR3 variant	129-1c4 variant
143	VDQPSFDP	V_H CDR3 variant	129-1c4 variant
144	VDRGQFDP	V_H CDR3 variant	129-1c4 variant
145	NHTGKFDP	V_H CDR3 variant	129-1c4 variant
146	TNTGREDP	V_H CDR3 variant	129-1c4 variant
147	SDSGLFDP	V_H CDR3 variant	129-1c4 variant
148	NVLALFDP	V_H CDR3 variant	129-1c4 variant
149	NYEAREDP	V_H CDR3 variant	129-1c4 variant
150	PDNGTFDP	V_H CDR3 variant	129-1c4 variant
151	NRNGNFDP	V_H CDR3 variant	129-1c4 variant

Figure 1N

152	TTGGRFDP	V_H CDR3 variant	129-1c4 variant
153	TGYPSFDP	V_H CDR3 variant	129-1c4 variant
154	NNEGQFDP	V_H CDR3 variant	129-1c4 variant
155	NSKGRFDP	V_H CDR3 variant	129-1c4 variant
156	TENPTFDP	V_H CDR3 variant	129-1c4 variant
157	TNGGRFDP	V_H CDR3 variant	129-1c4 variant
158	NSYGSFDP	V_H CDR3 variant	129-1c4 variant
159	LENVVFDP	V_H CDR3 variant	129-1c4 variant
160	ANHGRFDP	V_H CDR3 variant	129-1c4 variant
161	ANGGQFDP	V_H CDR3 variant	129-1c4 variant
162	WGNDASLG	V_H CDR3 variant	129-1c4 variant
163	WGPTASLD	V_H CDR3 variant	129-1c4 variant
164	WGRGTNEY	V_H CDR3 variant	129-1c4 variant
165	WGGGGHYD	V_H CDR3 variant	129-1c4 variant
166	WGADATLD	V_H CDR3 variant	129-1c4 variant
167	TEFGTFDP	V_H CDR3 variant	129-1c4 variant
168	NATGTFDP	V_H CDR3 variant	129-1c4 variant
169	TNSAKFDP	V_H CDR3 variant	129-1c4 variant
170	VNSGKFDP	V_H CDR3 variant	129-1c4 variant
171	SLRVEFDP	V_H CDR3 variant	129-1c4 variant
172	NDRGMFDP	V_H CDR3 variant	129-1c4 variant
173	NSPGTFDP	V_H CDR3 variant	129-1c4 variant

Figure 10

174	NTAGRFDP	V_H CDR3 variant	129-1c4 variant
175	VNRGRFDP	V_H CDR3 variant	129-1c4 variant
176	TEKPMFDP	V_H CDR3 variant	129-1c4 variant
177	WSVSLFDP	V_H CDR3 variant	129-1c4 variant
178	MEVVEFDP	V_H CDR3 variant	129-1c4 variant
179	VNHGRFDP	V_H CDR3 variant	129-1c4 variant
180	TEVGTFDP	V_H CDR3 variant	129-1c4 variant
181	TDKPVFDP	V_H CDR3 variant	129-1c4 variant
182	LELPRFDP	V_H CDR3 variant	129-1c4 variant
183	TNHAMFDP	V_H CDR3 variant	129-1c4 variant
184	THSGRFDP	V_H CDR3 variant	129-1c4 variant
185	NDRGGFDP	V_H CDR3 variant	129-1c4 variant
186	PHRGTFDP	V_H CDR3 variant	129-1c4 variant
187	TELGQFDP	V_H CDR3 variant	129-1c4 variant
188	WGLGSNEN	V_H CDR3 variant	129-1c4 variant
189	WGNDATWN	V_H CDR3 variant	129-1c4 variant
190	WGSTASLD	V_H CDR3 variant	129-1c4 variant
191	WGGGGHQD	V_H CDR3 variant	129-1c4 variant
192	WGRGDWRS	V_H CDR3 variant	129-1c4 variant
193	WGSTASLS	V_H CDR3 variant	129-1c4 variant
194	WGHGGHDT	V_H CDR3 variant	129-1c4 variant
195	WGPRATLD	V_H CDR3 variant	129-1c4 variant

Figure 1P

196	WGNGAEVP	V_H CDR3 variant	129-1c4 variant
197	WGNDATLA	V_H CDR3 variant	129-1c4 variant
198	WGSGNLDP	V_H CDR3 variant	129-1c4 variant
199	NELPKFDP	V_H CDR3 variant	129-1c4 variant
200	SDGGTFDP	V_H CDR3 variant	129-1c4 variant
201	LDMVMFDP	V_H CDR3 variant	129-1c4 variant
202	WGSGTMDP	V_H CDR3 variant	129-1c4 variant
203	PDRGKFDP	V_H CDR3 variant	129-1c4 variant
204	THNPVFDP	V_H CDR3 variant	129-1c4 variant
205	NSAGRFDP	V_H CDR3 variant	129-1c4 variant
206	LDSVVFDP	V_H CDR3 variant	129-1c4 variant
207	WGTGQHEN	V_H CDR3 variant	129-1c4 variant
208	WGTGHHDP	V_H CDR3 variant	129-1c4 variant
209	NFKPSFDP	V_H CDR3 variant	129-1c4 variant
210	ANGGRFDP	V_H CDR3 variant	129-1c4 variant
211	WGTGHLEP	V_H CDR3 variant	129-1c4 variant
212	TGLPRFDP	V_H CDR3 variant	129-1c4 variant
213	SNVGKFDP	V_H CDR3 variant	129-1c4 variant
214	NAVARFDP	V_H CDR3 variant	129-1c4 variant
215	TDRPQFDP	V_H CDR3 variant	129-1c4 variant
216	SLTVDFDP	V_H CDR3 variant	129-1c4 variant
217	TEMAQFDP	V_H CDR3 variant	129-1c4 variant

Figure 1Q

218	WGEGHLEY	V_H CDR3 variant	129-1c4 variant
219	QKKVEFDP	V_H CDR3 variant	129-1c4 variant
220	TGYPVFNP	V_H CDR3 variant	129-1c4 variant
221	ANSAKFDP	V_H CDR3 variant	129-1c4 variant
222	VGRPQFDP	V_H CDR3 variant	129-1c4 variant
223	TYNPMFDP	V_H CDR3 variant	129-1c4 variant
224	TERPVFDP	V_H CDR3 variant	129-1c4 variant
225	LDLPRFDP	V_H CDR3 variant	129-1c4 variant
226	WGSGSIDH	V_H CDR3 variant	129-1c4 variant
227	LDRVCSRW	V_H CDR3 variant	129-1c4 variant
228	NTLPVFDP	V_H CDR3 variant	129-1c4 variant
229	IKPGRFDP	V_H CDR3 variant	129-1c4 variant
230	TGYPVFDP	V_H CDR3 variant	129-1c4 variant
231	IKPGMFDP	V_H CDR3 variant	129-1c4 variant
232	NMTPRFDP	V_H CDR3 variant	129-1c4 variant
233	TERPSFDP	V_H CDR3 variant	129-1c4 variant
234	TNYGTFDP	V_H CDR3 variant	129-1c4 variant
235	TSRPSFDP	V_H CDR3 variant	129-1c4 variant
236	TYWPAFDP	V_H CDR3 variant	129-1c4 variant
237	IDMPWFDP	V_H CDR3 variant	129-1c4 variant
238	WGTGHHDP	V_H CDR3 variant	129-1c4 variant
239	NARPSFDP	V_H CDR3 variant	129-1c4 variant

Figure 1R

240	NQIVHFDP	V_H CDR3 variant	129-1c4 variant
241	NVMGRFDP	V_H CDR3 variant	129-1c4 variant
242	TDTPVFDP	V_H CDR3 variant	129-1c4 variant
243	NRTVWFDP	V_H CDR3 variant	129-1c4 variant
244	NRMGSFDP	V_H CDR3 variant	129-1c4 variant
245	VKPGFFDP	V_H CDR3 variant	129-1c4 variant
246	IDQGRFDP	V_H CDR3 variant	129-1c4 variant
247	QSLPQFDP	V_H CDR3 variant	129-1c4 variant
248	NELGTFDP	V_H CDR3 variant	129-1c4 variant
249	QKKVEFDP	V_H CDR3 variant	129-1c4 variant
250	IDTPTFDP	V_H CDR3 variant	129-1c4 variant
251	WGYDATLE	V_H CDR3 variant	129-1c4 variant
252	SDGGKFDP	V_H CDR3 variant	129-1c4 variant
253	LDLVRFDP	V_H CDR3 variant	129-1c4 variant
254	ANAGLFDP	V_H CDR3 variant	129-1c4 variant
255	WGTGSNRD	V_H CDR3 variant	129-1c4 variant
256	SETINFDP	V_H CDR3 variant	129-1c4 variant
257	GSYTHGSTFML	V_L CDR3 variant	129-1c4 variant
258	SSFTSGIPWAV	V_L CDR3 variant	129-1c4 variant
259	SSFTSGVPWAM	V_L CDR3 variant	129-1c4 variant
260	SSFTSGLQWVV	V_L CDR3 variant	129-1c4 variant
261	SSFTSQIPWAL	V_L CDR3 variant	129-1c4 variant

Figure 1S

262	SSFTSAEQWVM	V_L CDR3 variant	129-1c4 variant
263	SSFTSQPQFNL	V_L CDR3 variant	129-1c4 variant
264	SSFTSGSTWVL	V_L CDR3 variant	129-1c4 variant
265	SSFTSAVPWAI	V_L CDR3 variant	129-1c4 variant
266	SSFTSGAVFVL	V_L CDR3 variant	129-1c4 variant
267	SSFTSGIVFNL	V_L CDR3 variant	129-1c4 variant
268	ASYRDGSTFML	V_L CDR3 variant	129-1c4 variant
269	ASFQSGSTFML	V_L CDR3 variant	129-1c4 variant
270	ASYQSASTFML	V_L CDR3 variant	129-1c4 variant
271	TSYTASSTFML	V_L CDR3 variant	129-1c4 variant
272	SAFQQSSTFML	V_L CDR3 variant	129-1c4 variant
273	GSYSQQSTFML	V_L CDR3 variant	129-1c4 variant
274	GAYSAGSTFML	V_L CDR3 variant	129-1c4 variant
275	TSYTQGSTFML	V_L CDR3 variant	129-1c4 variant
276	SSFTSGRAFTC	V_L CDR3 variant	129-1c4 variant
277	SSFTSGDHWVL	V_L CDR3 variant	129-1c4 variant
278	SSFTSRIPWAV	V_L CDR3 variant	129-1c4 variant
279	SSFTSGKAWVI	V_L CDR3 variant	129-1c4 variant
280	SSFTSAEAWAP	V_L CDR3 variant	129-1c4 variant
281	SSFTSGDRFNL	V_L CDR3 variant	129-1c4 variant
282	SSFTSYKPHMV	V_L CDR3 variant	129-1c4 variant
283	SSFTSGIQFNL	V_L CDR3 variant	129-1c4 variant

Figure 1T

284	SSFTSAAREAL	V_L CDR3 variant	129-1c4 variant
285	SSFTSGSRFVL	V_L CDR3 variant	129-1c4 variant
286	SSFTSSLPWAL	V_L CDR3 variant	129-1c4 variant
287	SSFTSGIKFTL	V_L CDR3 variant	129-1c4 variant
288	SSFTSAIPWSL	V_L CDR3 variant	129-1c4 variant
289	SSFTSGEQFLL	V_L CDR3 variant	129-1c4 variant
290	SSFTSGPRWNL	V_L CDR3 variant	129-1c4 variant
291	SSFTSGSTFNL	V_L CDR3 variant	129-1c4 variant
292	SSFTSGRRFVL	V_L CDR3 variant	129-1c4 variant
293	SSFTSGNVWVL	V_L CDR3 variant	129-1c4 variant
294	SSFTSAPAFVV	V_L CDR3 variant	129-1c4 variant
295	SSFTSGKTFVL	V_L CDR3 variant	129-1c4 variant
296	SSFTSNIPWAI	V_L CDR3 variant	129-1c4 variant
297	SSFTSSAHFVL	V_L CDR3 variant	129-1c4 variant
298	SSFTSGPVFNI	V_L CDR3 variant	129-1c4 variant
299	SSFTSDRAFNL	V_L CDR3 variant	129-1c4 variant
300	SSFTSEWLWVL	V_L CDR3 variant	129-1c4 variant
301	SSFTSQPRWAP	V_L CDR3 variant	129-1c4 variant
302	SSFTSGIRFNL	V_L CDR3 variant	129-1c4 variant
303	SSFTSGRAFNL	V_L CDR3 variant	129-1c4 variant
304	SSFTSGPVFNL	V_L CDR3 variant	129-1c4 variant
305	SSFTSGQQWVL	V_L CDR3 variant	129-1c4 variant

Figure 1U

306	SSFTSGIRFNV	V_L CDR3 variant	129-1c4 variant
307	SSFTSGVTWLL	V_L CDR3 variant	129-1c4 variant
308	SSFTSGRIFNL	V_L CDR3 variant	129-1c4 variant
309	SSFTSGIPWIV	V_L CDR3 variant	129-1c4 variant
310	TSYTLGSTFML	V_L CDR3 variant	129-1c4 variant
311	TSYTHGSTFML	V_L CDR3 variant	129-1c4 variant
312	SSFTSGYAWLL	V_L CDR3 variant	129-1c4 variant
313	TSYVMGSTFML	V_L CDR3 variant	129-1c4 variant
314	SSFTSGSTFTL	V_L CDR3 variant	129-1c4 variant
315	TSFTSGSTFML	V_L CDR3 variant	129-1c4 variant
316	TSSTLGSTFML	V_L CDR3 variant	129-1c4 variant
317	TRYVMGSTFML	V_L CDR3 variant	129-1c4 variant
318	TSYREGSTFML	V_L CDR3 variant	129-1c4 variant
319	ASYQASSTFML	V_L CDR3 variant	129-1c4 variant
320	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAKWG DGTLNPWGQG TMVTVSS	Full-length V_H - germlined	g-194-b09
321	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAKTN SAKFDPWGQG TMVTVSS	Full-length V_H - germlined	g-194-g09
322	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAKNE RPSFDPWGQG TMVTVSS	Full-length V_H - germlined	g-196-g03
323	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAKTN SAKFDPWGQG TMVTVSS	Full-length V_H - germlined	g-196-h02

Figure 1V

324	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAKTG YPSFDPWGQG TMVTVSS	Full-length V_H - germlined	g-194-e01
325	EVQLLESGGG LVQPGGSLRL SCAASGFTFS SYAMSWVRQA PGKGLEWVSA ISGSGGSTYY ADSVKGRFTI SRDNSKNTLY LQMNSLRAED TAVYYCAKWG TGTLWPWGQG TMVTVSS	Full-length V_H - germlined	g-194-e06
326	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLMI SEVNKRPSGV SNRFSGSKSG NTASLTISGL QAEDEADYYC SSFTSGLPWV VFGGGTKLTV L	Full-length V_L - germlined	g-194-b09
327	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLMI SEVNKRPSGV SNRFSGSKSG NTASLTISGL QAEDEADYYC SSYTMGSTFM LFGGGTKLTV L	Full-length V_L - germlined	g-194-g09
328	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLMI SEVNKRPSGV SNRFSGSKSG NTASLTISGL QAEDEADYYC TSYTMGSTFM LFGGGTKLTV L	Full-length V_L - germlined	g-196-g03
329	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLMI SEVNKRPSGV SNRFSGSKSG NTASLTISGL QAEDEADYYC TSYTMGSTFM LFGGGTKLTV L	Full-length V_L - germlined	g-196-h02
330	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLMI SEVNKRPSGV SNRFSGSKSG NTASLTISGL QAEDEADYYC TSYRAGSTFM LFGGGTKLTV L	Full-length V_L - germlined	g-194-e01
331	QSALTQPASV SGSPGQSITI SCTGTSNDVG AYNYVSWYQQ HPGKAPKLMI SEVNKRPSGV SNRFSGSKSG NTASLTISGL QAEDEADYYC SSFTSGLPWV LFGGGTKLTV L	Full-length V_L - germlined	g-194-e06
332	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAAATGGGGA GACGGGACCTTGAACCCGTGGGGCCAAGGGACAATGGTCACCGTCTCCTC A	Full-length V_H DNA - germlined	g-194-b09

Figure 1W

333	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAAAACGAAC TCCGCCAAGTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCCTC A	Full-length V_H DNA - germlined	g-194-g09
334	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAAAAACGAG AGGCCGTCGTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCCTC A	Full-length V_H DNA - germlined	g-196-g03
335	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAAATGGGGA GACGGGACCTTGAACCCGTGGGGCCAAGGGACAATGGTCACCGTCTCCTC A	Full-length V_H DNA - germlined	g-196-h02
336	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAAAACGGGG TACCCCTCCTTCGACCCCTGGGGCCAAGGGACAATGGTCACCGTCTCCTC A	Full-length V_H DNA - germlined	g-194-e01

Figure 1X

337	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTC CCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCA TGAGCTGGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCT ATTAGTGGTAGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCG GTTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGA ACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCGAAATGGGGA ACGGGGACCTTGTGGCCCTGGGGCCAAGGGACAATGGTCACCGTCTCCTC A	Full-length V_H DNA - germlined	g-194-e06
338	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATGATT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGACCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCAGCTCATTTACAAGCGGGCTCCCCTGGGTC GTCTTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA - germlined	g-194-b09
339	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATGATT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGACCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCAGCAGCTACACGATGGGGAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA - germlined	g-194-g09
340	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATGATT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGACCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCACCTCGTACACCATGGGCAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA - germlined	g-196-g03
341	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATGATT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGACCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCACCTCGTACACCATGGGCAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA - germlined	g-196-h02

Figure 1Y

342	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATGATT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGACCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCACCTCGTACACCATGGGCAGCACTTTTATG CTATTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA - germlined	g-194-e01
343	CAGTCTGCCCTGACTCAGCCTGCCTCCGTGTCTGGGTCTCCTGGACAGTC GATCACCATCTCCTGCACTGGAACCAGTAATGACGTTGGTGCTTATAATT ATGTCTCCTGGTACCAACAACACCCAGGCAAAGCCCCCAAACTCATGATT TCTGAGGTCAATAAACGGCCCTCAGGGGTTTCTAATCGCTTCTCTGGCTC CAAGTCTGGCAACACGGCCTCTCTGACCATCTCTGGGCTCCAGGCTGAGG ACGAGGCTGATTATTACTGCAGCTCATTTACAAGCGGGTTGCCGTGGGTG CTCTTCGGCGGAGGGACCAAGCTGACCGTCCTA	Full-length V_L DNA - germlined	g-194-e06
344	ASTKGPSVFP LAPSSKSTSG GTAALGCLVK DYFPEPVTVS WNSGALTSGV HTFPAVLQSS GLYSLSSVVT VPSSSLGTQT YICNVNHKPS NTKVDKKVEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSREE MTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTPPV LDSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK	IgG_1 heavy chain constant region	All
345	GQPKAAPSVT LFPPSSEELQ ANKATLVCLI SDFYPGAVTV AWKADSSPVK AGVETTTPSK QSNNKYAASS YLSLTPEQWK SHRSYSCQVT HEGSTVEKTV APTECS	IgG_1 light chain constant region	All
346	MEWSWVFLFF LSVTTGVHS	Heavy chain signal sequence	All
347	MSVPTQVLGL LLLWLTDARC	Light chain signal sequence	All

Figure 1Z