

Table S4. VDJ Assignments and sequences of antibodies from immunized NHPs and mice

Heavy chain VDJ genes (IGH)						VH Protein Sequence		
Sequence ID	V-GENE	D-GENE	J-GENE	CDR3-IMGT	CDRH3 Length	CDRH1	CDRH2	CDRH3
Ab1271	V4-92*01	D2-15*01	J4*01	AAPDCSGPDCSPGFDY	16	QVQLVESGPGLVKPESETLSLCAVSGDSISSTWMMIRQPPKGLWIGRIISGDDGNTDYSPLKSRVTISDTSTKNQLSLRLTSVAADTAAYVYCAAPDCSG—PDCSPGFDYWGQGVLTIVSS		
Ab1289	V5-43*01	D3-9*01	J4*01	SKARYEDEYGYYSYDYGY	18	QVQLVQSGAEVKKRAGESLRISCKTSGYIFSDGWIDWRQMPGRGLEWMSIYPGDSERYNPFQGHVITSAOKSISTIYLOWSSKASDATTAYYCSKARYEDEYGYYSYDYWGQGVLTIVSS		
Ab1303	V4-160*01	D2-27*01	J4*01	ARRDTRFWRGIVYVFEF	16	QVQLQESGPGLVKPESETLSLCAVSGGSIQNYWSWIRQSPKGLWIGIINDYSGRDYNPDKSRVTISDTSTNOFFLTLSSVSAADTAAYVYCARRDTRF—WRGIYVFEFYGQGVLTIVSS		
Ab1368	V4-143*01	D6-31*01	J4*01	ARCIVAAGTFYFDY	14	EVQLVQSGPAVVKPSETLSLCAVSGGSIQNYWSWIRQSPKGLWIGIISGSGSYNPNPKLRTVITISKDTSKNQISLKLSSVTAADTAAYVYCARCIVAA—GTFYFDYWGQGVLTIVSS		
Ab1415	V5-43*01	D5-12*01	J4*01	TIPDADNFNSPYFDY	15	EVQLVQSGAEVKKRPGESLMSKTSYSGVFTDITWISWVRQTPKGLWIGIISGSGSYNPNPKLRTVITISKDTSKNQISLKLSSVTAADTAAYVYCARCIVAA—GTFYFDYWGQGVLTIVSS		
Ab1456	V5-43*02	D2-33*01	J6*01	AKWGVDCSDSGCSAFDS	18	EVQLVQSGAEVKKRPGESLMSKTSYSGVFTDITWISWVRQTPKGLWIGIISGSGSYNPNPKLRTVITISKDTSKNQISLKLSSVTAADTAAYVYCARCIVAA—GTFYFDYWGQGVLTIVSS		
Ab1457	V4-147*01	D3-3*01	J4*01	ASPFCSTTSCHPSPFDY	16	QVQLVQSGAEVKKRPGESLMSKTSYSGVFTDITWISWVRQTPKGLWIGIISGSGSYNPNPKLRTVITISKDTSKNQISLKLSSVTAADTAAYVYCARCIVAA—GTFYFDYWGQGVLTIVSS		
Ab1461	V5-43*01	D5-24*01	J4*01	GRIDGNGSFDD	12	QVQLVQSGAEVKKRPGESLMSKTSYSGVFTDITWISWVRQTPKGLWIGIISGSGSYNPNPKLRTVITISKDTSKNQISLKLSSVTAADTAAYVYCARCIVAA—GTFYFDYWGQGVLTIVSS		
Ab1573	V1-198*02	D4-29*01	J5-2*02	ARVGDVRFSGYAMDV	15	QVQLVQSGAEVKKRPGASVSKASGFTFGYRFTWVRQAPQGLWVGIPLVGVNLSAKKFKGRVITADTNTVYMDLSSLRSEDATVAYVYCARVGDVRF—GSGYAMDVWGRGALVTIVSS		
Ab874NHP	V3-103*01	D6-43*01	J1*01	AKSPWGQSTSEYFEF	16	EVQLVETGGVLVQPGSLKLSCAASGFTFSYQGMWVRQAPKGLWVSGINSGGTKYYADSVKGRFTISRDNKNTLSLQMSLRAEDATVAYVYCAKSPWGQ—STSEYFEFVWQGVLTIVSS		
Ab1170NHP	V1-111*02	D2-39*02	J4*01	ARGGGHSFDF	11	QVQLVQSGAEVKKRPGASVSKASGFTFDHFLHWVRQAPKGLWVSGVDPEDGEADYAKFDQRVAITADMSTDAYMELSSLRPEDATVAYVYCARGG—GHSSDFWQGVLTIVSS		
Ab275mur	VH5-6*01	D1-1*01	J4*01	ARHGTTTGVAMDY	14	EVQLQESGGDLVQPGSLKLSCAASGFTFSRYGMSWVRQTPDKRLWEVATISSGGSYTYYPDSVKGKFTISRDNKNTLSLQMSLRAEDATVAYVYCARHGITT—VGVAMDYWGQGVLTIVSS		
Ab283mur	VH5-6*01	D1-1*01	J3*01	ARHEHYFGSSSHFAY	15	EVKLVESSGDLVMPGSLKLSCAASGFTFNSYGMWVRQTPDKRLWEVATISSGGSYTYYPDSVKGKFTISRDNKNTLSLQMSLRAEDATVAYVYCARHEHYF—GSSSHFAYWGQGVLTIVSS		
Light chain VJ genes						VL Protein Sequence		
Sequence ID	V-GENE	J-GENE	CDR3-IMGT	CDRL3 Length	CDRL1	CDRL2	CDRL3	
Ab1271	LV1-85*01	LJ3*01	QSYDSSMSAHL	12	-QPVLTOPPSVSGAPQQRVTISCTGSSS-DIGR-FYVQVYQQLPGTAPKLLIYEN—TKRPSGIDRFSGSISGSPASLTIITGLQSEDEADYYCQSYDSSMSAHLFGGGTRLTIVL			
Ab1289	LV1-72*01	LJ2A*01	SAWINDLGGPV	11	-QSVLTQPHSVSGAPQSVTISCTGSSS-NIET-NYVYVYQQLSGRAPKLLIYNN—DQRPSGVDRFSGSISGTSASLAIISGLQSEDEADYYCSAWINDLGGPV-FGGGTRLTIVL			
Ab1303	LV4-97*01	LJ1*01	QVWTTGIYI	9	-QSVLTQPSASASLQASVKTCTLSGG-LSR-YTIAWYQRRGQAPFLRLRLDSVGSHTKVDGIPDRFSGSISGTERLYTISGLQSEDEADYYCQVWTTGIYI—YIFGGGTRLSVL			
Ab1368	LV2-32*01	LJ2A*01	CSYAGSYTWV	10	-QSALTQPRSVSGSPGQSVTISCTGSSS-DIGGYNVYVYQVQHPGTAPKLLIYAV—SKRPSGVDRFSGSISGTSASLTIITGLQAEDEADYYCSYAGSYT—WVFGGTRLTIVL			
Ab1415	LV1-85*01	LJ6*01	QSYDSTLNAHV	11	-QLVLTQPPSVSGAPQQRVTISCTGSSS-NIGP-YFVQVYQQLPGTAPKLLIYEN—NKRPSGVDRFSGSISGSDTSASLTIITGLQAEDEADYYCQSYDSTLNAHV-FGSGTKLTIVL			
Ab1456	LV1-85*01	LJ6*01	QSYDSTLNAHV	11	-QSVLTQPPSVSGAPQQRVTISCTGSSS-NIGP-YFVQVYQQLPGTAPKLLIYEN—NKRPSGVDRFSGSISGSDTSASLTIITGLQAEDEADYYCQSYDSTLNAHV-FGSGTKLTIVL			
Ab1457	LV1-85*01	LJ2*01	QSFDNPSAHL	12	-NFMLTQPPSVSGAPQQRVTISCTGSSS-NMGD-YFVQVYQQLPGTAPKLLIYEN—TKRPSGVDRFSGSISGSDTSASLTIITGLQAEDEADYYCQSFDNPSAHLFGGGTRLTIVL			
Ab1461	LV1-64*02	LJ2A*01	LSYDSSLGWL	11	-QSVLTQPPSVSGAPQQRVTISCTGSSS-NIGD-YFVQVYQQLPGTAPKLLIYQY—NKRPSGVDRFSGSISGSDTSASLTIITGLQAEDEADYYCLSYDSSLGWL-FGGGTRLTIVL			
Ab1573	LV1-64*01	LJ2A*01	QSYDSSLTYW	11	-QSALTQPPSVSGAPQQRVTISCTGSSS-NFEY-SFVYVYQVQHPGTAPKLLIYDN—YKRPSGVDRFSGSISGSDTSASLTIITGLQAEDEADYYCQSYDSSLTYW-FGGGTRLTIVL			
Ab874NHP	LV3-34*01	LJ3*01	QWDSSTLHPL	11	-QSVLTQPPSVSVSQQTARITCGDN—IGS-EAVQVYQKPAQVPLVIYDD—SERPSGIDRFSGSISGNTATLITISGVEAGDEADYYCQWDSSTLHPLFGGGTRLTIVL			
Ab1170NHP	LV2-32*02	LJ2A*01	SSYAGINTLV	10	-QSVLTQPPSVSGSPGQSVTISCTGSSS-DIGGYNVYVYQVQHPGTAPKLLIYEV—SKRPSGVDRFSGSISGNTASLTIITGLQAEDEADYYCSSYAGINTLV-FVGGGTRLTIVL			
Ab275mur	KV3-4*01	KJ5*01	QNSNEDPYT	9	DIIVMTQSPASLAVSLQQRATISCKASQSVQYDGDVYNNYQKPGOPKLLIYAA—SNLESGIPARFSGSISGSDFTLNIHPVEEADAATYVYQNSNEDPY—YTFGAGTKLELK			
Ab283mur	KV3-4*01	KJ4*01	HQSYEDPFT	9	QIVLQTPSVLAVSLQQRATISCKASQSVQYDGDVYNNYQKPGOPKLLIYAA—SNLESGIPARFSGSISGSDFTLNIHPVEEADAATYVYHQSIEDPFT—FTFGAGTKLELK			