

Table S5. V gene usage and deduced aminoacid sequences of CDR3 after two round of activation/selection on HeLa cells.

Clone number	VH Family	VH Gene	VH CDR3	VL Family	VL Gene	VL CDR3	N° repetitions
46	VH4	DP-70/4d68...+, IGHV4-4*02	ALHRGE	VL3	V2-13, IGLV3-19*01	NSRDSSGFV	0
87	VH1	DP-5/VI-24P+, VH1-24, IGHV1-24*01	SNFWSX	VL3	V2-13, IGLV3-19*01	NSRDSSGRNV	0
135	VH4	DP-69/4d255...	EDRC	VL3	V2-13, IGLV3-19*01	NSRDSSGFVFG	0
138	VH4	DP-68/1.9IL...+, 4.42/VH4.13..., VH4-28, IGHV4-28*03, IGHV4-28*01	YGDGMA	VL3	V2-13, IGLV3-19*01	NSRDSSGFVFG	0
10	VH7	VI-4.1b+, IGHV7-4-1*02	RSPN	VL1	V1-16, IGLV1-44*01	AAWDDSLLTAV	0
79	VH7	VI-4.1b+, IGHV7-4-1*02	EDLHDVASN	VL3	V2-13, IGLV3-19*01	NSRGSSGFMFV	0
133	VH7	VI-4.1b+, IGHV7-4-1*02	LNNTYLL	VL1	IGLV1-47*01	AAWGDSLDRPV	0
59	VH1	DP-5/VI-24P+, VH1-24, IGHV1-24*01	ALSTYPRRV	VL1	V1-16, IGLV1-44*01	AAWDDSLV	0
92	VH1	DP-1/HC15-1	GRTSFR	VL1	IGLV1-47*01	AAWDGLAWAV	0
86	VH1	DP-10/hv1051...+, IGHV1-69*01	RAMTMCDE	VL1	IGLV1-47*01	AAWDDSLPPFV	0
109	VH1	DP-4, VH1-45, IGHV1-45*02	VLRV	VL1	V1-16, IGLV1-44*01	AAWDDSLTCV	0
25	VH5	DP-73/V5-51...+, VH5-51, IGHV5-51*01	ASTRPFDY	VL2	V1-9, IGLV2-33*01	SLYSSSTLLLY	0
76	VH5	DP-73/V5-51...+, VH5-51, IGHV5-51*01	MPVN	VL2	V1-9, IGLV2-33*01	SLYSSSYNPLV	0
145	VH1	DP-3+, IGHV1-f*01	NTLVCSR	VL2	V1-9, IGLV2-33*01	SLYSSSYV	2
155	VH1	DP-3+, IGHV1-f*01	SDIVGTH	VL1	V1-16, IGLV1-44*01	AAWDDSLSSMV	0
123	VH1	DP-3+, IGHV1-f*01	PSLHQYL	VL1	IGLV1-41*01	LAWDTSRPV	0
39	VH1	DP-1/HC15-1	EEPG	VL4	V5-1, IGLV4-3*01	GESHTIDGGQV	2
98	VH5	DP-73/V5-51...+, VH5-51, IGHV5-51*01	MSLRFDY	VL9	IGLV9-49*01	RAGHGSGSNFV	0
12	VH5	DP-73/V5-51...+, VH5-51, IGHV5-51*01	YRKR	VL1	08, 018, IGKV1D-33*01, IGKV1-33*01	QOYDNLPT	0
91	VH5	DP-73/V5-51...+, VH5-51, IGHV5-51*01	KSMTSRLVN	VL1	02, 012, IGKV1D-39*01, IGKV1-39*01	QOYSTLT	0
89	VH5	DP-73/V5-51...+, VH5-51, IGHV5-51*01	GLNLCKE	VL2	011, 01, IGKV2D-40*01, IGKV2-40*01	MQRIEFPSC	0
71	VH1	DP-1/HC15-1	TASVNMV	VL2	IGKV2	MQDAQDPT	0
72	VH1	DP-3+, IGHV1f*01	ALLCG	VL2	A3, A19, IGKV2D-28*01, IGKV2-28*01	MQASTNSSST	0
27	VH1	DP-75/VI-2...+, VH1-2, IGHV1-2*02	AKGK	VL9	IGLV9-49*01	GADHGRGATS	0
22	VH1	DP-4, VH1-45, IGHV1-45*02	DRNAGLPPYKQ	VL3	L25, IGKV3/OR2-268*02, IGKV3D-7*01	QQDYNLS	0
160	VH1	DP-4+, VH1-45, IGHV1-45*02	AWPSGAECA	VL1	VL1, IGLV1*01	MQSIQLLT	0
105	VH1	DP-1/HC15-1	VQEWSFHT	VL2	011, 01, IGKV2D-40*01, IGKV2-40*01	MQRIF	0
62	VH1	DP-2/V71-5+, IGHV1-58*01	TWKHIKFG	VL2	A2, IGKV2D-29*01	CKMHKILSTO	3
82	VH5	DP-73/V5-51...+, VH5-51, IGHV5-51*01	LVSWSFDY	VL1	L8, IGKV1D-16*01	QQLNSYLT	0
102	VH1	DP-75/VI-2...+, VH1-2, IGHV1-2*02	YTAMCENV	VL1	L15, IGKV1D-16*01	QOYNSYRT	0
30	VH6	IGHV6	QPLQT	VL2	V1-9, IGLV2-33*01	GLYSSSYLMV	2
35	VH6	IGHV6	QHGPRFDY	VL2	V1-9, IGLV2-33*01	AYIPSRVY	0
3	VH6	IGHV6	KLRSPFDY	VL1	V1-16, IGLV1-44*01	AAWDDSLLV	0
52	VH6	IGHV6	ISPDADFY	VL1	V1-11, IGLV1-36*01	AAWDDSLPWIV	0
36	VH6	IGHV6	PRRLSFDY	VL1	L8, IGKV1-9*01	LQDYNYPPDT	0
128	VH6	IGHV6	PRRLSFDY	VL1	L8, IGKV1-9*01	LQITTRLIRS	0
81	VH6	IGHV6	SIRVSFDY	VL1	L15, IGKV1D-16*01	LQGYNYHWT	0
17	VH6	IGHV6	VSWYSFDY	VL2	A7, IGKV2D-24*01	TQATQYPAT	0
134	VH6	IGHV6	AKFT	VL3	V2-1, IGLV3-1*01	QAWDSSTFVFG	0
57	VH4	DP-71/3d179d...+, VH4-59, IGHV4-39*09	DLRPG	VL3	L25, IGKV3/OR2-268*02, IGKV3D-7*01	QOYDNLRT	0
99	VH3	DP-31/V3-9P...+, VH3-9, IGHV3-9*01	QWMSVWR	VL1	L8, IGKV1-9*01	QQLNSYPRSX	0
115	VH3	DP-39/HC16-8...	CWNSNGLLFS	VL1	08, 018, IGKV1D-33*01, IGKV1-33*01	QOYGNLPT	0
148	VH1	DP-15/VI-8+, VH1-8, IGHV1-8*01	CISVRSS	VL2	A1, IGKV2D-30*01	MQGTHWRSAT	0
159	VH1	COS-14/HC15-5	RRKFQ	VL3	L25, IGKV3/OR2-268*02, IGKV3D-7*01	QOYDNLTT	0
146	VH1	DP-14/VI-18+, VH1-18, IGHV1-18*01	DKEHCLNVYL	VL3	A27, IGKV3-20*01	QOYSSSOFT	0
158	VH1	hv1f10t, DP-7/21-2...+, VH1-46, IGHV1-46*03, IGHV1-46*01	HNRPMFDY	VL3	V2-1, IGLV3-1*01	QAWDSSSRFV	0