

logo

NTDB id 105 BSU 25590 NP 390437.1	.....	0
NTDB id 1014 ACIAD RS13855 WP 004924483.1	.....	0
NTDB id 1127 NGFG RS10560 WP 003703428.1	.....	0
NTDB id 1126 NGFG RS09375 WP 003703428.1	.....	0
NTDB id 1125 NGFG RS07215 WP 003703428.1	.....	0
NTDB id 1108 NGFG RS06525 WP 003703428.1	.....	0
NTDB id 1242 Cj0011c YP 002343483.1	.....	0
NTDB id 1034 TT RS08100 WP 024119555.1	.....	0
NTDB id 1272 LPP RS04360 WP 010946546.1	.....	0
NTDB id 1249 GCO85 RS04230 WP 010946546.1	.....	0
NTDB id 1416 SGL RS14595 WP 010873643.1	NFEQIILEQIDQAQSTIDLAVQELRLPRIAQALVEKQKTGVRVRLVLENTYNQTIKEAVETEKDPFRYRGPLAYLDQNQD	160
NTDB id 613 LCA RS05340 WP 231952379.1	.....	0
NTDB id 595 KW2 RS08725 WP 021037687.1	.....	0
NTDB id 1041 HON27 RS14740 WP 005124713.1	.....	0
NTDB id 1069 ABD1 RS03060 WP 043960841.1	.....	0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	.....	0
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....	0
NTDB id 1294 VP RS04495 WP 021449594.1	.....	0
NTDB id 1395 DSB67 RS04445 WP 010649155.1	.....	0
NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....	0
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....	0
NTDB id 263 KZH43 RS04195 WP 000387330.1	.....	0
NTDB id 222 SPD RS04535 WP 000387330.1	.....	0
NTDB id 188 SPR RS04295 WP 000387330.1	.....	0
NTDB id 153 SP RS04730 WP 000387344.1	.....	0
NTDB id 41963 CVAR RS17835 WP 234946380.1	.....	0
NTDB id 1382 A4U84 RS07375 WP 062924234.1	.....	0
NTDB id 1362 HI 1008 AAC22669.1	.....	0

consensus

logo

NTDB id 105 BSU 25590 NP 390437.1	.....	0
NTDB id 1014 ACIAD RS13855 WP 004924483.1	.....	0
NTDB id 1127 NGFG RS10560 WP 003703428.1	.....	0
NTDB id 1126 NGFG RS09375 WP 003703428.1	.....	0
NTDB id 1125 NGFG RS07215 WP 003703428.1	.....	0
NTDB id 1108 NGFG RS06525 WP 003703428.1	.....	0
NTDB id 1242 Cj0011c YP 002343483.1	.....	0
NTDB id 1034 TT RS08100 WP 024119555.1	.....	0
NTDB id 1272 LPP RS04360 WP 010946546.1	.....	0
NTDB id 1249 GCO85 RS04230 WP 010946546.1	.....	0
NTDB id 1416 SGL RS14595 WP 010873643.1	GRISPAESAERDAIEILRTQKIPLIDDTEDGSKGSGLMHHKFMVLDNKTIVIVTSANFTPSDQHGDYDDNFTRGNANLLV	240
NTDB id 613 LCA RS05340 WP 231952379.1	.....	0
NTDB id 595 KW2 RS08725 WP 021037687.1	.....	0
NTDB id 1041 HON27 RS14740 WP 005124713.1	.....	0
NTDB id 1069 ABD1 RS03060 WP 043960841.1	.....	0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	.....	0
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....	0
NTDB id 1294 VP RS04495 WP 021449594.1	.....	0
NTDB id 1395 DSB67 RS04445 WP 010649155.1	.....	0
NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....	0
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....	0
NTDB id 263 KZH43 RS04195 WP 000387330.1	.....	0
NTDB id 222 SPD RS04535 WP 000387330.1	.....	0
NTDB id 188 SPR RS04295 WP 000387330.1	.....	0
NTDB id 153 SP RS04730 WP 000387344.1	.....	0
NTDB id 41963 CVAR RS17835 WP 234946380.1	.....	0
NTDB id 1382 A4U84 RS07375 WP 062924234.1	.....	0
NTDB id 1362 HI 1008 AAC22669.1	.....	0
consensus		

logo

ME

ME

NTDB id 105 BSU 25590 NP 390437.1	.....	MNWLNQHKKA	10	
NTDB id 1014 ACIAD RS13855 WP 004924483.1	.....		0	
NTDB id 1127 NGFG RS10560 WP 003703428.1	.....		0	
NTDB id 1126 NGFG RS09375 WP 003703428.1	.....		0	
NTDB id 1125 NGFG RS07215 WP 003703428.1	.....		0	
NTDB id 1108 NGFG RS06525 WP 003703428.1	.....		0	
NTDB id 1242 Cj0011c YP 002343483.1	.....		0	
NTDB id 1034 TT RS08100 WP 024119555.1	.....		0	
NTDB id 1272 LPP RS04360 WP 010946546.1	.....		0	
NTDB id 1249 GCO85 RS04230 WP 010946546.1	.....		0	
NTDB id 1416 SGL RS14595 WP 010873643.1	VQSPAVAHLFTEEFNLLWGDGPGA EKDSLFGINKPSRPAKVLKVGETT VTKFSPDRRAIPFPNTSNGLIAQYLNQAQQK		320	
NTDB id 613 LCA RS05340 WP 231952379.1	.....	MMWQ.....	DYWQRYRR..	12
NTDB id 595 KW2 RS08725 WP 021037687.1	.....	ME.....	KILDKLKE..	10
NTDB id 1041 HON27 RS14740 WP 005124713.1	.....			0
NTDB id 1069 ABD1 RS03060 WP 043960841.1	.....			0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	.....			0
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....			0
NTDB id 1294 VP RS04495 WP 021449594.1	.....			0
NTDB id 1395 DSB67 RS04445 WP 010649155.1	.....			0
NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....	ME.....	SIIEKIKE..	10
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....	ME.....	AIIEKIKE..	10
NTDB id 263 KZH43 RS04195 WP 000387330.1	.....	ME.....	AIIEKIKE..	10
NTDB id 222 SPD RS04535 WP 000387330.1	.....	ME.....	AIIEKIKE..	10
NTDB id 188 SPR RS04295 WP 000387330.1	.....	ME.....	AIIEKIKE..	10
NTDB id 153 SP RS04730 WP 000387344.1	.....	ME.....	AIIEKIKE..	10
NTDB id 41963 CVAR RS17835 WP 234946380.1	.....			0
NTDB id 1382 A4U84 RS07375 WP 062924234.1	.....			0
NTDB id 1362 HI 1008 AAC22669.1	.....			0
consensus				

logo

	YKIIIVICTGLGLLVGGFFLLK . PAPQTPVKETNLQAEVVAISKDSSTEKDVKKEEKEEPVEQ	
NTDB id 105 BSU 25590 NP 390437.1	IILAA..... SAAVFTAIMIFLATGKNKEPVKQ... AV..... PTETENTVVVKQEANNDESN	59
NTDB id 1014 ACIAD RS13855 WP 004924483.1	.....	0
NTDB id 1127 NGFG RS10560 WP 003703428.1	.....MSRGGAT	7
NTDB id 1126 NGFG RS09375 WP 003703428.1	.....MSRGGAT	7
NTDB id 1125 NGFG RS07215 WP 003703428.1	.....MSRGGAT	7
NTDB id 1108 NGFG RS06525 WP 003703428.1	.....MSRGGAT	7
NTDB id 1242 Cj0011c YP 002343483.1	.....	0
NTDB id 1034 TT RS08100 WP 024119555.1	.....	0
NTDB id 1272 LPP RS04360 WP 010946546.1	.....	0
NTDB id 1249 GCO85 RS04230 WP 010946546.1	.....	0
NTDB id 1416 SGL RS14595 WP 010873643.1	IQLALFVFSEQALSINVINQRFQAGTEVKALIDRGFAFRY.YSEGLD.....LLGV.....	369
NTDB id 613 LCA RS05340 WP 231952379.1	.....FWWVPCLVLLGIIAGGFYWHQ.SQQKQKVTQ.NEQLLATSASKTK...PATKKTHQAATKK	68
NTDB id 595 KW2 RS08725 WP 021037687.1	.....YWKIMLLVVCALIAGGIFYIF.TNSPKPAETLSVENLSSSSTKSSVS...KFNSSSSEKNK	67
NTDB id 1041 HON27 RS14740 WP 005124713.1	.....	0
NTDB id 1069 ABD1 RS03060 WP 043960841.1	.....	0
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	.....	0
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....	0
NTDB id 1294 VP RS04495 WP 021449594.1	.....	0
NTDB id 1395 DSB67 RS04445 WP 010649155.1	.....	0
NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....YKIIIVICTGLGLLVGGFFLLK.PAPHTPVKETNLQAEVVAISKDSSTEKDVKKEEKEEPVEQ	71
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....YKIIIVICTGLGLLVGGFFLLK.PAPQTPVKETNLQAEVVAISKDSVSEKEVKKEEKEEPLEQ	71
NTDB id 263 KZH43 RS04195 WP 000387330.1	.....YKIIIVICTGLGLLVGGFFLLK.PAPQTPVKETNLQAEVVAISKDLVSEKEVNKEEKEEPLEQ	71
NTDB id 222 SPD RS04535 WP 000387330.1	.....YKIIIVICTGLGLLVGGFFLLK.PAPQTPVKETNLQAEVVAISKDLVSEKEVNKEEKEEPLEQ	71
NTDB id 188 SPR RS04295 WP 000387330.1	.....YKIIIVICTGLGLLVGGFFLLK.PAPQTPVKETNLQAEVVAISKDLVSEKEVNKEEKEEPLEQ	71
NTDB id 153 SP RS04730 WP 000387344.1	.....YKIIIVICTGLGLLVGGFFLLK.PAPQTPVKETNLQAEVVAISKDSSTEKEVKKEEKEEPLEQ	71
NTDB id 41963 CVAR RS17835 WP 234946380.1	.....	0
NTDB id 1382 A4U84 RS07375 WP 062924234.1	.....	0
NTDB id 1362 HI 1008 AAC22669.1	.....	0
consensus	.....	0

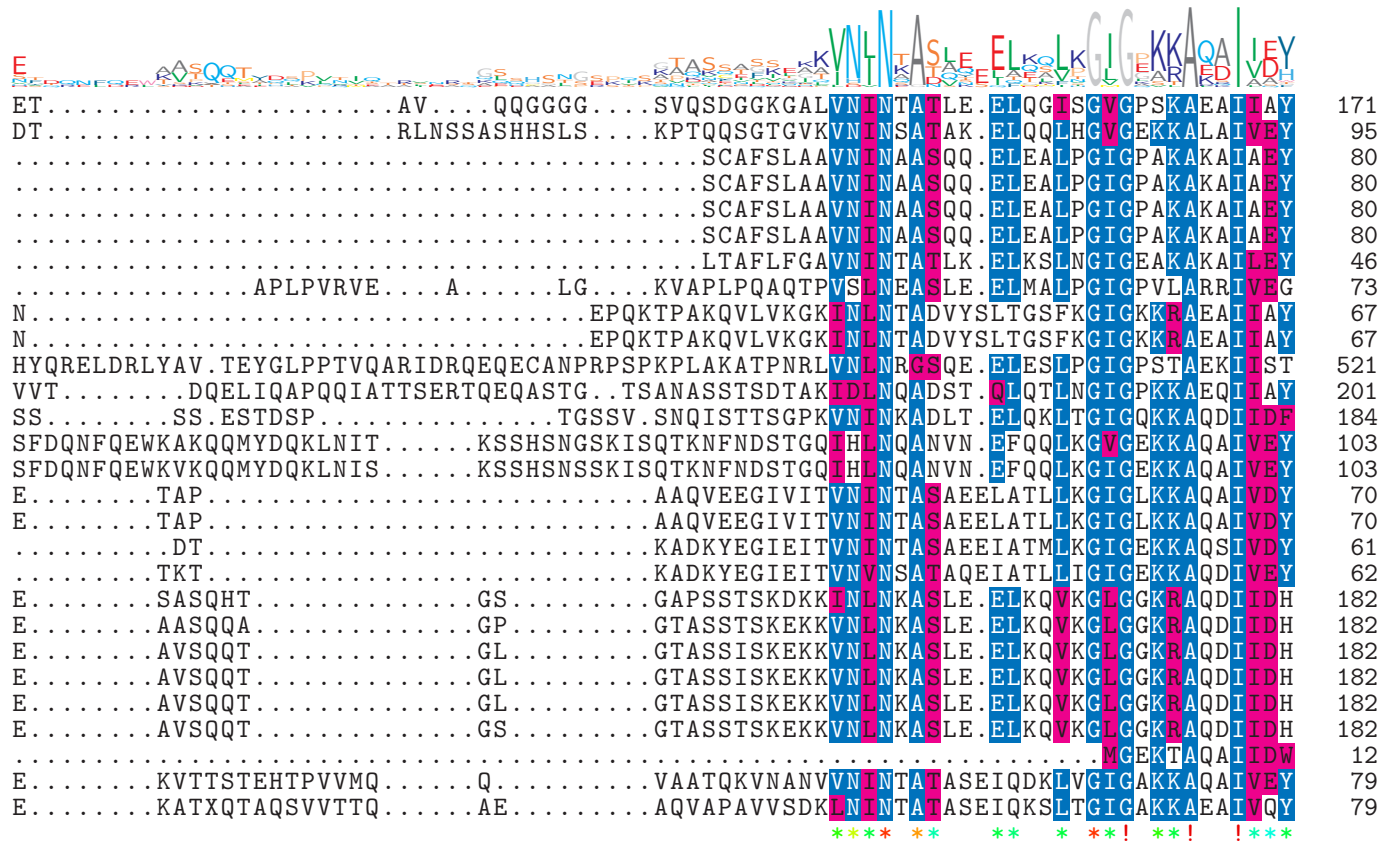
logo

		DLITVDIKGAVKSPGIYDLVPG.S	ETIVIDIKGAVQHPGVYEM.RTGDRVS	.....QAIEKAGGTSEQADEA...QVNLAE..ILQDGT	VVYIPKKGE	122
NTDB id 105	BSU 25590 NP 390437.1		....MSIRHFFT...FFWAT.....L....LTLFSMQIVFAQGFDDQQYDAW.....	.....	KTQQKAH	42
NTDB id 1014	ACIAD RS13855 WP 004924483.1		PYRFLLRHIVARCGLLFATLKGKTMKKM....FVLF	CMLF.....		44
NTDB id 1127	NGFG RS10560 WP 003703428.1		PYRFLLRHIVARCGLLFATLKGKTMKKM....FVLF	CMLF.....		44
NTDB id 1126	NGFG RS09375 WP 003703428.1		PYRFLLRHIVARCGLLFATLKGKTMKKM....FVLF	CMLF.....		44
NTDB id 1125	NGFG RS07215 WP 003703428.1		PYRFLLRHIVARCGLLFATLKGKTMKKM....FVLF	CMLF.....		44
NTDB id 1108	NGFG RS06525 WP 003703428.1		.....MKKL....LFLF..FA.....	.....		10
NTDB id 1242	Cj0011c YP 002343483.1		.....MVLGYLLAVALLGLLALW.PKLAP	.....		23
NTDB id 1034	TT RS08100 WP 024119555.1		.....MKARLIA..ILLSFIVIPFSSQAE	.....		22
NTDB id 1272	LPP RS04360 WP 010946546.1		.....MKARLIA..ILLSFIVIPFSSQAE	.....		22
NTDB id 1249	GCO85 RS04230 WP 010946546.1		....TLLEDCLEQPGNSPWALPTEFVGTPALPRGDKLHHKFALVDDDTVITGSHNWSPAANHN..NDET	VLVLQNAQIAA		443
NTDB id 1416	SGL RS14595 WP 010873643.1		KGGFVDIKGAVVYPGIYPIVSET.....RLFEVLK	NAGGPTDAADTK...RLNLAQ..KLTDQL	IIYIPKKGE	132
NTDB id 613	LCA RS05340 WP 231952379.1		NEIMVDLKGAVAKPNVYQISSD.E.....RLVDLIRQAGGF	TDQADQK...SINLSA..KLKDEE	VIVPVKVE	130
NTDB id 595	KW2 RS08725 WP 021037687.1		.....MQYSMRFWKNKYFLL..IMLCLG	VISPSVCAQ		30
NTDB id 1041	HON27 RS14740 WP 005124713.1		.....MQYSMRFWKNKYFVL..IMLCLG	VISPSVCAQ		30
NTDB id 1069	ABD1 RS03060 WP 043960841.1		.....MQIKTK...IVTLFL...SLCLPTL	PLLANAE		26
NTDB id 1159	ABDM36 RS04765 WP 001166105.1		.....MQIKTK...IVTLFL...SLCLPTL	PLLANAE		26
NTDB id 1150	A1552VC RS08580 WP 001166105.1		.....MKWIL...TLCLV	VFAPLSLAA		19
NTDB id 1294	VP RS04495 WP 021449594.1		.....MKWML...TLCLL	LILAPMSWAE		19
NTDB id 1395	DSB67 RS04445 WP 010649155.1		DLITVDVKGAVKSPGIYDLSVG.S.....RVNDAVQKAGGLTEQADSK...SLNLAQ..KVSDEAL	VYVPTKGE		134
NTDB id 521	SMSK321 RS04960 WP 000443804.1		DLITVDVKGAVKSPGIYDLPVG.S.....RVNDAVQKAGGLTEQADSK...SLNLAQ..KVSDEAL	VYVPTKGE		134
NTDB id 493	SM12261 RS04300 WP 000387351.1		DLITVDVKGAVKSPGIYDLPVG.S.....RVNDAVQKAGGLTEQADSK...SLNLAQ..KVSDEAL	VYVPTKGE		134
NTDB id 263	KZH43 RS04195 WP 000387330.1		DLITVDVKGAVKSPGIYDLPVG.S.....RVNDAVQKAGGLTEQADSK...SLNLAQ..KVSDEAL	VYVPTKGE		134
NTDB id 222	SPD RS04535 WP 000387330.1		DLITVDVKGAVKSPGIYDLPVG.S.....RVNDAVQKAGGLTEQADSK...SLNLAQ..KVSDEAL	VYVPTKGE		134
NTDB id 188	SPR RS04295 WP 000387330.1		DLITVDVKGAVKSPGIYDLPVG.S.....RVNDAVQKAGGLTEQADSK...SLNLAQ..KVSDEAL	VYVPTKGE		134
NTDB id 153	SP RS04730 WP 000387344.1		DLITVDVKGAVKSPGIYDLPVG.S.....RVNDAVQKAGGLTEQADSK...SLNLAQ..KVSDEAL	VYVPTKGE		134
NTDB id 41963	CVAR RS17835 WP 234946380.1		.....			0
NTDB id 1382	A4U84 RS07375 WP 062924234.1		.....MKKLSRYTFS.....LLFG.	LFSATTFAE		23
NTDB id 1362	HI 1008 AAC22669.1		.....MKCTL..FTSV.....VLCGAL	LVSSSFAE		22
consensus					** *	

logo

NTDB id 105 BSU 25590 NP 390437.1
 NTDB id 1014 ACIAD RS13855 WP 004924483.1
 NTDB id 1127 NGFG RS10560 WP 003703428.1
 NTDB id 1126 NGFG RS09375 WP 003703428.1
 NTDB id 1125 NGFG RS07215 WP 003703428.1
 NTDB id 1108 NGFG RS06525 WP 003703428.1
 NTDB id 1242 Cj0011c YP 002343483.1
 NTDB id 1034 TT RS08100 WP 024119555.1
 NTDB id 1272 LPP RS04360 WP 010946546.1
 NTDB id 1249 GC085 RS04230 WP 010946546.1
 NTDB id 1416 SGL RS14595 WP 010873643.1
 NTDB id 613 LCA RS05340 WP 231952379.1
 NTDB id 595 KW2 RS08725 WP 021037687.1
 NTDB id 1041 HON27 RS14740 WP 005124713.1
 NTDB id 1069 ABD1 RS03060 WP 043960841.1
 NTDB id 1159 ABDM36 RS04765 WP 001166105.1
 NTDB id 1150 A1552VC RS08580 WP 001166105.1
 NTDB id 1294 VP RS04495 WP 021449594.1
 NTDB id 1395 DSB67 RS04445 WP 010649155.1
 NTDB id 521 SMSK321 RS04960 WP 000443804.1
 NTDB id 493 SM12261 RS04300 WP 000387351.1
 NTDB id 263 KZH43 RS04195 WP 000387330.1
 NTDB id 222 SPD RS04535 WP 000387330.1
 NTDB id 188 SPR RS04295 WP 000387330.1
 NTDB id 153 SP RS04730 WP 000387344.1
 NTDB id 41963 CVAR RS17835 WP 234946380.1
 NTDB id 1382 A4U84 RS07375 WP 062924234.1
 NTDB id 1362 HI 1008 AAC22669.1

consensus



logo

NTDB id 105 BSU 25590 NP 390437.1
 NTDB id 1014 ACIAD RS13855 WP 004924483.1
 NTDB id 1127 NGFG RS10560 WP 003703428.1
 NTDB id 1126 NGFG RS09375 WP 003703428.1
 NTDB id 1125 NGFG RS07215 WP 003703428.1
 NTDB id 1108 NGFG RS06525 WP 003703428.1
 NTDB id 1242 Cj0011c YP 002343483.1
 NTDB id 1034 TT RS08100 WP 024119555.1
 NTDB id 1272 LPP RS04360 WP 010946546.1
 NTDB id 1249 GC085 RS04230 WP 010946546.1
 NTDB id 1416 SGL RS14595 WP 010873643.1
 NTDB id 613 LCA RS05340 WP 231952379.1
 NTDB id 595 KW2 RS08725 WP 021037687.1
 NTDB id 1041 HON27 RS14740 WP 005124713.1
 NTDB id 1069 ABD1 RS03060 WP 043960841.1
 NTDB id 1159 ABDM36 RS04765 WP 001166105.1
 NTDB id 1150 A1552VC RS08580 WP 001166105.1
 NTDB id 1294 VP RS04495 WP 021449594.1
 NTDB id 1395 DSB67 RS04445 WP 010649155.1
 NTDB id 521 SMSK321 RS04960 WP 000443804.1
 NTDB id 493 SM12261 RS04300 WP 000387351.1
 NTDB id 263 KZH43 RS04195 WP 000387330.1
 NTDB id 222 SPD RS04535 WP 000387330.1
 NTDB id 188 SPR RS04295 WP 000387330.1
 NTDB id 153 SP RS04730 WP 000387344.1
 NTDB id 41963 CVAR RS17835 WP 234946380.1
 NTDB id 1382 A4U84 RS07375 WP 062924234.1
 NTDB id 1362 HI 1008 AAC22669.1



REENGRFQTI~~E~~DI~~T~~KVSGIGEKSF~~E~~KIKSSIT~~V~~K..... 205
 RQQY~~G~~KFA~~S~~V~~D~~DL~~L~~Q~~K~~V~~K~~GIG~~P~~K~~F~~I~~E~~K~~N~~R~~D~~R~~L~~A~~I~~..... 128
 RAQNGAFK~~S~~V~~D~~DL~~I~~K~~V~~K~~G~~I~~G~~PA~~V~~L~~A~~K~~L~~K~~D~~Q~~A~~S~~V~~GAPAPK~~G~~PA~~K~~P~~V~~L~~P~~AV~~K~~K 131
 RAQNGAFK~~S~~V~~D~~DL~~I~~K~~V~~K~~G~~I~~G~~PA~~V~~L~~A~~K~~L~~K~~D~~Q~~A~~S~~V~~GAPAPK~~G~~PA~~K~~P~~V~~L~~P~~AV~~K~~K 131
 RAQNGAFK~~S~~V~~D~~DL~~I~~K~~V~~K~~G~~I~~G~~PA~~V~~L~~A~~K~~L~~K~~D~~Q~~A~~S~~V~~GAPAPK~~G~~PA~~K~~P~~V~~L~~P~~AV~~K~~K 131
 RAQNGAFK~~S~~V~~D~~DL~~I~~K~~V~~K~~G~~I~~G~~PA~~V~~L~~A~~K~~L~~K~~D~~Q~~A~~S~~V~~GAPAPK~~G~~PA~~K~~P~~V~~L~~P~~AV~~K~~K 131
 RKE.~~A~~N~~F~~T~~S~~I~~D~~DL~~K~~K~~V~~K~~G~~I~~G~~D~~K~~L~~F~~E~~K~~I~~K~~N~~D~~I~~T~~I~~E~~..... 79
 R....~~P~~Y~~A~~R~~V~~E~~D~~L~~L~~K~~V~~K~~G~~I~~G~~P~~A~~T~~L~~E~~R~~L~~R~~P~~Y~~L~~R~~P..... 102
 RENH~~Q~~G~~F~~K~~S~~L~~E~~E~~L~~A~~E~~V~~K~~G~~I~~G~~Q~~R~~F~~V~~D~~K~~N~~R~~E~~K~~L~~K~~E~~I~~F~~V~~I~~N..... 105
 RENH~~Q~~G~~F~~K~~S~~L~~E~~E~~L~~A~~E~~V~~K~~G~~I~~G~~Q~~R~~F~~V~~D~~K~~N~~R~~E~~K~~L~~K~~E~~I~~F~~V~~I~~N..... 105
 REQ.~~K~~A~~F~~T~~S~~L~~E~~D~~L~~G~~R~~V~~K~~G~~I~~G~~P~~S~~K~~I~~E~~G~~L~~R~~G~~K~~V~~T~~W~~..... 553
 RDE~~Q~~G~~K~~F~~K~~Q~~I~~E~~D~~L~~Q~~K~~V~~G~~G~~I~~G~~P~~K~~T~~F~~E~~Q~~L~~Q~~S~~Q~~I~~C~~V~~N~~..... 235
 RMK~~N~~G~~D~~F~~K~~S~~I~~E~~D~~L~~G~~K~~V~~S~~G~~F~~G~~D~~K~~T~~L~~E~~K~~L~~K~~D~~E~~I~~S~~I~~D~~..... 218
 RQK~~N~~G~~S~~F~~K~~N~~I~~D~~E~~I~~K~~N~~V~~K~~G~~I~~G~~P~~A~~I~~F~~E~~K~~N~~K~~S~~R~~L~~A~~L..... 136
 RQK~~N~~G~~S~~F~~K~~N~~I~~D~~E~~I~~K~~N~~V~~K~~G~~I~~G~~P~~A~~I~~F~~E~~K~~N~~K~~S~~R~~L~~A~~L..... 136
 REANG~~P~~F~~T~~H~~I~~D~~D~~L~~T~~N~~V~~K~~G~~I~~G~~E~~A~~T~~V~~R~~N~~N~~A~~A~~R~~I~~L~~L..... 103
 REANG~~P~~F~~T~~H~~I~~D~~D~~L~~T~~N~~V~~K~~G~~I~~G~~E~~A~~T~~V~~R~~N~~N~~A~~A~~R~~I~~L~~L..... 103
 RTEH~~G~~P~~F~~K~~T~~A~~A~~D~~L~~T~~N~~V~~K~~G~~I~~G~~E~~A~~T~~I~~K~~K~~N~~E~~D~~R~~I~~L~~L~~..... 94
 RNEH~~G~~P~~F~~K~~T~~A~~A~~D~~L~~T~~K~~V~~K~~G~~I~~G~~E~~A~~T~~V~~R~~K~~N~~E~~D~~R~~I~~L~~L~~..... 95
 REANG~~K~~F~~K~~S~~V~~D~~E~~L~~K~~K~~V~~S~~G~~I~~G~~A~~K~~T~~I~~E~~K~~L~~K~~D~~Y~~V~~T~~V~~D~~..... 216
 REANG~~K~~F~~K~~S~~V~~D~~E~~L~~K~~K~~V~~S~~G~~I~~G~~A~~K~~T~~I~~E~~K~~L~~K~~D~~Y~~V~~T~~V~~D~~..... 216
 REANG~~K~~F~~K~~S~~V~~D~~E~~L~~K~~K~~V~~S~~G~~I~~G~~G~~K~~T~~I~~E~~K~~L~~K~~D~~Y~~V~~T~~V~~D~~..... 216
 REANG~~K~~F~~K~~S~~V~~D~~E~~L~~K~~K~~V~~S~~G~~I~~G~~G~~K~~T~~I~~E~~K~~L~~K~~D~~Y~~V~~T~~V~~D~~..... 216
 REANG~~K~~F~~K~~S~~V~~D~~E~~L~~K~~K~~V~~S~~G~~I~~G~~G~~K~~T~~I~~E~~K~~L~~K~~D~~Y~~V~~T~~V~~D~~..... 216
 REANG~~P~~F~~T~~A~~P~~E~~Q~~L~~M~~E~~V~~K~~G~~I~~G~~P~~A~~K~~F~~E~~A~~L~~R~~D~~A~~V~~S~~V..... 45
 REK~~N~~G~~K~~F~~L~~N~~V~~E~~Q~~L~~T~~E~~V~~S~~G~~I~~G~~K~~A~~T~~L~~E~~K~~N~~R~~D~~C~~I~~V~~I~~E~~..... 113
 REK~~H~~G~~N~~F~~X~~N~~A~~E~~Q~~L~~L~~E~~V~~Q~~G~~I~~G~~K~~A~~T~~L~~E~~K~~N~~R~~D~~R~~I~~F~~..... 112

consensus

non conserved
 similar
 ≥ 50% conserved