

logo

NTDB id 1272 LPP RS04360 WP 010946546.1	.....	0
NTDB id 1249 GC085 RS04230 WP 010946546.1	.....	0
NTDB id 521 SMSK321 RS04960 WP 000443804.1	.....	0
NTDB id 493 SM12261 RS04300 WP 000387351.1	.....	0
NTDB id 153 SP RS04730 WP 000387344.1	.....	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 20 SA RS08005 WP 001802022.1	.....	0
NTDB id 36 MW RS08230 WP 001793467.1	.....	0
NTDB id 300 STER RS07485 WP 011681496.1	.....	0
NTDB id 595 KW2 RS08725 WP 021037687.1	.....	0
NTDB id 613 LCA RS05340 WP 231952379.1	.....	0
NTDB id 253002 CSE15 RS19945 WP 232516851.1	.....	0
NTDB id 105 BSU 25590 NP 390437.1	.....	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 1362 HI 1008 AAC22669.1		0
NTDB id 1382 A4U84 RS07375 WP 062924234.1		0
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NTDB id 1127 NGFG RS10560 WP 003703428.1		0
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NTDB id 1125 NGFG RS07215 WP 003703428.1		0
NTDB id 1108 NGFG RS06525 WP 003703428.1		0
consensus		

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NTDB id 1272 LPP RS04360 WP 010946546.1		0
NTDB id 1249 GC085 RS04230 WP 010946546.1		0
NTDB id 521 SMSK321 RS04960 WP 000443804.1		0
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NTDB id 188 SPR RS04295 WP 000387330.1		0
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NTDB id 1294 VP RS04495 WP 021449594.1		0
NTDB id 1395 DSB67 RS04445 WP 010649155.1		0
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NTDB id 1125 NGFG RS07215 WP 003703428.1		0
NTDB id 1108 NGFG RS06525 WP 003703428.1		0
consensus		

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NTDB id 1272 LPP RS04360 WP 010946546.1		0
NTDB id 1249 GC085 RS04230 WP 010946546.1		0
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NTDB id 1382 A4U84 RS07375 WP 062924234.1		0
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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
consensus		

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NTDB id 1272 LPP RS04360 WP 010946546.1		0
NTDB id 1249 GC085 RS04230 WP 010946546.1		0
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NTDB id 263 KZH43 RS04195 WP 000387330.1	MEA.....IIEKIK..	9
NTDB id 222 SPD RS04535 WP 000387330.1	MEA.....IIEKIK..	9
NTDB id 188 SPR RS04295 WP 000387330.1	MEA.....IIEKIK..	9
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NTDB id 36 MW RS08230 WP 001793467.1	MVLlyQFLLRYKD.....FLTQWK..	19
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NTDB id 595 KW2 RS08725 WP 021037687.1	MEK.....ILDKLK..	9
NTDB id 613 LCA RS05340 WP 231952379.1	MMWQD.....YWQRYR..	11
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NTDB id 1395 DSB67 RS04445 WP 010649155.1		0
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NTDB id 1125 NGFG RS07215 WP 003703428.1		0
NTDB id 1108 NGFG RS06525 WP 003703428.1		0
consensus		

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	EYK	IIIVICTGLGLLVGGFFLLKPAPHTPVKETNLQAEVVAISKDSSTEK	DVKKEEK	0
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NTDB id 493 SM12261 RS04300 WP 000387351.1	EYK.....	IIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVAAVSKDSSTEK	EVKKEEK	65
NTDB id 153 SP RS04730 WP 000387344.1	EYK.....	IIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVAAVSKDLVSEK	EVNKEEK	65
NTDB id 263 KZH43 RS04195 WP 000387330.1	EYK.....	IIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVAAVSKDLVSEK	EVNKEEK	65
NTDB id 222 SPD RS04535 WP 000387330.1	EYK.....	IIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVAAVSKDLVSEK	EVNKEEK	65
NTDB id 188 SPR RS04295 WP 000387330.1	EYK.....	IIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVAAVSKDLVSEK	EVNKEEK	65
NTDB id 20 SA RS08005 WP 001802022.1	L.Y.....	IIISAVVLIMVLIGFIFWRQDDYTSRNF....ENKDTALKQSTSENNSLSKL	EDVQVKDG	76
NTDB id 36 MW RS08230 WP 001793467.1	L.Y.....	IIISAVVLIMVLIGFIFWRQDDYTSRNF....ENKDNALKQSTSENSLSKV	EDVQVKDG	76
NTDB id 300 STER RS07485 WP 011681496.1	LF.....	VSVIAVLMVIFCFFLWMTCGAGNSMEAETSYPDVTALSTSSSKQSSQSLSEASSQSKTE		74
NTDB id 595 KW2 RS08725 WP 021037687.1	EYW.....	KIMLLVVCALIAGGIFYIFTNSPKPAE....TLSVENLSSSSTKSS	VSKFNSS	61
NTDB id 613 LCA RS05340 WP 231952379.1	RFW.....	WVPCLVLLGIIAGGFYWHQSQQKQKVT....QNE.QLLATSASKTK	PATKKTH	62
NTDB id 253002 CSE15 RS19945 WP 232516851.1	.....	.....	.....	0
NTDB id 105 BSU 25590 NP 390437.1	ILA.....	ASAAVFTAI...MIFLATGKNKEPVK....QA....VPTE..TEN	TVVKQEA	53
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 1362 HI 1008 AAC22669.1				0
NTDB id 1382 A4U84 RS07375 WP 062924234.1				0
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NTDB id 1014 ACIAD RS13855 WP 004924483.1				0
NTDB id 1242 Cj0011c YP 002343483.1				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
consensus				

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NTDB id 1272 LPP RS04360 WP 010946546.1	MKARLIAILL	10
NTDB id 1249 GC085 RS04230 WP 010946546.1	MKARLIAILL	10
NTDB id 521 SMSK321 RS04960 WP 000443804.1	EEPVEQDLITVDVKGAVKSPGIYD.....LSVGS...RVNDVQKA...GGLTEQADSKSLNLAQKVSDEA.	125
NTDB id 493 SM12261 RS04300 WP 000387351.1	EEPLEQDLITVDVKGAVKSPGIYD.....LPVGS...RVNDVQKA...GGLTEQADSKSLNLAQKVSDEA.	125
NTDB id 153 SP RS04730 WP 000387344.1	EEPLEQDLITVDVKGAVKSPGIYD.....LPVGS...RVNDVQKA...GGLTEQADSKSLNLAQKVSDEA.	125
NTDB id 263 KZH43 RS04195 WP 000387330.1	EEPLEQDLITVDVKGAVKSPGIYD.....LPVGS...RVNDVQKA...GGLTEQADSKSLNLAQKVSDEA.	125
NTDB id 222 SPD RS04535 WP 000387330.1	EEPLEQDLITVDVKGAVKSPGIYD.....LPVGS...RVNDVQKA...GGLTEQADSKSLNLAQKVSDEA.	125
NTDB id 188 SPR RS04295 WP 000387330.1	EEPLEQDLITVDVKGAVKSPGIYD.....LPVGS...RVNDVQKA...GGLTEQADSKSLNLAQKVSDEA.	125
NTDB id 20 SA RS08005 WP 001802022.1	DNSKNKGPVYVDVKGAVKHPNVYK.....MTSKD...RVVDLLDKA...Q.LLDDADVSRINLSEKLTQDK.	135
NTDB id 36 MW RS08230 WP 001793467.1	DNSKNKGPVYVDVKGAVKHPNVYK.....MTSKD...RVVDLLDKA...Q.LLEDADVSRINLSEKLTQDK.	135
NTDB id 300 STER RS07485 WP 011681496.1	GSEKVKSKVTVDVKGAVVNPVGYT.....LKAGA...RVTDVQEA...GGMTEDADAKSVNLAASLSDEE.	134
NTDB id 595 KW2 RS08725 WP 021037687.1	SSEKNKNEIMVDLKGAVAKPNVYQ.....ISSDE...RLVDLIRQA...GGFTDQADQKSLNLSAKLKDEE.	121
NTDB id 613 LCA RS05340 WP 231952379.1	QAATKKKGGFVDIKGAVVYPGIYP.....ITVSET...RLFVLLKNA...GGPTDAADTKRLNLAQKLTQDL.	123
NTDB id 253002 CSE15 RS19945 WP 232516851.1	.....	0
NTDB id 105 BSU 25590 NP 390437.1	NNDESNETIVIDIKGAVQHPGVYE.....MRTGD...RVSQAIEKA...GGTSEQADEAQVNLAEILQDGT.	113
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	MQIKTKIVTLFSLCLPTL	19
NTDB id 1150 A1552VC RS08580 WP 001166105.1	MQIKTKIVTLFSLCLPTL	19
NTDB id 1294 VP RS04495 WP 021449594.1	MKWILTLCVVF	12
NTDB id 1395 DSB67 RS04445 WP 010649155.1	MKWMLTLCLLIL	12
NTDB id 1362 HI 1008 AAC22669.1	MKTL...FTSVVLCGALV	15
NTDB id 1382 A4U84 RS07375 WP 062924234.1	MKKLSRYTFSLLFG.LF	16
NTDB id 1416 SGL RS14595 WP 010873643.1	LLEDCLQPGNSPWALPTEFVGTPALPRGDKLHHKFALVDDDTVITGSHNWSAANHNNDETVIVLQNA	439
NTDB id 1069 ABD1 RS03060 WP 043960841.1	MQYS...MR.....FW..KNK.YFVLMCLG.V	22
NTDB id 1014 ACIAD RS13855 WP 004924483.1	MSIR.....HFFT....FFWATLL...TLF	18
NTDB id 1242 Cj0011c YP 002343483.1	MK	2
NTDB id 1127 NGFG RS10560 WP 003703428.1	MSRGGATPYRFLLR.....HIVARCG..LLFATLKGKTMK	34
NTDB id 1126 NGFG RS09375 WP 003703428.1	MSRGGATPYRFLLR.....HIVARCG..LLFATLKGKTMK	34
NTDB id 1125 NGFG RS07215 WP 003703428.1	MSRGGATPYRFLLR.....HIVARCG..LLFATLKGKTMK	34
NTDB id 1108 NGFG RS06525 WP 003703428.1	MSRGGATPYRFLLR.....HIVARCG..LLFATLKGKTMK	34
consensus	*	

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NTDB id 1272 LPP RS04360 WP 010946546.1	S..FIVIPFSSQAENEPQK.....TPAKQVLVKGKINLNTADVSLTGSFKGIGKKRAE	62
NTDB id 1249 GC085 RS04230 WP 010946546.1	S..FIVIPFSSQAENEPQK.....TPAKQVLVKGKINLNTADVSLTGSFKGIGKKRAE	62
NTDB id 521 SMSK321 RS04960 WP 000443804.1	...LVYVPTKGEEASQHTG.....SGAPSSTSKDKKINLNKASLEELK.QVKGLGGKRAQ	177
NTDB id 493 SM12261 RS04300 WP 000387351.1	...LVYVPTKGEEAASQQAG.....PGTASSTSKEKKVNLNKAASLEELK.QVKGLGGKRAQ	177
NTDB id 153 SP RS04730 WP 000387344.1	...LVYVPTKGEEAVSQQTG.....SGTASSTSKEKKVNLNKAASLEELK.QVKGLGGKRAQ	177
NTDB id 263 KZH43 RS04195 WP 000387330.1	...LVYVPTKGEEAVSQQTG.....LGTASSISKEKKVNLNKAASLEELK.QVKGLGGKRAQ	177
NTDB id 222 SPD RS04535 WP 000387330.1	...LVYVPTKGEEAVSQQTG.....LGTASSISKEKKVNLNKAASLEELK.QVKGLGGKRAQ	177
NTDB id 188 SPR RS04295 WP 000387330.1	...LVYVPTKGEEAVSQQTG.....LGTASSISKEKKVNLNKAASLEELK.QVKGLGGKRAQ	177
NTDB id 20 SA RS08005 WP 001802022.1	...MIFIPHKGQKNVEPQIEV.....NSVHVKNGNTNNTKVNLTASVSELM.SVPGVGQAKAN	190
NTDB id 36 MW RS08230 WP 001793467.1	...MIFIPHKGQKNVEPQIGV.....NSVHVKNGNTNNTKVNLTASVSELM.SVPGVGQAKAN	190
NTDB id 300 STER RS07485 WP 011681496.1	...VIYVANKDENVSVDLTGTGTGQ.....VSDKGGQAVSKDGKINLNTATSEQLQ.TISGIGAKRAE	192
NTDB id 595 KW2 RS08725 WP 021037687.1	...VIYVPKVGESSSSSESTD.....SPTGSSVSNQISTTSGPKVNIINKADLTQLQ.KLTGIGQKKAQ	179
NTDB id 613 LCA RS05340 WP 231952379.1	...IIYIPKKGEVVTDQELIQAPQIATTSERTQE...QASTGTSANASSTSDTAKIDLNQADSTQLQ.TLNGIGPKKAE	196
NTDB id 253002 CSE15 RS19945 WP 232516851.1	MNVNQADAAELQ.TINGIGPAKAE	23
NTDB id 105 BSU 25590 NP 390437.1	...VVYIPKKGEETAVQQG.....GGGSVQSDGGKGALVNINTATLEELQ.GISGVGPSKAE	166
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	PLLA.NAEET.....APAA.Q.....VEEGIVITVNINTASAEELATLLKGIGLKKAQ	65
NTDB id 1150 A1552VC RS08580 WP 001166105.1	PLLA.NAEET.....APAA.Q.....VEEGIVITVNINTASAEELATLLKGIGLKKAQ	65
NTDB id 1294 VP RS04495 WP 021449594.1	APLS.LAA.....DTKA.D.....KYEGIEITVNINTASAEETATMLKGIGEKKAQ	56
NTDB id 1395 DSB67 RS04445 WP 010649155.1	APMS.WAE.T.....KTKA.D.....KYEGIEITVNVNSATAQEIIATLLIGIGEKKAQ	57
NTDB id 1362 HI 1008 AAC22669.1	VSSS.FAE EK.....ATXQ.TAQSVVTTQ.....AEAQVAPAVVSDKLNINTATASEITQKSLTGIGAKKAE	74
NTDB id 1382 A4U84 RS07375 WP 062924234.1	SATT.FAE EK.....VTTS.TEHTPVVMQ.....Q.VAATQKVNANVVNINTATASEIQDKLVGIGAKKAQ	74
NTDB id 1416 SGL RS14595 WP 010873643.1	QIAAHYQRELDRLYAVTEY.GLPP.TVQARIDRQE QECANPRPSPKPLAKATPNRLVNLNRGSQE ELE.SLPGIGPSTAE	516
NTDB id 1069 ABD1 RS03060 WP 043960841.1	ISPSVCAQSFQDNFQE..W.KVKQQMYDQKLNISKSSHSNSSKISQTKNFNDSTGQIHLNQANVNEFQ.QLKGIGEKKAQ	98
NTDB id 1014 ACIAD RS13855 WP 004924483.1	SMQIVFAQGFQDQYDA..W.KTQQKAHDTRLNSSASHHLSKPTQQ....SGTGVKVNINSATAKELQ.QLHGVGEKKAL	90
NTDB id 1242 Cj0011c YP 002343483.1	KLLFLF..F.....ALT....AFLFGAVNINTATLKELK.SLNGIGEA KAK	41
NTDB id 1127 NGFG RS10560 WP 003703428.1	KMFVLF CML.....FSC....AFSLAAVNINAASQ QELE.ALPGIGPAKAK	75
NTDB id 1126 NGFG RS09375 WP 003703428.1	KMFVLF CML.....FSC....AFSLAAVNINAASQ QELE.ALPGIGPAKAK	75
NTDB id 1125 NGFG RS07215 WP 003703428.1	KMFVLF CML.....FSC....AFSLAAVNINAASQ QELE.ALPGIGPAKAK	75
NTDB id 1108 NGFG RS06525 WP 003703428.1	KMFVLF CML.....FSC....AFSLAAVNINAASQ QELE.ALPGIGPAKAK	75
consensus	***! ** ** * !!! **!	

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NTDB id 1272 LPP RS04360 WP 010946546.1	AIIAYRENHQQGFKSLEELAEVKGIGQRFVDKNREKLKEIFVIN.....	105
NTDB id 1249 GC085 RS04230 WP 010946546.1	AIIAYRENHQQGFKSLEELAEVKGIGQRFVDKNREKLKEIFVIN.....	105
NTDB id 521 SMSK321 RS04960 WP 000443804.1	DIIDHREANGKFKSVDELKKVSGIGAKTIEKLKD....YVTVD.....	216
NTDB id 493 SM12261 RS04300 WP 000387351.1	DIIDHREANGKFKSVDELKKVSGIGAKTIEKLKD....YVTVD.....	216
NTDB id 153 SP RS04730 WP 000387344.1	DIIDHREANGKFKSVDELKKVSGIGAKTIEKLKD....YVTVD.....	216
NTDB id 263 KZH43 RS04195 WP 000387330.1	DIIDHREANGKFKSVDELKKVSGIGAKTIEKLKD....YVTVD.....	216
NTDB id 222 SPD RS04535 WP 000387330.1	DIIDHREANGKFKSVDELKKVSGIGAKTIEKLKD....YVTVD.....	216
NTDB id 188 SPR RS04295 WP 000387330.1	DIIDHREANGKFKSVDELKKVSGIGAKTIEKLKD....YVTVD.....	216
NTDB id 20 SA RS08005 WP 001802022.1	AIVEYRNQGGAFQEIDDLKKVKGFGSKTFDKLKS....YFTTI.....	228
NTDB id 36 MW RS08230 WP 001793467.1	AIVEYRNQGGAFQEIDDLKKVKGFGSKTFDKLKS....YFTTI.....	228
NTDB id 300 STER RS07485 WP 011681496.1	DVIAYRRESHGGFQSVDDLKNVSGIGDKTLDKIRE....SLYVA.....	231
NTDB id 595 KW2 RS08725 WP 021037687.1	DIIDFRMKNGDFKSIEDLGKVSIGFGDKTLEKLKD....EISID.....	218
NTDB id 613 LCA RS05340 WP 231952379.1	QIIAYRDEQGGFKQIEDLQKVGIGPKTFEQLQS....QICVN.....	235
NTDB id 253002 CSE15 RS19945 WP 232516851.1	AIITYREEHGEFQQIEDLRNISGFGEKTIERLKN....QLTVK.....	62
NTDB id 105 BSU 25590 NP 390437.1	AIIAYREENGFRQTIEDITKVSIGIGKSFEEKS....SITVK.....	205
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	AIVDYREANGPFTTHIDDLTNVKGIGEATVRNNAA....RILL.....	103
NTDB id 1150 A1552VC RS08580 WP 001166105.1	AIVDYREANGPFTTHIDDLTNVKGIGEATVRNNAA....RILL.....	103
NTDB id 1294 VP RS04495 WP 021449594.1	SIVDYRTEHGPFKTAADLTNVKGIGEATIKKNED....RILL.....	94
NTDB id 1395 DSB67 RS04445 WP 010649155.1	DIVEYRNEHGPFKTAADLTNVKGIGEATVRKNED....RILL.....	95
NTDB id 1362 HI 1008 AAC22669.1	AIVQYREKHGNFXNAEQLLEVQGIGKATLEKNRD....RIIF.....	112
NTDB id 1382 A4U84 RS07375 WP 062924234.1	AIVEYREKNGKFLNVEQLTEVSGIGKATLEKNRD....CIVIE.....	113
NTDB id 1416 SGL RS14595 WP 010873643.1	KIISTREQ.KAFTSLEDLGRVKGIGPSKIEGLRG....KVTW.....	553
NTDB id 1069 ABD1 RS03060 WP 043960841.1	AIVEYRQKNGSFKNIDEIKNVKGIGPAIFEKNKs....RLAL.....	136
NTDB id 1014 ACIAD RS13855 WP 004924483.1	AIVEYRQQYQKFFASVDDLQKVKGIGPKFIEKNRD....RLAI.....	128
NTDB id 1242 Cj0011c YP 002343483.1	AILEYRKE.ANFTSIDDLKKVKGIGDKLFEKIKN....DITIE.....	79
NTDB id 1127 NGFG RS10560 WP 003703428.1	AIAEYRAQNGAFKSVDDLIKVKGIGPAVLAKLKD....QASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1126 NGFG RS09375 WP 003703428.1	AIAEYRAQNGAFKSVDDLIKVKGIGPAVLAKLKD....QASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1125 NGFG RS07215 WP 003703428.1	AIAEYRAQNGAFKSVDDLIKVKGIGPAVLAKLKD....QASVGAPAPKGPAPVLPVAVKK	131
NTDB id 1108 NGFG RS06525 WP 003703428.1	AIAEYRAQNGAFKSVDDLIKVKGIGPAVLAKLKD....QASVGAPAPKGPAPVLPVAVKK	131
consensus	*****! * * * !***** * * !*! ***** * * * *	

- non conserved
- similar
- ≥ 50% conserved