

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGA	ERDKALADALALIEKDFGKGSIMRLG	EA	ANQK	VS	VSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQK	VQMSSGSLALDIALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQK	VQMSSGSLALDIALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQK	VQMSSGSLALDIALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK...PKKLEEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQK	VQMSSGSLALDIALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK...PKKLDEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQK	VQMSSGSLALDIALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEISKKFGA	EREKALNDALKLEKDFGKGSIMRLG	ER	AEQK	VQMSSGSLALDIALGSGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFGD	ERRKALDDALKNIEKDFGKGAVMRLG	ER	AEQK	VQMSSGSLALDIALGAGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFGD	ERRKALDDALKNIEKDFGKGAVMRLG	ER	AEQK	VQMSSGSLALDIALGAGGYPKGR	73	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD	ERQAALDAALKKIEKNFGKGSIMRMGEK	ER	VDTQ	VSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 215250 AJGP001 RS11080 WP 058384973.1	.....MS	DRKAALDMALKQIEKQFGKGSVMKLGEK	ER	TDRN	ISSVSSGSLALDTALGIGGYPRGR	58
NTDB id 115 BSU 16940 NP 389576.2	.....MS	DRQAALDMALKQIEKQFGKGSIMKLGEK	ER	TDTR	ISTVPSGSLALDTALGIGGYPRGR	58
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	AKERSKATETAMSQIEKAFGKGSIMKLGAE	ER	SKLD	VQVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN	KRKSLSLDAALKSLDKTFGKGTILRLGDK	ER	EVEQ	IDSIGTGSVGLDLALGIGGVPRGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDE	DKQKAIISLAIKQIDKVFGKCALVRLGDK	ER	QVEK	IDAISTGSLGLDLALGIGGVPRGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDE	DKQKAIISLAIKQIDKVFGKCALVRLGDK	ER	QVEK	IDSISTGSLGLDLALGIGGVPRGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT	..ETTSPNDKKKALAAVLEKLDKTYGKGTVMKLG	ER	GTVD	HNIETVPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV	..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT	ER	EQLD	IESVSTGSLGLDLALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAQIEKSFGKGAIMKMDGSQEQEN	ER	LEV	ISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAQIEKSFGKGAIMKMDGSQEQEN	ER	LEV	ISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD	DKSKALAAALAQIEKSFGKGAIMKMDGSQEQEN	ER	LEV	ISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K	..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA	ER	EVEP	VQVSTGSLGLDVALGVGGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN	KKALAAALGQIEKQFGKGSIMRLGDN	ER	RAMD	VETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN	KKALAAALGQIEKQFGKGSIMRLGDN	ER	RAMD	VETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDN	KSKALQAALSQIEKQFGKNTVMRLGDN	ER	TVQA	VEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDEN	KSKALQAALSQIEKQFGKNTVMRLGDN	ER	TVQA	VEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDEN	KKRALAAALGQIEKQFGKGAVMRMGDH	ER	DRQA	IPSISTGSLGLDIALGIGGLPKGR	59
consensus		* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	

logo

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
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 215250 AJGP001 RS11080 WP 058384973.1
 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 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
 NTDB id 1124 NGFG RS03960 WP 003688695.1
 NTDB id 1123 OK783 RS03845 WP 003688695.1
 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 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



DEKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEETASKTKAKAKKEEKAVETEEIELELED... 387
 DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE 385
 DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE 385
 DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE 385
 DEKIGQGSENAKKYLAADNPEIFDEIDHQVVRVQFGLIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIE 381
 DEKIGQGSENAKKYLAADNPEVFAEIDHQVVRVQFGLIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIE 381
 GEKIGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE 382
 GEKIGQGSENAKRYLADHPQLFDEIDRKRVRKFGLEESEESAMAVASE.....E.....TDDLALDLDNIGIEIE 377
 SERIGQGRENAKXNYLADHEDVEDEVRLKVRVRAAYGISDVPEEDLPTT.EDEQI.....NILPDDSTE.. 354
 EERIGQGRENVKQFLKKNPEIRNEISNKKIRESSGMEAATYTIAGNKDТАEDF.....NLLMEDDSSG 355
 EERLGGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQAEETQEEL.....EFEE..... 348
 DERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAPEAAE..A..... 363
 DKKLGGRENSKAFLENPEIAD EITKAIQNSMGI EGM I...SGSEDD..EGE..E..... 343
 DKKLGGRENAKALLKEDKALADEITLKIKESIGSNEEI...MPLPDE..PLE..EM.....E..... 347
 DKKLGGRENAKALLKEDKALADEITLKIKESIGSNEEI...MPLPDE..PLE..EM.....E..... 347
 DTKLGGGRDTRVKELEIKDNPELAEELEAKIREKLQAK..... 343
 GTKIGQGXNNAVKWLKENPEIADKLEQEI RNTLASNPNS...VLKATASDSND..ES.....DVEEFSEEL... 372
 GAKIGQKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGTQDETGE..R.....PEE..... 348
 GAKIGQKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGTQDETGE..R.....PEE..... 348
 GAKIGQKDNVVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGTQDETGE..R.....PEE..... 348
 GERIGQGRDNCREFLRENAELAREIENKVRHGLVTPMG...AVTLA.EEVEE..D..... 352
 GDKIGQGANACKYLYKENPEIAKTLDKKLREMLLNPNEM...QLIAETSSAAD..DV.....EFGAVPEEF... 354
 GDKIGQGANACKYLYKENPEIAKTLDKKLREMLLNPNEM...QLIAETSSAAD..DV.....EFGAVPEEF... 354
 GNKIGQGXNNVIRYLEENPQISTEIEAVIREQLLTKASD...QTAA.HDETEE..EP.....DLL..ES..... 349
 GNKIGQGXNNVIRYFEENNQIAEIEIERNIREQLLTTGTN...GAVQ..I.EDEE..EP.....DLL..LES..... 349
 GSKIGQGANAAKYLEENPEIGQEIEQQIRAKLLVTSAN...TKATPVAEDLA..DA.....DI..... 347

consensus

!!!*** ** ***** ***** ** *

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
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
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 625 LCA RS02525 WP 011374196.1	E..	355
NTDB id 215250 AJGP001 RS11080 WP 058384973.1	K..	356
NTDB id 115 BSU 16940 NP 389576.2	...	348
NTDB id 1313 DR RS12030 WP 010888966.1	...	363
NTDB id 1245 Cj1673c YP 002345041.1	...	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	...	347
NTDB id 1211 C694 RS00795 WP 000963128.1	...	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	...	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	...	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	...	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	...	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	...	348
NTDB id 1427 RS RS02760 WP 011000510.1	...	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	...	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved
 similar
 ≥ 50% conserved