	amino_acids_without_mutation	ns			
name	seq tm	doi source			base_name mutation
Sb14 Sb16	QVQLVESGGGLVQAGGSLRLSCAASGFPVQAREMEWYRQAPGKEREWVAAIKSTGTYTAYAYSVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCYVYVGSSYIGQGTQVTVS 54.4 QVQLVESGGGLVQAGGSLRLSCAASGFPVAYKTMWWYRQAPGKEREWVAAIESYGIKWTRYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCIVWVGAQYHGQGTQVTV 56.5	https://doi.org/10. Camel	QVQLVES AASGFPVQ WYRQAPG AAIKSTGTYT QVQLVES AASGFPVAY WYRQAPG AAIESYGIKW		Sb14 Sb16
Sb45	QVQLVESGGGLVQAGGSLRLSCAASGFPVYRDRMAWYRQAPGKEREWVAAIYSAGQQTRYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCNVKDVGHHYEYYDYWG(62.1	https://doi.org/10. Camel	QVQLVES AASGFPVY WYRQAPG AAIYSAGQQT	RYADSVKGRFTI NVKDVGH WGQG Spike RBD	Sb45
Sb68 Nb6	QVQLVESGGGSVQAGGSLRLSCAASGSISSITYLGWFRQAPGKEREGVAALITVNGHTYYADSVKGRFTVSLDNAKNTVYLQMNSLKPEDTALYYCAAAAWGYAWPLHQDDYWY 78.4 QVQLVESGGGLVQAGGSLRLSCAASGIIFGRNAMGWYRQAPGKERELVAGITRRGSITYYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCAADPASPAPGDYWGQGTQV 66.9	https://doi.org/10. Camel	QVQLVES AASGSISSI WFRQAPG AALITVNGHT n QVQLVES AASGIIFGR WYRQAPG AGITRRGSIT		Sb68 Nb6
Nb20	QVQLVESGGGLVQAGGSLRLSCAVSGAGAHRVGWFRRAPGKEREFVAAIGASGGMTNYLDSVKGRFTISRDNAKNTIYLQMNSLKPQDTAVYYCAARDIETAEYIYWGQGTQVTV 71.8	https://doi.org/10. Llama	QVQLVES AVSGAGAH WFRRAPG AAIGASGGM		Nb20
Nb21	QVQLVESGGGLVQAGGSLRLSCAVSGLGAHRVGWFRRAPGKEREFVAAIGANGGNTNYLDSVKGRFTISRDNAKNTIYLQMNSLKPQDTAVYYCAARDIETAEYTYWGQGTQVTV 72.8	https://doi.org/10. Llama	QVQLVES AVSGLGAH WFRRAPG AAIGANGGN		Nb21
Nb89 W25UACh	HVQLVESGGGLVQAGGSLRLSCAASGGTFTTFRMAWFRQTPGKEREFVAASSWGFVNYADPVKGRFTISRDNAKNTVYLEMSSLKTEDTAVYYCAARNPGTGQYDYWGQGTQV 65.9 QVQLVESGGGLVQPGESLRLSCAASGSIFGIYAVHWFRMAPGKEREFTAGFGSHGSTNYAASVKGRFTMSRDNAKNTTYLQMNSLKPADTAVYYCHALIKNELGFLDYWGPGTQV 57.9	https://doi.org/10. Llama https://doi.org/10. Alpaca	HVQLVES AASGGTFT WFRQTPG AASSWGFV QVQLVES AASGSIFGI WFRMAPG AGFGSHGST		Nb89 W25UACh
Nb1	QVQLQESGGGSVQAGGSLKLSCAASGGAYRNACMGFRQAPGKEREGAIINSVDTTYYADPVKGRFTISRDNAKSTVYLLMNSLKPEDTAIYYCAQVARVVCPGDKLGASGYNYW 57.9	https://doi.org/10. Camel	QVQLQE AASGGAYR GFRQAPG IINSVDTT	YYADPVKGRFTI AQVARVV(WGQG sfGFP	Nb1
Nb2 Nb4	GSQVQLQESGGGSVQAGGSLRLSCAASGPTYSSYFMAWFRQAPGMEREGVAASSYDGSTTLYADSVKGRFTISQGNAKNTKFLLLNNLEPEDTAIYYCALRRRGWSNTSGWKQ 49.6 QVQLQESGGGSVQAGGSLRLSCAASGNTHITLAFRQAPGKEREGVFIYTSTGYTYYSDSVKGRFTISQDNAKNTVYLQMDNLKPEDAGMYYCAAGRTRSVRPGGRIDPGAFDYW 75.6	https://doi.org/10. Camel	QVQLQE: AASGPTYS WFRQAPG AASSYDGST QVQLQE: AASGNTHII AFRQAPGI FIYTSTGYT		Nb2 Nb4
Nb7	QVQLQESGGSVQAGGSLRLSCESSGMTFSVYNLGLRQAPGQECELSTITRDGSTDYADSMKGRFTISRDNAKNTMYLQMTSLKPDDTAVYYCAAGVGVVDCTEGQGTQVTVS 51.8	https://doi.org/10. Camel	QVQLQE ESSGMTFS LRQAPGQ STITRDGST		Nb7
LaG16	GPHMAQVQLVESGGRLVQAGDSLRLSCAASGRTFSTSAMAWFRQAPGREREFVAAITWTVGNTILGDSVKGRFTISRDRAKNTVDLQMDNLEPEDTAVYYCSARSRGYVLSVLRS 53.6 MAQVQLVESGGALVQPGGSLRLSCAASGFPVNRYSMRWYRQAPGKEREWVAGMSSAGDRSSYEDSVKGRFTISRDDARNTVYLQMNSLKPEDTAVYYCNVNVGFEYWGQGT(46.9	https://doi.org/10. Camel	QVQLVES AASGEDVAL WAYDOADS AGMSSAGDE		LaG16 GBP1
GBP1 Nb_7	QVQLQESGGGLVQAGGSLRLSCTAFRSVGVIDVMGWYRQAPGKQRELVATVTSGSSTTYADSVKGRFAISRDNAKTVSLQMNSLKPEDTAVYYCADDDEGKLLNRRSVWYYWSC 54.5	https://doi.org/10. Camel	QVQLVES AASGFPVN WYRQAPG AGMSSAGDF QVQLQE: TAFRSVGVI WYRQAPG ATVTSGSST	TYADSVKGRFAI ADDDEGK WSQG Acute Myeloid	
Nb_12	QVQLQESGGGLVQPGGSLRLSCAASGFTFGSYDMAWVRQAPGKGPEWVSSINSSGGSTEYASSVKGRFTVSRDNAKNMLYLQMDRLKLEDTAVYYCADEGNPSTTWYYEDQG 58.0	https://doi.org/10. Llama		EYASSVKGRFT\ ADEGNPS EDQGT Acute Myeloid	
Nb_16 Nb_21	QVQLQESGGGLVQAGGSLRLSCASSGSILSMNVMGWYRQAPGKQREMVAQITRIGDTNYSSSMKGRFTISRDNADNTLYLQMNRLEPEDTAVYFCANNNRSTYYYYWGQGTQ\ 58.0 QVQLQESGGGLVQAGGSLRLSCTALRSVGSENGMGWYRQSPGNQRELVATVTSDTSTTYRDSVKGRFAISRDSAKTVSLQMNNLKPEDTAVYYCADEEGHHLLNRRSTVWYWG 53.0	https://doi.org/10. Llama		NYSSSMKGRFT ANNNRST WGQG Acute Myeloic TYRDSVKGRFA ADEEGHH WGQG Acute Myeloic	_
Nb_22	QVQLQESGGGLVQAGGSLRLSCTAFRSVGVIDVMGWYRQAPGTQRELVATVTSSSSTTYADSVKGRFAISRDDAKTVSLQMNSLKPEDTAVYYCADDEEGLLNNRRSSVWYWGQ 58.0	https://doi.org/10. Llama	QVQLQE: TAFRSVGVI WYRQAPG ATVTSSSST	TYADSVKGRFAI ADDEEGLI WGQG Acute Myeloic	Nb_22
Nb_87 NbPep1	QVQLQESGGGLVQAGGSLRLSCAASGSIGSINFIFWYRQAPGKQREFVARISRSGRSDYVESVKGRFTISRDNAKNTVYLQMNNLKSEDTAVYYCALGNNWGQGTQVTVSS 68.0 QVQLQESGGGSVQAGGSLRLSCSASGFYYDRWYMAWFRQVPGKEREEVAVINSADGSTYYADSVKGRFSISLGPTKKTANLLMSSLKPEDTGIYYCAATDGATIFGTPSVRQARA 71.05	https://doi.org/10. Llama	QVQLQE: AASGSIGSI WYRQAPG ARISRSGRS QVQLQE: SASGFYYD WFRQVPG AVINSADGST		Nb_87 NbPep1
NbPep2	QVQLQESGGSVQAGGSLRLSCTASGFYYSYWYIAWFRQAPGKEREEVAVINSSDLSTYVADSVKGRFTISQENGGKTAVLLMTSLKPEDTAIYYCAAKDGATIFGLPSARQIQSW(74.35	https://doi.org/10. Camel	QVQLQE: TASGFYYS' WFRQAPG AVINSSDLST		NbPep2
NbD1	QVQLQESGGSVQAGGSLRLSCAASGWTYSTATMGWYRQAPGKERELVSSIFSDENTYYKDSVKGRFTISRDAAKNTVYLQMNSLKPEDTAMYYCYIRPTTSLANWRWGQGTQ 63.9 QVQLQESGGGSVQAGGSLRLSCAASGYTYSASSMGWSRQVPGRQREGIAFIYSRSGGTNYADSVKGRFTISQNSAKNMVYLQMDNLKTEDTAMYYCYSMYAGKAYWGQGTQ\ 62.45	https://doi.org/10. Camel	QVQLQE: AASGWTYS WYRQAPG SSIFSDENT QVQLQE: AASGYTYS, WSRQVPG AFIYSRSGGT		NbD1 NbPep3
NbPep4	QVQLQESGGGSVQAGGSLRLSCVASEYDFNSYSSVSVGWFRQAPGKECVLVSRIGNDARTDYSDNVKGRFTISRDNAKRTAYLEMNSLKAEDTAVYYCAANQLSSAVVGTEYPC 64.55	https://doi.org/10. Camel	QVQLQE: VASEYDFN: WFRQAPG SRIGNDART		NbPep4
NbD9	QVQLQESGGSVQAGGSLRLSCVASGYLFSLRGMGWYRQAPGKERELVSIISRYGPTKYADSVKGRFTISQDNAKNTLYLQMNSLKPEDTAVYFCAASRPNSDKLDYWGQGTQV 63.2	https://doi.org/10. Camel			NbD9
NbD8 NbPep5	QVQLQESGGGSVQAGGSLRLSCAASGYTYGSNSMGWFRQAPGKEREGVATIDRGGGRTLYTDSVKGRFTISQDNAKNTVYLQMNSLKPEDTAMYYCAADDNWRGDGLDPSDF 57.95 QVQLQESGGGSVQAGGSLRLSCAVPEYTFNSYAMYWFRQAPGKECEYVSGIMRNGITNYADSVKGRFTISRDNAKNTVYLQMNNLKPEDTAVYYCAPSGDRCQGGQGTQVTV 67.05	https://doi.org/10. Camel	QVQLQE: AASGYTYG WFRQAPG ATIDRGGGRT QVQLQE: AVPEYTFN: WFRQAPG SGIMRNGIT		NbD8 NbPep5
NbPep6	QVQLQESGGGSVQAGGSLRLSCEVSGYSETTYRIGWFRLPPGLETREEVAFINFGGDSTLYANSVKGRFTISQDNTKNTVYLLMNSLKPEDTAIYYCALSARWYKRAEPDFDYWG(58.6	https://doi.org/10. Camel	QVQLQE: EVSGYSET WFRLPPG VAFINFGGDS	LYANSVKGRFTI ALSARWY WGQGTQVTVSS	NbPep6
NbPep8	QVQLQESGGSVQAGGSLRLSCAATGYGITSRCMAWFRQAPGKEREGVAVISTGDGSSYYADSVKSRFTISQNTAKNTMYLQMNSLKPEDTAMYYCAAHYARRSGGDCWVDPA 69.5 QVQLQESGGSVQAGGSLRLSCAVSGYSDSNYRMGWFRHIPGRDRREGIAFINVGGSSTLYADSVKDRFTISQDNVKDMVYLDMNSLKPEDTAIYYCALSPRWYKRVEADFDYW 65.5	https://doi.org/10. Camel	QVQLQE: AATGYGITS WFRQAPG AVISTGDGSS QVQLQE: AVSGYSDS WFRHIPGF IAFINVGGSS		NbPep8
NbD6	QVQLQESGGGSVQAGGSLRLSCAVSGYSDSNYRMGWFRHIPGRDRREGIAFINVGGSSTLYADSVKDRFTISQDNVKDMVYLDMINSLKPEDTAIYYCALSPRWYKRVEADFDYW 65.5 QVQLQESGGGSVQAGGSLRLFCEASGYTSSHYIMGWSRQAPGKECELVARITSAGITDYASSVKGRFTISRGDATNGMALQMNNLKPEDTAVYYCGVVVPTIGISRWCGYDYWG(67.15	https://doi.org/10. Camel			NbD6
NbPep10	QVQLQESGGSVQAGGSLRLSCAASGLTFSRHTMGWFRLAPGKECEVVSTITNDGTTNYADSVKGRFTVSQDNAKNTVYLQMNSLKPEDTAEYYCAARGSGYERLSRFCGMDY 70.8	https://doi.org/10. Camel			NbPep9
NbPep10 NbPep11	QVQLQESGGGSVQAGGSLRLFCAASGYTYSPYCMGWFRQAPGKEREAIAILGSGGITTYYAESVKGRFIISPGNAKNTVSLQMVNLKPEDTAIYYCAAGSTIRGGYCDWDAYGYD 85.75 QVQLQESGGGSVQAGGSLRLSCADSRYTHYCMGWFRQAPGKEREGVARISVLSGRTYYADSVKGRFTISQDNAKNVVYLQMNSLKPEDTAIYYCAAGNYWSDLCPEVDFEYWG 65.96298507	https://doi.org/10. Camel https://doi.org/10. Camel	QVQLQE: AASGYTYS WFRQAPG AILGSGGITT QVQLQE: ADSRYTHY WFRQAPG ARISVLSGRT		NbPep10 NbPep11
NbPep12	QVQLQESGGSVQAGGSLKLACAAAGYTTQPYCVAWFRQAPGKEREGVAAIWRDRGGPYYVDSVKGRFTMSQNSAKNTVYLQMNNLKPEDTAVYSCAATEGVCSSLFYLKTFN 66.5	https://doi.org/10. Camel	QVQLQE: AAAGYTTQ WFRQAPG AAIWRDRGG		NbPep12
NbPep13 NbPep14	QVQLQESGGGSVQAGGSLKLSCAASGYIFSSCAMSWYRQAPGKERELVSSITSYGDAAYTDSAKGRFTISRDNAKNTLYLHLNNLKPEDTAVYFCAACPRNKYWGQGTQVTVSS 63.65 QVQLQESGGGSVQAGGSLKLSCAATYYIFSSCGMGWYRQAPGKERELVAIINSDGTRSIAESVKGRFTISQDANKNTFELQMNNLRAEDTAVYFCAAPKYVDYASRGRVCDKELM 70.58334992	https://doi.org/10. Camel https://doi.org/10. Camel	QVQLQE: AASGYIFSS WYRQAPG SSITSYGDA QVQLQE: AATYYIFSS WYRQAPG AIINSDGTR		NbPep13 NbPep14
NbPep15	QVQLQESGGGSVQTGGSLRLSCEASKYAYYTGCMAWFRQSTGKEREGVAYIDTGAINTYYADSVKGRFTISQDYAKKTLYLQMNSLKPEDTAIYSCAAGPYRCQANTQGLQSRW 69.46915423	https://doi.org/10. Camel	QVQLQE: EASKYAYYT WFRQSTG AYIDTGAINT	YYADSVKGRFTI AAGPYRC WGQGTQVTVSS	NbPep15
NbPep16 NbPep17	QVQLQESGGSVQAGGSLRLSCTASGFTFDDFDMGWYHQSPGNECELVSAISADGSTYYTNSVKGRFTISRDYAKNTVYLQMNNLKPEDTAMYYCAADRWALRRTTACTGAYS(73.2 QVQLQESGGGSVQAGGSLRLSCAASGSTDTTNYIGWFRQVPGKEREGVATISTRGGVSTYYTDSVKGRFTISRDNAKNTVYLQMNRLKPEDTAMYYCAASGGRYIDAFSSNYFN 72.55	https://doi.org/10. Camel	QVQLQE: TASGFTFDI WYHQSPG SAISADGST QVQLQE: AASGSTDT WFRQVPG ATISTRGGVS		NbPep16 NbPep17
	QVQLQESGGGSVQAGGSLRLSCAASGYPYNNYCMGWFRQAPGKEREGVAAINSRGAIIGYADSVKGRFTISQDNAKNTMYLQMNSLKPEDTAIYYCAADLVGRWSGSCLFRSS(71.45	https://doi.org/10. Camel	QVQLQE: AASGYPYN WFRQAPG AAINSRGAII		NbPep18
NbPep19	QVQLQESGGSVQAGGSLRLSCAVSGYSYSSYSIAWIRQAPGREREGVACINSGGKLAVYASSVKGRFTISHDNAKNTAYLQMNSLKPEDTAIYYCVLGESYCSQENYTSKWRAQ 70.4 QVQLQESGGGSVQAGGSLRLTCLASGDTTSVDYLGWFRQAPGKKREAVAGLYLEHSRSGLREFYEDDVEGRFTIFQHGARKMVHLQMTNLKPEDSATYYCAAKGESGYWSWRI 60.05	https://doi.org/10. Camel	QVQLQE: AVSGYSYS: WIRQAPGF ACINSGGKLA		NbPep19 NbD7
NbD7 NbD4	QVQLQESGGGSVQAGGSLRLTCLASGDTTSVDYLGWFRQAPGKKREAVAGLYLEHSRSGLREFYEDDVEGRFTIFQHGARKMVHLQMTNLKPEDSATYYCAAKGESGYWSWRF 60.05 QVQLQESGGGSVQGGGSLRLSCAASGDTFSRKIMAWFRQAPDKEREGLATIDPDGTMKSYADSARGRFTISRDNAKSAVYLQMNSLKPEDTAVYYCATKLTWYGAYQSWGQGT 58.5	https://doi.org/10. Camel	QVQLQE: LASGDTTS\ WFRQAPG AGLYLEHSRS QVQLQE: AASGDTFS WFRQAPD ATIDPDGTMK		NbD7 NbD4
NbD12	QVQLQESGGSVQAGGSLRLSCAASGITYSRSTMGWYRQVPGKERELVSSIRWNGSTLYADSVKGRFTISRDNAKNTAYLQMNSLKPEDTAMFYCKAEVVAGPYAGHDYWGQG 62.95	https://doi.org/10. Camel	QVQLQE: AASGITYSF WYRQVPG SSIRWNGST		NbD12
NbPep21 NbPep22	QVQLQESGGGSVQTGGSLRLSCAASGYTYSTYCMGWFRQEAGKEREGVATINRDSGITDYADSVKGRFTISQDKAKNMVYLLMNNLQPEDTAVYYCAAQRTYTRGRCIPTVVPR 67.15 QVQLQESGGGSVQAGGSLRLSCTTSGLFYSNYCMGWFRQAPGKEREGIAAIHSVNGDTYYADSVKGRFIISQDNAKNTMYLQLSSLKPEDTAIYYCAAKMRLYWSDCRLLAPAID 64.25	https://doi.org/10. Camel	QVQLQE: AASGYTYS WFRQEAG ATINRDSGIT QVQLQE: TTSGLFYSI WFRQAPG AAIHSVNGDT		NbPep21 NbPep22
NbPep23	QVQLQESGGGSVQAGGSLRLSCAASGYTYTMGWFRQAPGKEREGVTIIYTGYDNIVYADSVKGRFTISRDNAKNTVYLQMNNLKPEDTAMYHCAAATRGLPRSYFDPGWYDSW 70.05	https://doi.org/10. Camel	QVQLQE: AASGYTYTI WFRQAPG TIIYTGYDNI	VYADSVKGRFTI AAATRGLF WGQGTQVTVSS	NbPep23
NbPep24	QVQLQESGGSVQAGGSLRLSCVVSGYTNNINIMGWFRQAPGKERETVASKPTRYDNTYYADSVKGRFTISQDNAKNTMYLQMDNLKPEDTAMYYCAAGYAVLGSGTWDRASC 77.45 QVQLQESGGSVQTGGSLRLSCGASGNTHSVNLMGWFRQPPGKEREGVAAKYTNYDNTYYADSVKGRFFISLDNAKNLLYLEMKNLQPEDTAMYFCAAIDLLYRDFNPLSRDG 68.85	https://doi.org/10. Camel	QVQLQE: VVSGYTNN WFRQAPG ASKPTRYDN QVQLQE: GASGNTHS WFRQPPG AAKYTNYDN		NbPep24 NbPep25
NbD10	QVQLQESGGSVQSGGSLTLSCAASRYTYRPRTMAWYRQAPGKEREFVSTISSNGNTKYRDSVKGRFTISQNNAKNTVYLQMNSLKPEDTAMYYCYMYNGDPFWGQGTQVTV 56.15975124	-	QVQLQE: AASRYTYRI WYRQAPG STISSNGNT		NbD10
NbPep26	QVQLQESGGGSVQAGGSLRLSCVASGYIYDNYCMGWFRQAPGKEREGVAHITGGGTYTYYSDSVKDRFTISQDNAKNTVYLQMNSLKPEDTAIYYCAAYLACTIRTMGKEERYN 69.15 QVQLQESGGGLVQAGGSLRLSCAASGFTRSCCLAWYRQAPGKERELVSTISSDGSTYYADSVRGRFTIAKDNAKNTLYLHMNSLKPEDTAVYYCAAKGVGSTCRGICQKMTNYNI 85.0	https://doi.org/10. Camel	QVQLQE: VASGYIYDI WFRQAPG AHITGGGTYT QVQLQE: AASGFTRS(WYRQAPG STISSDGST		NbPep26 NbPep27
NbPep28	QVQLQESGGGLVQAGGSLRLSCAASGFTRSCCLAWYRQAPGKERELVSTISSDGSTYYADSVRGRFTIARDINARNTLYLININSLKPEDTAWYYCAARWRSGKSYDYWGQGT(61.45	https://doi.org/10. Camel	QVQLQE: AASGFTAS WTRQAPG STISSDGST QVQLQE: AFSGFTYS WFRQAPG ASIYRPSSST		NbPep28
NbPep29	QVQLQESGGSVQSGGSLRLSCAASGYSSCMGWFRQAPGKEREGVALIASRTGWTYYSDTVKGRFTISQDNAKSTMYLQMNSLKPEDTAIYYCAADRGRGNRCPAIWQYDSR(57.35	https://doi.org/10. Camel	QVQLQE: AASGYSSC WFRQAPG ALIASRTGWT		NbPep29
NbPep30 NbPep31	QVQLQESGGGSVQFGGSLTLSCVVSGYPTNIFYFTWFRQSPGKEREAVASLSSGQAKRYVDSVKDRFTISQGDPKNTIYLQMNGLKPEDTGIYYCAAGVTRAWEWRKPSTHPYW 73.1 QVQLQESGGGSVQAGGSLRLPCVASGYIYSPTKMGWFRQAPGKERELVSSITRDGRPYYSDSVKGRFTISQDNAKNTVYLQMNSLKPEDTAMYYCFADVRLSAVGGIKTYWDQG 63.3	https://doi.org/10. Camel	QVQLQE: VVSGYPTN WFRQSPG ASLSSGQAK QVQLQE: VASGYIYSF WFRQAPG SSITRDGRP		NbPep30 NbPep31
NbPep32	QVQLQESGGGSVQAGGSLRLSCAASGHTFCRYDRSWYRQAPGKEREFVSGIDTDGSTTYADSVKGRFTISQDNAKNTLHLQMNSLKPDDTAMYYCKARPVRDRYCLGGYDYW 60.1	https://doi.org/10. Camel	QVQLQE: AASGHTFC WYRQAPG SGIDTDGST	TYADSVKGRFTI KARPVRDI WGQGTQVTVSS	NbPep32
NbPep33 NbD3	QVQLQESGGSVQAGGSLRLSCATSGLTYRSYCMTWFRQAPGKEREGLLGIKSGGGSTYYVDSVKGRFTISQDNPKNTVYLQMNSLKPEDTAIYYCAAIVGWRTYGGSCPGTAS 76.35 QVQLQESGGGSVQAGGSLRLSCTASEFTTKYMAWFRQAPGKERELVAVIYTITSGANYGDSVKGRFTITRDNENNTVHLEMNNLKPEDTAMYICAASTYWGAALRETAYNSWGRC 65.75	https://doi.org/10. Camel	QVQLQE: ATSGLTYRS WFRQAPG LGIKSGGGST QVQLQE: TASEFTTKY WFRQAPG AVIYTITSGA		NbPep33 NbD3
NbD2	QVQLQESGGGSVQAGGSLRLSCAVSENTGRMGWFRQAPGKEREKVAIITRLGGYTSYAGPVKGRFTISQDNAKNTVYLLMNSLKPEDTAIYYCAADSRPIYSGTWRYWGQGTQV 62.5	https://doi.org/10. Camel	QVQLQE: AVSENTGR WFRQAPG AIITRLGGYT		NbD2
NbD5 NbD11	QVQLQESGGSVQAGGSLRLSCAVSGYTYSSYSIGWFRQAPGKEREGVAAINSGGSTNYAGSVEGRFTISQDNAKNTVSLLMNSLKPEDTATYYCAVGAFFTLRPTLYNYKGQGT 53.6 QVQLQESGGGSVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKEREFVAFIESDGRTSYADSVKGRFTISQDDAKNTVYLQMNSLKPEDTSMYYCKTAAGAFCGTRSYGFWG 60.75	https://doi.org/10. Camel	QVQLQE: AVSGYTYS: WFRQAPG AAINSGGST QVQLQE: DASTYTYG WFRQAPG AFIESDGRT		NbD5 NbD11
NbPep34	QVQLQESGGSVQTGGSLTLSCLASENSFSVVRMAWFRKAPGKECELVSSITNDSDVTWYMRSVKGRFTISRDNTKKTLYLQMNSLQPEDTATYYCMGYPYSNEVGCRGQGTQ\ 71.05	https://doi.org/10. Camel	QVQLQE: LASENSFS\ WFRKAPG SSITNDSDVT		NbPep34
NbPep35	QVQLQESGGQVQAGGSLRLSCAAPEFSSSRYLNYYMAWFRQVPGKEREGVANINRLGSITNYADSVKGRFTISRDNAKSTVYLQMSSLKPEDTGIYYCAASENNVLWDLLPDK 69.45	https://doi.org/10. Camel	QVQLQE: AASCRTYS WEROPRO AUTTOROSS		NbPep35
NbPep36 NbPep37	QVQLQESGGGSVQAGGSLRLSCAASGDTYSRLCMGWFRQPPGKEREAVAIITTGRGSSLYADSVKGRFTISQDNAKNTVYLQMNSLKPEDTAMYYCASGPSCARLWRRAPDTY 76.6 QVQLQESGGGSVQTGGSLRLSCAASGYTASNACMGWFRQAPGKEREGVATITTGGGTYYADSVKGRFTISRDNAKNTVYLQMNSLKPNDTAMYYCAATFPYIGGCLKVGLDAYF 74.1	https://doi.org/10. Camel	QVQLQE: AASGDTYS WFRQPPG AIITTGRGSS QVQLQE: AASGYTASI WFRQAPG ATITTGGGT		NbPep36 NbPep37
NbPep38	QVQLQESGGGSVQAGGSLRLSCSASTIYISTKYYMALGWFRQAPGKEREGVAVIYIKNGGTFYTDSVKGRFTISLDIAKNTVYLQMNSLKPEDTAMYYCAASRPLMWRDVSSHERI 77.8	https://doi.org/10. Camel	QVQLQE: SASTIYISTI WFRQAPG AVIYIKNGGT		NbPep38
NbPep39	QVQLQESGGGSVQAGGSLRLSCAASGYTYRYSMGWYRQAPGKERELVSSIISDGSTYYADSVKGRFTISQDNAKNTVYLQMNSLKPEDTAMYYCFTDARRDSRSLPLRYWGQG 78.85 EVQLVESGGGLVQAGGSLTLSCAASGRLLGIYALGWHRQAPGKERELVANITSAHSAHYAESVEGRFTISRDNAKNTVSLHMNSLKPEDTAVYYCDARNPITGRAYWGLGTQVTVS 70.12363184	https://doi.org/10. Camel https://doi.org/10. Llama	QVQLQE: AASGYTYR WYRQAPG SSIISDGST EVQLVES AASGRLLG WHRQAPG ANITSAHSA		NbPep39 NbPep47
NbPep50	KVQLVESGGGLVQAGGSLRLACTASGSAFSINTMGWYRRAPGKQRELVASITSSGSTTYADSVKGRFTISRDSAKNTVFLQMNSVKPEDTSVYYCNGEIQRTDYNFWGQGTQVTV 63.55	https://doi.org/10. Llama	KVQLVES TASGSAFSI WYRRAPG ASITSSGST	TYADSVKGRFTI NGEIQRTE WGQGTQVTVSS	NbPep50
NbPep51	EVQLVESGGGLAQPGGSLKLSCAASGSIFRIIDMGWYRQAPGKQRELVASITPGGRSDYADSVKGRFTISRDNVKNTLYLQMNSLKPEDTAVYFCKGSGAITPGRSYAFDYWGQGT 66.94111111 EVQLVESGGGLVQPGGSLRLSCAASQNIFNIPVMGWYRQAPGKQRELVGTINGEGRTTYADSVKGRFTISRDNAKSTLYLQMNFLKPEDTALYYCARDLARYAFQWGQGTQVTVS\(57.74885572	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLVES AASGSIFRII WYRQAPG ASITPGGRS EVQLVES AASQNIFNI WYRQAPG GTINGEGRT		NbPep51
NbPep53	EVQLVESGGGLVQPGGSLRLSCAASQNIFNIPVMGWYRQAPGKQRELVGTINGEGRTTYADSVKGRFTISRDKAKNTVSLQMDSLKPEDTAVYYCARTQYLRSRMQGQYESWGQ 69.4736650	https://doi.org/10. Llama			NbPep53
NbPep55	EVQLVESGGGLVQAGGSLRLSCTASVSIFSISTMGWYRQAPGKQREWVAAISSGGTPSYADSVKGRFTISKDNAKNTLELQMNSLRPEDTAVYYCNARRTPGTIFPVFDYWGQGT(78.7 EVQLVESGGGLVQSGGSLRLSCAASASAADFSTLTMAWYRQAPGKQRELVALITGGGIANYTDSVKGRFTISRDNAKSMMSLEMRSLRPEDTAVYYCKAQRPKIPFFAGREYWGQ 74.8	https://doi.org/10. Llama			NbPep54 NbPep55
NbPep56	EVQLVESGGGLVQAGGSLRLSCAASAAADFSTLTMAWTAQAFGRQRELVATITNSGTTNYADSVKGRFTISRDNAKNTIYLQMNSLRPEDTAVYYCHAGRFSAYWGQGTQVTVSS 76.3	https://doi.org/10. Llama			NbPep56
NbPep57	EVQLVESGGGLVQAGGSLRLSCAASGIMFRIFDMAWYRQGPGNQRELVAATTSGDITKYADAVKGRFTISRDNAKNTVYLEMNSLQPEDTAVYSCNARLGLRDFWGQGTQVTVSS 67.45 EVQLVESGGGLVHAGGSLRLSCAATGSIFGINTMGWYRQAPGKERELVATITSGGATNYADPVKGRFTISRDNAKNTVYLQMNSLRPEDTAVYYCNIRARRTIWDRGHLSDYWGQG 80.0	https://doi.org/10. Llama			NbPep57 NbPep60
NbPep60	EVQLVESGGGLVHAGGSLRLSCAATGSIFGINTMGWYRQAPGKERELVATITSGGATNYADPVKGRFTISRDNAKNTVYLQMNSLRPEDTAVYYCNIRARRTIWDRGHLSDYWGQG 80.0 EVQLVESGGGLVQTGGSLRLSCAASGSIAGINAMGWYRQAPGKQRELVATITRGGSTNYADSAKGRFTISRDNAWNTVYLQMNSLKPEDTAVYYCKAQRLLWGDYWGQGTQVTV 70.80817579	https://doi.org/10. Llama https://doi.org/10. Llama			NbPep61
NbPep62	EVQLVESGGGLVQSGGSLRLSCAASASAADFSTLTMAWYRQAPGKQRELVALITGGGIANYTDSVKGRFTISRDNAKSTMSLEMHSLRPEDTAVYYCKAQRPKIPFFAGREYWGQ 75.15 EVQLVESGGGMVQPGGSLRLSCAASESIFRFSIMGWYRQAPGQERELVASISTSDMTRYADLVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCNAEAWRFPSRYTYWGQGTQ 75.75	https://doi.org/10. Llama			NbPep62
NbPep64 NbPep65	EVQLVESGGGMVQPGGSLRLSCAASESIFRFSIMGWYRQAPGQERELVASISTSDMTRYADLVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCNAEAWRFPSRYTYWGQGTQ\ 75.75 EVQLVESGGELVQAGGSLRLSCAASGLTFSSYNMGWFRRAPGKEREFVASITWSGRDTFYADSVKGRFTISRDNAKNAVYLQMSSLKPEDTAVYYCAANPWPVAAPRSGTYWGQ 74.65	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLVES AASESIFRF WYRQAPG ASISTSDMT EVQLVES AASGLTFSS WFRRAPG ASITWSGRD		NbPep64 NbPep65
NbPep66	EVQLVESGGGLVQAGGSLRLSCAASGTIFSFDAMGWYRQAPGKQRELVATGTGGGTTNYAESVKGRFTISRDGAKNTVYLQMNSLKPEDTAIYYCNARRAWPRRGDYWGQGTQ' 66.6	https://doi.org/10. Llama	EVOLVES TREGSCLS WYROARG ARRYSSCTT		NbPep66
NbPep68 NbPep69	EVQLVESGGGLVQPGGSLRLSCTPSGSGLSINRMGWYRQAPGKQRELVARIYSSGTTTYVDSVKGRFTISRDNAKNTVFLQMTSLKPEDTAVYYCKGKIKLTTWPDRWTDYWGQ(69.5 EVQLVESGGGLVQTGGSLRLSCAASGSIAGINAMGWYRQAPGKQRELVATITRGGSTNYADSAKGRFTISRDNAWNTVYLQMNSLKHEDTAVYYCKAQRLLWGDYWGQGTQVTV 69.0	https://doi.org/10. Llama	EVQLVES TPSGSGLS WYRQAPG ARIYSSGTT EVQLVES AASGSIAGI WYRQAPG ATITRGGST		NbPep68 NbPep69
NbLys3	DVQLQASGGSVQAGGSLRLSCAASGYTIGPYCMGWFRQAPGKEREGVAAINMGGGITYYADSVKGRFTISQDNAKNTVYLLMNSLEPEDTAIYYCAADSTIYASYYECGHGLST 62.0	https://doi.org/10. Camel	DVQLQAS AASGYTIGF WFRQAPG AAIASMOOLT		NbLys3
NbBcII10 NbTEM2	QVQLVESGGGSVQAGGSLRLSCTASGGSEYSYSTFSLGWFRQAPGQEREAVAAIASMGGLTYYADSVKGRFTISRDNAKNTVTLQMNNLKPEDTAIYYCAAVRGYFMRLPSSHNF 78.0 QVQLVESGGGSVQAGGSLRLSCARSGSTDSRNCMGWFRQAPGKERESVASIYASGSTLYADSVEDRFTISQDNNKNTVYLQMNSLKPDDTAMYYCAAGRSRLGCSTERNSDYW 62.0	https://doi.org/10. Camel	QVQLVES TASGGSEY WFRQAPG AAIASMGGLT QVQLVES ARSGSTDS WFRQAPG ASIYASGST	YYADSVKGRFTI AAVRGYFI WGQG BcII β-lact LYADSVEDRFTI(AAGRSRL(WGQG TEM-1	NbBcll10 NbTEM2
NbNmcA2	QVQLVESGGGSVQAGGSLTLSCLVYGHSIVSSTMGWERTAPGQDCKWVSTFRSDGVKTYADSVEGRFAIDKDNAKNSIFLQMNDLKPEDTAVYYCAIIGASVGLWGQGTQVTVSS 68.0	https://doi.org/10. Camel	QVQLVES LVYGHSIVS WERTAPG(STFRSDGVK	TYADSVEGRFAI AIIGASVGI WGQG NmcA β-la	NbNmcA2
NbHuL6 NbR2	QVQLVESGGGSVQAGGSLRLSCSASGYTYISGWFRQAPGKEREGVAAIRSSDGTTYYADSVKGRFTISQDNAKNTVYLQMNSLKPEDTAMYYCAATEVAGWPLDIGIYDYWGQG 76.0 QVQLQESGGGLVQAGGSLRLSCAASGRATSGHGHYGMGWERQVPGKEREFVAAIRWSGKETWYKDSVKGRFTISRDNAKTTVYLQMNSLKPEDTAVYYCAARPVRVDDISLPV(60.0	https://doi.org/10. Camel	QVQLVES SASGYTYIS WFRQAPG AAIRSSDGTT QVQLQE: AASGRATS: WERQVPG AAIRWSGKET		NbHuL6 NbR2
BM_GFP2	DVQLQESGGGSVQAGGSLRLSCAASPYFSLRSCVAWFRQAPGKEREGVATIFTSTGSTYYADSVKGRFTISQDNANTVSLQMNSLEPEDAAMYYCAIEGRPMIGGPSCSMGSPN 78.0	https://doi.org/10. Camel		YYADSVKGRFTI AIEGRPMI WGQG green fluoresc	
BM_GFP3	DVQLQESGGGSVQAGGSLRLSCAASGFPFSNYCMGWFRQAPGKEREGVATISRLGMFTEYADSVQGRFIISRDNAQNMVFLQMNNLTPEDTAIYYCAAVSTSSSDCRPRLPSQE 78.0 QVQLVESGGGLIKPGGSLRLSCAASGFTVSYESMGWVRQAPGKGLEWVSAISSSGGSTYYADSVKGRFTISRDNSKNTVYLQMNSLRAEDTAVYYCVTPERQCKQSTCYARPRY 66.0	https://doi.org/10. Camel	DVQLQE: AASGFPFSI WFRQAPG ATISRLGMFT QVQLVE: AASGFTVS` WVRQAPG SAISSSGGST	EYADSVQGRFIII AAVSTSSS WGQG green fluoresc	BM_GFP3 Gr3
Gr6	QVQLVESGGGLIKPGGSLRLSCAASGVRLSAYDMAWVRQAPGKGLEWVSAISSSGGSTYYADSVKGRFTISRDNSKNTVYLQMNSLRAEDTAVYYCVTLPDLCPGDNCTYPDAS\ 79.0	https://doi.org/10. Human	QVQLVES AASGVRLS, WVRQAPG SAISSSGGST		Gr6
sdAbDA5	EVQLQASGGGLVQAGGSLRLSCAASGRAGDRNGIAWFRQPPGKEREFLAAISRGGTGTYYADSVKGRFTISRDNAENTVYLQMNSLKPEDTAVYYCAHSRYSFATPRTASDYNYV 66.0 QVKLEESGGGLVQAGGSLRLSCRTSGRTNSVYTMGWFRQAPGKEREFVAQIMWGAGTNTHYADSVKGRFTISRDSAESTVYLQMNSLKPEDTAVYYCAANRGIPIAGRQYDYWC 74.0	https://doi.org/10. Llama		YYADSVKGRFT AHSRYSFA WGRG Botulinum neu HYADSVKGRFT AANRGIPIA WGQG CEACAM6 (gl	
Abr2	DVQLQASGGGLVQAGGSLVLSCTASGRSYSSLAMGWLRQVPGKERELVGSISLSGGRTYYADSMKGRFTISKDNAKNTVYALQMNSLRPEDTAVYYCAANRGIPIAGRQYDYWC 74.0 64.0	https://doi.org/10. Llama	DVQLQA: TASGRSYS: WLRQVPG GSISLSGGRT		Abr2
N12	EVQLQASGGGMVQGGGSLRLSCAASAHTFSDYAMGWFRQAPGKERSLVAAINRSGGRTWYTDSVRGRFTISRDNAKNTVYYLQMDKLKPEDTAVYYCAAKSTHRDYAALNDYN 67.0 EVQLEESGGGLVOPGGSLRYSCAASGEAESGYAMGWEROAPGKEREEVAGISRTDNYRPYADSVKGREAISRDNAONMVYYLOMNISLKPEDTAVYYCAADRLGVPTPNISADYOX 64.0	https://doi.org/10. Llama	EVQLQAS AASAHTFSI WFRQAPG AAINRSGGRT		N12
N5 TP377	EVQLEESGGGLVQPGGSLRYSCAASGFAFSGYAMGWFRQAPGKEREFVAGISRTDNYRPYADSVKGRFAISRDNAQNMVYYLQMNSLKPEDTAVYYCAADRLGVPTPNSADYQ 64.0 QVQLVESGGGPVEAGGSLRLSCAASGRSFSNSVMAWFRQAPGKEREFLSVLNWSSGRTSIADSVKGRFTMSRDPAKITVYLQMNGLKPEDTAVYYCAASNRGSLYTLDNQNRYE 66.0	https://doi.org/10. Llama https://doi.org/10. Alpaca	EVQLEES AASGFAFS(WFRQAPG AGISRTDNYF QVQLVES AASGRSFS WFRQAPG SVLNWSSGR	YADSVKGRFAIS AADRLGVI WGQG Abrin SIADSVKGRFTI AASNRGS WGQG Xenopus nucle	N5 TP377
7C12	AVQLVESGGGSVQAGGSLRLTCAASGRTSRSYGMGWFRQAPGKEREFVSGISWRGDSTGYADSVKGRFTISRDNAKNTVDLQMNSLKPEDTAIYYCAAAAGSTWYGTLYEYDYV 65.0	https://doi.org/10. Llama	AVQLVES AASGRTSR WFRQAPG SGISWRGDS	GYADSVKGRFT AAAAGST\ WGQG recombinant E	7C12
EG2 BcIA A5	QVKLEESGGGLVQAGDSLRVSCAASGRDFSDYVMGWFRQAPGKEREFVAAISRNGLTTRYADSVKGRFTISRDNDKNMVYLQMNSLKPEDTAVYYCAVNSAGTYVSPRSREYDY 61.0 EVQLQASGGGLVQPGGSLRLSCVASGINFSTNVPTWYRQAPGKQRELVAVITTNGLTRYADSVKGRFTISKDNAKNAVYLQMNSLKPEDTAVYYCRARDYWGQGTQVTVSS 69.0	https://doi.org/10. Llama	QVKLEES AASGRDFS WFRQAPG AAISRNGLTT EVQLQAS VASGINFST WYRQAPG AVITTNGLT	RYADSVKGRFTI AVNSAGT WGQG recombinant E RYADSVKGRFTI RARDY WGQG BcIA	EG2 BcIA A5
BcIA B7	EVQLQASGRGLVQPGGSLRLSCVASGINFSTNVPTWYRQAPGKQRELVAVITNGLTRYADSVKGRFTISKDNAKNAVYLQMINSLKPEDTAVYYCMTGGWSGQGTQVTVSS 69.0 EVQLQASGRGLVQPGGSLRLSCAASGTSISDRAMTWYRQAPGKQRELVATIRSVGTTLYGDSVKGRFTISRDNAKNTVYLQLNSLMPEDTAVYYCMTGGWSGQGTQVTVSS 69.0	https://doi.org/10. Llama			BCIA A5 BCIA B7
BcIA H3	EVQLQASGGGLVQPGGSLRLSCAASGTSISDRAMTWYRQAPGKQRELVATIRSVGTTLYGDSVKGRFTISRDNAKNTVYLQLNSLMPEDTAVYYCMTGGWSGQGTQVTVSS 58.0 EVQLQASGGGLVQAGGSLRLACALSGSTININTMAWYRQAPGKQREEVALL NGGTSNYADSVTGRETISRDNAKNTVYLQMNSLKVEDTAVYYCHLGGLGASYWGQGTQVTVSS 49.0	https://doi.org/10. Llama		LYGDSVKGRFTI MTGGW SGQGT BcIA	BcIA H3
gerQ B2 gerQ G4	EVQLQASGGGLVQAGGSLRLACALSGSTININTMAWYRQPPGKQREFVAILLNGGTSNYADSVTGRFTISRDNAKNTVYLQMNSLKVEDTAVYYCHLGGLGASYWGQGTQVTVS 49.0 EVQLQASGGGLVQAGNSLNLSCAASGNTFNIYFMAWYRQPPGKQRELVASISTGGRTNYADSVKGRFTISSDSAHKGVYLQMNSLKFEDTAVYRCNYATEQGAYWGQGTQVTVS 46.0	https://doi.org/10. Llama	EVQLQAS ALSGSTINII WYRQPPG AILLNGGTS EVQLQAS AASGNTFN WYRQPPG ASISTGGRT		gerQ B2 gerQ G4
	EVQLQASGGGLVQAGGSLRLSCAASGRTFSDYAMGVWFRQAPGKERVFVAAISWAFTTRYADSVKDRFTISRDNAQDTVYLQMNSLKLEDTAVYYCAARNEPFELLTPSTRHENL) 70.0	https://doi.org/10. Llama	EVQLQAS AASGRTFS WFRQAPG AAISWAFTT		SODA1 F3
	EVQLQAYGGGLVQTGDSLTLSCAVSGPTWSVNAMAVWFRQVPGKEPVFVAALSREGGYTFYADFVKGRFTISRDNAKNTMSLQMNGLEPEDAAVYYCAGRTGIQLRETLSDYQY 65.0 EVQLQASGGGLVQAGGSLRLSCAASGRTFSTYIMGWWFRQAPGKEREFVAVKWNSGLVAYVDSVKGRFTISRDSAKNTIYLQMNSLNPEDTAVYYCAAKSQFDDGDYYSPLTYG 70.0	https://doi.org/10. Llama	EVQLQA\ AVSGPTWS WFRQVPG AALSREGGY EVQLQA\ AASGRTFS WFRQAPG AVKWNSGLV		SODA1 G4 SOD15 A6
SOD15 D2	EVQLQASRGGLVQAGGSLRLSCAASGRTFTSSVMGWWFRQAPGKEREFVSSLIWSSGSTVYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTALYYCVAKTTRYYRRGYDVPEE 65.0	https://doi.org/10. Llama	EVQLQAS AASGRTFTS WFRQAPG SSLIWSSGST	VYADSVKGRFTI VAKTTRYY WGQG SOD15	SOD15 D2
p5303 A3 p5303 B6	EVQLQASGGGLVQPGGSLRLNCAASGTDLSIYDMAWHRQAPGKQRELVAELPRGGSQNYAASVKGRFTISRDNAKNTVWLQMDSLRPEDTAVYFCNARFSRGGMFSSYWGQG 64.0 EVQLQASGGGLVQAGGSLRLSCVASGVTFEKYDMGWFRQAPGKEREFVAAISSRSRTRYADSVKGRFTVSRDNAKATVYLQMNSLKSEDTAVYHCAGTSSLILWNNDSHRTGSY 72.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQAS AASGTDLS WHRQAPG AELPRGGSQ EVQLQAS VASGVTFEF WFRQAPG AAISSRSRT		p5303 A3 p5303 B6
p5303 F1	EVQLQASGGGLVQAGGSLRLSCLASGRTLNTYAMAWFRRTPEKEPEFLTGIAWSNGVTTHADSVKGRFTISRDSAKNTVYLQMNNLKPEDTGLYSCAAGWRRAYGGSWTRYETC 62.0	https://doi.org/10. Llama	EVQLQAS LASGRTLN WFRRTPEI TGIAWSNGV	THADSVKGRFT AAGWRRA WGQG p5303	p5303 F1
R419 VHH_WT	QVKLEESGGGLVQAGGSLRLSCAASGRTYSTYAMGWFRQTPGKERELVAAINWSGGNTHYADSVKGRFTISRDNAKSTVYLQMNSLKPEDTAVYYCAAPKGHTGDHYWGPGTQ 66.0 QVQLVESGGSLVQPGGSLRLSCAASGRFAESSSMGWFRQAPGKEREFVAAISWSGGATNYADSAKGRFTLSRDNTKNTVYLQMNSLKPDDTAVYYCAANLGNYISSNQRLYGYV 52.35	https://doi.org/10. Alpaca https://doi.org/10. Unknown		HYADSVKGRFT AAPKGHT WGPG Listeria surfac	
WD11f	EVQLQASGGGLVQSGGSLRLSCAGSGGTESSYRMAWFRQAPGTERVFVARVSDGGGSILYADSAKGRFTISRDNGKNTIHLQMFSLKPEDTAVYFCAAAFSWMPPSTVAADYEY 51.0	https://doi.org/10. Llama		LYADSAKGRFTI AAAFSWM WGQG E2/E3E2 (Wes	

WE444		https://dei.org/10 Llone	DVOLOALAACODTECLWEDOADO AAIGDOOLAT VADOAAEGDETI AADACEDT WOOG FO/F0F0 (Was WE114
WE11f WB9	DVQLQASGGGLVQPGGSLGLSCAASGRTFSRYAMAWFRQAPGKEREFVAAISRSGHATRYADSAAESRFTISRDNAKNTVYLQMNSLKPEDTAVYYCAAPASERTVLPGTERDEY 50.0 DVQLQASGGGLVQAGGSLRLSCATSGISVSNSDMGWYRQGPGKQRELVARNSRAGTTNYLDSVKGRFTISRDNAKNMVFLQMNSLKLEDTAVYYCNTNPINRWNIWGQGAQVT 75.0	https://doi.org/10. Llama https://doi.org/10. Llama	DVQLQA: AASGRTFS: WFRQAPG AAISRSGHAT YADSAAESRFT! AAPASERT WGQG E2/E3E2 (Wes WE11f DVQLQA: ATSGISVSN WYRQGPC ARNSRAGTT NYLDSVKGRFT NTNPINRV WGQG E2/E3E2 (Wes WB9
WC10	DVQLQASGGGLVEAGGSLRLSCTTSGISVRNSDMGWYRQGPGKQRELIARSSRGGATNYLDSVTGRFTISRDNIKNTVFLQMNSLKPEDTAVYYCNTNPINHWNYWGQGTQVTV 60.0	https://doi.org/10. Llama	DVQLQA: TTSGISVRN WYRQGPC ARSSRGGAT NYLDSVTGRFTI NTNPINHV WGQG E2/E3E2 (Wes WC10
WH11	EVQLQASGGGLVQAGGSLRLTCVASGLTFVNYALDWYRQAPGKERELVAGMWSDGVAYYGDFVKGRFTMSRDNAKNMVYLQMNSLEPEDTAVYSCAARSRPTTQYDYWGQGT 72.0	https://doi.org/10. Llama	EVQLQAS VASGLTFVN WYRQAPG AGMWSDGV/ YYGDFVKGRFT AARSRPTT WGQG E2/E3E2 (Wes WH11
WE10 WF4	DVQLQASGGGLVQAGGSLRLSCVASGLTFVNYAIDWYRQAPGKEREVVAGMWNDGVAYYGDFVKGRFTIARDNAKNTVYLQMNNLKPEDTAVYFCGARSRPNLQYDYWGQGT(54.0 DVQLQASGGGLVQAGGSLRLSCAVSDNTTSLNGMGYYRGPPGKQREFVAYARNNGAPKYADSVMGRFTISYDNSKATVYLQMNNLGPEDTALYYCYAPDRWHTYWAGGTQVT 43.0	https://doi.org/10. Llama https://doi.org/10. Llama	DVQLQA: VASGLTFVN WYRQAPG AGMWNDGV, YYGDFVKGRFT GARSRPN WGQG E2/E3E2 (Wes WE10 DVQLQA: AVSDNTTSI YYRGPPG AYARNNGAP KYADSVMGRFT YAPDRWH WAGG E2/E3E2 (Wes WF4
D10	QVQLVESGGGLVQPGGSLRLHCAASGSIASIYRTCWYRQGTGKQRELVAAITSGGNTYYADSVKGRFTISRDNAKNTIDLQMNSLKPEDTAVYYCNADEAGIGGFNDYWGQGTQV 66.0	https://doi.org/10. Alpaca	QVQLVES AASGSIASI' WYRQGTE AAITSGGNT YYADSVKGRFTI NADEAGIC WGQG' ricin D10
E1	QVQLVESGGGLVQAGGSLRLSCAASGRTFSRSSMGWFRQAPGKEREFVASIVWADGTTLYGDSVKGRFTVSRDNVKNMVYLQMNNLKPEDTALYYCADNKFVRGLVAVRAIDYD 65.0 QVQLVESGGGLVQPGGSLRLSCAASGFTLDDYAIGWFRQVPGKEREGVACVKDGSTYYADSVKGRFTISRDNGAVYLQMNSLKPEDTAVYYCASRPCFLGVPLIDFGSWGQGTQ 70.0	https://doi.org/10. Alpaca	QVQLVES AASGRTFS WFRQAPG ASIVWADGTT LYGDSVKGRFT ADNKFVR WGQG ricin E1 QVQLVES AASGFTLDI WFRQVPG ACVKDGST YYADSVKGRFT ASRPCFL WGQG ricin F5
F5 F6	QVQLVESGGGLVQAGGSLRLSCATSGGTFSDYGMGWFRQAPGKEREFVAAIRRNGNGGNGIEYADSVKGRFTISRDNAKNTVHLQMNSLTPEDTAVYYCAASISGYAYNTIERYN) 74.0	https://doi.org/10. Alpaca https://doi.org/10. Alpaca	QVQLVES AASGFTEDI WFRQVPG ACVRDGST YYADSVKGRFTI ASRPCFEC WGQG ricin F6 QVQLVES ATSGGTFSI WFRQAPG AAIRRNGNG(EYADSVKGRFTI AASISGYA WGQG ricin F6
H1W	DVQLQASGGGLAQAGGSLRLSCAYSGDTYNDYAMAWFRQAPGKGREFVAAIRARGGGTEYLDSVKGRFTISRDNGENTAYLQMDNLQPDDTALYFCALAMGGYAYRAFERYSV 70.0	https://doi.org/10. Llama	DVQLQA AYSGDTYN WFRQAPG AAIRARGGG EYLDSVKGRFTI ALAMGGY WGQG ricin H1W
F6m+	QVQLVESGGGLVQAGGSLRLSCATSGGTFSDYGMGWFRQAPGKEREFVCAIRRNGNGGNGIEYADSVKGRFTCSRDNAKNTVHLQMNSLTPEDTAVYYCAASISGYAYNTIERYN 85.0 EVQLVESGGGLVQAGDSLRLSCTASGRTFSRAVMGWFRQAPGKEREFVAAISAAPGTAYYAFYADSVRGRFSISADSAKNTVYLQMNSLKPEDTAVYYCAADLKMQVAAYMNQRS 85.0	https://doi.org/10. Llama https://doi.org/10. Llama	QVQLVES ATSGGTFSI WFRQAPG CAIRRNGNG EYADSVKGRFT AASISGYA WGQG ricin F6m+ EVQLVES TASGRTFSI WFRQAPG AAISAAPGTA FYADSVRGRFSI AADLKMQ WGGT Staphyloccoc sdAb A3
Nb2	QVQLQESGGGLVQPGGSLRLSCEASGFTFSAYPMSWVRQAPGKGLEWVATITNGGGFTDYADSVKGRFTISRDNAKNTMYLQLNKLKTEDTALYYCAQGSAMTSVLPPTPKGQC 65.0	https://doi.org/10. Camel	QVQLQE: EASGFTFS/ WVRQAPG ATITNGGGFT DYADSVKGRFT AQGSAMT KGQGT Bt Cry1B toxir Nb2
Nb3	QVQLQESGGGSVQAGGSLRLSCAASKVTASRYCMGWFRQAPGKEREGVARVWPGGGRTYYAESVKGRFTISQDNAKNTVYLQMNSLKPEDTAMYYCAATPAEYYSGGYYCGC 65.0	https://doi.org/10. Camel	QVQLQE: AASKVTASF WFRQAPG ARVWPGGGF YYAESVKGRFTI AATPAEYY WGQG Bt Cry1B toxir Nb3
VHH212 E1	MVQLQESGGGSVQAGGSLRLSCVASGDTASMYCMGWFRQAPGKEREEVATIDSDGSVSIADSLKGRFTISKDSANNALYLHMNSLRPEDTANYYCAAGRPPCGSIFKPGYYYYG 50.75 DVQLQASGGGLVQTGGSLRLSCENSGRALRIMGWFRQAPGKEREFVATINRNGESTYYSDSVKGRFTISRDNNKNTVYLQMNNLKPEDTGVYNCAADRPGPTQIKTRADDYDYV 59.0	https://doi.org/10. Unknown	MVQLQE VASGDTASI WFRQAPG ATIDSDGSV SIADSLKGRFTIS AAGRPPC WGKG HIF-1α VHH212 DVQLQAS ENSGRALR WFRQAPG ATINRNGEST YYSDSVKGRFT AADRPGP WGEG Lassa virus nu E1
G11	DVQLQASGGGLVQAGDSLTLSCAASGRTVSPYGVGWFRQAPGREREFVAALSRSGTFTAYADSVKGRFTISRDNAKNTVYLQMNSLKPDDTAVYHCAARSASSYYSTYRKEDDYI 60.0	https://doi.org/10. Llama https://doi.org/10. Llama	DVQLQA: AASGRTVS WFRQAPG AALSRSGTFT AYADSVKGRFTI AARSASS) WGQG Lassa virus nu G11
E10	DVQLQASGGGLVQAGASLRLSCAASGFTYTMGWFRQAPGQEREFVAAIARSGGTTYYTDSVKGRFTISRDNAKKTVFLQLNSLKPEDTAVYYCAADALPYSAQSMSTRNPGYWG 48.0	https://doi.org/10. Llama	DVQLQA: AASGFTYTI WFRQAPG AAIARSGGTT YYTDSVKGRFTI AADALPYS WGQG Lassa virus nu E10
E11	EVQLQASGGGLAQPGGSLRLSCAASGFTLVYYGIGWFRQAPGKEREGVSCISSNDGTTYYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCATELGNTHRGSYFPKQRVE 64.0 EVQLQASGGGLAQPGGSLRLSCAASGFTLVYYGIGWFRQAPGKEREGVSCISSNDGSTYYADSVKGRFTISRDAAKNTVYLQMNSLKPEDTAVYYCATELGNTHRGSFFPNRRVE 63.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQAS AASGFTLV) WFRQAPG SCISSNDGTT YYADSVKGRFTI ATELGNTH WGQG Lassa virus nu E11 EVQLQAS AASGFTLV) WFRQAPG SCISSNDGST YYADSVKGRFTI ATELGNTH WGQG Lassa virus nu B5
H6	DVQLQASGGGVVQPGGSLRLSCVASGFTLVYYGIGWFRQAPGKEREGVSCISSNDGSTYYADSVKGRFTISRDAAKNTVYLQMNSLKPEDTAVYYCATELGNTHRGSFFPNRRVK 64.0	https://doi.org/10. Llama	DVQLQA: VASGFTLVY WFRQAPG SCISSNDGST YYADSVKGRFTI ATELGNTH WGQG Lassa virus nu H6
F3	DVQLQASGGGLVQPGGSLRLSCAASGFTLVYYGIGWFRQAPGKEREGVSCISSYDGTTYYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCATELGNTHRGSYFPKQRVE 65.0	https://doi.org/10. Llama	DVQLQA: AASGFTLV) WFRQAPG SCISSYDGTT YYADSVKGRFTI ATELGNTH WGQG Lassa virus nu F3
C7	EVQLQASGGGLVQPGGSLRLSCVASGFTLVYYGIGWFRQAPGKEREGVSCISSNDGSTYYADSVKGRFTISRDAAKNTMYLQMNSLKPEDTAVYYCATELGNTHRGSFFPNRRVE 66.0 QVQLVESGGALVQPGGSLRLSCAASGFPVSSSTMTWYRQAPGKEREWVAAISSSGSTTTYEDSVKGRFTISRDDARNTVYLQMNSLKPEDTAVYYCTVTVGSTYTGQGTQVTVSS 74.0	https://doi.org/10. Llama	EVQLQAS VASGFTLVY WFRQAPG SCISSNDGST YYADSVKGRFTI ATELGNTH WGQG Lassa virus nu C7 QVQLVES AASGFPVS: WYRQAPG AAISSSGSTT TYEDSVKGRFTI TVTVGSTY TGQGTQVTVSS concave
loop	QVQLVESGGALVQPGGSLRLSCAASGFPVSSSTMTWYRQAPGKEREWVAAISSSGSTTTYEDSVKGRFTISRDDARNTVYLQMNSLKPEDTAVYYCNVKDSGSSSSSYDYWGQ(75.0	https://doi.org/10. Camel https://doi.org/10. Camel	QVQLVES AASGFPVS: WYRQAPG AAISSSGSTT TYEDSVKGRFTI NVKDSGS WGQGTQVTVSS loop
1zvh	DVQLVESGGGSVQAGGSLRLSCAASGYIASINYLGWFRQAPGKEREGVAAVSPAGGTPYYADSVKGRFTVSLDNAENTVYLQMNSLKPEDTALYYCAAARQGWYIPLNSYGYNY\ 74.0	https://doi.org/10. Camel	DVQLVES AASGYIASII WFRQAPG AAVSPAGGTF YYADSVKGRFT AAARQGW WGQG egg white lysc 1zvh
NbCEA5	QVQLVESGGGSVQAGGSLRLSCAASGSISSITYLGWFRQAPGKEREGVAALSTSSGTTYYADSVKGRFTVSLDNAENTVYLQMNSLKPEDTALYYCAAASSGSSSPLSSSSYTYW 95.0 QVQLVESGGGSVQAGGSLRLSCAASGDTYGSYWMGWFRQAPGKEREGVAAINRGGGYTVYADSVKGRFTISRDTAKNTVYLQMNSLRPDDTADYYCAASGVLGGLHEDWFNY 70.0	https://doi.org/10. Camel https://doi.org/10. Camel	QVQLVES AASGSISSI WFRQAPG AALSTSSGTT YYADSVKGRFT AAASSGS WGQGTQVTVSS convex QVQLVES AASGDTYG WFRQAPG AAINRGGGY VYADSVKGRFTI AASGVLG WGQG CEA NbCEA5
NbCEA5_h	QVQLVESGGGLVQPGGSLRLSCAASGDTYGSYWMGWFRQAPGQGLEAVAAINRGGGYTVYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAASGVLGGLHEDWFNYV 74.0	https://doi.org/10. Camel	QVQLVES AASGDTYG WFRQAPG AAINRGGGY VYADSVKGRFTI AASGVLG(WGQG CEA NbCEA5_hs
NbCEA5_h	QVQLVESGGGLVQPGGSLRLSCAASGGSEYSYSTFSLGWFRQAPGQGLEAVAAIASMGGLTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAAVRGYFMRLPSSHNI 73.7 EVQLGESGGGSVQAGGSLRLSCAASGYMYSTYSTYCMGWFRQAPGKEREGVAFIKRGDHSTYYTDSVKGRFTISQDSAKNTVSLQMNNLKPEDTAIYYCAADFAHSFLLSVHSG 75.6	https://doi.org/10. Camel https://doi.org/10. Camel	QVQLVES AASGGSEY WFRQAPG AAIASMGGLT YYADSVKGRFTI AAVRGYFI WGQG CEA NbCEA5_hg EVQLGES AASGYMYS WFRQAPG AFIKRGDHST YYTDSVKGRFTI AADFAHSF WGQG NorC ICab3
Nb1174	QVQLQESGGGSVQAGGSLRLSCAVSGYTYSRNCIGWFRQAPGKEREGVAALYTGGGSTYYAASVKGRFTISQDTKNTVYLQMNSLKPEDSAMYYCAANPFGLYTCGDLRGPDF 70.95	https://doi.org/10. Camel	QVQLQE: AVSGYTYSI WFRQAPG AALYTGGGS YYAASVKGRFTI AANPFGLY WGQGTQVTVSS Nb1174
Nb1175	QVQLQESGGGSVQAGGSLRLSCVASGYTYSNLVMAWFRQAPGKEREGVAAITAYGSMTYYADSVKGRFTIARDAKNTVYLQMNSLKSEDTAIYYCAARDYWSSSGSWYNGGTYI 73.8	https://doi.org/10. Camel	QVQLQE: VASGYTYSI WFRQAPG AAITAYGSMT YYADSVKGRFTI AARDYWS WGQGTQVTVSS Nb1175
Nb1176 M24E	QVQLQESGGGSVQAGGSLRLSCVVSGYTYSAYYLAWFRQAPGKEREGVACIHSGSGSTYYADSAKGRFTISQDAKNTVYLQMNSLKREDTAIYYCAADYRFSYASACRHEYKYW 71.94 DVQLQASGGGLVQAGGSLRLSCAASGSTFSIKHHGWYRRAPGNQREWVAGISSENITNVAEAVKGRFTISRDNAKNTVYLQMNSLKVEDTAVYYCYAQDNDYRFLHREWGQGTC 56.0	https://doi.org/10. Camel	QVQLQE: VVSGYTYS, WFRQAPG ACIHSGSGST YYADSAKGRFT AADYRFS; WGQGTQVTVSS Nb1176 DVQLQA: AASGSTFSI WYRRAPG AGISSENIT NVAEAVKGRFTI YAQDNDY WGQG Hoc-CD20 M24E
M24E	DVQLQASGGGLVQAGGSLRLSCAASGSTFSIKHHGWYRRAPGNQREWVAGISSENITNVAEAVKGRFTISRDNAKNTVYLQMNSLKVEDTAVYYCYAQDNDYRFLHREWGQGTC 56.0 DVQLQASGGGLVQAGGSLRLSCAASGSTFSIKHHGWYRRAPGNQREWVAGINSENITNVAGAVKGRFTISRDNAKNTVYLQMNSLKVEDTAVYFCYAQDNDYRFLHRFWGQGTC 52.0	https://doi.org/10. Llama https://doi.org/10. Llama	DVQLQA: AASGSTFSI WYRRAPG AGISSENIT NVAEAVKGRFTI YAQDNDY WGQG Hoc-CD20 M24E DVQLQA: AASGSTFSI WYRRAPG AGINSENIT NVAGAVKGRFT YAQDNDY WGQG Hoc-CD20 M28C
M112D	DVQLQASGGGLVQAEGSLRLSCAASGSTFGIKHHGWYRRAPGNQREWVAGISSENITNVAEAVKGRFTISRDNAKNTVYLQMNSLKVEDTAVYYCYAQDNNYRFLHRFWGQGTC 49.0	https://doi.org/10. Llama	DVQLQA: AASGSTFG WYRRAPG AGISSENIT NVAEAVKGRFTI YAQDNNY WGQG Hoc-CD20 M112D
M110B	EVQLQASGGGLVQPGGSLRLSCVASGGIFRISTLEWYRQAPGKQREVVAQITAGGSTHHADSVKGRFTISRDDAKDTVYLQMNSLKPEDTAVYVCSAYGNLRRYWGQGTQVTVSS 64.0	https://doi.org/10. Llama	EVQLQA: VASGGIFRI: WYRQAPG AQITAGGST HHADSVKGRFT SAYGNLRI WGQG Hoc-CD20 M110B DVQLQA: VTSESIFRL: WYRQAPG AQITSGGST HHADSVKGRFT SAYVNLTR WGQG Hoc-CD20 M110C
M110C M27G	DVQLQASGGGLVQPGGSLRLSCVTSESIFRLSTLEWYRQAPGNQRKVVAQITSGGSTHHADSVKGRFTISRDDAKNTVYLQMNNLKPEDTAVYVCSAYVNLTRYWGQGTQVTVSS 62.0 DVQLQASGGGLVQPGGSLRLSCAASGNIFSINTMAWYRQAPGKQRELVAQITSGGSTYVANSVKGRFTVSRDNTKNTVYLQIDSLNPEDTAVYYCQMPKYDNWGQGTQVTVSS 62.0	https://doi.org/10. Llama https://doi.org/10. Llama	DVQLQA: VTSESIFRL: WYRQAPG AQITSGGST HHADSVKGRFT SAYVNLTR WGQG Hoc-CD20 M110C DVQLQA: AASGNIFSII WYRQAPG AQITSGGST YVANSVKGRFT QMPKYDN WGQG Hoc-CD20 M27G
Nb85	QVQLQESGGGLVQAGGSLRLSCAASGLTFSTYDMGWYRQAPGKEREFVAAIDYSGGSTYYADSVKGRFTISRDNARNTVYLQMNSLEPEDTAIYYCADFFNNQSSTTVYYWGQG 74.5	https://doi.org/10. Alpaca	QVQLQE: AASGLTFST WYRQAPG AAIDYSGGST YYADSVKGRFTI ADFFNNQ: WGQGTQVTVSS Nb85
Nb119	QVQLQESGGGLVQAGGSLRLSCAASGRTFSSYDMGWYRQAPGKEREFVAAISWSGGSTYYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTAIYYCALADEEGGLNPSTVYYW 70.3	https://doi.org/10. Alpaca	QVQLQE: AASGRTFS: WYRQAPG AAISWSGGS: YYADSVKGRFTI ALADEEG(WGQGTQVTVSS Nb119
Nb147 Nb174	QVQLQESGGGSVQPGGSLRLSCAASGHTFSNLDMGWYRQAPGKKREFVAVSRWRDGSTFYADSVRGRFTISRDNAKNTVYLQMNSLEPEDTAVYYCDDDDGGGGKRTVYYYV 57.8 QVQLQESGGGLVQAGGSLRLSCTASGRNFGDYTLGWFRQAPGQERQVVAAITWSGSMTYYADSVKGRFTISRDNAKNMGYLQMNSLKPEDTAVYSCAAADGGHQRSTTVWYY 67.0	https://doi.org/10. Alpaca	QVQLQE AASGHTFS WYRQAPG AVSRWRDGS FYADSVRGRFTI DDDDGGG WGQGTQVTVSS Nb147 QVQLQE TASGRNFG WFRQAPG AAITWSGSM YYADSVKGRFTI AAADGGH WGPGTQVTVSS Nb174
Nb5	QVQLQESGGGLVQPGGSLRLSCAASGFTISTTAMSWVRQAPGKGIEWVSTIFASGETTSYADFVQGRFITSRDNTKNTLYLQLNNLKTEDTAMYFCAAADDFGGLNNRYRGQGTQ 60.7	https://doi.org/10. Camel	QVQLQE: AASGFTIST WVRQAPG STIFASGETT SYADFVQGRFIT AAADDFG(RGQGT SIyD Nb5
R11	QVKLEESGGGLVQAGGSLRLSCVGPGFLLRSNTMGWYRQAPGKERELVAFIRPSGLTNYNDAVQGRFTISRDNAKNTVYLQMNALKPEDTAVYYCHTRPPFQRDSWGQGTQVTV 69.6	https://doi.org/10. Llama	QVKLEES VGPGFLLR: WYRQAPG AFIRPSGLT NYNDAVQGRFT HTRPPFQF WGQG HSA R11
R28 M75	QVQLVESGGGLVQAGGSLRLSCVASGRTFIAYAMGWFRQAPGKEREFVAAITNFAGGTTYYADSVKGRFTISRDNAKTTVYLQMNSLKPEDTALYYCAADRSAQTMRQVRPVLPYV 71.6 QVQLVESGGGFVQAGGSLRLSCAASGRTFDNYVMAWFRQAPGKEREFVASISGSGSITNYANSVKDRFTISRDSAKNAIYLQMNSLKPEDTALYYCAAGSRRTYYREPKFYPSWG 79.8	https://doi.org/10. Llama https://doi.org/10. Llama	QVQLVES VASGRTFIA WFRQAPG AAITNFAGGT YYADSVKGRFTI AADRSAQ WGQG HSA R28 QVQLVES AASGRTFD WFRQAPG ASISGSGSIT NYANSVKDRFT AAGSRRT WGQG HSA M75
M79	QVKLEESGGGLVQAGGSLKLSCAASGSTFSSSSVGWYRQAPGQQRELVAAITSGGSTNTADSVKGRFTMSRDNAKNTVYLQMRDLKPEDTAVYYCNVAGRNWVPISRYSPGPYV 67.2	https://doi.org/10. Llama	QVKLEES AASGSTFS: WYRQAPG AAITSGGST NTADSVKGRFTI NVAGRNW WGQG HSA M79
C5	EVQLQASGGGLVQPGGSLRLSCVASGIDFSTNVPTWYRQAPGKQRDLVAVITTNGLTRYADSVKGRFTISKDNAKNAVYLQMNSLKPEDTAVYYCNAFVGLTDYWGQGTQVTVSS 58.0	https://doi.org/10.	EVQLQAS VASGIDEST WYRQAPG AVITTNGLT RYADSVKGRETI NAFVGLTE WGQG BcIA C5
D4 A4	EVQLQAYGGGLVQPGGSLRLSCEASGTTERTINAGWSRQAPGKEREWVGVITSSGMTRYADFAKGRFTISRDNSKNTVFLHMNSLKPEDTAVYYCTTGGKWGQGTQVTVSS 67.0 EVQLQASGGGLVQAGESLRLSCVASGSSLSLNAKAWYRQAPGKLRELVAAIGSGGSTVYSDSVKGRFIISRDDAKNTIYLQMNSLKPEDTAVYYCNRGGHWGQGTQVTVSS 57.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQA\ EASGTTER WSRQAPG GVITSSGMT RYADFAKGRFTI TTGGK WGQG BcIA D4 EVQLQA\ VASGSSLSI WYRQAPG AAIGSGGST VYSDSVKGRFII\ NRGGH WGQG BcIA A4
E 6	EVQLQASGGGLVQAGGSLKVSCVASGFARSPYTMKWYRQAPGKQRELVAAVSSGGNPIYAESVRGRFTISRDNTKNTVWLQMDSMNPEDTAVYYCNYGNHWGQGTQVTVSS 60.0	https://doi.org/10. Llama	EVQLQAS VASGFARSI WYRQAPG AAVSSGGNP IYAESVRGRFTIS NYGNH WGQG BcIA E6
ССЗ	EVQLQESGGGSVQAGGSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVEGRFTISRDHAKNSVYLQMNYLKPEDSAVYYCRAFGPADYWGQGTQVTVSS 60.0	https://doi.org/10.	EVQLQE: VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGQGTQVTVSS CC3
CH5	EVQLQASGGGSVQAGGSLRLSCVASQNLFEYYTMGWYRQVPGSQRERVALINNGDSNVAGSVEGRFTISRDNAKNSIYLQMNNLKPEDSAVYYCRAFGPADYWGQGTQVTVSS 54.0 DVQLQASGGGLVQAGGTLRLSCAHSGRTSSTQFWGWFRQAPGKEREFVAGMSRSGLSTFVADSVKGRFAISRDSGKNTVYLQMNSLKPEDTAVYFCASSPFIGEHYYSSTKYHY 71.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQA(VASQNLFE' WYRQVPG ALINNGDS NVAGSVEGRFT RAFGPAD' WGQG Chikungunya CH5 DVQLQA(AHSGRTSS WFRQAPG AGMSRSGLS FVADSVKGRFAI ASSPFIGE WGQG Chikungunya CD11
CH6	EVQLQASGGGLVQAGGSLRLSCAASQNIFSINVMGWYRQAPGEQRELVAAITSGGSTNVADSVKGRVTISRDNAKNTVYLQMNSLKPEDTAVYYCAAEETYYSGSYYGDMEYWG 59.0	https://doi.org/10. Llama	EVQLQAS AASQNIFSII WYRQAPG AAITSGGST NVADSVKGRVT AAEETYYS WGQG Chikungunya CH6
CA6	EVQLQASGGGLVRPGGSLRLSCAASGSFFTIDTMAWYRQAPGRRRELVARQSSGRSPDVDDSVVGRFTISRDIAKSSVYLQMDSLQPEDTALYYCYQSIRPWPGSSYEAHWGQG 55.0	https://doi.org/10. Llama	EVQLQAS AASGSFFTI WYRQAPG ARQSSGRSP DVDDSVVGRFT YQSIRPWF WGQG Chikungunya CA6
ÃÂð Ac	DVQLQASGGGFVQAGGSLRLTCVASGHTFGSYAMGWFRQAPGKEREFVAAISWSGGDTYADSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYSCAAVGARYYISKDAKDYGYV 71.0 DVQLQASGGGLVQPGGSLRLTCAASGLIFGSYAMGWFRQAPGKAREFVAAISWSGGDTYADSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYSCAAVGSKYYISKDAKDYGYW 73.0	https://doi.org/10. Llama https://doi.org/10. Llama	DVQLQA: VASGHTFG WFRQAPG AAISWSGGD TYADSVKGRFTI AAVGARY WGQG Staphyloccoc ÃÂÃÃô° DVQLQA: AASGLIFGS WFRQAPG AAISWSGGD TYADSVKGRFTI AAVGSKY WGQG Staphyloccoc Ac
Ad	EVQLQASGGGLVQPGGSLRLPCAASGLIFGSYAMGWFRQAPGKAREFVAAISWSGGDTYADSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYSCAAVGSKYYISKDAKDYGYW 55.0	https://doi.org/10. Llama	EVQLQAS AASGLIFGS WFRQAPG AAISWSGGD TYADSVKGRFTI AAVGSKYY WGQG Staphyloccoc Ad
Са	EVQLQASGGGLVQAGDSLRLPCAASLRTFGSYALGWFRQAPGKEREFVAAISWSGGDTYADSVKGRFTISRDNAKSTVYLQMNSLEPEDTAVYSCAAVRARYYISKHATDYGFWG 47.0	https://doi.org/10.	EVQLQAS AASLRTFGS WFRQAPG AAISWSGGD TYADSVKGRFTI AAVRARYY WGQG Staphyloccoc Ca
Cb áÑÂ	EVQLQASGGGLVQAGGSLRLTCAASGRTFGSYAMGWFRQAPGKEREFVAAISWSGGDTYADSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYWCAAVRARYYISKVAEDYGYW 70.0 DVQLQASGGGLVQAGGSLRLTCAASGRTFGSYAMGWFRQAPGKEREFVAAISWSGGDTYADSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYWCAAVRARYYISKVAEDYGYW 72.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQAS AASGRTFG WFRQAPG AAISWSGGD TYADSVKGRFTI AAVRARYY WGQG Staphyloccoc Cb DVQLQAS AASGRTFG WFRQAPG AAISWSGGD TYADSVKGRFTI AAVRARYY WGQG Staphyloccoc áÃ'Â
Cd	EVQLQASGGGLVQAGGSLRLPCAASGRTFGSYAMGWFRQAPGKEREFVAAISWSGGDTYADSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYWCAAVRARYYISKVAEDYGYV 59.0	https://doi.org/10. Llama	EVQLQAS AASGRTFG WFRQAPG AAISWSGGD TYADSVKGRFTI AAVRARYY WGQG Staphyloccoc Cd
E2	EVQLQASGGGLVQAGGSLRLTCAASGRTFGSYAMGWFRQAPGKEREFVAAISWSGGDTYADSVKGRFTISRDNAKNTVYLQMNSLAPEDTAVYSCAAVGARYYISKDAKDYGYW 71.0	https://doi.org/10. Llama	EVQLQAS AASGRTFG WFRQAPG AAISWSGGD TYADSVKGRFTI AAVGARY WGQG Staphyloccoc E2
D9 A17	EVQLQASGGGLAQAGDSLRLSCAASIRTFGSYAMGWFRQAPGKEREFVAAISWSGGDTYADSAKGRFTISRDNAKNMMYLQMNSLAPEDTAVYFCAIVEAKYYISKDARDYGYW 63.0 QVKLQESGGGLVQAGGSLRLSCAASGRPFSTYYMGWFRQAPGKEREFIIGIDSNGGITYARTSVKGRFTISRDNAKNTVYLQMNDLKPEDTAVYYCVADTGRGAGHWDSWGQGT 77.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQAS AASIRTFGS WFRQAPG AAISWSGGD TYADSAKGRFTI AIVEAKYY WGQG Staphyloccoc D9 QVKLQES AASGRPFS WFRQAPG IGIDSNGGIT YARTSVKGRFTI VADTGRG, WGQG BoNT A17
A18	QVKLQESGGGLVQAGDSLRLSCAASRRTFSEYTLAWFRQAPGKEREFVTGISYNGVTTWYADSVKGRFTISRDNAKNTLYLQMNSLKREDTAVYYCAADPRTADYSGSYRYWGQ 67.0	https://doi.org/10. Llama	QVKLQE: AASRRTFSI WFRQAPG TGISYNGVTT WYADSVKGRFT AADPRTAL WGQG BoNT A18
B2	QVKLQASGGGLVQAGGSLRLSCAASGRTFSTYALGWFRQAPGKEREFAAAISRNGIIKDYAESVKGRFTISRDNAKNTIYLEMNSLKPEDTAVYYCAATGTVYDYMAHALARSYEFV 61.0	https://doi.org/10. Llama	QVKLQA: AASGRTFS: WFRQAPG AAISRNGIIK DYAESVKGRFTI AATGTVYL WGQG BONT B2
B4 C1	QVKLQASGGGLVQPGGSLRLSCAVSGNTDSTMSMGWFRQAPGKEREFVGASIISIDSFVYADSVKGRFAISRDTAKNSVYLQMNSLSPDDTAVYYCAAIYLPSIANAYSTPSSWRQ 63.0 QVKLQASGGGLVQAGGSLRLSCAASGRTFSTYGVGWFRQAPGKEREFVAGISWNGDSTYYAPSVKGRFTISRDNTKNTAYLQMNSLKPEDTAVYYCAVGTISYSLRYAAPASYDY 53.0	https://doi.org/10. Llama https://doi.org/10. Llama	QVKLQA(AVSGNTDS WFRQAPG GASIISIDSF VYADSVKGRFAI AAIYLPSIA WGQG BoNT B4 QVKLQA(AASGRTFS WFRQAPG AGISWNGDS YYAPSVKGRFTI AVGTISYS WGQG BoNT C1
C 6	QVKLQASGGGLVQPGGSLRLSCAASGRAISAYIMAWFRQVPGKEREFVAGTHWNARSTYYDDSAEGRFTISRDNAKNTVYLEMNSLKPEDTAVYFCAQDQSPYGTSLSLRGSKY 58.0	https://doi.org/10. Llama	QVKLQAS AASGRAISA WFRQVPG AGTHWNARS YYDDSAEGRFT AQDQSPY WGQG BoNT C6
C6m	EVQLVESGGGLVQPGGSLRLSCAASGRAISAYIMAWFRQVPGKEREFVAGTHWNARSTYYDDSAEGRFTISRDNAKNTVYLEMNSLKPEDTAVYFCAQDQSPYGTSLSLRGSKYV 67.0 QVKLQASGGGLVQAGGSLTLSCADSGHTFSTYIMAWFRQAPGKEREFVASRTHRNWTYYPDSVKGRFTISRDSAKNTLYLQMNSLKPEDTAVYYCAARRMDSGSYRYNDRETYD 66.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLVES AASGRAIS/ WFRQVPG AGTHWNARS YYDDSAEGRFT AQDQSPY WGQG BoNT C6m QVKLQA: ADSGHTFS WFRQAPG ASRTHRNWT YYPDSVKGRFT AARRMDS WGQG BoNT C24
D16	QVKLQASGGGLAQPGGSLTLSCAASGRTLDTYVMGWFRQAPGKEREFVAAIRWNGGNVYYGDSPKGRFTISRDSAKNTVYLQMNSLNSEDTAVYYCAARGPNPGTRYFYTDEK 53.0	https://doi.org/10. Llama	QVKLQA: AASGRTLD: WFRQAPG AAIRWNGGN YYGDSPKGRFT AARGPNP WGQG BoNT D16
D22	QVKLQASGGGLVQPGGSLRLSCAASGNIFSDRSMGWYRQAPGKQREYVAAIGAGGSTNYADFVKGRFTISRDNAKNTGYLQMNSLQPEDTAVYYCKLYSAPTTRDARREYWGQ 62.0	https://doi.org/10. Llama	QVKLQA: AASGNIFSE WYRQAPG AAIGAGGST NYADFVKGRFTI KLYSAPTT WGQG BoNT D22
E4 E6	QVKLQASGGGLVQAGGSLRLSCAASGRTFSNFAMGWFRQAPGKEREFVAALSWSNGSTAYPDAMKGRFTISRDNAGNTGYLQMNTLKPEDTAVYYCAAVERPRARIPVGSYEFT 57.0 QVKLQASGGGLVQAGDSLRLSCAASGRTLSIYATGWFRQAPGKEREFVSAIRSTGSDTYYANSVKGRFTIARDNAKNMVYLQMNSLKPEDTAVYYCAAGRGQRLGYSRRQNDYD 63.0	https://doi.org/10. Llama https://doi.org/10. Llama	QVKLQA: AASGRTFSI WFRQAPG AALSWSNGS AYPDAMKGRFT AAVERPR/ WGQG BoNT E4 QVKLQA: AASGRTLSI WFRQAPG SAIRSTGSDT YYANSVKGRFTI AAGRGQR WGQG BoNT E6
E6m	DVQLVESGGGLVQAGDSLRLSCAASGRTLSIYATGWFRQAPGKEREFVSAIRSTGSDTYYANSVKGRFTIARDNAKNMVYLQMNSLKPEDTAVYYCAAGRGQRLGYSRRQNDYDI 72.0	https://doi.org/10. Llama	DVQLVES AASGRTLSI WFRQAPG SAIRSTGSDT YYANSVKGRFTI AAGRGQR WGQG BoNT E6m
E7	QVKLQASGGGLVQAGDSLRLSCAASGRTLVIYAIAWFRQAPGKEREFVSAVRSTGSDTYYANSVKGRFTISRDNSRNNVYLQMDSLQPEDTAVYYCAAGRGQRLGYSRRQNDYDF 64.0	https://doi.org/10. Llama	QVKLQA: AASGRTLVI WFRQAPG SAVRSTGSD YYANSVKGRFT AAGRGQR WGQG BoNT E7
E7m E7m2	QVKLQASGGGLVQAGDSLRLSCAASGRTLVIYAIAWFRQAPGKEREFVSAVRSTGSDTYYANSVKGRFTISRDNSRNNVYLQMDSLQPEDTAVYYCAAGRGQRLGYSRRQNDYDF 64.0 DVQLVESGGGLVQAGDSLRLSCAASGRTLVIYAIAWFRQAPGKEREFVSAVRSTGSDTYYANSVKGRFTISRDNSRNNVYLQMDSLQPEDTAVYYCAAGRGQRLGYSRRQNDYDF 72.0	https://doi.org/10. Llama https://doi.org/10. Llama	QVKLQA(AASGRTLVI WFRQAPG SAVRSTGSD YYANSVKGRFTI AAGRGQR WGQG BoNT E7m DVQLVES AASGRTLVI WFRQAPG SAVRSTGSD YYANSVKGRFTI AAGRGQR WGQG BoNT E7m2
E7m3	EVQLVESGGGLVQAGDSLRLSCAASGRTLVIYAIAWFRQAPGKEREFVSAVRSTGSDTYYANSVKGRFTISRDNAKNMVYLQMNSLKPEDTAVYYCAAGRGQRLGYSRRQNDYDF 80.0	https://doi.org/10. Llama	EVQLVES AASGRTLVI WFRQAPG SAVRSTGSD YYANSVKGRFT AAGRGQR WGQG BoNT E7m3
F5	QVKLQASGGGLVQAGGSLRLSCAASGGAFSSYSMAWVRQVPGKEREFVAAISTGGAVTKYADSVKGRFTISRDNPKNTVSLQMNSLKTEDTAVYYCAGRRGTGRRWNDGYNYV 57.0	https://doi.org/10. Llama	QVKLQA: AASGGAFS WVRQVPG AAISTGGAVT KYADSVKGRFT AGRRGTG WGQG BONT F5
F8m	QVKLQASGGGLVQPGGSLRLSCAASGRSFTDYRMGWFRQAPGKEREFVAAVRSNGGLLHAGSVKGRFTVSRDNGKNMLFLQMTSLKPEDTGVYTCAVGSNWKGSSTSSGGYL 58.0 EVQLVESGGGLVQPGDSLRLSCAASGRSFTDYRMGWFRQAPGKEREFVAAVRSNGGLLHAGSVKGRFTVSRDNGKNMLFLQMTSLKPEDTGVYTCAVGSNWKGSSTSSGGYL 63.0	https://doi.org/10. Llama https://doi.org/10. Llama	QVKLQAS AASGRSFT WFRQAPG AAVRSNGGL LHAGSVKGRFT AVGSNWK WGQG BoNT F8 EVQLVES AASGRSFT WFRQAPG AAVRSNGGL LHAGSVKGRFT AVGSNWK WGQG BoNT F8m
F9	QVKLQESGGGSVQAGGSLRLSCAASGRAASNHAMGWFRQAPGKEREFVVLISWSGRSTYYADSVKGRFTISRDFAQNAVNLQMNSLKPEDTGVYYCAAVRQYGTSWYQFRED 69.0	https://doi.org/10. Llama	QVKLQES AASGRAAS WFRQAPG VLISWSGRST YYADSVKGRFTI AAVRQYG WGQG BoNT F9
G3m	QVKLQASGGGLVQAGGSLRLSCAASGRTTSSYAMGWFRQAPGKEREFVAAHSHAGPSTSYADSVKGRFTISRDNAENMVYLQMDSLKPEDTAVYYCTARATGVGVGSFAFSSPC 63.0	https://doi.org/10. Llama	QVKLQA: AASGRTTS: WFRQAPG AAHSHAGPS SYADSVKGRFTI TARATGVG WGQG BONT G3m
G20 A3	QVKLQASGGGLVQAGGSLRLSCVASGRTFSTYTMAWFRQAPGKEREFVAAILWSGEWIGNEGRFTISRDTATNTVSLEMNNLRPEDTAVYYCAATAQGALSSRSNSYDYWGQGT(68.0 EVQLVESGGGLVQAGDSLRLSCTASGRTFSRAVMGWFRQAPGKEREFVAAISAAPGTAYYAFYADSVRGRFSISADSAKNTVYLQMNSLKPEDTAVYYCAADLKMQVAAYMNQRS 86.0	https://doi.org/10. Llama https://doi.org/10. Llama	QVKLQA(VASGRTFS WFRQAPG AAILWS GEWIGNEGRFT AATAQGAL WGQG BoNT G20 EVQLVES TASGRTFS WFRQAPG AAISAAPGTA FYADSVRGRFS AADLKMQ WGQGTQVTVSS A3
A3+	EVQLVESGGGLVQAGDSLRLSCTASGRTFSRAVMGWFRQAPGKEREFVCAISAAPGTAYYAFYADSVRGRFSCSADSAKNTVYLQMNSLKPEDTAVYYCAADLKMQVAAYMNQR 87.0	https://doi.org/10. Llama	EVQLVES TASGRTFSF WFRQAPG CAISAAPGTA FYADSVRGRFS(AADLKMQ WGQGTQVTVSS A3+
A3+neg ACneg	EVQLVESGGGLVDAGDSLRLSCTASGRTFSDAVMGWFRQAPGKEREFVCAISAAPGTAYYAFYADSVRGRFSCSADSAKNTVYLQMNSLKPEDTAVYYCAADLKMQVAAYMNQR 85.0 DVQLVESGGGLVQPGGSLRLTCAASGLIFGSYAMGWFRQAPGKAREFVAAISWSGGDTYADSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYSCAAVGSKYYISKDAKDYGYWC 80.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLVES TASGRTFSI WFRQAPG CAISAAPGTA FYADSVRGRFS AADLKMQ WGQGTQVTVSS A3+neg DVQLVES AASGLIFGS WFRQAPG AAISWSGGD TYADSVKGRFTI AAVGSKY WGQGTQVTVSS ACneg
AC+	DVQLQASGGGLVQPGGSLRLTCAASGLIFGSYAMGWFRQAPGKAREFVAAISWSGGDTYADSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYSCAAVGSKYYISKDAKDYGYW 80.0 DVQLQASGGGLVQPGGSLRLTCAASGLIFGSYAMGWFRQAPGKAREFVCAISWSGGDTYADSVKGRFTCSRDNAKNTVYLQMNSLEPEDTAVYSCAAVGSKYYISKDAKDYGYV 76.0	https://doi.org/10. Llama	DVQLVES AASGLIFGS WFRQAPG AAISWSGGD TYADSVKGRFTI AAVGSKY WGQGTQVTVSS ACHEG DVQLQA' AASGLIFGS WFRQAPG CAISWSGGD TYADSVKGRFT(AAVGSKY WGQGTQVTVSS AC+
AC+neg	DVQLVESGGGLVQPGGSLRLTCAASGLIFGSYAMGWFRQAPGKAREFVCAISWSGGDTYADSVKGRFTCSRDNAKNTVYLQMNSLEPEDTAVYSCAAVGSKYYISKDAKDYGYW 82.0	https://doi.org/10. Llama	DVQLVES AASGLIFGS WFRQAPG CAISWSGGD TYADSVKGRFT(AAVGSKY) WGQGTQVTVSS AC+neg
A3D1 D1A3	EVQLVESGGGLVQAGDSLRLSCTASGREGTTTVGWFRQAPGKEREFVAAIRWTDSRTPHTDSRFSISADSAKNTVYLQMNSLKPEDTAVYYCAADTWNSVVTGTAADWGQGTQV 48.0 EVQLQASGGGLVQPGGSLRLACQYSGRTFSRAVMGWERQSPGKEREFVAAISAAPGTAYYAFYADSVRGRETTSSDNFKKTAYLQMNGLKPEDTALYYCTEDLKMQVAAYMNQR 68.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLVES TASGREGT WFRQAPG AAIRWTD SRTPHTDSRFS AADTWNS WGQG Ricin A3D1 EVQLQAS QYSGRTFS WERQSPG AAISAAPGTA FYADSVRGRET TEDLKMQ WSQG SEB D1A3
A3C8	EVQLVESGGGLVQAGDSLRLSCTASGRTLGDYGVAWFRQAPGKEREFVAVISRSTIITDYANSVKGRFSISADSAKNTVYLQMNSLKPEDTAVYYCAAIANPVYATSRNSDDYGHWG 70.0	https://doi.org/10. Llama	EVQLVES TASGRTLGI WFRQAPG AVISRSTIIT DYANSVKGRFS AAIANPVY WGQG Ricin A3C8
C8A3	EVQLQASGGGLVQGGDSLRLSCAASGRTFSRAVMGWFRQAPGKEREFVSAISAAPGTAYYAFYADSVRGRFTISRDNAKNAVYLQMNSLKPEDTAVYYCAVDLKMQVAAYMNQR 65.0	https://doi.org/10.	EVQLQAS AASGRTFS WFRQAPG SAISAAPGTA FYADSVRGRFTI AVDLKMQ WGQG SEB C8A3
AAD	EVQLVESGGGLVQAGDSLRLSCTASGRTFSRAVMGWFRQAPGKEREFVAAISAAPGTAYYAFYADSVRGRFSISADSAKNTVYLQMNSLKPEDTAVYYCAADTWNSVVTGTAADW 71.0 EVQLVESGGGLVQAGDSLRLSCTASGRTFSRAVMGWFRQAPGKEREFVAAIRWTDSRTPHTDSRFSISADSAKNTVYLQMNSLKPEDTAVYYCAADLKMQVAAYMNQRSVDYWC 66.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLVES TASGRTFSF WFRQAPG AAISAAPGTA' FYADSVRGRFS AADTWNS WGQG SEB AAD EVQLVES TASGRTFSF WFRQAPG AAIRWTD SRTPHTDSRFSI AADLKMQ WGQGTQVTVSS ADA
DAA	EVQLVESGGGLVQAGDSLRLSCTASGREGTTTVGWFRQAPGKEREFVAAISAAPGTAYYAFYADSVRGRFSISADSAKNTVYLQMNSLKPEDTAVYYCAADLKMQVAAYMNQRSVI 75.0	https://doi.org/10. Llama	EVQLVES TASGREGT WFRQAPG AAISAAPGTA FYADSVRGRFS AADLKMQ WGQG SEB DAA
DDA	EVQLQASGGGLVQPGGSLRLACQYSGREGTTTVGWERQSPGKEREFVAAIRWTDSRTPHTDSRETTSSDNFKKTAYLQMNGLKPEDTALYYCTEDLKMQVAAYMNQRSVDYWS 46.0	https://doi.org/10. Llama	EVQLQAS QYSGREGT WERQSPG AAIRWTD SRTPHTDSRET TEDLKMQ WSQGTQVTVSS DDA
DAD C2	EVQLQASGGGLVQPGGSLRLACQYSGREGTTTVGWERQSPGKEREFVAAISAAPGTAYYAFYADSVRGRETTSSDNFKKTAYLQMNGLKPEDTALYYCTEDTWNSVVTGTAADW\$ 65.0 QVKLEESGGGLVLPGGSLRLSCAASGSISSIYAMGWYRQAPGKQREVVAVITNGNSPNYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCNVEGVRYGDSWYDGDYWGC 71.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQAS QYSGREGT WERQSPG AAISAAPGTA FYADSVRGRET TEDTWNS WSQG SEB DAD QVKLEES AASGSISSI WYRQAPG AVITNGNSP NYADSVKGRFT NVEGVRY WGQG ĀŽÂ±-cobratc C2
C2neg	EVQLVESGGGLVLPGGSLRLSCAASGSISSIYAMGWYRQAPGKEREFVAVITNGNSPNYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCNVEGVRYGDSWYDGDYWGQ 73.0	https://doi.org/10. Llama	EVQLVES AASGSISSI WYRQAPG AVITNGNSP NYADSVKGRFT NVEGVRY(WGQG α-cobratc C2neg
C2neg+	EVQLVESGGGLVLPGGSLRLSCAASGSISSIYAMGWYRQAPGKEREFVCVITNGNSPNYADSVKGRFTCSRDNAKNTVYLQMNSLKPEDTAVYYCNVEGVRYGDSWYDGDYWG 86.0	https://doi.org/10. Llama	EVQLVES AASGSISSI WYRQAPG CVITNGNSP NYADSVKGRFT NVEGVRY(WGQG α-cobratc C2neg+
C20 C20neg	QVKLEESGGGLVQPGGSLRLSCVGSGSISSFNGMGWYRQVPGKQRELVAFISSGGRSKYTDSVKGRFTISGDNAKSTVYLQMINLKPEDTAVYYCNVGSVLSYVTGNYYEPSDYV 60.0 EVQLVESGGGLVQPGGSLRLSCVGSGSISSFNGMGWYRQAPGKEREFVAFISSGGRSKYTDSVKGRFTISGDNAKSTVYLQMINLKPEDTAVYYCNVGSVLSYVTGNYYEPSDYV 66.0	https://doi.org/10. Llama https://doi.org/10. Llama	QVKLEES VGSGSISSF WYRQVPG AFISSGGRS KYTDSVKGRFTI NVGSVLS) WGQG α-cobratc C20 EVQLVES VGSGSISSF WYRQAPG AFISSGGRS KYTDSVKGRFTI NVGSVLS) WGQG α-cobratc C20neg
C20neg+	EVQLVESGGGLVQPGGSLRLSCVGSGSISSFNGMGWYRQAPGKEREFVCFISSGGRSKYTDSVKGRFTCSGDNAKSTVYLQMINLKPEDTAVYYCNVGSVLSYVTGNYYEPSDY 75.0	https://doi.org/10. Llama	EVQLVES VGSGSISSF WYRQAPG CFISSGGRS KYTDSVKGRFT NVGSVLS) WGQG α-cobratc C20neg+
	DVQLQASGGGLVQGGDSLRLSCAASGRALSDYGVAWFRQAPGKEREFVSVIGRSTIITDYANSVKGRFTISRDNAKNAVYLDMNSLKPEDTAVYYCAVITNPYYATSRNSDDYGYW 65.0	https://doi.org/10. Llama	DVQLQA: AASGRALS WFRQAPG SVIGRSTIIT DYANSVKGRFT AVITNPYY, WGQG Ricin C2
C2		https://doi.org/10. Llama	EVQLQAS AASGRTLG WFRQAPG SVISRSTIIT DYANSVKGRFT AVIANPYY, WGQG Ricin C8
C2 C8 D12	EVQLQASGGGLVQGGDSLRLSCAASGRTLGDYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLDMNSLKPEDTAVYYCAVIANPYYATSRNSDDYGHW 58.0 EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAVISGCGIVTDYANSVKGRFTISRDVAKNVVHLQMNSLKPEDTAVYYCAALTNPVYAASRNSNDYGY 74.0	https://doi.org/10 Llama	EVQLQA; AVAGRPLSI WFRQASG AVISGCGIVT DYANSVKGRFT AALTNPVY WGQG Ricin D12
C8	EVQLQASGGGLVQGGDSLRLSCAASGRTLGDYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLDMNSLKPEDTAVYYCAVIANPYYATSRNSDDYGHW 58.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQAS AVAGRPLSI WFRQASG AVISGCGIVT DYANSVKGRFT AALTNPVY WGQG Ricin D12 EVQLQAS AASGRTLS WFRQAPG SVISRSTIIT DYANSVKGRFT AVITNPVY/ WGQG Ricin E9
C8 D12 E9 H3	EVQLQASGGGLVQGGDSLRLSCAASGRTLGDYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLDMNSLKPEDTAVYYCAVIANPYYATSRNSDDYGHW 58.0 EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAVISGCGIVTDYANSVKGRFTISRDVAKNVVHLQMNSLKPEDTAVYYCAALTNPVYAASRNSNDYGY 74.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSVYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYWC 55.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSDYGVAWFRQAPGKEREFVSVIGRSTIITDYANSVKGRITISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYWC 53.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQAS AASGRTLS WFRQAPG SVISRSTIIT DYANSVKGRFT AVITNPVY/ WGQG Ricin E9 EVQLQAS AASGRTLS WFRQAPG SVIGRSTIIT DYANSVKGRITI AVITNPVY/ WGQG Ricin H3
C8 D12 E9	EVQLQASGGGLVQGGDSLRLSCAASGRTLGDYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLDMNSLKPEDTAVYYCAVIANPYYATSRNSDDYGHW 58.0 EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAVISGCGIVTDYANSVKGRFTISRDVAKNVVHLQMNSLKPEDTAVYYCAALTNPVYAASRNSNDYGY 74.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSVYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYW(55.0	https://doi.org/10. Llama https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQAS AASGRTLS WFRQAPG SVISRSTIIT DYANSVKGRFT AVITNPVY/ WGQG Ricin E9
C8 D12 E9 H3 H1	EVQLQASGGGLVQGGDSLRLSCAASGRTLGDYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLDMNSLKPEDTAVYYCAVIANPYYATSRNSDDYGHW 58.0 EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAVISGCGIVTDYANSVKGRFTISRDVAKNVVHLQMNSLKPEDTAVYYCAALTNPVYAASRNSNDYGY 74.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSVYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYWC 55.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSDYGVAWFRQAPGKEREFVSVIGRSTIITDYANSVKGRITISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYWC 53.0 DVQLQASGGGLAQAGGSLRLSCAYSGDTVNDYAMAWFRQAPGKGREFVAAIRARGGGTEYLDSVKGRFTISRDNGENTAYLQMDNLQPDDTALYFCALAMGGYAYRAFERYSYF 65.0	https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQAS AASGRTLS WFRQAPG SVISRSTIIT DYANSVKGRFT AVITNPVY/ WGQG Ricin E9 EVQLQAS AASGRTLS WFRQAPG SVIGRSTIIT DYANSVKGRITI AVITNPVY/ WGQG Ricin H3 DVQLQAS AYSGDTVN WFRQAPG AAIRARGGG EYLDSVKGRFTI ALAMGGY RGQG Ricin H1
C8 D12 E9 H3 H1 F8 D1 F11	EVQLQASGGGLVQGGDSLRLSCAASGRTLGDYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLDMNSLKPEDTAVYYCAVIANPYYATSRNSDDYGHW 58.0 EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAVISGCGIVTDYANSVKGRFTISRDNAKNAVYLQMNSLKPEDTAVYYCAALTNPVYAASRNSNDYGY 74.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSVYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYW 55.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSDYGVAWFRQAPGKEREFVSVIGRSTIITDYANSVKGRITISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYW 53.0 DVQLQASGGGLAQAGGSLRLSCAYSGDTVNDYAMAWFRQAPGKGREFVAAIRARGGGTEYLDSVKGRFTISRDNAKNAVYLQMDNLQPDDTALYFCALAMGGYAYRAFERYSYF 65.0 DVQLQASGGGLAQAGGSLRLSCAYSGDTVNDYGMGWFRQVPGKGREFVAAIRASGGGTEYLDSVKGRFTISRDNRNTATLDMNDLRPDSTAVYYCALSMGGYAYRAFERYNYR 58.0 EVQLQASGGGLVQPGGSLRLACQYSGREGTTTVGWFRQSPGKEREFVAAIRWTDSRTPHTDSRFTTSSDNFKKTAYLDMNGLKPEDTALYYCTEDTWNSYYTGTAAGWSQGTQV 50.0	https://doi.org/10. Llama	EVQLQAS AASGRTLS WFRQAPG SVISRSTIIT DYANSVKGRFT AVITNPVY/ WGQG Ricin E9 EVQLQAS AASGRTLS WFRQAPG SVIGRSTIIT DYANSVKGRITI AVITNPVY/ WGQG Ricin H3 DVQLQAS AYSGDTVN WFRQAPG AAIRARGGG EYLDSVKGRFTI ALAMGGY RGQG Ricin H1 DVQLQAS AYSGDTVN WFRQVPG AAIRASGGG EYLDSVKGRFTI ALSMGGY RGQG Ricin F8 EVQLQAS QYSGREGT WFRQSPG AAIRWTD SRTPHTDSRFT TEDTWNS WSQG Ricin D1 EVQLQAS QYSGREGT WIRQSPG AAIRWTD SRTSHTDSRET TEDTWNS WSQG Ricin F11
C8 D12 E9 H3 H1 F8 D1	EVQLQASGGGLVQGGDSLRLSCAASGRTLGDYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLDMNSLKPEDTAVYYCAVIANPYYATSRNSDDYGHW 58.0 EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAVISGCGIVTDYANSVKGRFTISRDVAKNVVHLQMNSLKPEDTAVYYCAALTNPVYAASRNSNDYGY 74.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSVYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYW 55.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSDYGVAWFRQAPGKEREFVSVIGRSTIITDYANSVKGRITISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYW 53.0 DVQLQASGGGLAQAGGSLRLSCAYSGDTVNDYAMAWFRQAPGKGREFVAAIRARGGGTEYLDSVKGRFTISRDNGENTAYLQMDNLQPDDTALYFCALAMGGYAYRAFERYSYF 65.0 DVQLQASGGGLAQAGGSLRLSCAYSGDTVNDYGMGWFRQVPGKGREFVAAIRASGGGTEYLDSVKGRFTISRDNRNTATLDMNDLRPDSTAVYYCALSMGGYAYRAFERYNYR 58.0 EVQLQASGGGLVQPGGSLRLACQYSGREGTTTVGWFRQSPGKEREFVAAIRWTDSRTPHTDSRFTTSSDNFKKTAYLDMNGLKPEDTALYYCTEDTWNSYYTGTAADWSQGTQ 50.0	https://doi.org/10. Llama https://doi.org/10. Llama https://doi.org/10. Llama https://doi.org/10. Llama https://doi.org/10. Llama https://doi.org/10. Llama	EVQLQAS AASGRTLS WFRQAPG SVISRSTIIT DYANSVKGRFT AVITNPVY/ WGQG Ricin E9 EVQLQAS AASGRTLS WFRQAPG SVIGRSTIIT DYANSVKGRITI AVITNPVY/ WGQG Ricin H3 DVQLQAS AYSGDTVN WFRQAPG AAIRARGGG EYLDSVKGRFTI ALAMGGY RGQG Ricin H1 DVQLQAS AYSGDTVN WFRQVPG AAIRASGGG EYLDSVKGRFTI ALSMGGY RGQG Ricin F8 EVQLQAS QYSGREGT WFRQSPG AAIRWTD SRTPHTDSRFT TEDTWNS WSQG Ricin D1
C8 D12 E9 H3 H1 F8 D1 F11 D12f	EVQLQASGGGLVQGGDSLRLSCAASGRTLGDYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLDMNSLKPEDTAVYYCAVIANPYYATSRNSDDYGHW 58.0 EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAVISGCGIVTDYANSVKGRFTISRDVAKNVVHLQMNSLKPEDTAVYYCAALTNPVYAASRNSNDYGY 74.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSVYGVAWFRQAPGKEREFVSVISRSTIITDYANSVKGRFTISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYWC 55.0 EVQLQASGGGLVQGGDSLRLSCAASGRTLSDYGVAWFRQAPGKEREFVSVIGRSTIITDYANSVKGRITISRDNAKNAVYLQMNSLKPEDTAVYYCAVITNPVYATSRNSDDYGYWC 55.0 DVQLQASGGGLAQAGGSLRLSCAYSGDTVNDYAMAWFRQAPGKGREFVAAIRARGGGTEYLDSVKGRFTISRDNGENTAYLQMDNLQPDDTALYFCALAMGGYAYRAFERYSYF 65.0 DVQLQASGGGLAQAGGSLRLSCAYSGDTVNDYGMGWFRQVPGKGREFVAAIRASGGGTEYLDSVKGRFTISRDNRNTATLDMNDLRPDSTAVYYCALSMGGYAYRAFERYNYR 58.0 EVQLQASGGGLVQPGGSLRLACQYSGREGTTTVGWFRQSPGKEREFVAAIRWTDSRTPHTDSRFTTSSDNFKKTAYLDMNGLKPEDTALYYCTEDTWNSYYTGTAAGWSQGTQV 50.0 EVQLQASGGGLVQDGGSLRLACQYSGREGTTTVGWIRQSPGKEREFVAAIRWTDSRTSHTDSRETTSSDNFKKTAYLQMNGLKPEDTALYYCTEDTWNSYYTGTAAGWSQGTQV 50.0 EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAAIRWTDSRTSHTDSRETTSSDNFKKTAYLQMNGLKPEDTALYYCAALTNPVYAASRNSNDYGY 74.0	https://doi.org/10. Llama	EVQLQAS AASGRTLS WFRQAPG SVISRSTIIT DYANSVKGRFT AVITNPVY/ WGQG Ricin E9 EVQLQAS AASGRTLS WFRQAPG SVIGRSTIIT DYANSVKGRITI AVITNPVY/ WGQG Ricin H3 DVQLQAS AYSGDTVN WFRQAPG AAIRARGGG EYLDSVKGRFTI ALAMGGY RGQG Ricin H1 DVQLQAS AYSGDTVN WFRQVPG AAIRASGGG EYLDSVKGRFTI ALSMGGY RGQG Ricin F8 EVQLQAS QYSGREGT WFRQSPG AAIRWTD SRTPHTDSRFT TEDTWNS WSQG Ricin D1 EVQLQAS QYSGREGT WIRQSPG AAIRWTD SRTSHTDSRET TEDTWNS WSQG Ricin F11 EVQLQAS AVAGRPLSI WFRQASG AVISGSGIVT DYANSVKGRFT AALTNPVY WGQG Ricin D12f

D12fneg	EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVAVISGSGIVTDYADSVKGRFTISRDVAKNVVHLQMNSLKPEDTAVYYCAALTNPVYAASRNSDDYGY 77.0	https://doi.org/10. Llama
H1Wneg	DVQLQASGGGLAQDGGSLRLSCAYSGQTVNDYAMAWFRQAPGKEREFVAAIRARGGGTEYLDSVKGRFTISRDNGENTAYLQMDNLQPDDTALYFCALAMGGYAYRAFERYSVV 62.0	https://doi.org/10. Llama DVQLQA(AYSGQTVN WFRQAPG AAIRARGGG] EYLDSVKGRFTI ALAMGGY WGQG Ricin H1Wneg
C10neg	DVQLQASGGELVQDGDSLRLICAHSGREGTTTVGIFRQAPGKEREFVAALRMTDGRISYADSVKERFTISSDNWKNTVYLQMNGLKPEDSALYYCAEDSWYPVVTGTAAYWGQGT 65.0	https://doi.org/10. Llama DVQLQA: AHSGREGT IFRQAPGK AALRMTDGR SYADSVKERFTI AEDSWYP WGQG Ricin C10neg
D12fneg+	EVQLQASGGGLVQDGGSLRLSCAVAGRPLSDYGVGWFRQASGKEREFVCVISGSGIVTDYADSVKGRFTCSRDVAKNVVHLQMNSLKPEDTAVYYCAALTNPVYAASRNSDDYG 77.0	https://doi.org/10. Llama EVQLQAS AVAGRPLSI WFRQASG CVISGSGIVT DYADSVKGRFT AALTNPVY WGQG Ricin D12fneg+
H1W+	DVQLQASGGGLAQAGGSLRLSCAYSGQTVNDYAMAWFRQAPGKGREFVCAIRARGGGTEYLDSVKGRFTCSRDNGENTAYLQMDNLQPDDTALYFCALAMGGYAYRAFERYS\ 75.0	https://doi.org/10. Llama DVQLQA: AYSGQTVN WFRQAPG CAIRARGGG EYLDSVKGRFT ALAMGGY WGQG Ricin H1W+
H1Wneg+	DVQLQASGGGLAQDGGSLRLSCAYSGQTVNDYAMAWFRQAPGKEREFVCAIRARGGGTEYLDSVKGRFTCSRDNGENTAYLQMDNLQPDDTALYFCALAMGGYAYRAFERYSV 68.0	https://doi.org/10. Llama DVQLQA: AYSGQTVN WFRQAPG CAIRARGGG EYLDSVKGRFT ALAMGGY WGQG Ricin H1Wneg+
C10neg+	DVQLQASGGELVQDGDSLRLICAHSGREGTTTVGIFRQAPGKEREFVCALRMTDGRISYADSVKERFTCSSDNWKNTVYLQMNGLKPEDSALYYCAEDSWYPVVTGTAAYWGQG 78.0	https://doi.org/10. Llama DVQLQA: AHSGREGT IFRQAPGK CALRMTDGR SYADSVKERFT(AEDSWYP WGQG Ricin C10neg+
DC4	EVQLQASGGGLVQAGGSLRLSCAASERTFSHYFVGWFRQAPGKEREFVARITWSGSNYEYEDAVKDRFTLSSDNAKNTVYLHMNSLKPEDTAVYYCAAANTIWTPTIRDYNYWG(64.0	https://doi.org/10. Llama EVQLQA: AASERTFSI WFRQAPG ARITWSGSN EYEDAVKDRFTI AAANTIWT WGQG DENV-1 NS1 DC4
DH12	EVQLVESGGGSVQAGGSLRLSCAASERTFSYYFMGWFRQAPGKEREWVARIRWNGDGADYTDAVKDRFTISSDHAKNTVYLQMNSLKPEDTAVYYCAAANSIWKPTTRDYNYW 68.0	https://doi.org/10. Llama EVQLVES AASERTFS\ WFRQAPG ARIRWNGDG DYTDAVKDRFTI AAANSIWI WGQG DENV-1 NS1 DH12
DD5	EVQLQASGGGLVQAGGSLRLSCAASGRAFSSETMGWFRQAPGKEREFVAAIWRIGGSTYNTDYADSVKGRFAISADRAKNTVDLQMNTLKPEDTAVYYCAGKMRGRSYNLYDYE 65.0	https://doi.org/10. Llama EVQLQAS AASGRAFS WFRQAPG AAIWRIGGST DYADSVKGRFA AGKMRGF WGQG DENV-1 NS1 DD5
DD7	EVQLVQSGGGSVQAGGSLRLSCAHSSITVPDYTIGWFRRAPGKGGEEVSLISMHGGRSWYAGSVKGRFAISRDSVKNTVYLQMNNLKPEDTDIYYCGGTTFGLAAAPNEYDSWG 59.0	https://doi.org/10. Llama EVQLVQ\$ AHSSITVPD WFRRAPG SLISMHGGR\$ WYAGSVKGRFA GGTTFGLA WGQG DENV-1 NS1 DD7
DD6	EVQLQASGGGSVQAGGSLRLSCAHSSITVPDYTIGWYRRAPGKGGEEVSLISMHGGRTWYAGSVKGRFAISRDSVKNTVYLQMNNLKPEDTDIYYCGGTTFGLAAAPNEYDSWG 53.0	https://doi.org/10. Llama EVQLQAS AHSSITVPD WYRRAPG SLISMHGGR WYAGSVKGRFA GGTTFGL/ WGQG DENV-1 NS1 DD6
DB5	DVQLQASGGGLVQDGGSLRLSCAASGLGFRIHSMGWYRQAPGKARDLVAVITDSGQTNYAPSVKGRFTISRESAGNTVYLQMNSLKPDDTAVYYCAVTTWDPHSYWGQGTQVT 65.0	https://doi.org/10. Llama DVQLQA: AASGLGFR WYRQAPG AVITDSGQT NYAPSVKGRFT AVTTWDPI WGQG DENV-1 NS1 DB5
DH4	DVQLQASGGGVVQAGGSLRVSCAATGIAFASYAVAWYRQAPGKQREWVATVGGLGGTKYVDSVRGRFTISRDNAKNAVTLQMNSLKPEDTAVYYCAAVEWDDGHYYWDTWGQ(55.0	https://doi.org/10. Llama DVQLQA: AATGIAFAS WYRQAPG ATVGGLGGT KYVDSVRGRFT AAVEWDD WGQG DENV-1 NS1 DH4
DD1	EVQLQASGGGLVQAGGSLRVSCAATGIAFASYAVAWYRQAPGKQREWVATVGGLGGTKYVDSVKGRFTISRDNAKNAVTLQMNSLKPEDTAVYYCAAVEWDDGHYYWDTWGQC 61.0	https://doi.org/10. Llama EVQLQAS AATGIAFAS WYRQAPG ATVGGLGGT KYVDSVKGRFT AAVEWDD WGQG DENV-1 NS1 DD1
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RN05	QVQLVESGGGLVQAGGSLRLSCAASGYAYTYIYMGWFRQAPGKEREGVAAMDSGGGGTLYADSVKGRFTISRDKGKNTVYLQMDSLKPEDTATYYCAAGGYELRDRTYGQWGC 64.2	https://doi.org/10. Camel QVQLVES AASGYAYT WFRQAPG AAMDSGGG(LYADSVKGRFTI AAGGYELI WGQG RNase A RN05
AMD 9,00	QVQLVESGGGSVQAGGSLSLSCAASTYTDTVGWFRQAPGKEREGVAAIYRRTGYTYSADSVKGRFTLSQDNNKNTVYLQMNSLKPEDTGIYYCATGNSVRLASWEGYFYWGQG 64.1	https://doi.org/10. Camel QVQLVES AASTYTDT\ WFRQAPG AAIYRRTGYT YSADSVKGRFT ATGNSVRL WGQG amylase AMD 9,00
H14	QVQLQESGGGLVQAGGSLRLSCAASGRTGSTYDMGWFRQAPGKERESVAAINWDSARTYYASSVKGRFTISRDNAKKTVYLQMNSLKPEDTAVYTCGAGEGGTWDSWGQGTC 60.1	https://doi.org/10. Llama QVQLQE: AASGRTGS WFRQAPG AAINWDSAR YYASSVKGRFTI GAGEGGT WGQG α-chain o H14
CA05	QVQLVESGGGSVQAGGSLRLSCAASGYTVSTYCMGWFRQAPGKEREGVATILGGSTYYGDSVKGRFTISQDNAKNTVYLQMNSLKPEDTAIYYCAGSTVASTGWCSRLRPYDYF 66.7	https://doi.org/10. Camel QVQLVES AASGYTVS WFRQAPG ATILGGST YYGDSVKGRFT AGSTVAST RGQGT carbonic anhy CA05
A4.2	QVKLEESGGGLVQAGGSLRLSCAASGRTFNTLSMGWFRQAPGKEREFVAAVSRSGGSTYYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCAAAATKSNTTAYRLSFDYV 84.7	https://doi.org/10. Llama QVKLEES AASGRTFN WFRQAPG AAVSRSGGS YYADSVKGRFTI AAAATKSN WGQG C. difficile toxi A4.2
A5.1	QVKLEESGGGLVQAGGSLRLSCAASGRTFSMYRMGWFRQAPGKEREFVGVITRNGSSTYYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTALYYCAATSGSSYLDAAHVYDYW 73.1	https://doi.org/10. Llama QVKLEES AASGRTFSI WFRQAPG GVITRNGSST YYADSVKGRFTI AATSGSSY WGQG C. difficile toxi A5.1
A19.2	QVKLEESGGGLVQPGGSLRLSCAASGRTLSSYIVAWFRQAPGKEREFVAGISRRGGNSAYVESVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCAADGSVAGWGRRSVSVSSY 75.1	https://doi.org/10. Llama QVKLEES AASGRTLSS WFRQAPG AGISRRGGNS AYVESVKGRFTI AADGSVAC WGQG C. difficile toxi A19.2
A20.1	QVQLVESGGGLAQAGGSLRLSCAASGRTFSMDPMAWFRQPPGKEREFVAAGSSTGRTTYYADSVKGRFTISRDNAKNTVYLQMNSLKPEDTAVYYCAAAPYGANWYRDEYAYW 72.4	https://doi.org/10. Llama QVQLVES AASGRTFSI WFRQPPG AAGSSTGRT YYADSVKGRFTI AAAPYGAI WGQG C. difficile toxi A20.1
A24.1	QVQLVESGGGLVQAGGSLRLSCAASIRSFSNRNMGWFRQPPGKEREFVAGISWGGGSTRYADSVKGRFTISRDNAKKTVYLQMNSLKPEDTAVYYCAAEFGHNIATSSDEYDYW 74.6	https://doi.org/10. Llama QVQLVES AASIRSFSN WFRQPPG AGISWGGGS RYADSVKGRFTI AAEFGHNI WGQG C. difficile toxi A24.1
A26.8	QVKLEESGGGLVQAGGSLRLSCAASERTFSRYPVAWFRQAPGAEREFVAVISSTGTSTYYADSVKGRFTISRDNAKVTVYLQMNNLKREDTAVYFCAVNSQRTRLQDPNEYDYWG 77.2	https://doi.org/10. Llama
A4.2m	QVKLEESGGGLVQAGGSLRLSCAASGRTFNTLSMGWFRQAPGKEREFVCAVSRSGGSTYYADSVKGRFTCSRDNAKNTVYLQMNSLKPEDTAVYYCAAAATKSNTTAYRLSFDY 93.6	https://doi.org/10. Llama
A5.1m	QVKLEESGGGLVQAGGSLRLSCAASGRTFSMYRMGWFRQAPGKEREFVCVITRNGSSTYYADSVKGRFTCSRDNAKNTVYLQMNSLKPEDTALYYCAATSGSSYLDAAHVYDYV 84.7	https://doi.org/10. Llama
A19.2m	QVKLEESGGGLVQPGGSLRLSCAASGRTLSSYIVAWFRQAPGKEREFVCGISRRGGNSAYVESVKGRFTCSRDNAKNTVYLQMNSLKPEDTAVYYCAADGSVAGWGRRSVSVS 78.8	https://doi.org/10. Llama QVKLEES AASGRTLS: WFRQAPG CGISRRGGN: AYVESVKGRFT(AADGSVA(WGQG C. difficile toxi A19.2m
A20.1m	QVQLVESGGGLAQAGGSLRLSCAASGRTFSMDPMAWFRQPPGKEREFVCAGSSTGRTTYYADSVKGRFTCSRDNAKNTVYLQMNSLKPEDTAVYYCAAAPYGANWYRDEYAY 79.1	https://doi.org/10. Llama QVQLVE\$ AASGRTFSI WFRQPPG CAGSSTGRT YYADSVKGRFT(AAAPYGAI WGQG C. difficile toxi A20.1m
A24.1m	QVQLVESGGGLVQAGGSLRLSCAASIRSFSNRNMGWFRQPPGKEREFVCGISWGGGSTRYADSVKGRFTCSRDNAKKTVYLQMNSLKPEDTAVYYCAAEFGHNIATSSDEYDYV 80.1	https://doi.org/10. Llama QVQLVES AASIRSFSN WFRQPPG CGISWGGGS RYADSVKGRFT(AAEFGHNI WGQG C. difficile toxi A24.1m
A24.1111	QVKLEESGGGLVQAGGSLRLSCAASIRSFSNRNINIGWFRQPPGREREFVCGISWGGGSTRYADSVKGRFTCSRDNAKVTVYLQMNNLKREDTAVYFCAVNSQRTRLQDPNEYDYW 85.3	https://doi.org/10. Llama QVKLEES AASIRSFSI WFRQAPG CVISSTGTST YYADSVKGRFT AAEFGHNI WGQG C. difficile toxi A24.1111 https://doi.org/10. Llama QVKLEES AASERTFSF WFRQAPG CVISSTGTST YYADSVKGRFT AVNSQRTF WGQG C. difficile toxi A26.8m
Z18	QVQLVESGGGLVQAGGSLRLSCAASERTFSRYPVAWFRQAPGAEREFVCVISSTGTSTYYADSVKGRFTCSRDNAKVTVYLQMININLKREDTAVYFCAVNSQRTRLQDPNEYDYW 85.3 QVQLVESGGGLVQAGDSLRLSCAASGRTFSGYAMGWFRQAPGKEREFVARINWSGTLTYYADSVKGRFTGSRDNAKNTVYLQMNSLKPEDTAVYYCAQRGDSGSNYDPSGYSY 59.0	https://doi.org/10. Alpaca QVQLVE\$ AASGRTFS(WFRQAPG CVISSTGTST YYADSVKGRFT(AVNSQRTF WGQG C. difficile toxi A26.8ml
Z18 Z26	QVQLVESGGGLVQAGDSLRLSCAASGRTFSGYAMGWFRQAPGKEREFVARINWSGTLTYYADSVKGRFTGSRDNAKNTVYLQMNSLKPEDTAVYYCAQRGDSGSNYDPSGYSY 59.0 QLQLVESGGGLVQAGDSLRLSCAASGRTFSDYAMGWFRQAPGKELEFVARVIWSGLLTYYADSVKGRFTASRDNAKSTVYLQMNSLKPEDTAVYYCAQRGDSGSNFDPSGYRYV 65.0	https://doi.org/10. Alpaca QVQLVES AASGRTFSI WFRQAPG ARINWSGTLI YYADSVKGRFTI AQRGDSG WGQG human serum Z18 https://doi.org/10. Alpaca QLQLVES AASGRTFSI WFRQAPG ARVIWSGLLT YYADSVKGRFTI AQRGDSG WGQG human serum Z26
A3	EVQLVESGGGLVQAGDSLRLSCAASGRTFSDYAMGWFRQAPGKELEFVARVIWSGLLTYYADSVKGRFTASRDNAKSTVYLQMNSLKPEDTAVYYCAQRGDSGSNFDPSGYRYV 65.0 EVQLVESGGGLVQAGDSLRLSCTASGRTFSRAVMGWFRQAPGKEREFVAAISAAPGTAYYAFYADSVRGRFSISADSAKNTVYLQMNSLKPEDTAVYYCAADLKMQVAAYMNQRS 80.0	nttps://doi.org/10. Alpaca QLQLVES AASGRIFSI WFRQAPG ARVIWSGLLI YYADSVKGRFI/ AQRGDSG WGQG human serum Z26 10.1021/acsomega.9b00730 EVQLVES TASGRTFSI WFRQAPG AAISAAPGTA FYADSVRGRFSI AADLKMQ WGQG SEB A3
A3	EVQLVESGGGLVQAGDSLRLSCTASGRTFSRAVMGWFRQAPGKEREFVAAISAAPGTAYYAFYADSVRGRFSISADSAKNTVYLQMNSLKPEDTAVYYCAADLKMQVAAYMNQRS 79.0	
A3	EVQLVESGGGLVQAGDSLRLSCTASGRTFSRAVMGWFRQAPGKEREFVAAISAAPGTAYYAFYADSVRGRFSISADSAKNTVYLQMNSLKPEDTAVYYCAADLKMQVAAYMNQRC 77.0	10.1016/j.molimm.2018.11.01 EVQLVES TASGRTFSF WFRQAPG AAISAAPGTA FYADSVRGRFS AADLKMQ WGQG CHIKV A3
CC3	MAEVQLQASGGGSVQAGGSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVEGRFTISRDHAKNSVYLQMNYLKPEDSAVYYCRAFGPADYWGQGTQVT 60.0	10.1016/j.molimm.2018.11.01 EVQLQA(VTSQNLFE) WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD) WGQG CHIKV CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVEGRFTISRDHAKNSVYLQMNYLKPEDSAVYYCRAFGPADYWGQGTQVTV 70.0	10.1016/j.molimm.2018.11.01 EVQLVES VTSQNLFE' WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD' WGQG CHIKV CC3
CC3	MAEVQLVESGGGSVQAGGSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVEGRFTISRDHAKNSVYLQMNYLQPEDSAVYYCRAFGPADYWGQGTQVT\ 71.0	10.1016/j.molimm.2018.11.01 EVQLVES VTSQNLFE' WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD' WGQG CHIKV CC3
CC3	MAEVQLVESGGGSVQAGDSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVEGRFTISRDHAKNSVYLQMNYLQPEDSAVYYCRAFGPADYWGQGTQVT\ 67.0	10.1016/j.molimm.2018.11.01 EVQLVES VTSQNLFE' WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD' WGQG CHIKV CC3
CC3	MAEVQLVESGGGSVQAGDSLRLSCVTSQNLFEYYTMGWYRQVPGSQRELVALINNGGSTVAGSVEGRFTISRDHAKNSVYLQMNYLQPEDSAVYYCRAFGPADYWGQGTQVTV 75.0	10.1016/j.molimm.2018.11.01 EVQLVES VTSQNLFE' WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD' WGQG CHIKV CC3
CC3	MAEVKLQASGGGSVQAGGSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVEGRFTISRDHAKNSVYLQMNYLKPEDSAVYYCRAFGPADYWGQGTQVT 59.0	10.1016/j.molimm.2018.11.01 EVKLQAS VTSQNLFE' WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD' WGQG CHIKV CC3
CC3	MAQVKLQASGGGSVQAGGSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVEGRFTISRDHAKNSVYLQMNYLKPEDSAVYYCRAFGPADYWGQGTQVT 57.0	10.1016/j.molimm.2018.11.01 QVKLQA VTSQNLFE WYRQVPG ALINNGGS TVAGSVEGRFTI RAFGPAD WGQG CHIKV CC3
CC3	MAQVKLQASGGGSVQAGGSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVVGRFTISRDHAKNSVYLQMNYLKPEDSAVYYCRAFGPADYWGQGTQVT 56.0	10.1016/j.molimm.2018.11.01 QVKLQA VTSQNLFE WYRQVPG ALINNGGS TVAGSVVGRFTI RAFGPAD WGQG CHIKV CC3
CC3	MAQVKLQASGGGSVQAGGSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVKGRFTISRDHAKNSVYLQMNYLKPEDSAVYYCRAFGPADYWGQGTQVT 58.0	10.1016/j.molimm.2018.11.01 QVKLQA VTSQNLFE WYRQVPG ALINNGGS TVAGSVKGRFT RAFGPAD WGQG CHIKV CC3
CC3	MAQVKLQASGGGSVQAGGSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVKGRFTISRDHAKNSVYLQMNYLKREDSAVYYCRAFGPADYWGQGTQVT 53.0	10.1016/j.molimm.2018.11.01 QVKLQA(VTSQNLFE) WYRQVPG ALINNGGS TVAGSVKGRFT(RAFGPAD) WGQG CHIKV CC3
CC3	MAQVKLQASGGGSVQAGGSLRLSCVTSQNLFEYYTMGWYRQVPGSQRERVALINNGGSTVAGSVKGRFTISRDHAKNSVYLQMNYLKRADSAVYYCRAFGPADYWGQGTQVT 43.0	10.1016/j.molimm.2018.11.01 QVKLQA VTSQNLFE WYRQVPG ALINNGGS TVAGSVKGRFT RAFGPAD WGQG CHIKV CC3
SEB	DVQLQASGGGLVQPGGSLRLTCAASGLIFGSYAMGWFRQAPGKAREFVAAISWSGGDTYADSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYSCAAVGSKYYISKDAKDYGYW 75.0	10.1371/journal.pone.014939 DVQLQA AASGLIFGS WFRQAPG AAISWSGGD TYADSVKGRFTI AAVGSKY WGQG SEB SEB
SEB	EVQLQASGGGLVQAGGPLRLTCAVSGPTFGSYALGWFRQAPGKEREFVAAVSWSGGDTYADSVKGRFIISRDNAKNTVYLQMNNLEPEDTAVYSCARMQDRYYISKDAKDYGYW 65.3	10.3390/s140610846 EVQLQA AVSGPTFG WFRQAPG AAVSWSGGE TYADSVKGRFIIS ARMQDRY WGQG SEB SEB
SEB	DVQLQASGGGLVQAGGSLRLTCAASLHTFGSYAMGWERQAPGKEREFVAAISWSGGDTYSDSVKGRFTISRDNAKNTVYLQMNSLEPEDTAVYSCAAVEARYYISTDAKDYGYW 70.9	10.3390/s140610846 DVQLQA AASLHTFG WERQAPG AAISWSGGD TYSDSVKGRFT AAVEARYY WGQG SEB SEB
SEB	EVQLQASGGGLVRAGGTLRLTCDATTPTFGSYAMGWFRQAPGKEREFVSAISWSGGDTYADSVKGRFTISRDNTRNRVYLQMNDLEPDDTAIYTCARTTARYYISKDAKDYDYWG 65.5	10.3390/s140610846 EVQLQA DATTPTFG WFRQAPG SAISWSGGD TYADSVKGRFTI ARTTARYY WGQG SEB SEB
SEB	EVQLQASGGGLVQAGGSLRLTCAVSGPTFGSYALGWFRQAPGKEREFVAAVSWSGGDTYADTAKGRFIISRDNAKNTVYLQMNNLEPEDTAVYSCARMQDRYYISKDAKDYGYW 73.0	10.3390/s140610846 EVQLQA: AVSGPTFG: WFRQAPG AAVSWSGGE TYADTAKGRFIIS ARMQDRY WGQG SEB SEB
SEB	EVQLQASGGGLVQAGGSLRLTCAVSGPTFGSYALGWFRQAPGKEREFVAAVSWSGGDTYADSVKGRFIISRDNAKNTVYLQMNNLEPEDTAVYSCARMQDRYYISKDAKDYGYW 70.9	10.3390/s140610846 EVQLQA AVSGPTFG WFRQAPG AAVSWSGGE TYADSVKGRFIIS ARMQDRY WGQE SEB SEB
SEB	EVQLQASGGGLVLTGGSLRLSCAASGRNFSNYAMAWFRQAPGKEREFVGTISWYTNTNYANSVKGRFESISRDNAKNTVYLQMSSLKPEDTAVYYCAAAPAMYYNPYTRESEYG 60.0	10.3390/s140610846 EVQLQAS AASGRNFS WFRQAPG GTISWYTNT NYANSVKGRFE AAAPAMY WGQG SEB SEB
SEB	EVQLQASGGGLVQAGGSLRLSCAASGRDFSDYAMAWFRQAPGKEREFVGTISWYTNTNYADSVKGRFSISRDNAKNTVYLQMSSLKPEDTAVYYCAAAPARYYNPYKRESEYGY 65.1	10.3390/s140610846 EVQLQAS AASGRDFS WFRQAPG GTISWYTNT NYADSVKGRFS AAAPARYY WGQG SEB SEB
SEB	EVQLQASGGGLVQPGGSLRLSCAASGSAVSIGFMAWYRQAPGKQRELVARISSSGLPDYADTVKGRFTISRDNTRKTVSLQMNSLNPDDTAVYYCNARLYDGSSAWGQGTQVTV 66.9	10.3390/s140610846 EVQLQAS AASGSAVS WYRQAPG ARISSSGLP DYADTVKGRFTI NARLYDGS WGQG SEB SEB
SEB	DVQLQASGGGLVQPGGSLRLSCAASESAVRIGFMGWHRQAPGNQRERVAQISSTGLPTYADAVKGRFTISRDNTKNTVYLQMNSLNADDTAVYFCNARLYDGTSVWGQGTQVTV 60.4	10.3390/s140610846 DVQLQA: AASESAVRI WHRQAPC AQISSSGLP TYADAVKGRFTI NARLYDG WGQG SEB SEB
SEB	DVQLQASGGGLVEPGGSLRLSCAASGSAVSIGFMGWHRQAPGKQRERVAQISSTGIPNYADTVKGRFTISRDNTKNTMYLQMNSLNADDTAVYFCNARLYDGTSAWGQGTQVTV 56.2	10.3390/s140610846 DVQLQA: AASGSAVS WHRQAPC AQISSTGIP NYADTVKGRFT NARLYDG WGQG SEB SEB
SEB	DVQLQASGGGLVQVGGSLRLSCAASGSTFRIGYMGWYRQAPGKPRELVARISSGGTTDYLDFVKDRFTISRDNAKNTVYLQMSSLKPEDTAVYYCNVVNYRANEYWGQGTQVTV 58.5	10.3390/s140610846 DVQLQA AASGSTFR WYRQAPG ARISSGGTT DYLDFVKDRFTI NVVNYRAI WGQG SEB SEB
SEB	DVQLQASGGGLVQVGGSLRLSCAASGSTFRIGYMSWHRQAPGKSRELVARISSGGTTDYLDSVKDRFTISRDNTKNTVYLQMNSLEPEDTAVYYCNVVDYRANEYWGQGTQVAV 62.1	10.3390/s140610846 DVQLQA: AASGSTFR WHRQAPC ARISSGGTT DYLDSVKDRFTI NVVDYRAI WGQG SEB SEB
NbD1 _1_5	EVQLVESGGGSVQAGGSLRLSCAASGWTYSTATMGWYRQAPGKERELVSSIFSDENTYYKDSVKGRFTISRDAAKNTVYLQMNSLKPEDTAMYYCYIRPTTSLANWRWGQGTQV 70.5	10.1016/j.bbagen. Arabian ca EVQLVES AASGWTYS WYRQAPG SSIFSDENT YYKDSVKGRFT YIRPTTSL/ WGQGTQVTVSS NbD1 _1_5
NbD2_1_5	EVQLVESGGGSVQAGGSLRLSCAVSENTGRMGWFRQAPGKEREKVAIITRLGGYTSYAGPVKGRFTISQDNAKNTVYLLMNSLKPEDTAIYYCAADSRPIYSGTWRYWGQGTQVT 65.5	10.1016/j.bbagen. Arabian ca EVQLVES AVSENTGR WFRQAPG AllTRLGGYT SYAGPVKGRFT AADSRPIY WGQGTQVTVSS NbD2_1_5
NbD3	QVQLQESGGGSVQAGGSLRLSCTASEFTTKYMAWFRQAPGKERELVAVIYTITSGANYGDSVKGRFTIYRDNENNTVHLEMNNLKPEDTAMYICAASTYWGAALRETAYNSWGRC 58.0	10.1016/j.bbagen. Arabian ca QVQLQE: TASEFTTKY WFRQAPG AVIYTITSGA NYGDSVKGRFT AASTYWG WGRGTQVTVSS NbD3
NbD3_1_5	EVQLVESGGGSVQAGGSLRLSCTASEFTTKYMAWFRQAPGKERELVAVIYTITSGANYGDSVKGRFTIYRDNENNTVHLEMNNLKPEDTAMYICAASTYWGAALRETAYNSWGRG 62.0	10.1016/j.bbagen. Arabian ca EVQLVES TASEFTTKY WFRQAPG AVIYTITSGA NYGDSVKGRFT AASTYWG WGRGTQVTVSS NbD3_1_5
NbD4_1_5	EVQLVESGGGSVQSGGSLRLSCAASGDTFSKRIMAWFRGAPDKEREGLATIDPDGTMKSYADSARGRFTISRDNAKSAVYLQMNSLKPEDTAVYYCATKLTWYGAYQSWGQGTC 56.0	10.1016/j.bbagen. Arabian ca EVQLVES AASGDTFS WFRGAPD ATIDPDGTMK SYADSARGRFT ATKLTWYC WGQGTQVTVSS NbD4_1_5
NbD5	QVQLQESGGGSVQAGGSLRLSCAVSGYTYSSYSIGWFRQAPGKEREGVAAINSGGSTNYAGSVEGRGFISQDNAKNTVSLLMNSLKPEDTATYYCAVGAFFTLRPTLYNYWGQG 54.0	10.1016/j.bbagen. Arabian ca QVQLQE: AVSGYTYS: WFRQAPG AAINSGGST NYAGSVEGRGF AVGAFFTL WGQGTQVTVSS NbD5
NbD5_1_5	EVQLVESGGGSVQAGGSLRLSCAVSGYTYSSYSIGWFRQAPGKEREGVAAINSGGSTNYAGSVEGRGFISQDNAKNTVSLLMNSLKPEDTATYYCAVGAFFTLRPTLYNYWGQGT 54.0	10.1016/j.bbagen. Arabian ca EVQLVES AVSGYTYS: WFRQAPG AAINSGGST NYAGSVEGRGF AVGAFFTL WGQGTQVTVSS NbD5_1_5
NbD6_1_5	EVQLVESGGGSVQAGGSLRLFCEASGYTSSHYIMGWSRQAPGKECELVARITSAGITDYASSVKGRFTISRGDATNGMALQMNNLKPEDTAVYYCGVVVPTIGISRWCGYDYWGQ 67.0	10.1016/j.bbagen. Arabian ca EVQLVES EASGYTSS WSRQAPG ARITSAGIT DYASSVKGRFTI GVVVPTIG WGQGTQVTVSS NbD6_1_5
NbD7_1_5	EVQLVESGGGSVQAGGSLRLTCLASGDTTSVDYLGWFRQAPGKKREAVAGLYLEHSRSGLREFYEDDVEGRFTIFQHGARKMVHLQMTNLKPEDSATYYCAAKGESGYWSWRH 54.0	10.1016/j.bbagen. Arabian ca EVQLVES LASGDTTS\ WFRQAPG AGLYLEHSRS FYEDDVEGRFTI AAKGESG WGQGTQVTVSS NbD7_1_5
		10.1016/j.bbagen. Arabian ca EVQLVES AASGYTYG WFRQAPG ATIDRGGGRT LYTDSVKGRFTI AADDNWF WGQGTQVTVSS NbD8_1_5
NbD8_1_5	EVQLVESGGGSVQAGGSLRLSCAASGYTYGSNSMGWFRQAPGKEREGVATIDRGGGRTLYTDSVKGRFTISQDNAKNTVYLQMNSLKPEDTAMYYCAADDNWRGDGLDPSDFI 54.0	
	EVQLVESGGGSVQAGGSLRLSCAASGYTYGSNSMGWFRQAPGKEREGVATIDRGGGRTLYTDSVKGRFTISQDNAKNTVYLQMNSLKPEDTAMYYCAADDNWRGDGLDPSDFI 54.0 QVQLQESGGGLVQAGGSLRLSCVASGYLFSLRGMGWYRQAPGKQRELVSIISRYGPAKYADSVKGRFTISQDNAKNTLYLQMNSLRPEDTAVYFCAASRPNSDKLDYWGQGTQV 62.0	10.1016/j.bbagen. Arabian ca QVQLQE: VASGYLFSI WYRQAPG SIISRYGPA KYADSVKGRFT AASRPNSI WGQGTQVTVSS NbD9_NC
NbD9_NC		10.1016/j.bbagen. Arabian ca QVQLQE: VASGYLFSI WYRQAPG SIISRYGPA KYADSVKGRFT AASRPNSI WGQGTQVTVSS NbD9_NC 10.1016/j.bbagen. Arabian ca QVQLQE: AASRYTYRI WYRQAPG STISSNGNA KYRDSVKGRFT YMYNGDF WGQGTQVTVSS NbD10_NC
NbD9_NC	QVQLQESGGGLVQAGGSLRLSCVASGYLFSLRGMGWYRQAPGKQRELVSIISRYGPAKYADSVKGRFTISQDNAKNTLYLQMNSLRPEDTAVYFCAASRPNSDKLDYWGQGTQV 62.0	
NbD9_NC NbD10_NC NbD11	QVQLQESGGGLVQAGGSLRLSCVASGYLFSLRGMGWYRQAPGKQRELVSIISRYGPAKYADSVKGRFTISQDNAKNTLYLQMNSLRPEDTAVYFCAASRPNSDKLDYWGQGTQV 62.0 QVQLQESGGGLVQSGGSLTLSCAASRYTYRPRTMAWYRQAPGKQREFVSTISSNGNAKYRDSVKGRFTISQNNAKNTVYLQMNSLRPEDTAVYYCYMYNGDPFWGQGTQVTV5 55.5	10.1016/j.bbagen. Arabian ca QVQLQE AASRYTYRI WYRQAPG STISSNGNA KYRDSVKGRFT YMYNGDF WGQGTQVTVSS NbD10_NC
NbD9_NC NbD10_NC NbD11 NbD11_NC	QVQLQESGGGLVQAGGSLRLSCVASGYLFSLRGMGWYRQAPGKQRELVSIISRYGPAKYADSVKGRFTISQDNAKNTLYLQMNSLRPEDTAVYFCAASRPNSDKLDYWGQGTQV 62.0 QVQLQESGGGLVQSGGSLTLSCAASRYTYRPRTMAWYRQAPGKQREFVSTISSNGNAKYRDSVKGRFTISQNNAKNTVYLQMNSLRPEDTAVYYCYMYNGDPFWGQGTQVTV5 55.5 QVQLQESGGGSVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKEREFVAFIESDGRTSYADSVKGRFTISQDDAKNTVYLQMNSLKREDTSMYYCKTAAGAFCGTRSYGFWG 55.0	10.1016/j.bbagen. Arabian ca QVQLQE AASRYTYRI WYRQAPG STISSNGNA KYRDSVKGRFT YMYNGDF WGQGTQVTVSS NbD10_NC 10.1016/j.bbagen. Arabian ca QVQLQE DASTYTYG WFRQAPG AFIESDGRT SYADSVKGRFTI KTAAGAFC WGQGTQVTVSS NbD11
NbD9_NC NbD10_NC NbD11 NbD11_NC NbD12_NC	QVQLQESGGGLVQAGGSLRLSCVASGYLFSLRGMGWYRQAPGKQRELVSIISRYGPAKYADSVKGRFTISQDNAKNTLYLQMNSLRPEDTAVYFCAASRPNSDKLDYWGQGTQV 62.0 QVQLQESGGGLVQSGGSLTLSCAASRYTYRPRTMAWYRQAPGKQREFVSTISSNGNAKYRDSVKGRFTISQNNAKNTVYLQMNSLRPEDTAVYYCYMYNGDPFWGQGTQVTV5 55.5 QVQLQESGGGSVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKEREFVAFIESDGRTSYADSVKGRFTISQDDAKNTVYLQMNSLKREDTSMYYCKTAAGAFCGTRSYGFWG 55.0 QVQLQESGGGLVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKQREFVAFIESDGRASYADSVKGRFTISQDDAKNTVYLQMNSLRPEDTSVYYCKTAAGAFCGTRSYGFWG 52.0	10.1016/j.bbagen. Arabian ca QVQLQE AASRYTYRI WYRQAPG STISSNGNA KYRDSVKGRFT YMYNGDF WGQGTQVTVSS NbD10_NC 10.1016/j.bbagen. Arabian ca QVQLQE DASTYTYG WFRQAPG AFIESDGRT SYADSVKGRFTI KTAAGAFC WGQGTQVTVSS NbD11 10.1016/j.bbagen. Arabian ca QVQLQE DASTYTYG WFRQAPG AFIESDGRA SYADSVKGRFTI KTAAGAFC WGQGTQVTVSS NbD11_NC
NbD9_NC NbD10_NC NbD11 NbD11_NC NbD12_NC NbD1_NC	QVQLQESGGGLVQAGGSLRLSCVASGYLFSLRGMGWYRQAPGKQRELVSIISRYGPAKYADSVKGRFTISQDNAKNTLYLQMNSLRPEDTAVYFCAASRPNSDKLDYWGQGTQV 62.0 QVQLQESGGGLVQSGGSLTLSCAASRYTYRPRTMAWYRQAPGKQREFVSTISSNGNAKYRDSVKGRFTISQNNAKNTVYLQMNSLRPEDTAVYYCYMYNGDPFWGQGTQVTV5 55.5 QVQLQESGGGSVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKEREFVAFIESDGRTSYADSVKGRFTISQDDAKNTVYLQMNSLKREDTSMYYCKTAAGAFCGTRSYGFWG 55.0 QVQLQESGGGLVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKQREFVAFIESDGRASYADSVKGRFTISQDDAKNTVYLQMNSLRPEDTSVYYCKTAAGAFCGTRSYGFWG 52.0 QVQLQESGGGLVQAGGSLRLSCAASGITYSRSTMGWYRQVPGKQRELVSSIRWNGSALYADSVKGRFTISRDNAKNTAYLQMNSLRPEDTAVFYCKAEVVAGPYAGHDYWGQG 46.0	10.1016/j.bbagen. Arabian ca QVQLQE AASRYTYRI WYRQAPG STISSNGNA KYRDSVKGRFT YMYNGDF WGQGTQVTVSS NbD10_NC 10.1016/j.bbagen. Arabian ca QVQLQE DASTYTYG WFRQAPG AFIESDGRT SYADSVKGRFTI KTAAGAFC WGQGTQVTVSS NbD11 10.1016/j.bbagen. Arabian ca QVQLQE DASTYTYG WFRQAPG AFIESDGRA SYADSVKGRFTI KTAAGAFC WGQGTQVTVSS NbD11_NC 10.1016/j.bbagen. Arabian ca QVQLQE AASGITYSF WYRQVPG SSIRWNGSA LYADSVKGRFTI KAEVVAGF WGQGTQVTVSS NbD12_NC
NbD9_NC NbD10_NC NbD11 NbD11_NC NbD12_NC NbD1_NC	QVQLQESGGGLVQAGGSLRLSCVASGYLFSLRGMGWYRQAPGKQRELVSIISRYGPAKYADSVKGRFTISQDNAKNTLYLQMNSLRPEDTAVYFCAASRPNSDKLDYWGQGTQV 62.0 QVQLQESGGGLVQSGGSLTLSCAASRYTYRPRTMAWYRQAPGKQREFVSTISSNGNAKYRDSVKGRFTISQNNAKNTVYLQMNSLRPEDTAVYYCYMYNGDPFWGQGTQVTV5 55.5 QVQLQESGGGSVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKEREFVAFIESDGRTSYADSVKGRFTISQDDAKNTVYLQMNSLKREDTSMYYCKTAAGAFCGTRSYGFWG 55.0 QVQLQESGGGLVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKQREFVAFIESDGRASYADSVKGRFTISQDDAKNTVYLQMNSLRPEDTSVYYCKTAAGAFCGTRSYGFWG 52.0 QVQLQESGGGLVQAGGSLRLSCAASGITYSRSTMGWYRQVPGKQRELVSSIRWNGSALYADSVKGRFTISRDNAKNTAYLQMNSLRPEDTAVFYCKAEVVAGPYAGHDYWGQGT 46.0 QVQLQESGGGLVQAGGSLRLSCAASGWTYSTATMGWYRQAPGKQRELVSSIFSDENAYYKDSVKGRFTISRDAAKNTVYLQMNSLRPEDTAVYYCYIRPTTSLANWRWGQGTQ 52.0	10.1016/j.bbagen. Arabian ca QVQLQE AASRYTYRI WYRQAPG STISSNGNA KYRDSVKGRFT YMYNGDF WGQGTQVTVSS NbD10_NC 10.1016/j.bbagen. Arabian ca QVQLQE DASTYTYG WFRQAPG AFIESDGRT SYADSVKGRFT KTAAGAFC WGQGTQVTVSS NbD11 10.1016/j.bbagen. Arabian ca QVQLQE DASTYTYG WFRQAPG AFIESDGRA SYADSVKGRFT KTAAGAFC WGQGTQVTVSS NbD11_NC 10.1016/j.bbagen. Arabian ca QVQLQE AASGITYSF WYRQVPG SSIRWNGSA LYADSVKGRFTI KAEVVAGF WGQGTQVTVSS NbD12_NC 10.1016/j.bbagen. Arabian ca QVQLQE AASGWTYS WYRQAPG SSIFSDENA YYKDSVKGRFT YIRPTTSL/ WGQGTQVTVSS NbD1_NC
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NbD9_NC NbD10_NC NbD11 NbD11_NC NbD12_NC NbD1_NC NbD1_NC NbD4_NC NbPep46	QVQLQESGGGLVQAGGSLRLSCVASGYLFSLRGMGWYRQAPGKQRELVSIISRYGPAKYADSVKGRFTISQDNAKNTLYLQMNSLRPEDTAVYFCAASRPNSDKLDYWGQGTQV 62.0 QVQLQESGGGLVQASGSLTLSCAASRYTYRPRTMAWYRQAPGKQREFVSTISSNGNAKYRDSVKGRFTISQNNAKNTVYLQMNSLRPEDTAVYYCYMYNGDPFWGQGTQVTV5 55.5 QVQLQESGGGSVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKEREFVAFIESDGRTSYADSVKGRFTISQDDAKNTVYLQMNSLKREDTSMYYCKTAAGAFCGTRSYGFWG 55.0 QVQLQESGGGLVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKQREFVAFIESDGRASYADSVKGRFTISQDDAKNTVYLQMNSLRPEDTSVYYCKTAAGAFCGTRSYGFWG 52.0 QVQLQESGGGLVQAGGSLRLSCAASGITYSRSTMGWYRQVPGKQRELVSSIRWNGSALYADSVKGRFTISRDNAKNTAYLQMNSLRPEDTAVFYCKAEVVAGPYAGHDYWGQG 46.0 QVQLQESGGGLVQAGGSLRLSCAASGWTYSTATMGWYRQAPGKQRELVSSIFSDENAYYKDSVKGRFTISRDAAKNTVYLQMNSLRPEDTAVYYCYIRPTTSLANWRWGQGTQ 52.0 QVQLQESGGGLVQAGGSLRLSCAASGDTFSRKIMAWFRQAPDKQREGLATIDPDGTMASYADSARGRFTISRDNAKSAVYLQMNSLRPEDTAVYYCATKLTWYGAYQSWGQGT 53.0 QVQLQESGGGSVQAGGSLRLSCVASGFSVSTQCMGWVRQAPGKDAETVAVINSGGGNLYFDSVKGRFTISRDAKNTVYLQMNSLKPEDTAVYYCATKLTWYGAYQSWGQGT 75.3	10.1016/j.bbagen. Arabian ca QVQLQE: AASRYTYR WYRQAPG STISSNGNA KYRDSVKGRFT YMYNGDF WGQGTQVTVSS NbD10_NC 10.1016/j.bbagen. Arabian ca QVQLQE: DASTYTYG WFRQAPG AFIESDGRT SYADSVKGRFT KTAAGAFC WGQGTQVTVSS NbD11 10.1016/j.bbagen. Arabian ca QVQLQE: DASTYTYG WFRQAPG AFIESDGRA SYADSVKGRFTI KTAAGAFC WGQGTQVTVSS NbD11_NC 10.1016/j.bbagen. Arabian ca QVQLQE: AASGITYSF WYRQVPG SSIRWNGSA LYADSVKGRFTI KAEVVAGF WGQGTQVTVSS NbD12_NC 10.1016/j.bbagen. Arabian ca QVQLQE: AASGWTYS WYRQAPG SSIFSDENA YYKDSVKGRFTI KAEVVAGF WGQGTQVTVSS NbD1_NC 10.1016/j.bbagen. Arabian ca QVQLQE: AASGDTFS WFRQAPD ATIDPDGTMA SYADSARGRFT ATKLTWYC WGQGTQVTVSS NbD4_NC 10.1038/s41598-0 Dromedan QVQLQE: VASGFSVS WVRQAPG AVINSGGGN LYFDSVKGRFTI VADCVLSE IGQGTQVTVSS NbPep46
NbD9_NC NbD10_NC NbD11 NbD11_NC NbD12_NC NbD1_NC NbD4_NC NbD4_NC NbPep46 NbPep67	QVQLQESGGGLVQAGGSLRLSCVASGYLFSLRGMGWYRQAPGKQRELVSIISRYGPAKYADSVKGRFTISQDNAKNTLYLQMNSLRPEDTAVYFCAASRPNSDKLDYWGQGTQV 62.0 QVQLQESGGGLVQSGGSLTLSCAASRYTYRPRTMAWYRQAPGKQREFVSTISSNGNAKYRDSVKGRFTISQNNAKNTVYLQMNSLRPEDTAVYYCYMYNGDPFWGQGTQVTV 55.5 QVQLQESGGGSVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKEREFVAFIESDGRTSYADSVKGRFTISQDDAKNTVYLQMNSLKREDTSMYYCKTAAGAFCGTRSYGFWG 55.0 QVQLQESGGGLVQAGGSLKLSCDASTYTYGGKCMGWFRQAPGKQREFVAFIESDGRASYADSVKGRFTISQDDAKNTVYLQMNSLRPEDTSVYYCKTAAGAFCGTRSYGFWG 52.0 QVQLQESGGGLVQAGGSLKLSCAASGITYSRSTMGWYRQAPGKQRELVSSIRWNGSALYADSVKGRFTISRDNAKNTAYLQMNSLRPEDTAVFYCKAEVVAGPYAGHDYWGQGT 46.0 QVQLQESGGGLVQAGGSLRLSCAASGWTYSTATMGWYRQAPGKQRELVSSIFSDENAYYKDSVKGRFTISRDAAKNTVYLQMNSLRPEDTAVYYCYIRPTTSLANWRWGQGTQ 52.0 QVQLQESGGGLVQAGGSLRLSCAASGDTFSRKIMAWFRQAPDKQREGLATIDPDGTMASYADSARGRFTISRDNAKSAVYLQMNSLRPEDTAVYYCATKLTWYGAYQSWGQGT 53.0 QVQLQESGGGSVQAGGSLRLSCAASGDTFSRKIMAWFRQAPDKQREGLATIDPDGTMASYADSARGRFTISRDNAKSAVYLQMNSLKPEDTAVYYCATKLTWYGAYQSWGQGT 53.0 QVQLQESGGGSVQAGGSLRLSCAASGIIFSASTMGWYRQAPGKDAETVAVINSGGGNLYFDSVKGRFTISRDEAKNTVYLQMNSLKPEDTAIYYCVADCVLSEVVGGFKARFTFI 75.3 EVQLVESGGGLVQPGGSLRLSCAASGIIFSASTMGWYRQAPGKQRELVATITNAGSTNYADSMKGRFTISRDNAKNTVYLQMNSLKPEDTALYYCARGSVVYPRYGMDYWGKGTC 59.5	10.1016/j.bbagen. Arabian ca QVQLQE: AASRYTYRI WYRQAPG STISSNGNA KYRDSVKGRFT YMYNGDF WGQGTQVTVSS NbD10_NC 10.1016/j.bbagen. Arabian ca QVQLQE: DASTYTYG WFRQAPG AFIESDGRT SYADSVKGRFT KTAAGAFC WGQGTQVTVSS NbD11 10.1016/j.bbagen. Arabian ca QVQLQE: DASTYTYG WFRQAPG AFIESDGRA SYADSVKGRFTI KTAAGAFC WGQGTQVTVSS NbD11_NC 10.1016/j.bbagen. Arabian ca QVQLQE: AASGITYSF WYRQVPG SSIRWNGSA LYADSVKGRFTI KAEVVAGF WGQGTQVTVSS NbD12_NC 10.1016/j.bbagen. Arabian ca QVQLQE: AASGWTYS WYRQAPG SSIFSDENA YYKDSVKGRFTI KAEVVAGF WGQGTQVTVSS NbD1_NC 10.1016/j.bbagen. Arabian ca QVQLQE: AASGDTFS WFRQAPD ATIDPDGTMA SYADSARGRFT ATKLTWYC WGQGTQVTVSS NbD4_NC 10.1038/s41598-0 Dromedan QVQLQE: VASGFSVS' WVRQAPG AVINSGGGN LYFDSVKGRFTI VADCVLSE IGQGTQVTVSS NbPep46 10.1038/s41598-0 Llama EVQLVES AASGIIFSAK WYRQAPG ATITNAGST NYADSMKGRFT ARGSVVYF WGKGTQVTVSS NbPep67
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