

A

	1	2	3	4	5	6	7	8
CTEFE_1575479	MKSLLLFFFTLCVLVQIVVAD----	RRVSKTQSGGKI-QSEEQVVIKSQGIH----	LENYSDGRN----	NNNPCHLFQWREGRSNGGG----	CGNGGR----	TRPDSKHVYAPYSG-----		
cluster-169	MKYIYAVLLTFLLCQLSLAD----	RMVSLTKTGGQ-QGDNQVAIPSGTHI----	LQGVCK-----	NHNDQMFQWTEGRSNGGG----	CGNGGT----	SRPNRDDYVAPYSG-----		
XC-78	MKWFLLLALVCAAEFCSC-----	WKASQCKFKTGT--DTPNIEVGNGLAK----	VPGVCTGAGDKDTKNKNCLEHCKEKCATNGS----	CGTSST----	AKPNQVQVYKQPDPK-----			
XC-7-90-90-50-CLU	MKWILVLALVCAAEYSYS-----	WKVSEKCLKHG--FKQADQIEVGNGLAT----	AKGCKGTDSDQKQKAGCKDKHCTGVCLGSGGS----	CGDGSS----	QKPNKEDYCKSK-----			
XC-58	MKCIFLVLICLTAVQFSYS-----	WKVSEKCLKHGD--NTDKTIDIADSAE----	IENLCELSQRVQRENKQNEYCKTSDANHGVL----	CGSTDGF--	PQEPQHVYAESDF-----			
XC-80	MSKSLVFLFLCAFLVNA-----	KRNSDKCKAGATG-GTPTE-----	ENDTLR--LPGFCTGDK-----	GSPQCKQHCKEKGDFDGL----	CSYGTS----	ADKNTCFCTNNPTTIK-----		
XC-7-90-90-51	MKFILLLAIAFVAFAVVA-----	AGSKDSCKA--RA-GVRLT--SQGLSQ----	VPNICTPNE----	NDDKCNHFCKNEGCAKKGT----	CSGQTT----	AQPNLCFCIYN-----		
XC-44	MKCLTILLIICLTFAAVFAVSG----	NRNSAEKMNKP--KPNVLVIDDENA----	VPDICTSND-----	TGDEACNKHONTKCGSDFGF----	CNEASE----	DKKVYVCFN-----		
cluster-145	MKLFVAVLLFCLVNQIYCRRSRSTVEVTKK	CSGGKDTSMKEVEVSQSFYPTLELPDYTHRR--	LDDDKCKFKFCHNCPFFKR--GV	GVWGD----	SQAGNCFCHT-----			
cluster-133	MKFLFGIFVIFAILCIKLIS-----	ARDNNCKQR-----	PGIIV--VPGCKDK--	NDVECKQCKQHCGGYNQKTVR--	CGGTYS----	PSTLCGPG-----		
XC-7-90-90-48	MKFAFAIFVVLAILHTELIS-----	ATEYKCKVT-----	CTGDMT--IPFGCKDG--	NDVQCKKLCKECK--YTTTRQS	GVG-----	KKVCG-----		
XC-7-90-90-49	MKFLTIIFVAITIIIS-CFLG----	AMGDTCTQI-----	SCTVQ--FKDECKTKL--	YGDECKSACNTDCKGNGY----	CGNGDS----	KTPDEDTCVFN-----		
XC-54	MKVLYILFVIFLLQIVFSA-----	TVKKECKQD-----	SAGDYY--VPOCKDSK--	DRNK--CKRLCKEVCBSKVLDLSIGDKLL--	EVDKDDY--	IDLTFPGEETDVK-----		
XC-63	MKLVFVILVVFVLLQIVFAD-----	KQECCKD-----	NIGDYY--IPKCKDNK--	DNDK--CTKLCKEVLCKSEVKEPMGACG	GSNVHYENG--	NINPDCTFDLQVLGTSK-----		
XC-92	MKFLFVLSLIFVL-QIVFAD-----	EELQCTED-----	GAGSY--IPKCKP-KM--	DQNE--CKLCKDLCKASKVKNPKGY	CGNVMR--	NVDADSYCT-----		
cluster-119	MRLLFAYTLILALLQITFAA----	TANLCKCKD-----	NVGDF--IPNGCKDDP--	TGSN--CKNLCKSLC--	TKVKNPFGICG-VKEI--	KVPDKHVCIEIGD-----		

B

