

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATK... .KKTNFDDITKKYGA	ERDKALADALALIEKDFGKGSIMRLG	EA	ANQKVS	VSSGSLALDIALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK... .KPKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VSSGSLALDIALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK... .KPKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VSSGSLALDIALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK... .KPKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VSSGSLALDIALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAK... .KPKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VSSGSLALDIALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK... .KPKKLDEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VSSGSLALDIALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK... .KPKKLDEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQKVQ	VSSGSLALDIALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAK... .KLKKNEEITKKFGD	ERRKALDDALKNIEKDFGKGA	AVMRLG	AEQKVQ	VSSGSLALDIALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK... .RIKKTEEITKKFGD	ERRKALDDALKNIEKDFGKGA	AVMRLG	AEQKVQ	VSSGSLALDIALGAGGYPKGR	73	
NTDB id 625 LCA RS02525 WP 011374196.1	..... .MAKD	ERQAALDAALKKIEKNFGKGSIMRM	GEEK	VDTQV	VSTVSSGSLALDEALGVGGYP	60
NTDB id 1144818 BN8422 RS06730 WP 000368166.1	..... .MDN	DRQKALDTVTKNMEKSFSGKGA	VMKLGDN	IGRRV	STTSTGSVTLDNALGVGGYPKGR	59
NTDB id 115 BSU 16940 NP 389576.2	..... .MS	DRQAALDMALKQIEKQFGKGSIM	KLGEK	TDTR	ISTVPSGSLALDTALGIGGYP	58
NTDB id 1313 DR RS12030 WP 010888966.1	..... .MSKDATKEISAPTD	AKERSKATETAMSQIEKAFGKGS	IMKLGAE	SKLD	VQVSTGSLSLDLALGVGGIP	72
NTDB id 1245 Cj1673c YP 002345041.1	..... .MDDN	KRKSLSLDAALKSLDKTFGKGT	IILRLGDK	EVEQ	IDSIGTGSVGLDLALGIGGVP	59
NTDB id 1211 C694 RS00795 WP 000963128.1	..... .MAIDE	DKQKAIISLAIKQIDKVFSGKGA	LVRLGDK	QVEK	IDSISTGSLGLDLALGIGGVP	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	..... .MAIDE	DKQKAIISLAIKQIDKVFSGKGA	LVRLGDK	QVEK	IDAISTGSLGLDLALGIGGVP	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	..... .MAKT	..ETTSPNDKSKALAAVLEKLD	KTYGKGTVMKLG	GTVDHN	IEVIPSGSLGLDLALGVGGYP	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV..VKQVEPEQKKQALEA	ALAQIEKQFGKGSIMKLG	QT	EQLDIESVSTGSLGLDLALGIG	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	..... .MSD	DKSKALAAALAQIEKSFSGKGA	IMKMDGSQ	QEEN	LEVISTGSLGLDLALGVGGLP	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	..... .MSD	DKSKALAAALAQIEKSFSGKGA	IMKMDGSQ	QEEN	LEVISTGSLGLDLALGVGGLP	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	..... .MSD	DKSKALAAALAQIEKSFSGKGA	IMKMDGSQ	QEEN	LEVISTGSLGLDLALGVGGLP	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG... .K..KAASMSA	EKQKALAAALAQIEKQFGKGS	IMKMGDA	EVEPV	VQVSTGSLGLDVALGVGGLP	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	..... .MDEN	KQKALAAALGQIEKQFGKGS	IMRLGDN	RAMD	VETISTGSLSLDIALGAGGLP	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	..... .MDEN	KQKALAAALGQIEKQFGKGS	IMRLGDN	RAMD	VETISTGSLSLDIALGAGGLP	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	..... .MDDN	KSKALQAALSQIEKQFGKNT	VMRLGDN	TVQAVE	AVSTGSLTLDIALGIGGLP	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	..... .MDEN	KSKALQAALSQIEKQFGKNT	VMRLGDN	TVQAVE	AVSTGSLTLDIALGIGGLP	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDEN	KKRALAAALGQIEKQFGKGA	VMRMGDH	DRQA	IPSI	ISTGSLGLDIALGIGGLP	59
consensus		* * * * *	* * * * *	* * * * *	* * * * *		

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NTDB id 600 KW2 RS01765 WP 011675413.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	F	I	D	A	E	N	A	L	D	P	E	Y	A	K	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	Y	G	E	Q	G	L	I	A	E	K	L	I	T	S	G	A	V	D	I	154				
NTDB id 269 KZH43 RS08665 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	A	Q	K	E	G	G	I	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	I	153		
NTDB id 228 SPD RS09265 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	A	Q	K	E	G	G	I	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	I	153		
NTDB id 194 SPR RS08825 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	A	Q	K	E	G	G	I	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	I	153		
NTDB id 159 SP RS09750 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	A	Q	K	E	G	G	I	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	I	153		
NTDB id 499 SM12261 RS08315 WP 078228268.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	A	Q	K	E	G	G	I	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	I	153		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	A	Q	K	E	G	G	I	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	I	153		
NTDB id 453 Spy49 1753c ACI62003.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	A	Q	K	E	G	G	I	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	A	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	I	153		
NTDB id 408 SMU RS09530 WP 002262392.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	A	Q	K	D	G	G	I	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	I	153		
NTDB id 625 LCA RS02525 WP 011374196.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	E	V	Q	K	Q	G	G	T	A	A	Y	I	D	A	E	N	A	M	D	P	K	Y	A	T	A	L	G	V	N	I	D	D	L	L	S	Q	P	D	T	G	E	Q	G	L	E	I	A	D	A	L	V	S	S	G	A	V	D	I	140		
NTDB id 1144818 BN8422 RS06730 WP 000368166.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	I	A	E	V	Q	S	N	G	G	V	A	A	F	I	D	A	E	H	A	L	D	P	E	Y	A	Q	A	L	G	V	D	I	D	N	L	Y	L	S	Q	P	D	H	G	E	Q	G	L	E	I	A	E	A	F	V	R	S	G	A	V	D	I	139	
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NTDB id 1313 DR RS12030 WP 010888966.1	I	T	E	I	Y	G	P	E	S	S	G	K	T	T	L	A	L	A	I	V	A	Q	A	Q	K	A	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	R	A	L	G	V	N	T	D	E	L	L	V	S	Q	P	D	N	G	E	Q	A	L	E	I	M	E	L	L	V	R	S	G	A	V	D	I	152	
NTDB id 1245 Cj1673c YP 002345041.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	H	I	I	A	E	C	Q	K	A	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	K	Y	A	K	N	L	G	V	N	T	D	D	L	Y	V	S	Q	P	D	F	G	E	Q	A	L	E	I	V	E	T	I	A	R	S	G	A	V	D	I	139	
NTDB id 1211 C694 RS00795 WP 000963128.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	L	S	L	H	I	I	A	E	C	Q	K	N	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	H	Y	A	K	R	L	G	V	D	T	E	N	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	L	E	T	I	T	R	S	G	G	I	D	L	141	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	L	S	L	H	I	I	A	E	C	Q	K	N	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	H	Y	A	K	R	L	G	V	D	T	E	N	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	L	E	T	I	T	R	S	G	G	I	D	L	141	
NTDB id 1334 RAOC RS04870 WP 004918236.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	H	A	I	A	E	A	Q	K	V	G	G	T	A	A	F	I	D	A	E	H	A	L	D	F	M	H	Y	A	E	K	L	G	I	N	L	E	E	L	I	V	S	Q	P	D	N	G	E	Q	A	L	E	I	A	D	S	L	T	R	S	G	G	V	D	I	148
NTDB id 1389 A4U84 RS07560 WP 021112712.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	S	L	I	A	Q	A	Q	K	G	N	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	R	N	L	G	V	N	T	D	E	L	L	S	Q	P	D	N	G	E	Q	A	L	E	I	C	D	A	L	V	R	S	G	A	V	D	I	156		
NTDB id 1130 NGFG RS03960 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	Q	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	G	I	D	M	140	
NTDB id 1124 NGFG RS03960 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	Q	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	G	I	D	M	140	
NTDB id 1123 OK783 RS03845 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	Q	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	G	I	D	M	140	
NTDB id 1427 RS RS02760 WP 011000510.1	V	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	Q	V	V	A	E	M	Q	K	L	G	G	T	C	A	F	I	D	A	E	H	A	L	D	V	T	Y	A	D	K	L	G	V	K	V	P	D	L	I	S	Q	P	D	T	G	E	Q	A	L	E	I	A	D	A	L	V	R	S	G	S	V	D	I	148		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	T	L	E	L	I	A	A	A	Q	R	E	G	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	L	G	V	N	I	D	E	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	A	L	A	R	S	G	A	V	D	I	139		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	T	L	E	L	I	A	A	A	Q	R	E	G	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	L	G	V	N	I	D	E	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	A	L	A	R	S	G	A	V	D	I	139		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	M	T	L	Q	A	I	A	Q	C	Q	K	A	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	Q	Y	A	R	K	L	G	V	D	I	D	N	L	L	V	S	Q	P	D	H	G	E	Q	A	L	E	I	A	D	M	L	V	R	S	G	A	I	D	L	139	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	M	T	L	Q	A	I	A	Q	C	Q	K	S	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	Q	Y	A	R	K	L	G	V	D	I	D	N	L	L	V	S	Q	P	D	N	G	E	Q	A	L	E	I	A	D	M	L	V	R	S	G	A	I	D	L	139	
NTDB id 1205 PSJM300 05545 AFN77183.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	S	V	I	A	A	A	Q	R	M	G	S	T	C	A	F	V	D	A	E	H	A	L	D	P	D	Y	A	G	K																																				

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NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 NTDB id 159 SP RS09750 WP 001085462.1
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 NTDB id 527 SMSK321 RS11065 WP 001085454.1
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 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 1144818 BN8422 RS06730 WP 000368166.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
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 NTDB id 1389 A4U84 RS07560 WP 021112712.1
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 NTDB id 1123 OK783 RS03845 WP 003688695.1
 NTDB id 1427 RS RS02760 WP 011000510.1
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 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1205 PSJM300 05545 AFN77183.1

consensus



DEKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTASHTKAKAKKEEKAVETEEIELELED... 387
 DEKIGQGSENAkkYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE 385
 DEKIGQGSENAkkYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE 385
 DEKIGQGSENAkkYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE 385
 DEKIGQGSENAkkYLAHNPEIFDEIDHQVVRVQFGLIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIE 381
 DEKIGQGSENAkkYLAHNPEVFAEIDHQVVRVQFGLIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIE 381
 GEKIGQGSENAKRYLADHPQLFDEIDRKRVRKFGLEESEESAMAVASE.....E.....TDDLALDLNGIEIE 377
 GEKIGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE 382
 SERIGQGRENAKNYLADHEDVEDEVRLKVRRAAYGISDVPEEDLPTTEDEQINILPDDSTEE..... 355
 GERMGQKGENVKMYLKENPQIKKEIDRKLREKLGISDGDVEETEDA...PKSLFDEE..... 347
 EERLGGGRENAKQFLKENKDIMLMIQEIQREHYGLDNNGVVQQAEETQEELEFEE..... 348
 DERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAPEAAEA..... 363
 DKKLGGGRENKAFLENPEIADIEITKAIQNSMGIEGMI...SGSEDD..EGEE..... 343
 DKKLGGGRENKALLKEDKALADEITLKIKESIGSNEEI...MPLPDE..PLEEME..... 347
 DKKLGGGRENKALLKEDKALADEITLKIKESIGSNEEI...MPLPDE..PLEEME..... 347
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 GAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGTQDETGER.....PEE..... 348
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 GDKIGQKXANACKYLKENPEIAKTLDKKLREMLLNPNEM...QLIAETSSAADDVE..FGAVPEEF..... 354
 GNKIGQKXNNVIRYLEENPQISTEIEAVIREQLLTKASD...QTAA.HDETEEPPD..LL..ES..... 349
 GNKIGQKXNNVIRYFEENNQIAEIEIERNIREQLLTTGTN...GAVQ.I.EDEEPPD..LL..LES..... 349
 GSKIGQKXANAKYLEENPEIGQIEIQIRAKLLVTSAN...TKATPVAEDLADAD..I..... 347

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
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consensus

 non conserved
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 ≥50% conserved