

Supplementary table S4: B-cell epitopes analysis from full length proteins using BCPred and Antibody Epitope Prediction at IEDB and Lbtope.

FBCpres			Antibody Epitope Prediction at IEDB		Lbtope			BcePred	
Position	Epitope	Score	Position	Epitope	position	Epitope	SMV score	% probability	Epitope
>borr O51369			>borr O51369		>borr O51369			>borr O51369	
	577VANHAPHGGPIVLPV	1		<b>49DREKIGDTSWENGVA</b>	267	SKDSGTNSDTKASVA	0.75571822	75.19	FLKKDLVFLPEVNS
	317GIGPDGPNFAEHFPY	1		<b>228KDIDEKRFEGKRVIYK</b>	397	LARRSVPEWLRPVMP	0.7965397	76.55	GLTPGLVGGV
	520PKLFENEKESGKIA	1			402	VPEWLRPVMPIFVIP	0.84045408	78.02	PHFIGDVHFIGDVVKTSFISLLYIKGSVKTSFISLLYIKGS
	<b>265FKSKDSGTNSDTKAS</b>	1			222	<b>VILAVDKDIDEKRFE</b>	0.85823931	78.61	PPVNLIFLICMSK
	544EGAIPFAASDPGRVI	0.999			400	RSVPEWLRPVMPIFV	0.93261904	81.09	LRPVMPIFVIPLISTIIVGFFMLYFGVYIG
	169VTACPVGVAHTYIAA	0.999			398	ARRSVPEWLRPVMPI	0.97396942	82.47	KRVYKVSTVKA
	293SGVSPMIPVVASGGI	0.994			<b>264FKSKDSGTNSDTKAS</b>		0.98370803	82.79	FLFGVGLIPQVPEI
	<b>240VYKVSTVKAINNTEN</b>	0.982			262	APVFKSKDSGTNSDT	0.98457366	82.82	HGGPIVLPVIDN
	208ENALTEEEIKNASVV	0.974			399	RRSVPEWLRPVMPIF	0.99452187	83.15	LVIFLKSLKL
	<b>84GSGVKWSEENPPVNL</b>	0.94			401	SVPEWLRPVMPIFVI	10.591.122	85.30	
	<b>138TTDDIYIYIENVQRK</b>	0.927			266	KSKDSGTNSDTKASV	10.880.201	86.27	
	<b>48LDREKIGDTSWENGV</b>	0.872			263	PVFKSKDSGTNSDTK	11.619.124	88.73	
	185KIENEAKKQGYRIV	0.83			264	VFKSKDSGTNSDTKA	1.320.584	94.02	
	470MITVDMGGPFNKVAF	0.745							
	503AAIPVPPMAMGLATF	0.693							
>borr Q44767			>borr Q44767		>borr Q44767			>borr Q44767	
	<b>50SGASRPTDARGGTNP</b>	1			251	NEGALASLNGQPGQK	0.78718278	76.24	FGNVSVLELRVVKDL
	219LRVVKDLNTPNLWNA	1							DILQIPITFNVL
	<b>365AKSGDTNFBVETSNSG</b>	1							
	423NAKTITTSQQLQEL	1							
	238NGEQNSNFTLGFENE	0.997							
	<b>118FDVDSDRHLVNPANG</b>	0.995							
	202VVNKSLYDSFGNVSV	0.99							

20DVVGNNIANVNTIGF	0.988					
314TKAIIQDGYGMGYME	0.978					
339VGIYSNGIRRDLGKI	0.942					
170 <b>STKNVTFACNLDKRL</b>	0.864					
97SGNGFFILKEGKNLF	0.778					
135 <b>IQGWMARDLEGEKVI</b>	0.767					
72 <b>NVASIDTIHTQGAFAQ</b>	0.745					
>borr O51039		>borr O51039		>borr O51039		
2LKDLNTNQGLKPWRV	0.998				RVESVFYCVIVLIFIG	
117 <b>RYKVDSSVINDVNS</b>	0.993				ISIVLGFLVYPVYTFI	
90YYSVTVLMKQLPYYQ	0.881				FKVPKFLIVFIHFFLLFSFVYVYVSVTVLMKQLP	
328 <b>VIVDNVSWLKSFSVF</b>	0.825				FTSSLVVVFLLYFLLSEIHVF	
					AVFFIVITSLIQFYPNLNIVLYVFIYNT	
					LWGIVGLLISYPFTVIVKVIVDNVS	
					LDISPFLLLCFLFFWG	
					YLGIKILVSCLTGILVFIGLTLF	
					VLSRYKVDSSVI	
>borr P70859		>borr P70859		>borr P70859		
460SGPEGAYDYKNIDTT	1	193 <b>QISKSQAMKDNPNLDM</b>	48IPLYAPQLNRAKKQG	0.75811397	75.27	VYNPEDQSIRKRL
256 <b>EATNGPTRTRWNILW</b>	1	316 <b>HEAGRGMDKKNGRSF</b>	312 <b>VNEIHEAGRGMDKKN</b>	0.76250669	75.42	HEAGRGMDKKNGR
383 <b>TNSNEIVEIPYNAPD</b>	1		27HNLNATKPGYSRQR	0.76561938	75.52	LKLTDDRGRYDTNGN
339 <b>DDRGRYDTNGNGQFD</b>	0.998		145LERGKSFCEGIRNRF	0.7665948	75.55	
65GQGIVVQSIDRVKDE	0.997		36GYSRQRVTMKTEIPL	0.76997335	75.67	
426KAVKEQEDENITFKI	0.997		286 <b>LLNIRDEEIKNEINE</b>	0.77716031	75.91	
103SILEDVYNPEDQSI	0.996		146ERGKSFCEGIRNRFH	0.77805577	75.94	
564SEITKESQSILKDL	0.996		33TKPGYSRQRVTMKTE	0.78176253	76.06	
289 <b>IRDEEIKNEINELNN</b>	0.955		319 <b>GRGMDKKNGRSFFSQ</b>	0.79627793	76.54	
196 <b>KSQAMKDNPNLMDA</b>	0.906		356 <b>HIFKINSTNEIFPEE</b>	0.8127464	77.09	
404 <b>NRINNSNAQVTARIN</b>	0.871		324KKNGRSFFSQELKLT	0.83929955	77.98	
444EDSGSFLTKYTGILN	0.859		49PLYAPQLNRAKKQGQ	0.85041325	78.35	

497VADIHSDPSKIASG	0.855		287LNIRDEEIKNEINEL	0.8694203	78.98	
542KNLTLNDYFANTASN	0.769		288NIRDEEIKNEINELN	0.8694203	78.98	
357IFKINSTNEIFPEEK	0.703		47EIPLYAPQLNRAKKQ	0.87095135	79.03	
			357IFKINSTNEIFPEEK	0.88313794	79.44	
			143IILERGKSFCEGIRN	0.89209515	79.74	
			144IILERGKSFCEGIRNR	0.93064413	81.02	
			46TEIPLYAPQLNRAKK	0.96682875	82.23	
			35PGYSRQRVTMKTEIP	10.031.194	83.44	
			358FKINSTNEIFPEEKL	1.008.005	83.60	
			360INSTNEIFPEEKLG	10.428.914	84.76	
			359KINSTNEIFPEEKL	11.814.686	89.38	
>borr O50957	>borr O50957	>borr O50957	>borr O50957			>borr O50957
53NFEDKSGDLSTSDEK	1		129YSSLDYKKENIEKLG	0.78267788	76.09	TNPGENTQNFKEDKSGDLSTSD
182QNGVENLSQEEKSL	1					
28FSKIDPKANANTKPK	0.998					
218LKVYNQNTQDNEKIL	0.994					
237NKYYKDFDTLKPAFY	0.968					
80GKELEDQKKEENIQI	0.929					
101KFDFLSTFKVGPYDL	0.883					
166ISWGIQFQIEQNLEL	0.797					
>borr O51550	>borr O51550	>borr O51550	>borr O51550			>borr O51550
89ASYYNAPPNSSLMFL	1	267EKGINGFGEKMRSSI	49KPNLVFPPASLTKIV	0.75875887	75.29	KGLSVSSGND
227IYDYPYSDGIKTGYI	1	304EKVYNGTVDTVALFSK	44ILYSKKPNLVFPAS	0.76941125	75.65	FVEPSGYSSN
348SGDMPVGRAMIFLEN	0.999		50PNLVFPASLTKIVT	0.82123603	77.37	LVATAKKGER
319KEPFYIILTKDEFDK	0.993		103LEKQIVNFEEILKG	0.88370581	79.46	
47SKKPNLVFPPASLTK	0.985		102FLEKQIVNFEEILK	0.90243678	80.08	
155FNMHFVEPSGYSSN	0.958		48KKPNLVFPPASLTKI	0.92663241	80.89	
116KGLSVSSGNDSSIAI	0.793		45LYSKKPNLVFPASL	11.650.735	88.84	
			104EKQIVNFEEILKGL	11.653.939	88.85	
			46YSKKPNLVFPASLT	12.641.091	92.14	

			47SKKPNLVFPASLTK	13.064.743	93.55	
>borr O51310	>borr O51310	>borr O51310	>borr O51310			>borr O51310
87AKKEKREINEEELKK	1		139DLLARLIQGSQISLS	0.80002799	76.67	NSLEKQNEENNSKLE
4LEKQNEENNSKLERR	1		105DIKRKIENEVQIIDK	0.83344304	77.78	
169GSIAGFFGGLPDKII	0.996		94EINEEELKKLEDIKR	10.107.861	83.69	
308IATFVEYPWKVFIPA	0.951		91EKREINEEELKKLED	11.231.995	87.44	
290GLGISAPMTSWGELV	0.932		93REINEEELKKLEDIK	11.650.446	88.83	
244AAKTLGATNQRIILK	0.925		92KREINEEELKKLEDI	11.835.816	89.45	
114QIIDKKEVKIHKRVY	0.886					
71AGELWYNKEKKFIEK	0.881					
>borr O51272	>borr O51272	>borr O51272	>borr O51272			>borr O51272
709DEIFIDSVKEPDLVA	0.998	674LNPFXPRIQGGFLKE	196QVFDEKKNIIINDEEY	0.78742406	76.31	FYQYFQFLFFFMLSVISFLFV
411IAPIPGREAVGIEIP	0.998	736LEIVKTTRKASASYL	191DLKDSQVFDEKKNII	0.81774109	77.39	LTPLSNVFFVFNLLGQILLNVFSFLSFYLIVYPIVNW
683GGFLKEREVRLVEE	0.996	770DMGYVGPVNGSKPREV	194DSQVFDEKKNINDE	0.84299387	78.10	NYTVILFFTLIFLIKI
183KVYGDSVDDLKDSQV	0.996		219FLRNNKKPSNINLKD	0.86383619	78.92	YFIKIFLINFGIVLGNFFIFTLILEFVWVIYLNYPVFKDV
332KEIKNDVEDIEYDKE	0.995		195SQVFDEKKNINDEE	0.86987595	79.00	NIVFDLVNSPHLLI
539RWCLDEMERRYVLLD	0.993		222NNKKPSNINLDKTIF	0.92948087	80.110	PHLLTPVITDVK
372KGPVVTMYAVRPDKG	0.99		193KDSQVFDEKKNIIND	0.91568542	80.122	ERRYVLLDNLLVRDIS
260DENVDEIDESCEYKY	0.99		221RNNKKPSNINLDKTI	11.390.181	87.99	LMILPYLVIIIIDEF
456EISGENIVFDLVNSP	0.988		192LKDSQVFDEKKNIIN	0.92602261	80.997	RPSVDVITGVIK
772GYVGPVNGSKPREVL	0.979		220LRNNKKPSNINLDKT	0.93069215	81.02	REVYRLVEEV
725GPSDEPMFDEALEIV	0.969		190DDLKDSQVFDEKKNI	0.94564302	81.65	
59VYPIVNWYAYKKHIF	0.958		188SVDDLKDSQVFDEKK	0.994036	83.13	
221RNNKKPSNINLDKTI	0.939					
288KVKACEIRTKGIISQ	0.864					
>borr O51278	>borr O51278	>borr O51278	>borr O51278			>borr O51278
108SLDSRDYGFIKIDNI	0.831					KHQKYLWKT
						PEDHYLVIGE
>borr O51161	>borr O51161	>borr O51161	>borr O51161			>borr O51161
149YPRNTTSNITGFVG	1	150PFRNTTSNITGFVGT	641SQNGEILSMVQFPQY	0.75257424	75.09	AITLLTIYKYFTL

262KNLSSSLTYEPGSIN	1	360GEKVGVPFPGETKGL	970PKAETNYKNKTYLPN	0.76168274	75.39	QPKYIIVYRYPK
425SNDKGENIKEFDKEE	0.999	559KIKIPKAETNYKNKTY	830KISNDKGENIKEFDK	0.78425169	76.14	
32TLMAFNNSPDNTISL	0.999		456NDIAKRGTIYDRNGK	0.79127598	76.38	
572KTYLPNFINLSKREA	0.996		586ILGKDKTKQFLNEE	0.8166778	77.22	
342TEKVSNEYFYKLLD	0.992		832SNDKGENIKEFDKEE	0.8948739	79.83	
233NSQNGEILSMVQFPQ	0.988		968KIPKAETNYKNKTYL	0.91772398	80.59	
181GKDKTKQFLNEEPE	0.98		587LGKDKTKQFLNEEP	0.92653411	80.88	
307PSGEKITIKTLNPPY	0.975		704LDNGIYQKQFPSGEK	0.92825308	80.94	
1MTKRMLNNTYRIKTI	0.953		966KIKIPKAETNYKNKT	0.94129394	81.38	
54RGTIYDRNGKPIAFS	0.897		833NDKGENIKEFDKEEI	0.94861824	81.62	
609KQSISPNTKLEDITE	0.89		829KKISNDKGENIKEFD	0.97647493	82.55	
533PMAKEIIEFIEHQON	0.841		969IPKAETNYKNKTYLP	0.99935355	83.31	
112FLYIKRKIKREESDL	0.779		705DNGIYQKQFPSGEKI	10.253.923	84.18	
			967IKIPKAETNYKNKTY	12.909.797	93.03	
>borr G5IXI6		>borr G5IXI6	>borr G5IXI6			>borr G5IXI6
98SDISSTGKPDSTGS	1	208GAAAAGHDSEAASKAAG	22KSQVADKDDPTNKFY	0.75336818	75.11	LLTTFVFINCKSQV
297FAVKDGEKEKAEGAI	1		63FKSDPKKSDVKTYFT	0.75405887	75.14	KFYQSVIQLG
243AAEQDGKKPEEAKNP	1		58AEAFGFKSDPKKSDV	0.77197738	75.73	
340KVGDSVKAASKETPP	0.998		55GLVAEAFGFKSDPKK	0.77775182	75.93	
20NCKSQVADKDDPTNK	0.998		142SSGTAAIGEVVADAD	0.79532258	76.51	
81AKLEKTKTDLNSLPK	0.997		143SGTAAIGEVVADADA	0.8139826	77.13	
64KSDPKKSDVKTYFTT	0.994		243AAEQDGKKPEEAKNP	0.81668577	77.22	
			59EAFGFKSDPKKSDVK	0.81956304	77.32	
			94PKEKSDISSTGKPD	0.83773452	77.92	
			64KSDPKKSDVKTYFTT	0.8384193	77.95	
			26ADKDDPTNKFYQSVI	0.84652944	78.22	
			93LPKEKSDISSTGKP	0.84976243	78.33	
			23SQVADKDDPTNKFYQ	0.89586729	79.86	
			62GFKSDPKKSDVKTYF	0.90027838	80.01	
			66DPKKSDVKTYFTTVA	0.90277844	80.09	

60AFGFKSDPKKSDVKT	0.9050044	80.17
21CKSQVADKDDPTNKF	0.9444292	81.48
61FGFKSDPKKSDVKTY	0.97045228	82.35
19INCKSQVADKDDPTN	10.815.462	86.05
20NCKSQVADKDDPTNK	11.993.202	89.98
<b>20NCKSQVADKDDPTNK</b>	<b>11.993.202</b>	<b>89.98</b>

>borr|O50835

>borr|O50835

>borr|O50835

>borr|O50835

190YYLDEYDEEDEEEIR	1
174NSISYTDEIEEEDYD	1
54MNKKGKGIARKKGGK	1
35LFDKGNISILETSEES	1
138SGESGELEEEPIESNE	1
249LDNFAKAKAKEEAAK	1
108LKEQSETRKEKIQKQ	0.993
88KSNFLQKNVILEEES	0.985
19SCDLFIRYEMKEESP	0.975
70KVSRRKPYIHSKLRD	0.891
212YLEGVKYNVDSAIQT	0.786
287AANFVYINDTHAKRK	0.751

LGLLFGFISCDLFIRY  
LLNYIQVSVKT

>borr|O51549

>borr|O51549

>borr|O51549

>borr|O51549

443LAAANTTGATGGKMI	1
459PQNITIATTTAGLIG	0.999
112GFGNFLEGVAGYGTA	0.999
389ANGISIITGKFGPLF	0.992
421SNVLFGLQTQMAEN	0.972
337TTISYSIRGVPMLKQ	0.899
254YARFFGNKETTERQS	0.893
152NTSSTAYGSGVGPIT	0.891
57MLEGALMGIWPIATV	0.739
311TISIYPEANPLHFKW	0.713

114GNFLEGVAGYGTAVAI

259GNKETTERQSKNTIS	0.75509297	75.17
261KETTERQSKNTISLS	0.90013736	80.00

LVPIILIIIGLGII  
FQLILPTLTIPFVLVILTGGG  
KGLKGVFLLTLLSG  
ISQVFISKTL  
CSPYILIVTFIVLVSPLEN  
LSSFIIICIV  
TVSNVLEGLPQ

>borr O51754	>borr O51754	>borr O51754	>borr O51754
320 <b>IFIYKEDLKEDVKIG</b> 0.965	66QRLNRESKKINAINII	LHQGLGKKEAKEKAI 0.75912875 75.30	VYKYGLSFILL
174 <b>LDLGGGINNLFKTAT</b> 0.946		LVVNFFCKKNSKVCX 0.78938911 76.31	QIPTTLIVFIIVGQRL
430FLVVNFFCKKNSKVC 0.745		VVNFFCKKNSKVCXX 0.80326038 76.78	LMSGFVLIFFSM
		HQGLGKKEAKEKAIE 0.92356882 80.79	WGIDYVVGLTFF
			FLVFIYVFFGG
			QGFLMLVSSVILFSKML
			LDKSLLLPSN
			LKPQYIISFWILIGIL
			IKFSLPISTFIISFLIVLMHLIG
			IILFPDLSPNDKVVLNV
			LKVLNPFSCFMFFIGLLS
			VDSNLLLITSVLIKSIFIY
			NIFFILILIFSLFPP
			LEVSFPIIVFGLYLNPFVSK
			FLGLIFYLSILFFGL
			IWFFHPVFPSEFFVSIFTFLVVNFFCKK
>borr H7C7Q3	>borr H7C7Q3	>borr H7C7Q3	>borr H7C7Q3
126 <b>LGGKKEAKEKAIEMLK</b> 1	38 <b>IRAIVGESGSGKSVT</b>		HTTIHPVSNVNLVSVKR
236 <b>IVEEGTVEEIFNNPK</b> 1			ILKLLPELTV
21 <b>TTIHPVSNVNLVSVKR</b> 0.998			IQEILLIKNLS
89KIRGNKISMIFQDPM 0.915			ICDTSVVMYQG
73LFENQDLLKSEKEL 0.898			PYTIGLLKSILT
181 <b>ADEPTALDVTIQEQ</b> 0.847			
41 <b>IVGESGSGKSVTMA</b> 0.798			
220VVAEICDTSVVMYQG 0.783			
borr Q9S0D9	borr Q9S0D9	borr Q9S0D9	borr Q9S0D9
128 <b>LKKKKEERKKALQEA</b> 1	127 <b>SLKKKKEERKKALQE</b>	209EEELKNIGETVEGKK 0.77297511 75.77	
185 <b>KNMTSGNNTSDMTNE</b> 1		20CKNDVTSKDLEGAVK 0.78709615 76.24	
62ETKDLNLTDTKEIEK 1			

33VKDLESSEQNVKCKTE	1					
158GVTHGSQVQRQGGVG	0.995					
112LNGKLEDKLNELSE	0.953					
96ETYSGYEEKINKIKE	0.909					
17ISSCKNDVTSKDLEG	0.822					
>borr Q9S036		>borr Q9S036		>borr Q9S036		>borr Q9S036
74GDLVVRKEENGIDTG	1	161KINNGVGGDKTAEYA	36HTLYDEQSNGLK	0.76802173	75.60	MKMFIVCAVFI
36HTLYDEQSNGLK	1		25SYDEQSSGEINHTLY	0.78338859	76.11	
163NNGVGGDKTAEYAIP	1		37TLYDEQSNGLK	0.94031402	81.34	
20CKIHITSYDEQSSGEI	0.999					
58TVKIKNKDNNNSNWD	0.984					
128KYEQSSANGIQNKEI	0.981					
93GHSATFFSLKESEVN	0.935					
>borr O50889		>borr O50889		>borr O50889		>borr O50889
72NNQNLNESQNSKSS	1		168EILEKLDTEENRRRI	0.77847742	75.95	KYSHPLYLLDQ
104KDLEAQKKEKDTQIE	1		145KMTLKKIYSSLNIE	0.79154777	76.38	
56NLKKTNSHTNSNSA	0.998		147TLKKIYSSLNIEKE	0.82541645	77.51	
25CAPFGVNPKNLKNP	0.997		167KEILEKLDTEENRR	0.86798672	78.93	
205IQDTLQTLSEKAE	0.996		144TKMTLKKIYSSLNIE	0.92961065	80.99	
121SSDAQYDFLENFKLH	0.994		146MTLKKIYSSLNIEK	0.94810304	81.60	
165TLKEILEKLDTEEN	0.979					
>borr H7C7N5		>borr H7C7N5		>borr H7C7N5		>borr H7C7N5
81HSATFFSLEEEIEIN	1		115NDEESDKNVIKNIKEI	0.75842571	75.28	
61GDLVVRKEKDIETG	1					
149INNSAGGDKIAEYAI	0.998					
22IHITSYDEQSNGEVKV	0.997					
109SLYYGYNDEESDKNV	0.988					
126NKEIKTKIEKINDTE	0.961					
45TVKIKNKNNNSNNWAD	0.926					
>borr H7C7M3		>borr H7C7M3		>borr H7C7M3		>borr H7C7M3

131LAKKKGERKKALQEA	1	91LDSKKTSIETYSEYEE	157DTSTGKTQGDRSKNR	0.76260593	75.42	
28NLKNSEQNLESSEQN	1	190SYNSNGGSDNSNTDEL	118KGLEDKFKEEESLA	0.77320037	75.77	
68KLDEKDTKEIEKQIQ	1		158TSTGKTQGDRSKNRG	0.8894998	79.65	
190SYNSNGGSDNSNTDEL	1		115LKGGLEDKFKELEE	0.892702	79.76	
215KIEEELKGIEEDKKE	1		117KGLEDKFKEEESL	0.92622531	80.87	
150EEYKKQVDTSTGKTQ	0.999		116KGGLEDKFKEEES	10.826.641	86.09	
44KKTEQEIKKQVEGFL	0.998					
103EYEEKINKIKEKLG	0.992					
170NRGGVGVQAWQCANE	0.75					
>borr H7C7L6		>borr H7C7L6	>borr H7C7L6			>borr H7C7L6
106GEESKEDEEENEQAV	1	290KKYYAHENEPPLKEN	60FLEKILDPVKDKIAS	0.79674766	76.56	MKIFIICAVFVLISCKI
144KKETEDEDKKEIEK	1		61LEKILDPVKDKIASN	0.80441601	76.81	
174EEKRKKQEQQEKK	1		62EKILDPVKDKIASNG	0.7656647	75.52	
87QEEKVNNGEEENDK	1		63KILDPVKDKIASNGP	0.78276353	76.09	
254KTWGDLEDEEGEGLG	1		64ILDVPVKDKIASNGPI	0.81575207	77.19	
192QEQRKERRAKNKK	1		87QEEKVNNGEEENDK	0.76835132	75.61	
32KDATGKDATGKDATG	1		94NGEEENDKAVFLGEE	0.8448654	78.16	
237TGPVYDYFTDDNKA	1		95GEEENDKAVFLGEES	0.9948177	83.16	
128EEDKKVVNLEEKELE	1		96EEENDKAVFLGEESK	0.99212638	83.07	
295HENEPPLKENVDVSE	1		97EENDKAVFLGEESKE	1.017.961	83.93	
322EKVKEYLKDNSKFEE	1		98ENDKAVFLGEESKED	10.184.448	83.95	
66DPVKDKIASNGPIAD	0.967		99NDKAVFLGEESKEDE	0.96597235	82.20	
			100DKAVFLGEESKEDEE	0.75015229	75.01	
			118QAVNLEEKNAEEDKK	10.336.785	84.46	
			144KKETEDEDKKEIEK	0.75101772	75.03	
			145KETEDEDKKEIEKQ	0.84667633	78.22	
			146ETEDEDKKEIEKQK	0.79652256	76.55	
			147TEDEDKKEIEKQKQ	0.86577016	78.86	
			148EEDEDKKEIEKQKQE	0.76728392	75.58	
			289NKKYYAHENEPPLKE	0.84702128	78.23	

			324VKEYLKDNSKFEEIK	0.81312362	77.10	
			325KEYLKDNSKFEEIKG	0.81276643	77.09	
			326EYLKDNSKFEEIKGY	1.006.064	83.54	
			327YLKDNSKFEEIKGYI	0.83585083	77.86	
			328LKDNSKFEEIKGYIS	0.8517448	78.39	
			329KDNSKFEEIKGYISY	0.86483825	78.83	
			331NSKFEEIKGYISYSQ	0.8713334	79.04	
>borr Q07337	>borr Q07337	>borr Q07337	>borr Q07337			>borr Q07337
196KELTSPPVAESPCKP	1		109KQKLDGLKNEGLKEK	0.75040051	75.01	ILMTLFLFISCN
20NNSGKDGNTSANSAD	1		126AAKCCSETFTNKLKE	0.7508158	75.03	
84NNGLDTENNHNGSL	1		128KKCSETFTNKLKEKH	0.76492075	75.50	
137KLKEKHTDLGKEGVT	0.999		73AAKAIGKKIHQNNGL	0.77240396	75.75	
156KEAILKTNGTKTKGA	0.783		133TFTNKLKEKHTDLGK	0.78491299	76.16	
50TDSNAVLLAVKEVEA	0.741		131SETFTNKLKEKHTDL	0.80105519	76.70	
			132ETFTNKLKEKHTDLG	0.80349346	76.78	
			127AKCSETFTNKLKEK	0.82018352	77.34	
			162TNGTKTKGAEELGKL	0.82279167	77.43	
			69IDEIAAKAIGKKIHQ	0.83999406	78.00	
			70DEIAAKAIGKKIHQN	0.87997758	79.33	
			72IAAKAIGKKIHQNG	0.92473753	80.82	
			71EIAAKAIGKKIHQNN	0.96549353	82.18	
			167TKGAEELGKLFESVE	0.96685632	82.23	
			168KGAEELGKLFESVEV	0.99035508	83.01	
			104ISTLIKQKLDGLKNE	0.99963839	83.32	
			105STLIKQKLDGLKNEG	11.464.492	88.21	
>borr POCL66	>borr POCL66	>borr POCL66	>borr POCL66			>borr POCL66
212KTAAWNSGTSTLTIT	1	242TITVQQYDSNGTKLEG	104EDGKTLVSKKVTSKD	0.89092529	79.70	NSVSVDLPGEMKVLVSKEK
189KNISKSGEVSVELND	1		105DGKTLVSKKVTSKDK	0.88289108	79.43	EVLKGYVLEGTL
146EYTGIKSDGSGKAKE	1		106GKTLVSKKVTSKDKS	12.235.957	90.79	EKTTLVVKEGTV
120SSTEKFNEKGEVSE	1		107KTLVSKKVTSKDKSS	104.253	84.75	

18KQNVSSLDEKNSVSV	1		108TLVSKKVTSKDKSST	0.87055585	79.02	
40VLVSKEKNKDGKYDL	1		151KSDGSGKAKEVLKGY	0.84758459	78.25	
245VQQYDSNGTKLEGSA	0.999		156GKAKEVLKGYVLEGT	0.83084155	77.69	
65GTSKNNNGSGVLEGV	0.996		226TVNSKKTDLVFTKE	0.7650685	75.50	
			227VNSKKTDLVFTKEN	0.92821303	80.94	
			228NSKKTDLVFTKENT	0.87439684	79.15	
			229SKKTDLVFTKENTI	0.905088	80.17	
>borr O51585	>borr O51585	>borr O51585	>borr O51585			>borr O51585
98SVNKITHINPDIVTG	1		205FTTGQGFNLSILIN	0.79375533	76.46	NIFLFLILSFIYLPILIIYSF
26IYSFNSGDSGFIWQG	0.999					ISSLTSVVIGIIG
158IIDAADKDLGASEIQI	0.983					KLKTILLSVNKI
174FNIIYPEIAGSIATG	0.751					MLISHIFSTPYVVIILPKLYSLP
						ILFFTILSLLFIIN
>borr O51735	>borr O51735	>borr O51735	>borr O51735			>borr O51735
613LSAAWDTRNSTLSLN	1	248TVDIKDSLKDSKRLE	35INFEGLNKKERDFI	0.84434029	78.14	IRGLFFVVSFLIFFVVFSFGQV
435GFGMNFSGNSNSFFP	1	437GMNFGGNSNSFFPS	36NFEGLNKKERDFIN	0.84434029	78.14	LFITFIVKEKSLVNSVVFSDSS
523REVPDPFTSWEEYRD	0.999	612LSAAWDTRNSTLSLN	37FEGLNKKERDFINI	0.92362698	80.79	GPKYVVKGIDF
405SNVIPDIVPGNTEGL	0.998	658NILPPLGNGFEIEIQ	39GLNKKERDFINILK	10.441.345	84.80	LEKEVFLKYFLS
751ASYSLEGQENSLFRP	0.997		40LNKKERDFINILKP	0.91013272	80.34	EFVDLLIKILE
793PFYFDNDKVNYYKY	0.991		41KNKKERDFINILKPY	0.92097135	80.70	LQQLGYFSNVIPDIVP
557GAFTGYTFSNYLGKQ	0.984		42NKKERDFINILKPYI	0.87300201	79.10	PYFDIILTLRSVYSNLP
103SLVNSVVFSDSSRVF	0.98		45ERDFINILKPYIGVS	0.81234364	77.08	FVNTVQISIPLLKNILVW
687LPLGNGFEIEIQPH	0.971		46RDFINILKPYIGVSY	0.97178325	82.39	IRSLLPQLPLSFVI
323YFREGYIFTEIIPSQ	0.964		47DFINILKPYIGVSY	0.90445043	80.15	
586YDNEVNRPSNYLRD	0.961		48FINILKPYIGVSYSN	0.86311634	78.77	
172DIIFNIVAGPKYVVK	0.95		49INILKPYIGVSYSN	10.087.443	83.62	
129KTNEPLNLASVNKGI	0.936		50NILKPYIGVSYSN	10.181.152	83.94	
480SLSLTFRDNWFQKR	0.926		51ILKPYIGVSYSN	0.86486221	78.83	
504SHSVNTAYQDINGPI	0.908		52LKPYIGVSYSN	0.79122717	76.37	
33KGINFEGLNKKERD	0.871		53KPYIGVSYSN	0.79506057	76.50	

250 <b>DIKDSLKDSKRLEKE</b>	0.87		54 <b>PYIGVSY SNEIFDKL</b>	0.81263473	77.09	
230 <b>LESFYKNNGYIDVKI</b>	0.812		127 <b>NIKTNEPLNLASV NK</b>	0.76656463	75.55	
146 <b>LEEMYKDMGYLEVSA</b>	0.796		212 <b>LFSDGKYLKSNVDKD</b>	0.79651468	76.55	
283 <b>EISGNSVFSLEELKS</b>	0.768		216 <b>GKYLKSNVDKDKRQL</b>	0.79341435	76.45	
389 <b>DKFKMGMANLQQLGY</b>	0.768		240 <b>IDVKIINSTVDIKDS</b>	11.002.874	86.68	
539 <b>KSFSDFNAMNYSLLK</b>	0.727		334 <b>IPSQKIRGEFVDLLI</b>	0.79587598	76.53	
			515 <b>NGPIFSGKREVPDPF</b>	0.87383936	79.13	
			516 <b>GPIFSGKREVPDPFT</b>	0.85011654	78.34	
			522 <b>KREVPDPFTSWEEYR</b>	0.77470891	75.82	
>borr O51695	>borr O51695	>borr O51695	>borr O51695	>borr O51695	>borr O51695	>borr O51695
25 <b>EEGEVLGILGPNGAG</b>	0.995	152 <b>VILDEPTNGLDPNQII</b>	24 <b>VEEGEVLGILGPNGA</b>	0.80683807	76.89	STLIKILTSFHY
230 <b>VSKKSENEKKIFNSK</b>	0.985		32 <b>ILGPNGAGKSTLIKI</b>	0.8333108	77.78	LYPELSVKEYL
153 <b>ILDEPTNGLDPNQII</b>	0.981		33 <b>LGPNAGKSTLIKIL</b>	0.8333108	77.78	ILFSSHILSEVESICKRIIVNNGVIV
249 <b>SLIKLEEHEKDLNIS</b>	0.788					IEIELIVSKKS
64 <b>DIVEHSKEILQQIGY</b>	0.757					
7 <b>VTKMYGPFTALFNVS</b>	0.708					