

amino\_acids\_without\_mutations

name	seq	tm	doi	source	fr1	cdr1	fr2	cdr2	fr3	cdr3	fr4	target1	base_name	mutation
Sb14	QVQLVESGGGLVQAGGSLRLSCAASGFPVQAREMEWYRQAPGKEREWAAIKSTGYTATYAVSVKGRFTISRDNAKNTYVLMQNSLKPEDTAVYYCYVYVSSSYGGGTQVTVSS	54.4	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLVEE	AASGFPVQ	WYRQAPG	AAIKSTGYT	AYAVSVKGRFTI	YVYVSSS	IGDGT	Spike RBD	Sb14	
Sb16	QVQLVESGGGLVQAGGSLRLSCAASGFPVAKYTMWYRQAPGKEREWAAIESYGIKWTRYADSVKGRFTISRDNAKNTYVLMQNSLKPEDTAVYYCIWVGAQYHGGGTQVTV	58.5	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLVEE	AASGFPVA	WYRQAPG	AAIESYGIKW	RYADSVKGRFTI	VWVGAQ	HQGGI	Spike RBD	Sb16	
Sb45	QVQLVESGGGLVQAGGSLRLSCAASGFPVYRDMRWYRQAPGKEREWAAYSAGQQTAYADSVKGRFTISRDNAKNTYVLMQNSLKPEDTAVYYCNKVDGHVHEYYDYWG	62.1	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLVEE	AASGFPVY	WYRQAPG	AAIYSAGQQT	RYADSVKGRFTI	NVKDVGH	WGQG	Spike RBD	Sb45	
Sb68	QVQLVESGGGSVQAGGSLRLSCAASGISISITLYGWFRQAPGKEREGVAALITVNGHTYADSVKGRFTVSLDNAKNTYVLMQNSLKPEDTALYYCAAAGWYAWPLHQDDYVW	78.4	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLVEE	AASGISIS	WFRQAPG	AALITVNGHT	YADSVKGRFTI	AAAAGWY	WGQG	Spike RBD	Sb68	
Nb6	QVQLVESGGGLVQAGGSLRLSCAASGIIFGRNAGMWYRQAPGKERELVAGITRRGSITAYADSVKGRFTISRDNAKNTYVLMQNSLKPEDTAVYYCAADPASPGDWGQGTQV	66.9	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Unknown	QVQLVEE	AASGIIFGR	WYRQAPG	AGITRRGSIT	YADSVKGRFTI	AADPASP	WGQG	Spike S2P	Nb6	
Nb20	QVQLVESGGGLVQAGGSLRLSCAASGAGAHRVWFRRAPGKEREFVAIAGSAGGMTNLYDSVKGRFTISRDNAKNTYVLMQNSLKPDQTAVYYCAARDIETAEYTYWGGGTQVTV	71.8	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Llama	QVQLVEE	AVSAGAGH	WFRRAPG	AAIGASGGM	NYLDSVKGRFTI	AARDIETAI	WGQG	Spike RBD	Nb20	
Nb21	QVQLVESGGGLVQAGGSLRLSCAASGLGAHVRGWFRRAPGKEREFVAIAGANGNTNLYDSVKGRFTISRDNAKNTYVLMQNSLKPDQTAVYYCAARDIETAEYTYWGGGTQVTV	72.8	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Llama	QVQLVEE	AVSGLGAH	WFRRAPG	AAIAGANGN	NYLDSVKGRFTI	AARDIETAI	WGQG	Spike RBD	Nb21	
Nb89	HVQLVESGGGLVQAGGSLRLSCAASGGTITFTFRMAWFRQTPGKEREFVAASWGFVNYPDVKGRFTISRDNAKNTYVLEMSLTKEDTAVYYCAARNPQTGOVDYWGQGTQV	65.9	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Llama	HVQLVEE	AASGGTIT	WFRQTGP	AASSWGFV	NYADPVKGRFTI	AARNPQT	WGQG	Spike RBD	Nb89	
W25UACH	QVQLVESGGGLVOPGESLRSLSCAASGSIFGIYAHWFRMAPGKERETAGFGSHGSTNYAASVKGRFTMSRDNAKNTYVLMQNSLKPADTAVYYCHALIKNELGLFDYWGPGQT	57.9	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Alpaca	QVQLVEE	AASGSIFGI	WFRMAPG	AGFGSHGST	NYAASVKGRFTI	HALIKNEL	WGPQ	Spike RBD	W25UACH	
Nb1	QVQLQESGGGSVQAGGSLRLSCAASGGAYRNACMGFRQAPGKEREGAINSVDTTYADPVKGRFTISRDNAKNTYVLMQNSLKPEDTAVYYCAQVARVCPGDGLGASGYNVW	57.9	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGGAYR	GFRQAPG	IINSVDTT	LYADPVKGRFTI	AQVARV	WGQG	sfGFP	Nb1	
Nb2	GSQVLQESGGGSVQAGGSLRLSCAASGPTYSSYFMWFRQAPGMEREQVAASYSGGSTLYADSVKGRFTISQGNAKNTFKLLNINLEPEDTAVYYCALRRRQWSDNTSGWKQ	49.6	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGPTYS	WFRQAPG	AASSYDGGT	LYADSVKGRFTI	ALRRRQW	WGQG	sfGFP	Nb2	
Nb4	QVQLQESGGGSVQAGGSLRLSCAASGNHTILAFRQAPGKEREGVYFTYSTGYTYSYDSVKGRFTISQDNAKNTYVLMQNDLKPEDAGMYCAAGRTRSVRPGRGRIDPGAFDY	75.6	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGNHTI	AFRQAPGI	FYFTSTGYT	YYSDSVKGRFTI	AAGRTRSI	WGQG	sfGFP	Nb4	
Nb7	QVQLQESGGGSVQAGGSLRLSCAESSGMTFSVYNLGLRQAPGQCELSITTRDGSYADSMKGRFTISRDNAKNTYVLMQNTSLKPDQTAVYYCAAGVGVDCTEGGQGTQVTS	51.8	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	ESSGMTFS	LRQAPGQ	SITTRDGST	DYADSMKGRFTI	AAGVGVI	EGQGT	sfGFP	Nb7	
LaG16	GPHMAQVQLVESGGRVLQAGDGLRLSCAASGRITFSTSAMAWFRQAPGREREFVAITVTGNLTGDSVKGRFTISRDRAKNTVLDQMDLEPEDTAVYYCAASRSGYVLSVLR	53.6	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLVEE	AASGRITFS	WFRQAPG	AAITVTGNLT	ILGDSVKGRFTI	SARSRYG	sfGFP	LaG16		
GBP1	MAQVLVESGGALVQPGGSLRLSCAASGFPVNYRSMRWYRQAPGKEREVWAGMSSAGDRSSYEDSVKGRFTISRDQANTYVLMQNSLKPEDTAVYYCNVNWGFVEYWGQGT	46.9	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLVEE	AASGFPVY	WYRQAPG	AGMSSAGDF	SYEDSVKGRFTI	NNVVGFE	WGQG	sfGFP	GBP1	
Nb_7	QVQLQESGGGLVQAGGSLRLSCTAFRSVGVDMVWYRQAPGKQRELVATITVSGSSTYADSVKGRFAISRDNAKTVSLQMSLKPEDTAVYYCDADEDEGLNRRSVWYYWCG	54.5	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Llama	QVQLQEI	TAFRSVGI	WYRQAPG	ATVTSGSST	TYADSVKGRFAI	ADDEDEGL	WSQG	Acute Myeloid	Nb_7	
Nb_12	QVQLQESGGGSVQAGGSLRLSCAASGTYTSSAGMSWRSQVPGROREGIATFVRSOGTNYADSVKGRFTISQNSAKNMVYLQMDNLKTEDTAVYYCSMYAGKAYWGGQGTQV	62.45	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Llama	QVQLQEI	AASGFTTG	WVROAPG	SSINSSGGST	EYASSVKGRFTI	ADEGNPS	EDOGT	Acute Myeloid	Nb_12	
Nb_16	QVQLQESGGGLVQAGGSLRLSCAASSGSLSMNMWGYRQAPGKQREMAQITRRDGTNYSSSMKGRFTISRDNAKNTYVLMQNLRLPEDTAVYYFCANNNRSTYYVWGQGTQV	58.0	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Llama	QVQLQEI	ASSGSLSL	WYROAPG	AQITRRDGT	NYSSSMKGRFTI	ANNNRST	WGQG	Acute Myeloid	Nb_16	
Nb_21	QVQLQESGGGLVQAGGSLRLSCTASVSGTYSSYFMWFRQAPGKQRELVATITVSDTSTTYDSVKGRFAISRDNAKTVSLQMDNLKPEDTAVYYCADEEGHLLNRRSTVYVWG	53.0	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Llama	QVQLQEI	TALRSVGS	WYRQSPG	ATVTSDDT	TYRDSVKGRFAI	ADEEGH	WGQG	Acute Myeloid	Nb_21	
Nb_22	QVQLQESGGGLVQAGGSLRLSCTAFRSVGVDMVWYRQAPGTRQRELVATITVSSSTYADSVKGRFAISRDNAKTVSLQMSLKPEDTAVYYCDADEEGLLNRRSSWYYWCG	58.0	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Llama	QVQLQEI	TAFRSVGI	WYRQAPG	ATVTSSSST	TYADSVKGRFAI	ADDEEGLI	WGQG	Acute Myeloid	Nb_22	
Nb_87	QVQLQESGGGLVQAGGSLRLSCAASGSGISNFIWYRQAPGKQREVARISRSRGSYVESKGRFTISRDNAKNTYVLMQNLKSEDTAVYYCALGNWGGGTQVTVSS	68.0	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Llama	QVQLQEI	AASGISGI	WYROAPG	ARISRSGRS	DYVESVKGRFTI	ALGN	WGQG	Acute Myeloid	Nb_87	
NbPep1	QVQLQESGGGSVQAGGSLRLSCAASGTYTSSAGMSWRSQVPGROREGIATFVRSOGTNYADSVKGRFTISQNSAKNMVYLQMDNLKTEDTAVYYCSMYAGKAYWGGQGTQV	71.05	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	SASGFYD	WFRQVPG	AVINSADGT	YADSVKGRFS	AATDGAT	WGQGTQVTVSS		NbPep1	
NbPep2	QVQLQESGGGSVQAGGSLRLSCTASGFYTSYVYIAWFRQAPGKEREEVAINSSDLTYADSVKGRFTISQNGKTAIVLLMSTLKPEDTAVYYCAAKDGATIFLPSARQISQW	74.35	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	TASGFYYS	WFRQAPG	AVINSSDLST	YADSVKGRFTI	AAKGAT	WGLGTQVTVSS		NbPep2	
NbD1	QVQLQESGGGSVQAGGSLRLSCAASGWTYSTATMGWYRQAPGKERELVSSIFDSYTYKDSVKGRFTISRDNAKNTYVLMQNSLKPEDTAMYYCIPTTSLANWRWGGGTQ	63.9	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGWYSE	WYRQAPC	SSIFSIDENT	YYKDSVKGRFTI	YIPTTSL	WGQGTQVTVSS		NbD1	
NbPep3	QVQLQESGGGSVQAGGSLRLSCAASGTYTSSAGMSWRSQVPGROREGIATFVRSOGTNYADSVKGRFTISQNSAKNMVYLQMDNLKTEDTAVYYCSMYAGKAYWGGQGTQV	62.45	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGTYTS	WSROVPG	AFYRSRGGT	NYADSVKGRFTI	YSMYAGK	WGQGTQVTVSS		NbPep3	
NbPep4	QVQLQESGGGSVQAGGSLRLSCAVSEYDFNYSYSSVSGWFRQAPGKCEVLVSRIGDARTDYSDNVKGRFTISRDNAKNTAYLEMSLKAEATVYYCAANLGSAAVGETPYC	64.55	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	VASEYDFN	WFRQAPG	SRIGDART	DYSDNVKGRFTI	AAQNLS	WGQGTQVTVSS		NbPep4	
NbD9	QVQLQESGGGSVQAGGSLRLSCAVSGTYTSSYFMWFRQAPGKERELVSSIRSYGYTKYADSVKGRFTISQDNAKNTYVLMQNSLKPEDTAVYYCAASRPNLSKDLWGGQGTQV	63.2	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	VASGYLFS	WYRQAPG	SIISRYGPT	KYADSVKGRFTI	AASRPN	WGQGTQVTVSS		NbD9	
NbD8	QVQLQESGGGSVQAGGSLRLSCAASGYTYSNSMGWFRQAPGKEREGVATIDRGGRTLYDSVKGRFTISQDNAKNTYVLMQNSLKPEDTAMYYCAADNWRGDLPSDF	57.95	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGYTYG	WFRQAPG	ATIDRGGRT	LYTDSVKGRFTI	AADDNWF	WGQGTQVTVSS		NbD8	
NbPep5	QVQLQESGGGSVQAGGSLRLSCAVPEYTNYSAMYWFRQAPGKECEYVSGIMRNGTNYADSVKGRFTISRDNAKNTYVLMQNLKPEDTAVYYCAPSDRCQGGGGGTQVTV	67.5	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AVPEYTN	WFRQAPG	SGIMRNGT	NYADSVKGRFTI	APSGDR	GGGQGTQVTVSS		NbPep5	
NbPep6	QVQLQESGGGSVQAGGSLRLSCAASGYTYSNSMGWFRQAPGKERELVATITVSDTSTTYDSVKGRFAISRDNAKNTYVLMQNLKPEDTAVYYCAADNWRGDLPSDF	58.0	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	EVSGET	WFRQAPG	VAFINFGDS	LYANSVKGRFTI	ALSAWY	WGQGTQVTVSS		NbPep6	
NbPep7	QVQLQESGGGSVQAGGSLRLSCTAATGYTISRCMAWFRQAPGKEREGVAVISTGDSGTYADSVKSRFTISQDNANTYVLMQNSLKPEDTAMYYCAAHYARRSGDGCWDP	69.5	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AATGYGITS	WFRQAPG	AVISTGDSGS	YADSVKGRFTI	AAHYARR	WGQGTQVTVSS		NbPep7	
NbPep8	QVQLQESGGGSVQAGGSLRLSCAVSGYSDSNYFMGWFRPHIPDRRERAGIATFVRSOGTNYADSVKGRFTISQDNKDMVYLQMSLKPEDTAVYYCGLSPRWYKREADFDY	65.5	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AVSGYSDS	WFRHPIG	IAFINVGSS	LYADSVKDRFTI	ALSPRWY	WGQGTQVTVSS		NbPep8	
NbD6	QVQLQESGGGSVQAGGSLRLSCAASGYTYSNSMGWFRQAPGKERELVATITVSDTSTTYDSVKGRFTISRDNAKNTYVLMQNLKPEDTAVYYCGVPTGISRWCGYDYGQ	67.15	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	EASGYTSS	WSROAPG	ARITSAGIT	DYASSVKGRFTI	GVVPTIG	WGQGTQVTVSS		NbD6	
NbPep9	QVQLQESGGGSVQAGGSLRLSCAASGLTFSRHITMGWFLRPAKGECEVSTITNDGTYNADSVKGRFTISQDNANTYVLMQNSLKPEDTAVYYCAARGSYERLSPFCMDY	70.8	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGLTFS	WFRAPG	SITINDGTT	NYADSVKGRFTI	AARGSY	WGKGTQVTVSS		NbPep9	
NbPep10	QVQLQESGGGSVQAGGSLRLSCAASGYTYSNYCMGWFRQAPGKERELVATITVSDTSTTYDSVKGRFTISQDNANTYVLMQNSLKPEDTAVYYCAASRPNLSKDLWGGQGTQV	85.75	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGYTYS	WFRQAPG	AILGSGGIT	YYAESVKGRFI	AKSTIRG	WPGTQVTVSS		NbPep10	
NbPep11	QVQLQESGGGSVQAGGSLRLSCADSYTHYCMGWFRQAPGKEREGVARISVLSGRTYADSVKGRFTISQDNKMMVYLQMSLKPEDTAVYYCAAGNWSDLCPEDVEFYWG	65.96298507	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	ADSYRTHY	WFRQAPG	ARISVLSGR	TYADSVKGRFTI	AAGNWS	WGQGTQVTVSS		NbPep11	
NbPep12	QVQLQESGGGSVQAGGSLRLSCAAGAYTTPQYCAWFRQAPGKEREGVAVIWRDGGTYVDSVKGRFTISQNSAKNTYVLMQNLKPEDTAVYYCAATEGVCSSLFLYKTR	66.5	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AAAGYTTQ	WFRQAPG	AAWVRDGG	YYVDSVKGRFTI	AATEGVC	WGQGTQVTVSS		NbPep12	
NbPep13	QVQLQESGGGSVQAGGSLRLSCAASGYTSSAGMSWRSQVPGROREGIATFVRSOGTNYADSVKGRFTISRDNAKNTYVLMQNLKPEDTAVYYCAADNWRGDLPSDF	63.65	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGYIFSE	WYRQAPG	SITISYDGA	AYTDSAKGRFTI	AACPRNK	WGQGTQVTVSS		NbPep13	
NbPep14	QVQLQESGGGSVQAGGSLRLSCTAATYFSSSCMGWFRQAPGKERELVAINSDGTSIAESVKGRFTISQDNANTYVLMQNLKPEDTAVYYCAAPYVDSYARRSGDCKELM	70.58334992	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AATYFSS	WYRQAPG	AINSDDGT	SIASVKGRFTI	APKYVY	WGQGTQVTVSS		NbPep14	
NbPep15	QVQLQESGGGSVQAGGSLRLSCAASGYTYSNYCMGWFRQAPGKEREGVAVISTGDSGTYADSVKGRFTISQDNANTYVLMQNSLKPEDTAVYYCAAGNWSDLCPEDVEFYWG	69.48915423	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	EASKYAYI	WFRQAPG	AVIDTGAIN	TYADSVKGRFTI	AAGPYRQ	WGQGTQVTVSS		NbPep15	
NbPep16	QVQLQESGGGSVQAGGSLRLSCTASGTFDDFDMGWYHSGPNECELVSAISADGTYTNSVKGRFTISRDYAKNTYVLMQNLKPEDTAMYYCAADRWALRTRTACTGAYS	73.2	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	TASGTFDD	WYHOSPC	SAISADGST	YYTNSVKGRFTI	AADRWAL	WGQGTQVTVSS		NbPep16	
NbPep17	QVQLQESGGGSVQAGGSLRLSCAASGSDTITNYGWFRQVPGKEREGVATITRGGSTYTYDSVKGRFTISRDNAKNTYVLMQNLRLKPEDTAMYYCAASGRYIDAFSNYFN	72.55	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGSDT	WFRQVPG	ATITRGGVS	YYTDSVKGRFTI	AASGRY	WGQGTQVTVSS		NbPep17	
NbPep18	QVQLQESGGGSVQAGGSLRLSCAASGYTSSYNYCMGWFRQAPGKERELVATITVSDTSTTYDSVKGRFTISQDNANTYVLMQNSLKPEDTAVYYCAADNWRGDLPSDF	71.45	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGYPN	WFRQAPG	AAINSRAI	GYADSVKGRFTI	ADILGRV	WGQGTQVTVSS		NbPep18	
NbPep19	QVQLQESGGGSVQAGGSLRLSCAVSGYSSSYIAWFRQAPGKEREGVAINSDGTSIAESVKGRFTISQDNANTYVLMQNSLKPEDTAVYYCVLSEYSCSDENYTSWKRAQ	70.4	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AVSGYSYS	WFRQAPG	ACINSGGKL	YYASSVKGRFTI	LVGESYC	RAQGTQVTVSS		NbPep19	
NbD7	QVQLQESGGGSVQAGGSLRLTCLASGDTSDVLYGWFRQAPGKREAVAGLIELHSRSLREFYEDDVEGRFTIGHARKMVHLQMTNLKPEDSATIYYCAKGESGYWSWR	60.05	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	LASGDITS	WFRQAPG	AGLYLEHSR	FYEDDVEGRFTI	AAKGESG	WGQGTQVTVSS		NbD7	
NbD4	QVQLQESGGGSVQAGGSLRLSCAASGDTSRKIMAWFRQAPDKEREGALITPDGTMKYASAGRFTISRDNAKNTYVLMQNLKPEDTAVYYCAATILACTRMTGKEQYRN	58.5	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGDITS	WFRQAPD	ATDPDGTMK	SYADSAKGRFTI	ATKLTYW	WGQGTQVTVSS		NbD4	
NbD12	QVQLQESGGGSVQAGGSLRLSCAASGITYSRSTMGWYRQVPGKERELVSSIRFVNSGTYADSVKGRFTISRDNAKNTAYLQMSLKPEDTAMFYCKAEVADGAYAGHVGWQ	62.95	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGYTSF	WFRQVPG	SSIRWNGST	LYADSVKGRFTI	KAEVAGY	WGQGTQVTVSS		NbD12	
NbPep21	QVQLQESGGGSVQAGGSLRLSCAASGYTSTYCMGWFRQAPGKERELVATITVSDTSTTYDSVKGRFTISQDNANTYVLMQNSLKPEDTAVYYCAADNWRGDLPSDF	67.15	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.2004.08.011</a>	Camel	QVQLQEI	AASGYTYS	WFRQEAG	ATINRDSGIT	DYADSVKGRFTI	AAQRTYT	RGQGTQVTVSS		NbPep21	
NbPep22	QVQLQESGGGSVQAGGSLRLSCTTSGFLSYNMGWFRQAPGKEREGIAAHSVNGDTYADSVKGRFISQDNANTMYQLSSLKPEDTAVYYCAAKMRLYWSDCRLAPAD	64.25	<a href="https://doi.org/10.1016/j.jmb.2004.08.011">https://doi.org/10.1016/j.jmb.20</a>											



WE11f	DVQLQASGGGLVOPGGSRLRLSCAASGRFTFSRYAMAWFRQAPGKEREFVAISRSGHATRYADSAAESRFTISRDNAKNTVYLQMNLSLKPEDTAVYYCAAPASERTVLPGTDERY	50.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AASGRFTFS WFRQAPG AAISRSGHAT YADSAAESRFTI AAPASERTI WGGQ E2/E3E2 (Wes WE11f)	
WB9	DVQLQASGGGLVQAGGSRLRLSCATSISGISVNSDMGWYRQPGKQRELVAFNRSRAGTNTYLSVKGRFTISRDNAKNTVYLQMNLSLKEDATYYCYNTNPINRWNVWGGQAVQT	75.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI ATSGISVSN WYRQPGP ARNRSRAGTI NYLDSVKGRFTI NTNPNRW WGGQ E2/E3E2 (Wes WB9)	
WC10	DVQLQASGGGLVEAGGSRLRLSCTTSGISVRNSDMGWYRQPGKQRELIARSSRGGATNYLDSVTGRFTISRDNKNTVFLQMNLSLKPEDTAVYYCNTNPINHWNWYWGQGTQVT	60.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI TTSGISVRN WYRQPGP ARSSRGGAT NYLDSVTGRFTI NTNPNINH WGGQ E2/E3E2 (Wes WC10)	
WH11	EVQLQASGGGLVQAGGSRLRLTCAVAGSLTFVNYALDGYWFRQAPGKERELVAGMWSGVAYYGFDFVKGRFTMSRDNAKNMVYLQMNLSLEPEDTAVYYCAARSPTTQYDYYWGQT	72.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI VASGLTFVN WYROAPG AGMWSGVG YYGDFVKGRFT AARSPTTI WGGQ E2/E3E2 (Wes WH11)	
WE10	DVQLQASGGGLVQAGGSRLRLSCVASGLTFVNYAIDGYWFRQAPGKEREFVAGMWNDSGVAYYGFDFVKGRFTIARDNAKNTVYLQMNLSLKPEDTAVYFCGARSPPNLQDYDYGWGT	54.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI VASGLTFVN WYROAPG AGMWNDSG YYGDFVKGRFT GARSPPN WGGQ E2/E3E2 (Wes WE10)	
WF4	DVQLQASGGGLVQAGGSRLRLSCAVSDNTSLNLGMGYRQPGKQREFVAIRNRNGNGNGIEYADSVMGRTFSYDNSKATVYLQMNLSLKPEDTALYYCYVPARDWHTYWAGGTQVT	43.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AVSDNTTSI YYRQPGPI AYARNNGAP KYADSVMGRTF YAPDRWH WAGG E2/E3E2 (Wes WF4)	
D10	QVQLVESGGGLVQPGGSLRLHCAASGSIASIYRTCWYRQGTGKQRELVATISGGNTYADSVKGRFTISRDNAKNTIDLQMNLSLKPEDTAVYYCNDAEAGIGGFNDYWGQGTQV	66.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Alpaca	QVQLVES AASGSIASI WYRQGTG AATISGGNT YYADSVKGRFTI NDAEAGIG WGGQ ricin D10	
E1	QVQLVESGGGLVQAGGSRLRLSCAASGRFTSRSSMGWFRQAPGKEREFVASIVWADGTLYGDSVKGRFTVSRDNKNMNVYLQMNLSLKPEDTAVYYCADNPKVRGLVAVRAIDY	65.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Alpaca	QVQLVES AASGRFTFS WFRQAPG ASIVWADGTI LYGDSVKGRFTI ADNPKVR GL WGGQ ricin E1	
F5	QVQLVESGGGLVQPGGSLRLSCAASGRTLDLYAIGWFRQPGKEREFVACVKGDSITYADSVKGRFTISRDNAGAVYLQMNLSLKPEDTAVYYCASRPCLGVPLDFSGWGGQTQ	70.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	QVQLVES AASGRTLDI WFRQVPG ACVKGDST YYADSVKGRFTI ASRPCFLC WGGQ ricin F5	
F6	QVQLVESGGGLVQAGGSRLRLSCATSGGTFSYDGMGWFRQAPGKEREFVAIRNRNGNGNGIEYADSVKGRFTISRDNAKNTVYLQMNLSLKPEDTAVYYCAASISGYANTIERYN	74.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Alpaca	QVQLVES ATSGGTFSI WFRQAPG AIARNNGNGI EYADSVKGRFTI AASISGYA WGGQ ricin F6	
H1W	DVQLQASGGGLAQAGGSRLRLSCAYSGDTYNDYAMAWFRQAPGKREFVAIRARGGGTLEYLDSVKGRFTISRDNAGENTAYLQMDNLQPDPTALYFCALAMGGYAYRAFERYSV	70.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AYSGDTYN WFRQAPG AIARARGGGT EYLSVKGRFTI ALAMGGY WGGQ ricin H1W	
F6m+	QVQLVESGGGLVQAGGSRLRLSCATSGGTFSYDGMGWFRQAPGKEREFVAIRNRNGNGNGIEYADSVKGRFTCSRDNAKNTVHLQMNLSLKPEDTAVYYCAASISGYANTIERYN	85.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	QVQLVES ATSGGTFSI WFRQAPG CAIRNRNGNGI EYADSVKGRFTI AASISGYA WGGQ ricin F6m+	
sdAb A3	EVQLVESGGGLVQAGDSRLRLSCTASGRTFSRAWMGWFRQAPGKEREFVAISAAPGTAYAFYADSVRGFRFSIADSAKNTVYLQMNLSLKPEDTAVYYCAADLMQVAAVMNQRS	85.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLVES TASGRTFSF WFRQAPG AISAAPGTAI FYADSVGRFSI AADLMQV WGGTI Staphylococci sdAb A3	
Nb2	QVQLQESGGGLVQPGGSRLRLSCAASGRTFSAYPMSWFRQAPGKGLVWATITNGGFTDYADSVKGRFTISRDNAKNTVYLQNLKLTEDTALYYCAQGSAMTSVLPPTPKGQ	65.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLQEI EASGRTFS WFRQAPG AITNGGGFTI DYADSVKGRFTI AQGSAMT KGOGI Bt Cry1B toxin Nb2	
Nb3	QVQLQESGGGSVQAGGSRLRLSCAASKVTASRYCMGWFRQAPGKEREGVAVRPWGGRTYYAESVKGRFTISQDNAKNTVYLQMNLSLKPEDTAMYYCAATPAEYYSGGYCG	65.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLQEI AASKVTAS WFRQAPG ARWPVGGSF YYAESVKGRFTI AATPAEYY WGGQ Bt Cry1B toxin Nb3	
VHH212	MVQLQESGGGSVQAGGSRLRLSCVASGDTASMYCMGWFRQAPGKEREEVATIDSGSVIADSLKGRFTISKDSANNALVHLMNLSRPEDTANYCYAAGRPPCGSIFGPKYYGY	50.75	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Unknown	MVQLQEI VASGDTAS WFRQAPG ATIDSGSVI SIADSLKGRFTI AAGRPPC WKGK HIF-1A2A+ VHH212	
G1	DVQLQASGGGLVQTGGSRLRLSCENSGRALRIMGWFRQAPGKEREFVATINRNGESTYSDSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAADRPQTKTIRADYDY	59.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI ENSGRALR WFRQAPG ATINRNGEST YYSDSVKGRFTI AADRPQP WGGT Lassa virus nu E1	
E11	DVQLQASGGGLVQAGDSRLRLSCAASGRTVSPYGVGWFRQAPGKEREFVAIRSRSGTAYADSVKGRFTISRDNAKNTVYLQMNLSLKPEDTAVYYCAARSASSYSTRYKREDY	60.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AASGRTVS WFRQAPG AALSRSGTTFI AYADSVKGRFTI AARSASS WGGQ Lassa virus nu G11	
E10	DVQLQASGGGLVQAGASRLRLSCAASGRTYTMGWFRQAPGKEREFVAIAIRSGSTYYTDSVKGRFTISRDNAKNTVFLQNLKSLKPEDTAVYYCAADALPYISAGSMSTRNPYGW	48.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AASGRTYTI WFRQAPG AIAIRSGGTTI YYTDSVKGRFTI AADALPYI WGGQ Lassa virus nu E10	
E11	EVQLQASGGGLAQPGGSRLRLSCAASGRTVLLYYGIGWFRQAPGKEREGVSCISNDGTTYADSVKGRFTISRDNAKNTVYLQMNLSLKPEDTAVYYCATELGTHRGSYFFPKRVE	64.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI AASGRTL V WFRQAPG SCISNDGTI YYADSVKGRFTI ATELGNTI WGGQ Lassa virus nu E11	
B5	EVQLQASGGGLAQPGGSRLRLSCAASGRTVLLYYGIGWFRQAPGKEREGVSCISNDGTTYADSVKGRFTISRDNAKNTVYLQMNLSLKPEDTAVYYCAADFPNRSYFFNRRVE	64.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI AASGRTL V WFRQAPG SCISNDGTI YYADSVKGRFTI ATELGNTI WGGQ Lassa virus nu B5	
H6	DVQLQASGGGVQPGGSRLRLSCVASGRTVLLYYGIGWFRQAPGKEREGVSCISNDGTTYADSVKGRFTISRDAKNTVYLQMNLSLKPEDTAVYYCATELGTHRGSFFNRRV	64.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI VASGRTL V WFRQAPG SCISNDGTI YYADSVKGRFTI ATELGNTI WGGQ Lassa virus nu H6	
F3	DVQLQASGGGLVQPGGSRLRLSCAASGRTVLLYYGIGWFRQAPGKEREGVSCISDGTYYADSVKGRFTISRDNAKNTVYLQMNLSLKPEDTAVYYCATELGTHRGSYFFPKRVE	65.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AASGRTL V WFRQAPG SCISDGTI YYADSVKGRFTI ATELGNTI WGGQ Lassa virus nu F3	
C7	EVQLQASGGGLVQPGGSLRLSCVASGRTLYYIGWFRQAPGKEREGVSCISNDGTTYADSVKGRFTISRDAKNTVYLQMNLSLKPEDTAVYYCATELGTHRGSFFNRRVE	66.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI VASGRTL V WFRQAPG SCISNDGTI YYADSVKGRFTI ATELGNTI WGGQ Lassa virus nu C7	
concave	QVQLVESGGALVQPGGSLRLSCAASGFPVSSSMTWYRQAPGKEREWAAISSSGSTTYEDSVKGRFTISRDNARTVYLQMNLSLKPEDTAVYYCTVTGSTYTGQGTQVTSS	74.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLVES AASGFPVS WYRQAPG AAISSSGSTT TYEDSVKGRFTI TVTGSTY TGQGTQVTSS concave	
loop	QVQLVESGGALVQPGGSLRLSCAASGFPVSSSMTWYRQAPGKEREWAAISSSGSTTYEDSVKGRFTISRDNARTVYLQMNLSLKPEDTAVYYCNKDSGSSSSDYWYWGQ	75.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLVES AASGFPVS WYRQAPG AAISSSGSTT TYEDSVKGRFTI NKDSGS WGGQTVTVSS loop	
1zvH	DVQLVESGGGSVQAGGSRLRLSCAASGYASINYLGWFRQAPGKEREGVAIVSPAGTTPYADSVKGRFTVSLDNAENTVYLQMNLSLKPEDTALYYCAAARQGWYPLNPSYYNY	74.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	DVQLVES AASGYASII WFRQAPG AIVSPAGGTI YYADSVKGRFTI AARQGW WGGQ egg white lysoz 1zvH	
convex	QVQLVESGGSVQAGGSRLRLSCAASGSISSITLWFRQAPGKEREGVAALTSSTGTYADSVKGRFTVSLDNAENTVYLQMNLSLKPEDTALYYCAAASGSSSLSSSYTYW	95.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLVES AASGSISSI WFRQAPG AALTSSTGTI YYADSVKGRFTI AASGSSI WGGQTVTVSS convex	
NbCEA5	QVQLVESGGSVQAGGSRLRLSCAASGDTYGSYWMGWFRQAPGKEREGVAIAIRSGGTYYADSVKGRFTISRDNARTVYLQMNLSLKPEDTAVYYCAASGLVGLGHEDWFNY	70.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLVES AASGDTYG WFRQAPG AIARNRGSTI YYADSVKGRFTI AASGLVGL WGGQ CEA NbCEA5	
NbCEA5_hs	QVQLVESGGGLVQPGGSLRLSCAASGDTYGSYWMGWFRQAPGQGLLEAVAIARNRGSTYYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAASGLVGLGHEDWFNY	70.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLVES AASGDTYG WFRQAPG AIARNRGSTI YYADSVKGRFTI AASGLVGL WGGQ CEA NbCEA5_hs	
NbCEA5_h	QVQLVESGGSVQAGGSRLRLSCAASGDTYGSYWMGWFRQAPGQGLLEAVAIARNRGSTYYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAASGLVGLGHEDWFNY	73.7	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLVES AASGSEY WFRQAPG AIARNRGSTI YYADSVKGRFTI AAVRGTY WGGQ CEA NbCEA5_hg	
ICab3	EVQLGESGGSVQAGGSRLRLSCAASGYMYSTSYCMGWFRQAPGKEREGVAFIKRGDHSITYTDSVKGRFTISQDSAKNTVSLQMNLSLKPEDTAYYYCAADFHSLLSVHSG	75.6	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLGEI AASGYMYE WFRQAPG AFIKRGDHSI YYTDSVKGRFTI AADFAHSI WGGQ NoC ICab3	
Nb1174	QVQLQESGGGSVQAGGSRLRLSCAVSGTYYSRNICGWFRQAPGKEREGVALYTGGSITYAASVKGRFTISQDNTNTVYLQMNLSLKPEDSAMYCAANPFLGYTCGLDRGDP	70.95	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	QVQLQEI AVSGTYSI WFRQAPG AALYTGGS YIYASVKGRFTI AANPFLGI WGGQTVTVSS Nb1174	
Nb1175	QVQLQESGGGSVQAGGSRLRLSCAVSGTYYSNLNMAWFRQAPGKEREGVAITAYSGMTYADSVKGRFTIARDNAKNTVYLQMNLSLKPEDTAVYYCAADFPNRSQSTYYVWGQ	73.8	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLQEI VASGYTYS WFRQAPG AAITAYGSMT YYADSVKGRFTI AARDYWS WGGQTVTVSS Nb1175	
Nb1176	QVQLQESGGGSVQAGGSRLRLSCVSGTYYSAYLAWFRQAPGKEREGVACHISGSGSTYADSAKGRFTISQDNKNTVYLQMNLSLKPEDTAVYYCAADYFYSASACRHEKYW	71.94	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLQEI VSGTYYS WFRQAPG ACHISGSGSTI YYADSAKGRFTI AADYFYS WGGQTVTVSS Nb1176	
M24E	DVQLQASGGGLVQAGGSRLRLSCAASGSTFSIKHGWYRRAPGNOREWVAGISSENITNAEAVKGRFTISRDNAKNTVYLQMNLSLKVEDTAVYYCAQDNDYRFLHREWGGT	56.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AASGSTFS WYRRAPG AGISSENIT NVAEAVKGRFTI YAQDNDY WGGQ Hoc-CD20 M24E	
M28C	DVQLQASGGGLVQAGGSRLRLSCAASGSTFSIKHGWYRRAPGNOREWVAGISSENITNAEAVKGRFTISRDNAKNTVYLQMNLSLKVEDTAVYYCAQDNDYRFLHREWGGT	52.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AASGSTFS WYRRAPG AGISSENIT NVAEAVKGRFTI YAQDNDY WGGQ Hoc-CD20 M28C	
M12D	DVQLQASGGGLVQAGGSRLRLSCAASGSTFGQIKHGWYRRAPGNOREWVAGISSENITNAEAVKGRFTISRDNAKNTVYLQMNLSLKVEDTAVYYCAQDNDYRFLHREWGGT	49.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AASGSTFG WYRRAPG AGISSENIT NVAEAVKGRFTI YAQDNDY WGGQ Hoc-CD20 M12D	
M110B	DVQLQASGGGLVQPGGSRLRLSCAVSGRTFRLSTLEWYRQAPGKEREFVAIRSGDSTHADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAADFPNRSQSTYYVWGQ	64.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI VASGRTFRI WYRQAPG AQTAGGSTI HHADSVKGRFTI SAYGNLR WGGQ Hoc-CD20 M110B	
M110C	DVQLQASGGGLVQPGGSLRLSCVTSIESRIFLSTLEWYRQAPGNQRKVAQITSGGSTHADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAYNLTTRYWGGQTVTVSS	62.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI VTSEIFRL WYRQAPG AQITSGGSTI HHADSVKGRFTI SAYNLTRI WGGQ Hoc-CD20 M110C	
M27G	DVQLQASGGGLVQPGGSRLRLSCAASGNFISNTIMAWYRQAPGKERELVAQITSGGSTYANSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCQMPKYDNWGGQTVTVSS	62.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AASGNFISI WYRQAPG AQITSGGSTI YIYANSVKGRFTI QMPKYDN WGGQ Hoc-CD20 M27G	
Nb85	QVQLQESGGGLVQAGGSRLRLSCVSGTFTSTYDMGWYRQAPGKEREFVAIDYSGGSTYADSVKGRFTISRDNKNTVYLQMNLSLEPEDTAVYYCAADFPNRSQSTYYVWGQ	74.5	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Alpaca	QVQLQEI AASGLTFSI WYRQAPG AIDYSGGSTI YYADSVKGRFTI ADFNNDY WGGQTVTVSS Nb85	
Nb119	QVQLQESGGGLVQAGGSRLRLSCAASGRTFSYDMGWYRQAPGKEREFVAISWSSGSTYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAYYCALADEEGLNPSTYYW	70.3	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Alpaca	QVQLQEI AASGRITFS WYRQAPG AISWSSGS YIYADSVKGRFTI ALADEEG WGGQTVTVSS Nb119	
Nb147	QVQLQESGGGSVQPGGSRLRLSCAASGRTFLNLMGWYRQAPGKEREFVAISRWDGTSYADSVGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCDDDGSGSKRTYYVY	57.8	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Alpaca	QVQLQEI AASGHTFS WYRQAPG AVSRWDGS FYADSVGRFTI DDDDGSG WGGQTVTVSS Nb147	
Nb174	QVQLQESGGGLVQAGGSRLRLSCTASGRNFIDYTLGWFRQAPGQEROVAITVSSGSMITYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAADGGHQRHSTVYV	67.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Alpaca	QVQLQEI TASGRNFG WFRQAPG AAITVSSGSMI YYADSVKGRFTI AADGGH WPGTQTVTVSS Nb174	
Nb5	QVQLQESGGGLVQPGGSRLRLSCAASGRTISTATMSWYRQAPGKIEWISTFASGETSYADPVGGRFTISRDNKNTVYLQNLNLTEDTAMFYCAADDPFGLNINRYRGQGT	60.7	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Camel	QVQLQEI AASGRTIST WYRQAPG STFASGETT SYADPVGGRFTI AADDPFI RGQGI Syd Nb5	
R11	QVQLKEESGGLVQAGGSRLRLSCVPGFLRLSNTMGWYRQAPGKERELVAFIRPSGLNTYNDLVQGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCHTRPPFDGWSGGQTVTV	69.6	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	QVQLKEE VPGFLRL WYRQAPG AFIRPSGLT NYNDVADSVGFTI HTRPPFI WGGQ HSA R11	
R28	QVQLVESGGGLVQAGGSRLRLSCVASGRTFIAYAMGWFRQAPGKEREFVAITNFAGGTYTADSVKGRFTISRDNKNTVYLQMNLSLKPEDTALYYCAADRSAGTMRQVRPLVY	71.6	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	QVQLVES VASGRTFIA WFRQAPG AAITNFAGGT YYADSVKGRFTI AADRSAQ WGGQ HSA R28	
M75	QVQLVESGGTFVQAGGSRLRLSCAASGRTFDNYMAWFRQAPGKEREFVAISGSGSNTYANSVKDRFTISRDSAKNNTVYLQMNLSLKPEDTALYYCAASGRRTYYREKFPYPSWG	79.8	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	QVQLVES AASGRTFD WFRQAPG AISGSGSNTI NYANSVKDRFTI AAGSRRTI WGGQ HSA M75	
M79	QVQLKEESGGLVQAGGSRLRLSCAASGRTFSFSSGQNTADSVKGRFTISRDNKNTVYLQMRDLKPEDTAVYYCNVAGRNWVPSIRYSPGY	62.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	QVQLKEE AASGTSFS WYRQAPG AAITSGGSTI NTADSVKGRFTI NVAGRNW WGGQ HSA M79	
C5	EVQLQASGGGLVQPGGSRLRLSCVASGDTFNTVPTWYRQAPGKQRLVAVITNGLTRYADSVKGRFTISKDNKNTVYLQMNLSLKPEDTAVYYCAAFVGLTDYWGQGTQVTSS	58.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI VASGDTFI WYRQAPG AVITNGLT RYADSVKGRFTI NAFVGLT WGGQ BcIA C5	
D4	EVQLQAYGGGLVQPGGSRLRLSCAASGRTERTINGWYRQAPGKEREWVGVITSSGMTRYADFAGKGRFTISRDNKNTVFLHMSLKPEDTAVYYCTTGKWKGGQTVTVSS	67.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI EASGTERI WSRQAPG GVITSSGMT RYADFAGKGRFTI TTGKG WGGQ BcIA D4	
A4	EVQLQASGGGLVQAGESRLRLSCVASGSLRLSNKAWYRQAPGKRLVAAVGGSSGTYSDSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCNRGGHWGGQTVTVSS	57.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI VASGSLSL WYRQAPG AIVGSGGSTI VYSDSVKGRFTI NRGGH WGGQ BcIA A4	
E6	EVQLQASGGGLVQAGGSRLKVCVASGFSQVPTMYWYRQAPGKQRELVAAVSSGNGPIYAESVGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCNYGNHWGGQTVTVSS	60.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI VASGFARSI WYRQAPG AAVSSGNGPIIYAESVGRFTI NYGNH WGGQ BcIA E6	
CC3	EVQLQESGGGLVQAGGSRLRLSCVTSQNLFEYTMGWYRQPGVGSORERVALNNGDSTVAGSEVGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCHTRPPFDGWSGGQTVTV	60.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQEI VTSQNLFE WYRQVPG ALNNGDSI TVAGSEVGRFTI RAFPADI WGGQTVTVSS CC3	
CH5	EVQLQASGGGSVQAGGSRLRLSCVASQNLFEYTMGWYRQPGVGSORERVALNNGDSNVAGSEVGRFTISRDNKNTVYLQMNLSLKPEDSVAVYCRAPGPDYWGQGTQVTSS	54.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI VASQNLFE WYRQVPG ALNNGDSI NVAGSEVGRFTI RAFPADI WGGQ Chikungunya CH5	
CD11	DVQLQASGGGLVQAGGTLRLSCAHSGRITSTQFVWFRQAPGKEREFVAGMSRGLSTFVADSVKGRFAISRDSGKNTVYLQMNLSLKPEDTAVYYCASSPFIHGYSSSTKYHY	71.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AHSGRITSS WFRQAPG AGMSRGLSI FYADSVKGRFAI ASSPFIH WGGQ Chikungunya CD11	
CD16	DVQLQASGGGLVQAGGSRLRLSCAASGRISNTINMGWYRQAPGKERELVAITSGGSTIYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAAEITYSGWGGQTVTVSS	59.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI AASGNIFSI WYRQAPG AAITSGGSTI NVADSVKGRFTI AAEITYYS WGGQ Chikungunya CD16	
CA6	DVQLQASGGGLVPRGGSRLRLSCAASGFFITDITMAWYRQAPGRRLRELVAQRSGSRSPDVSVGRFTISRDAKSSVYLQMNLSLKPEDTAVYYCYQSIRPFGSSYEAHWGQ	55.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI AASGFFITI WYRQAPG AQOSSGRSP DVIDSVGGRFTI YQSIRPW WGGQ Chikungunya CA6	
ÄÄÄÄ*	DVQLQASGGGLVQAGGSRLRLTCAVSGHFTSYAMGWFRQAPGKEREFVAISRSGSTYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAAVGARYYISKDAKDYGYW	71.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI VASGHFTF WFRQAPG AISWSSGSTI YYADSVKGRFTI AAVGARYY WGGQ Staphylococci ÄÄÄÄ*	
Ac	DVQLQASGGGLVQPGGSRLRLTCAASGLFSGYAMGWFRQAPGKAREFVAAISWGGDTYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAAVGSKYYISKDAKDYGYW	73.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AASGLIFGE WFRQAPG AISWSSGD IYADSVKGRFTI AAVGSKYY WGGQ Staphylococci Ac	
Ad	EVQLQASGGGLVQPGGSRLRLTCAASGLTFSGYAMGWFRQAPGKAREFVAAISWGGDTYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAAVGSKYYISKDAKDYGYW	55.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI AASGLIFGE WFRQAPG AISWSSGD IYADSVKGRFTI AAVGSKYY WGGQ Staphylococci Ad	
Ca	EVQLQASGGGLVQAGGSRLRLCAASGLTFSGYALGWFRQAPGKEREFVAISRSGSTYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAAVRARIYISKDAKDYGYW	48.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI AASLRTFG WFRQAPG AISWSSGD IYADSVKGRFTI AAVRARIY WGGQ Staphylococci Ca	
Cb	EVQLQASGGGLVQAGGSRLRLTCAASGRTFSGYAMGWFRQAPGKEREFVAISRSGSTYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAAVRARIYISKVAEDYGYW	70.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI AASGRTFG WFRQAPG AISWSSGD IYADSVKGRFTI AAVRARIY WGGQ Staphylococci Cb	
ÄÄÄÄ	DVQLQASGGGLVQAGGSRLRLTCAASGRTFSGYAMGWFRQAPGKEREFVAISRSGSTYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAAVRARIYISKVAEDYGYW	72.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	DVQLQAI AASGRTFG WFRQAPG AISWSSGD IYADSVKGRFTI AAVRARIY WGGQ Staphylococci ÄÄÄÄ	
Cd	EVQLQASGGGLVQAGGSRLRLTCAASGRTFSGYAMGWFRQAPGKEREFVAISRSGSTYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAAGRQRLYSRRNDYDI	59.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI AASGRTFG WFRQAPG AISWSSGD IYADSVKGRFTI AAVRARIY WGGQ Staphylococci Cd	
E2	EVQLQASGGGLVQAGGSRLRLTCAASGRTFSGYAMGWFRQAPGKEREFVAISRSGSTYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAAGRQRLYSRRNDYDI	71.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI AASGRTFG WFRQAPG AISWSSGD IYADSVKGRFTI AAVGARYY WGGQ Staphylococci E2	
D9	EVQLQASGGGLVQAGGSRLRLTCAASGRTFSGYAMGWFRQAPGKEREFVAISRSGSTYADSVKGRFTISRDNKNTVYLQMNLSLKPEDTAVYYCAAGRQRLYSRRNDYDI	63.0	<a href="https://doi.org/10.1101">https://doi.org/10.1101</a>	Llama	EVQLQAI AISIRTFGS WFRQAPG AISWSSGD IYADSAKGRFTI AIVEAKYY WGGQ Staphylococci D9	



D12neg	EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAVISGSGIVTDYADSVKGRFTISRDAKINVVHLQMSLKPEDTAVYYCAALTNPVYVAASRNSDDYGV	77.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	EVQLQA AVAGRPLSI WFRQASG AVISGSGIVT DYADSVKGRFT AALTNPVY WGGQ Ricin	D12neg
H1Wneg	DVQLQASGGGLAQDGGSLRLSCAYSGQTVNDYMAWFRQAPGKEREFVAAIRARGGGTEYLDVSKGRFTISRDNGENTAYLQMDNLQPDPTALYFCALAMGGYAYRAFERYSV	62.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	DVQLQA AYSGGOTVN WFRQAPG AIARARGGG EYLDVSKGRFTI ALAMGGY WGGQ Ricin	H1Wneg
C10neg	DVQLQASGGELVQDGGSLRLCAHSGREGTTTVGFRQAPGKEREFVAALRMTDGRISYADSVKERFTISSDNWKNVTYVLMQNLKPEDSALYYCAEDSWYPVVTGTAAYWGGQ	65.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	DVQLQA AHSGREGT IFRQAPGK AALRMTDGR SYADSVKERFTI AEDSWYP WGGQ Ricin	C10neg
D12neg+	EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAVISGSGIVTDYADSVKGRFTISRDAKINVVHLQMSLKPEDTAVYYCAALTNPVYVAASRNSDDYGV	77.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	EVQLQA AVAGRPLSI WFRQASG CVISGSGIVT DYADSVKGRFTI AALTNPVY WGGQ Ricin	D12neg+
H1W+	DVQLQASGGGLAQAGGSLRLSCAYSGQTVNDYMAWFRQAPGKEREFVAIRARGGGTEYLDVSKGRFTCSRDNNGENTAYLQMDNLQPDPTALYFCALAMGGYAYRAFERYSV	75.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	DVQLQA AYSGGOTVN WFRQAPG CAIRARGGG EYLDVSKGRFTI ALAMGGY WGGQ Ricin	H1W+
H1Wneg+	DVQLQASGGGLAQDGGSLRLSCAYSGQTVNDYMAWFRQAPGKEREFVAIRARGGGTEYLDVSKGRFTCSRDNNGENTAYLQMDNLQPDPTALYFCALAMGGYAYRAFERYSV	68.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	DVQLQA AYSGGOTVN WFRQAPG CAIRARGGG EYLDVSKGRFTI ALAMGGY WGGQ Ricin	H1Wneg+
C10neg+	DVQLQASGGELVQDGGSLRLCAHSGREGTTTVGFRQAPGKEREFVACALRMTDGRISYADSVKERFTISSDNWKNVTYVLMQNLKPEDSALYYCAEDSWYPVVTGTAAYWGGQ	78.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	DVQLQA AHSGREGT IFRQAPGK CALRMTDGR SYADSVKERFTI AEDSWYP WGGQ Ricin	C10neg+
DC4	EVQLQASGGGLVQAGGSLRLSCAASERTFSHYFGWFRQAPGKEREFVARITWSGSNIYEDAVKDRFTLSSDNAKNTYVLMNSLKPEDTAVYYCAAANTIWTPTIRDYNYWG	64.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	EVQLQA AASERTFS WFRQAPG ARITWSGSNI EYEDAVKDRFTI AAANTIWT WGGQ DENV-1 NS1	DC4
DH12	EVQLVESGGGSVQAGGSLRLSCAASERTFSYIFMGWFRQAPGKEREFVAIRWNGDGADYTDVAKDRFTISSDNHAKNTYVLMNSLKPEDTAVYYCAAANSIWKKPTTRDNYW	68.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	EVQLVES AASERTFS WFRQAPG AIRWNGDG DYTDVAKDRFTI AAANSIW WGGQ DENV-1 NS1	DH12
DD5	EVQLQASGGGLVQAGGSLRLSCAASGRAFSSETMGWFRQAPGKEREFVAIWRIGGSTYNTDYADSVKGRFAISADRAKNTVLOMNTLKPEDTAVYYCAGKMRGRSLNYDYC	65.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	EVQLQA AASGRAFS WFRQAPG AIWIRIGGST DYADSVKGRFA AGKMRGF WGGQ DENV-1 NS1	DD5
DD7	EVQLVSGSGGSVQAGGSLRLSCAHSSTVPDYITGWFRRAPGKGEEVLSIMHGGRSWYAGSVKGRFAISRDSKNTVYLMQNLKPEDTDIYYCGGTTFGLAAAPNEYDSWG	59.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	EVQLVQS AHSSTVPC WFRAPGK SLISMHGGRI WYAGSVKGRFA GGTTFGL WGGQ DENV-1 NS1	DD7
DD6	EVQLQASGGGSVQAGGSLRLSCAHSSTVPDYITGWFRRAPGKGEEVLSIMHGGRTWYAGSVKGRFAISRDSKNTVYLMQNLKPEDTDIYYCGGTTFGLAAAPNEYDSWG	53.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	EVQLQA AHSSTVPC WYRRAPG SLISMHGGRI WYAGSVKGRFA GGTTFGL WGGQ DENV-1 NS1	DD6
DB5	DVQLQASGGGLVDGGSLRLSCAASGLGFRIHSMGWYRQAPGKARDLVAITDSGQTNYPASVGRFTISRRESAGNTYVLMQNSLKPDPTAVYYCAVTTWDPHSYWGQGTQVT	65.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	DVQLQA AASGLGFR WYRQAPG AVITDSGQT NYAPSVKGRFTI AVTTWDP WGGQ DENV-1 NS1	DB5
DH4	DVQLQASGGGVQAGGSLRVSCAATGIAFASAVAWYRQAPGKQREWATVGGGLGGTKYVDSVGRGFTISRDNNAKNTVLMQNSLKPEDTAVYYCAAVEWDDGHYWDTWGQ	55.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	DVQLQA AATGIAFAS WYRQAPG ATVGLGGT KYVDSVGRFTI AAVEWDD WGGQ DENV-1 NS1	DH4
DD1	EVQLQASGGGLVQAGGSLRVSCAATGIAFASAVAWYRQAPGKQREWATVGGGLGGTKYVDSVGRFTISRDNNAKNTVLMQNSLKPEDTAVYYCAAVEWDDGHYWDTWGQ	61.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	EVQLQA AATGIAFAS WYRQAPG ATVGLGGT KYVDSVGRFTI AAVEWDD WGGQ DENV-1 NS1	DD1
DD9	EVQLQASGGGLVQAGGSLRVSCAAGIAFTNYALAWYRPPGKQREWATVGGGLGGTKYADSVKGRFAISRDNNAKNTVLMQNSLKPDVTAVYYCAAEVWSNGRYYWDSWGQ	59.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	EVQLQA AASGIAFT WYRPPGK ATVGLGGT KYADSVKGRFA AAEVWSN WGGQ DENV-1 NS1	DD9
RM05	QVQLVESGGGLVQAGGSLRLSCAASGYATYTMGWFRQAPGKEREGVAAMDSDGGGTYLADSVKGRFTISRDKGNKNTVYLMQNSLKPEDTATYYCAAGGYELDRDTYQWQG	64.2	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Camel	QVQLVES AASGYAT WFRQAPG AAMDSDGGG LYADSVKGRFTI AAGGYELI WGGQ Rñase A	RM05
AMD 9.00	QVQLVESGGGSVQAGGSLRLSCAASTYTDITGVWFRQAPGKEREGVAIYRRTGYTYSADSVKGRFTISQDNNKNTVYLMQNSLKPEDTGIIYCATGNSVRLASWEGYFYWGQ	64.1	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Camel	QVQLVES AASTYTDI WFRQAPG AIYRRTGYT YADSVKGRFTI ATGNSVRL WGGQ amylase	AMD 9.00
H14	QVQLQESGGGLVQAGGSLRLSCAASGRTGSTMGWFRQAPGKERESVAIINWDSARTYASSVKGRTISRDNNAKNTVYLMQNSLKPEDTAVYTCGAGEGTDWSDWGQTC	60.1	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVQLQE AASGRTGS WFRQAPG AIINWDSARI YASSVKGRTI GAGEGTI WGGQ ĀŽĀz-chain c	H14
CA05	QVQLVESGGGSVQAGGSLRLSCAASGYTVSTYCMGWFRQAPGKEREGVAILGGSTYYGDSVKGRTISRDNNAKNTVYLMQNSLKPEDTAVYTCAGSTVASTWGSRRLRPDYC	66.7	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Camel	QVQLVES AASGYTVS WFRQAPG ATILGGST YGDSVKGRTI AGSTVAST RGG01 carbonic anhy	CA05
A4.2	QVKLEESGGGLVQAGGSLRLSCAASGRTNTLSMGWFRQAPGKEREFVAIVSRSGGSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAAATKSNTTAYRLFSDY	84.7	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVKLEES AASGRTTN WFRQAPG AAVSRSGGS YADSVKGRFTI AAAATKS WGGQ C. difficile tox	A4.2
A5.1	QVKLEESGGGLVQAGGSLRLSCAASGRTFSMYRMGWFRQAPGKEREFVGVITRNGSSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTALYCAATSGSSYLDAHYVDY	73.1	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVKLEES AASGRTFS WFRQAPG GVITRNGSST YADSVKGRFTI AATSGSS WGGQ C. difficile tox	A5.1
A19.2	QVKLEESGGGLVQPGGSLRLSCAASGRTLSYINAVFRQAPGKEREFVAGISRRGNSAYVESVKGRTISRDNNAKNTVYLMQNSLKPEDTAVYYCAADGSVAGWGRSRVSVS	75.1	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVKLEES AASGRTLS WFRQAPG AGISRRGNS AVVESVKGRTI AADGSVAI WGGQ C. difficile tox	A19.2
A20.1	QVQLVESGGGLVQAGGSLRLSCAASGRTFSMDPMWFRQAPGKEREFVAIVSRSGGSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAAAPGNWGRSRVSVS	72.4	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVQLVES AASGRTFS WFRQPPG AAGSSTGRT YADSVKGRFTI AAAPYGA WGGQ C. difficile tox	A20.1
A24.1	QVQLVESGGGLVQAGGSLRLSCAASIRSFNRMNGWFRQPPGKEREFVAGISWGGGSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAAEFGHNIATSDSEYDW	74.6	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVQLVES AASIRFSN WFRQPPG AGISWGGGS RYADSVKGRFTI AAEFGHNI WGGQ C. difficile tox	A24.1
A26.8	QVKLEESGGGLVQAGGSLRLSCAASERTFSRYPAWFRQAPGAEREFVAIVSSTGTSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKREDTAVYFCANVSQRTLRQDPNEYDYWG	77.2	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVKLEES AASERTFS WFRQAPG AVISSTGTST YADSVKGRFTI AVNSQRTI WGGQ C. difficile tox	A26.8
A4.2m	QVKLEESGGGLVQAGGSLRLSCAASGRTNTLSMGWFRQAPGKEREFVCAVSRSGGSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAAATKSNTTAYRLFSDY	93.6	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVKLEES AASGRTTN WFRQAPG CAVSRSGGS YADSVKGRFTI AAAATKS WGGQ C. difficile tox	A4.2m
A5.1m	QVKLEESGGGLVQAGGSLRLSCAASGRTFSMYRMGWFRQAPGKEREFVGVITRNGSSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTALYCAATSGSSYLDAHYVDY	84.8	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVKLEES AASGRTFS WFRQAPG GVITRNGSST YADSVKGRFTI AATSGSS WGGQ C. difficile tox	A5.1m
A19.2m	QVKLEESGGGLVQAGGSLRLSCAASGRTLSYINAVFRQAPGKEREFVAIVSRSGGSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAAAPGNWGRSRVSVS	78.7	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVKLEES AASGRTLS WFRQAPG CGISRRGNS AVVESVKGRTI AADGSVAI WGGQ C. difficile tox	A19.2m
A20.1m	QVQLVESGGGLVQAGGSLRLSCAASGRTFSMDPMWFRQAPGKEREFVCAISWGGGSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAAAPGNWGRSRVSVS	79.1	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVQLVES AASGRTFS WFRQPPG CAGSSTGRT YADSVKGRFTI AAAPYGA WGGQ C. difficile tox	A20.1m
A24.1m	QVKLEESGGGLVQAGGSLRLSCAASIRSFNRMNGWFRQPPGKEREFVCGISWGGGSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKREDTAVYFCANVSQRTLRQDPNEYDYWG	80.1	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVQLVES AASIRFSN WFRQPPG CGISWGGGS RYADSVKGRFTI AAEFGHNI WGGQ C. difficile tox	A24.1m
A26.8m	QVKLEESGGGLVQAGGSLRLSCAASERTFSRYPAWFRQAPGAEREFVVISSTGTSTYYADSVKGRFTISRDNNAKNTVYLMQNSLKREDTAVYFCANVSQRTLRQDPNEYDYWG	85.3	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Llama	QVKLEES AASERTFS WFRQAPG CVISSTGTST YADSVKGRFTI AVNSQRTI WGGQ C. difficile tox	A26.8m
Z18	QVQLVESGGGLVQAGGSLRLSCAASGRTFSYAMGWFRQAPGKEREFVARINWSGTLTYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAQRGDSGSNDYPSGYS	59.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	QVQLVES AASGRTFS WFRQAPG ARINWSGTL YADSVKGRFTI AQRGDSG WGGQ human serum	Z18
Z26	QLQLVES AASGRTFS WFRQAPG KELEFVARIVSGLLTYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAQRGDSGSNDYPSGYS	62.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	QLQLVES AASGRTFS WFRQAPG ARIVWSGLLT YADSVKGRFTI AQRGDSG WGGQ human serum	Z26
A3	EVQLVESGGGLVQAGGSLRLSCTASGRTFSRAWMGWFRQAPGKEREFVAISAPGTAYAFYADSVRGRFSISADSAKNTVYLMQNSLKPEDTAVYYCAADLMQVAAVMNQRS	80.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	EVQLVES TASGRTFS WFRQAPG AISAAPGTA FYADSVGRFSI AADLMQ WGGQ SEB	A3
A3	EVQLVESGGGLVQAGGSLRLSCTASGRTFSRAWMGWFRQAPGKEREFVAISAPGTAYAFYADSVRGRFSISADSAKNTVYLMQNSLKPEDTAVYYCAADLMQVAAVMNQRS	79.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	EVQLVES TASGRTFS WFRQAPG AISAAPGTA FYADSVGRFSI AADLMQ WGGQ SEB	A3
A3	EVQLVESGGGLVQAGGSLRLSCTASGRTFSRAWMGWFRQAPGKEREFVAISAPGTAYAFYADSVRGRFSISADSAKNTVYLMQNSLKPEDTAVYYCAADLMQVAAVMNQRS	77.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	EVQLVES TASGRTFS WFRQAPG AISAAPGTA FYADSVGRFSI AADLMQ WGGQ CHIKV	A3
CC3	MAEVQLQASGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	60.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLQA VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
CC3	MAEVQLQASGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	70.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLVES VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	71.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLVES VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	67.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLVES VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	75.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLVES VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	59.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLVES VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	57.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLQA VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	56.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLQA VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	58.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLQA VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	53.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLQA VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCTVTSQNLFEYITMGWYRQVPGSORERVALINNGSTVAGSVEGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCRAFGPADYWGQGTQVT	43.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1016/j.molimm.2018.11.01 EVQLQA VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGGQ CHIKV	CC3
SEB	EVQLQASGGGLVQPGGSLRLTCAASGLTGSYALGWFRQAPGKEREFVAIVSWSGGDTYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAAGSVGYSISKDAKDYGYW	75.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.1371/journal.pone.0149339 DVQLQA AASGLTGS WFRQAPG AIVSWSGGD TYADSVKGRFTI AAVSGYSI WGGQ SEB	SEB
SEB	DVQLQASGGGLVQAGGSLRLTCAASGLTGSYALGWFRQAPGKEREFVAIVSWSGGDTYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAAGSVGYSISKDAKDYGYW	65.3	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.3390/s140610846 EVQLQA AVSGPTFG WFRQAPG AAVWSGGC TYADSVKGRFTI ARMQDRY WGGQ SEB	SEB
SEB	DVQLQASGGGLVQAGGSLRLTCAASGLTGSYALGWFRQAPGKEREFVAIVSWSGGDTYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAAVEARYISTDAKDYGYW	70.9	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.3390/s140610846 DVQLQA AASLHTFG WEROAPG AIVSWSGGD TYSDSVKGRFTI AAVEARYI WGGQ SEB	SEB
SEB	EVQLQASGGGLVFRAGTILRLTCDATPTTGYSGAMGWFRQAPGKEREFVAIVSWSGGDTYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCARTIARYISKDAKDYGYW	65.5	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.3390/s140610846 EVQLQA DATPTTFG WFRQAPG SAISWSGGD TYADSVKGRFTI ARTIARYI WGGQ SEB	SEB
SEB	EVQLQASGGGLVQAGGSLRLTCAVSGPTFGSYALGWFRQAPGKEREFVAIVSWSGGDTYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCARMQDRYISKDAKDYGYW	73.0	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.3390/s140610846 EVQLQA AVSGPTFG WFRQAPG AAVWSGGC TYADTAKRFTI ARMQDRY WGGQ SEB	SEB
SEB	EVQLQASGGGLVQAGGSLRLTCAVSGPTFGSYALGWFRQAPGKEREFVAIVSWSGGDTYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCARMQDRYISKDAKDYGYW	70.9	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.3390/s140610846 EVQLQA AVSGPTFG WFRQAPG AAVWSGGC TYADSVKGRFTI ARMQDRY WGGQ SEB	SEB
SEB	EVQLQASGGGLVQAGGSLRLTCAVSGPTFGSYALGWFRQAPGKEREFVAIVSWSGGDTYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCARMQDRYISKDAKDYGYW	65.3	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca	10.3390/s140610846 EVQLQA AASGRNFS WFRQAPG GTISWYNTN NYANSVKGRFE AAAPAMY WGGQ SEB	SEB
SEB	EVQLQASGGGLVQAGGSLRLTCAVSGPTFGSYALGWFRQAPGKEREFVAIVSWSGGDTYADSVKGRFTISRDNNAKNTVYLMQNSLKPEDTAVYYCAAPAMYNYPYKRESEYGV	65.1	<a href="https://doi.org/10.1101/2018.11.01.261101">https://doi.org/10.1101/2018.11.01.261101</a>	Alpaca		