

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERD	KALADALALIEKD	FGKGSIMRLGER	.ANQKVS	VSSGSLALDIALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGAERE	KALNDALKLI EKDFGKGS	IMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR	73		
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGAERE	KALNDALKLI EKDFGKGS	IMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR	73		
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEISKKFGAERE	KALNDALKLI EKDFGKGS	IMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR	73		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK...PKKLEEISKKFGAERE	KALNDALKLI EKDFGKGS	IMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR	73		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK...PKKLDEISKKFGAERE	KALNDALKLI EKDFGKGS	IMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR	73		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEISKKFGAERE	KALNDALKLI EKDFGKGS	IMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR	73		
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFGR	DERRKALDDALKNIEKDFGKGA	VMLRGER	.AEQKVQVMSSGSLALDIALGAGGYPKGR	73		
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFGR	DERRKALDDALKNIEKDFGKGA	VMLRGER	.AEQKVQVMSSGSLALDIALGAGGYPKGR	73		
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQ	FGKGSIMKLGEK	.TDTRI	STVPSGSLALDIALGIGGYPRGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQV	STVSSGSLALDEALGVGGYPRGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERS	SKATETAMSGIEKAFGKGS	IMKLGA	.SKLDVQVVSTGSLSLDIALGVGCI PRGR	72	
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLEKTF	FGKGTILRLGDK	.EVEQ	IDSITGTSVGLDIALGIGGVPKGR	59	
NTDB id 114221 HPOKI673 RS00800 WP 000963131.1	.....MAIDEDKQKALSLAIEKID	KVFGKCALVRLGDK	.QVEK	IDSISTGSLGLDIALGIGGVPKGR	61	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKALSLAIEKID	KVFGKCALVRLGDK	.QVEK	IDSISTGSLGLDIALGIGGVPKGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKALSLAIEKID	KVFGKCALVRLGDK	.QVEK	IDSISTGSLGLDIALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT..ETTSPNDKKKALAA	VLEKLDKTYGKGTVMKLC	GD	TVDHNIEVIPS	GSLGLDIALGVGGYPKGR	68	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPE	QKKQALEAALAQIEKQ	FGKGSIMKL	GQT.EQLDIESVSTGSLGLDIALGIGGLPMGR	76		
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQQEENLEVI	STGSLGLDIALGVGGLPRGR	60		
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQQEENLEVI	STGSLGLDIALGVGGLPRGR	60		
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQQEENLEVI	STGSLGLDIALGVGGLPRGR	60		
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQ	KALAAALAQIEKQ	FGKGSIMKMDA	.EVEPVQVVSTGSLGLDIALGVGGLPRGR	68		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETI	STGSLSLDIALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETI	STGSLSLDIALGAGGLPMGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAV	STGSLTLDIALGIGGLPKGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAV	STGSLTLDIALGIGGLPKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQAIP	STGSLGLDIALGIGGLPKGR	59		
consensus	*** **	* **	***!	*!!**	*****	*	***!***!!*!!!*!!!*!!!

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NTDB id 600 KW2 RS01765 WP 011675413.1	VV	I	D	S	V	A	A	L	V	P	K	A	E	I	D	G	E	I	G	D	S	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	A	G	H	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	233			
NTDB id 269 KZH43 RS08665 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232	
NTDB id 228 SPD RS09265 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232	
NTDB id 194 SPR RS08825 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232	
NTDB id 159 SP RS09750 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232	
NTDB id 499 SM12261 RS08315 WP 078228268.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232	
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NTDB id 453 Spy49 1753c ACI62003.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232	
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NTDB id 115 BSU 16940 NP 389576.2	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	A	I	N	K	S	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	217
NTDB id 625 LCA RS02525 WP 011374196.1	L	V	V	D	S	V	A	A	L	V	P	R	A	E	I	E	G	E	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	T	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	V	T	P	G	G	R	A	L	K	F	Y	S	219
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NTDB id 1245 Cj1673c YP 002345041.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	I	V	H	K	M	N	T	T	V	I	F	I	N	Q	L	R	M	K	I	G	A	M	G	Y	G	T	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	219
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NTDB id 1211 C694 RS00795 WP 000963128.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	H	A	L	R	K	I	T	G	V	L	H	K	M	N	T	T	L	V	F	I	N	Q	L	R	M	K	I	G	M	G	Y	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	221	
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	I	I	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	A	N	I	K	N	T	N	C	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	235
NTDB id 1130 NGFG RS03960 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	S	219
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NTDB id 1123 OK783 RS03845 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	S	219
NTDB id 1427 RS RS02760 WP 011000510.1	I	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	E	M	G	D	A	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	T	I	K	R	T	N	C	L	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	227
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	N	A	K	R	S	N	C	M	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	218
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NTDB id 1205 PSJM300 05545 AFN77183.1	I	I	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	E	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q																																																

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NTDB id 269 KZH43 RS08665 WP 001085462.1      IEE 388
NTDB id 228 SPD RS09265 WP 001085462.1      IEE 388
NTDB id 194 SPR RS08825 WP 001085462.1      IEE 388
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consensus
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 non conserved
 similar
 ≥ 50% conserved