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NTDB id 1314 DR RS00625 WP 010886768.1	AAIGGAKAAEEEARAELNKA AERGVTLLGRGLPGYPAAL	EALEAGDPPAVLWVRGAGGAELLAGLGTVP	PHSVGIVGTR	AASPH	142	
NTDB id 1037 TT RS09535 WP 011174226.1	.....PEAEAQAERERRRAEALGVRLGLWEEGF	PEGLKALPQPPTHLYLKGELP.....PEREA	VALVGT	RRASPW	108
NTDB id 626 LCA RS04960 WP 011374694.1	QAS....FQSTTIQRQCIDHEVRTTYLTI	LDKDYPRQLLETYLPPVLLFYR	GDRLRL.....KQ	PCLAVVGARQ	ATHY 125	
NTDB id 114 BSU 16110 NP 389493.1	.....LPRVLAAYR..EQGINTIPISSKQ	YPFWLKSTYDPPAVLFAKGD	MTLL.....SKGRK	IGIVGTR	NP
NTDB id 599 KW2 RS05940 WP 021037268.1	RAD....YKK.....FSSFSILDDLYPERLRE	IYNPVLLFYQGNIDLL.....KN	PKLAFVGS	RLAGQS	119	
NTDB id 407 SMU RS04605 WP 002262865.1	RKE....FNR.....FPSLSILDKEYPLELKN	IYNPPVLLFYQGD	LDLL.....AR	PKLAVVGS	RNASQM 118	
NTDB id 525 SMSK321 RS06295 WP 000705298.1	EKE....FKK.....IPSFSILDDCYPWDLSE	IYDAPVLLFYKGNLDLL.....KF	PKVAVVGS	RSRCSKQ	120	
NTDB id 267 KZH43 RS05590 WP 000705306.1	SKE....FQK.....FPSFSILDDCYPWDLSE	IYDAPVLLFYKGNLDLL.....KF	PKVAVVGS	RACSKQ	120	
NTDB id 226 SPD RS05990 WP 000705306.1	SKE....FQK.....FPSFSILDDCYPWDLSE	IYDAPVLLFYKGNLDLL.....KF	PKVAVVGS	RACSKQ	120	
NTDB id 192 SPR RS05715 WP 000705306.1	SKE....FQK.....FPSFSILDDCYPWDLSE	IYDAPVLLFYKGNLDLL.....KF	PKVAVVGS	RACSKQ	120	
NTDB id 157 SP RS06205 WP 000705306.1	SKE....FQK.....FPSFSILDDCYPWDLSE	IYDAPVLLFYKGNLDLL.....KF	PKVAVVGS	RACSKQ	120	
NTDB id 497 SM12261 RS05565 WP 000705318.1	EKE....FQK.....FPSFSILDDCYPWDLSE	IYDAPVLLFYKGNLDLL.....KF	PKVAVVGS	RACSKQ	120	
NTDB id 1361 HI 0985 AAC22646.1	.....FIEPALVWSQK..EGNH.LVNYFSPF	YPFLKQTASFPPLLFVKGNLTAL.....SQ	RQMAMVGS	RYCTI	TY 124
NTDB id 1388 A4U84 RS04945 WP 062924099.1	.....WIDQALQWAEQ..DQQQ.ILTLFDE	DYFLLKQISTAPPVLFV	RGNVESL.....SL	PQIAIVGS	RDYSHY 123
NTDB id 1021 ACIAD RS00975 WP 004930462.1	QQG....QQFEKMLAQLQ..THTDFIVTPDD	PAYPSQLIPYQDRPPI	IFGQGS	IQSL.....IQ	PQIAIVGS	RKPSPH 134
NTDB id 1043 HON27 RS16615 WP 168727007.1	QQG....AQFEQLVQQVR..QHTDFILT	TPDDSGYPTQLLPYTDHPP	IIFGKQAQAL.....LQ	PQIAIVGS	RKPSPH 134	
NTDB id 1073 ABD1 RS00865 WP 015451369.1	QQG....AQFEQLVQQVR..QHTDFILT	TPDDSGYPTQLLPYTDHPP	IIFGKQAQAL.....LQ	PQIAIVGS	RKPSPH 134	
NTDB id 1094 KZH42 RS01320 WP 002224767.1	ARQ....AAEAALEWEMR..DGCRL.MLLQ	DEDFPEMLTQGLTAPPVLF	LRGNVQLL.....HK	PSAAIVGS	RHATPQ 131	
NTDB id 1089 NMB RS00600 WP 002224767.1	ARQ....AAEAALEWEMR..DGCRL.MLLQ	DEDFPEMLTQGLTAPPVLF	LRGNVQLL.....HK	PSAAIVGS	RHATPQ 131	
NTDB id 1120 NGFG RS10355 WP 020997408.1	ARQ....AAEAALEWEMR..DGCRL.MLLQ	DEDFPEMLTQGLTAPPVLF	LRGNVRL.....HK	PSAAIVGS	RHATPQ 131	
NTDB id 1122 OK783 RS09595 WP 003705341.1	ARQ....AAEAALEWEMR..DGCRL.MLLQ	DEDFPEMLTQGLTAPPVLF	LRGNVRL.....HK	PSAAIVGS	RHATPQ 131	
NTDB id 1152 A1552VC RS00200 WP 000654772.1	.....QAEQCLQWRSAA..ANNRYIVT	PHCPLYPRLLKEINSSPPVLF	IEGIWEAV.....HD	PAVAIVGS	RNASVD 126
NTDB id 1399 DSB67 RS15600 WP 010645755.1	.....EVDACLTVVAA..SSHHHILT	LADALYPPLLKQTVAPPVLF	VKGEASCL.....PQ	PQIAMVGS	RNASVD 128
NTDB id 120042 CL55 RS10360 WP 046331013.1	.....MRISK..NSNIVQIQRNSPD	YPARLLDLYDPPSSLYIYGD	IRLL.....NI	PTIAIVGS	RIASPE 58
NTDB id 1250 GC085 RS13065 WP 027219989.1	DPD....FIKTDINWLSS..SENHHILT	WDSPYYPALLKETADPPFLY	AKGELSAL.....TQ	PSLAI	VGSRNASVT 125	
consensus	*	*** * * !	! * * ! *** * ! * * *	* * * ! * ! * *		

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NTDB id 1314 DR RS00625 WP 010886768.1
 NTDB id 1037 TT RS09535 WP 011174226.1
 NTDB id 626 LCA RS04960 WP 011374694.1
 NTDB id 114 BSU 16110 NP 389493.1
 NTDB id 599 KW2 RS05940 WP 021037268.1
 NTDB id 407 SMU RS04605 WP 002262865.1
 NTDB id 525 SMSK321 RS06295 WP 000705298.1
 NTDB id 267 KZH43 RS05590 WP 000705306.1
 NTDB id 226 SPD RS05990 WP 000705306.1
 NTDB id 192 SPR RS05715 WP 000705306.1
 NTDB id 157 SP RS06205 WP 000705306.1
 NTDB id 497 SM12261 RS05565 WP 000705318.1
 NTDB id 1361 HI 0985 AAC22646.1
 NTDB id 1388 A4U84 RS04945 WP 062924099.1
 NTDB id 1021 ACIAD RS00975 WP 004930462.1
 NTDB id 1043 HON27 RS16615 WP 168727007.1
 NTDB id 1073 ABD1 RS00865 WP 015451369.1
 NTDB id 1094 KZH42 RS01320 WP 002224767.1
 NTDB id 1089 NMB RS00600 WP 002224767.1
 NTDB id 1120 NGFG RS10355 WP 020997408.1
 NTDB id 1122 OK783 RS09595 WP 003705341.1
 NTDB id 1152 A1552VC RS00200 WP 000654772.1
 NTDB id 1399 DSB67 RS15600 WP 010645755.1
 NTDB id 120042 CL55 RS10360 WP 046331013.1
 NTDB id 1250 GC085 RS13065 WP 027219989.1
 consensus



ALALTRTIAGELAAAGVLIIVSGLARGVDTAHTAALEAASGEASSPTIGVLGSADVVIYPRENHDLAGRMV...VVSE 217
 ALAFARKLARELSEAGLWVVSGLARGIDREAHLEALEA...GGRTLGVLGSALDRVYPENRPLAQRMD...LLSE 178
 SKQSLEQLLQGLT..ATTIISGLAQGADAMAHEVALQRG...LAPIGVIGTGINCSPYQNEHLQQVVAE.KGLLSE 197
 GKQVVNHLTKEICRKGWVIVSGLASGIDGMSHAASIKAK...GRTIGVIAGGFQHTIYPRENLQLADHMAK.HHILLSE 199
 GIKSVQKIVTELN.QSFTIVSGLAKGIDTASHLSAIKTK...TPTIAVIGTGLDIFYPLENRKIQEYLAK.YQLVLE 192
 GVAAVKKIIQDLS.KQFVIISGLARGIDTAAHLASLKSG...GATIAVIGTGLDVHYPKENRRLLQDYIAK.NHLLSE 191
 GAKSVEKIIQGLE.NELVIVSGLAKGIDTAAHMAALQNG...GKTIAVIGTGLDVFPKANKRLQDYISN.DHLVLE 193
 GAKSVEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNG...GKTIAVIGTGLDVFPKANKRLQDYIGN.DHLVLE 193
 GAKSVEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNG...GKTIAVIGTGLDVFPKANKRLQDYIGN.DHLVLE 193
 GAKSVEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNG...GKTIAVIGTGLDVFPKANKRLQDYIGN.DHLVLE 193
 GAKSVEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNG...GKTIAVIGTGLDVFPKANKRLQDYIGN.DHLVLE 193
 GEYWAKEHFATELSLACFTITSGLALGIDGHCHQAVVNIQ...GQTIAVLGSGLQIYPSKHQRLSAQIENNGALVSE 199
 GEHWAGHFSAEVLVKHQLAVTSGLAIGIDGFCHQRAANEN...GITIAVLGSGLDQVYPARHKKLAEEQIVETSGALVSE 198
 GRQVAYDFSYFLSEKGFYITSGLAHGIDEAAHQGSLVH...HRAIAVVGTDGLDLCYPSGNKALKQHIRDQGGAIIVSE 208
 GRQVAYDFAYYLSKGGFFISSGLAYGIDEAAHQGASTH...QRTIAVTGTGLDTPYPAQNKKLAEEHILAKNGAIIITE 208
 GRQVAYDFAYYLSKGGFFISSGLAYGIDEAAHQGASAH...QRTIAVTGTGLDTPYPAQNKKLAEEYILAQNGAIIITE 208
 AMRIAKDFGKSLGGKGIPTVSGMASGIDTAAHQGALQAE...GGTIAVWGTGIDRIYPPVKNLWAYEIAE.KGLIVSE 205
 AMRIAKDFGKSLGGKGIPTVSGMASGIDTAAHQGALQAE...GGTIAVWGTGIDRIYPPVKNLWAYEIAE.KGLIVSE 205
 AMRIAKDFGRALGGKGIPTVSGMASGIDTAAHQGALEAE...GGTIAVWGTGIDRIYPPANKNLWAYEIAE.KGLIVSE 205
 AMRIAKDFGRALGGKGIPTVSGMASGIDTAAHQGALEAE...GGTIAVWGTGIDRIYPPANKNLWAYEIAE.KGLIVSE 205
 GRQIARQFATELAQSGLVVTSGLALGIDGYAHDGALQAQ...GQTVAVLGSGLAQVYPKQHQGLAERIIA.QGALVSE 200
 GLQHTRTFASDLVQHDLIVTSGLALGIDGHADHGALLAG...GKTIAVLGSGLQVYPARHRGLAQRVAE.NGALVSE 202
 GVKNAHYFAQALSAEGYLIISGLARGIDGAHLGALGSN...QDHPTIAVCGTGLDIVPREHLGLAQAIG.VGLLSE 134
 GNENARAFSREISRHGVSIVSGLALGIDAHHLGCLGG...GKTIAVLGTGIDCIYPRRHLKLAEEQITE.NGLLSE 199

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NTDB id 1314 DR RS00625 WP 010886768.1	LSIPEIQTALVMLQLQGLAYEV.GGRWSR....	370
NTDB id 1037 TT RS09535 WP 011174226.1	IPPERVLSLTLLELKGLARALPGGRYGP... ..	334
NTDB id 626 LCA RS04960 WP 011374694.1	.....	288
NTDB id 114 BSU 16110 NP 389493.1	.....	297
NTDB id 599 KW2 RS05940 WP 021037268.1	.....	282
NTDB id 407 SMU RS04605 WP 002262865.1	.....	280
NTDB id 525 SMSK321 RS06295 WP 000705298.1	.....	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	.....	282
NTDB id 226 SPD RS05990 WP 000705306.1	.....	282
NTDB id 192 SPR RS05715 WP 000705306.1	.....	282
NTDB id 157 SP RS06205 WP 000705306.1	.....	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	.....	282
NTDB id 1361 HI 0985 AAC22646.1	LSVDVLLVQLLDLELQDLIISENGLYKRV....	373
NTDB id 1388 A4U84 RS04945 WP 062924099.1	MAVETALIELLNLELLGVVKQVRGGYVIT....	375
NTDB id 1021 ACIAD RS00975 WP 004930462.1	GSTAEITTAQLMELELLGVCIQQSGRYLRCRSPY	383
NTDB id 1043 HON27 RS16615 WP 168727007.1	IPVSELTSSLMELELLGLCMQQSGLYLRCRS..	376
NTDB id 1073 ABD1 RS00865 WP 015451369.1	IPVSELTSSLMELELLGLCMQQSGLYLRCRS..	376
NTDB id 1094 KZH42 RS01320 WP 002224767.1	MPAADLYAALLELELDGSVAAMPGGRYQRIRT.	397
NTDB id 1089 NMB RS00600 WP 002224767.1	MPAADLYAALLELELDGSVAAMPGGRYQRIRT.	397
NTDB id 1120 NGFG RS10355 WP 020997408.1	MPAADLYAALLELELDGSVAAMPGGRYQRIRT.	395
NTDB id 1122 OK783 RS09595 WP 003705341.1	MPAADLYAALLELELDGSVAAMPGGRYQRIRT.	395
NTDB id 1152 A1552VC RS00200 WP 000654772.1	IPVQDITMMQLLELELLGHVVAVPGGYIRKGRG.	371
NTDB id 1399 DSB67 RS15600 WP 010645755.1	IPVQEVMMQLLELELSGHVVAVSGGYIRKGRG.	369
NTDB id 120042 CL55 RS10360 WP 046331013.1	.....	232
NTDB id 1250 GC085 RS13065 WP 027219989.1	YGMEQVTSGLAELELKGAIVAVPGGYIRCEYER	361
consensus	* * * * *	

- X non conserved
- X similar
- X ≥ 50% conserved