

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKKT....NFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK....KLEEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKPK....KLDEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKPK....KLDEISKKFGA	EREKALNDALKLEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKLK....KNEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRIK....KTEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQFGKGSIMKLG	IEK.TDTRISTVPSGSLALDI	TALGIGGYPKGR	58		
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQVSTVSSGSLALDEALGVGGYPKGR	60			
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	AKERSKATETAM	IEKAFGKGSIMKLGAE	.SKLDVQVVSTGSLSLDLALGVGGIPKGR	72		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTVV..KQVEPEQ	KKQALEAALAEKQ	FGKGSIMKLGQT	.EQLDIESVSTGSLGLDLALGIGGLPMGR	76		
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAEK	IEKSF	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDLALGVGGLPKGR	60		
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAEK	IEKSF	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDLALGVGGLPKGR	60		
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAEK	IEKSF	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDLALGVGGLPKGR	60		
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KK..AASMSA	EKKALAAALAEKQ	FGKGSIMKMGDA	.EVEPVQVVSTGSLGLDLALGVGGLPKGR	68		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQFGKGSIMRLG	DN.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQFGKGSIMRLG	DN.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQ	IEKQFGKNTVMRLG	DN.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQ	IEKQFGKNTVMRLG	DN.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59		
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKKRALAAALGQ	IEKQFGKGAVMRMGDH	.DRQAIPSI	STGSLGLDI	ALGIGGLPKGR	59	
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKS	LDKTFGKGTILRLG	DKQV.EQIDSIGTGSVGLDL	ALGIGGVPKGR	59		
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQ	IDKVF	FGKGAIVRLGDKQV	.EKIDSI	STGSLGLDLALGIGGVPKGR	61	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQ	IDKVF	FGKGAIVRLGDKQV	.EKIDSI	STGSLGLDLALGIGGVPKGR	61	
NTDB id 171997 AY601 RS23990 WP 183868471.1	.....MIPNDKLLKALQLTLDK	LEKSYGKGAVMKLG	DTPT.ESI	ESTGSLTLDI	ALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTE..TTSPND	DKKALAAVLEKLDKTYGKGTVMKLG	DTVDHNI	IEVIPS	GSLGLDLALGVGGYPKGR	68	
consensus		** **	**	**!	*****	*	***!!*!!*!!*!!*!!*!!*!!*!!





logo



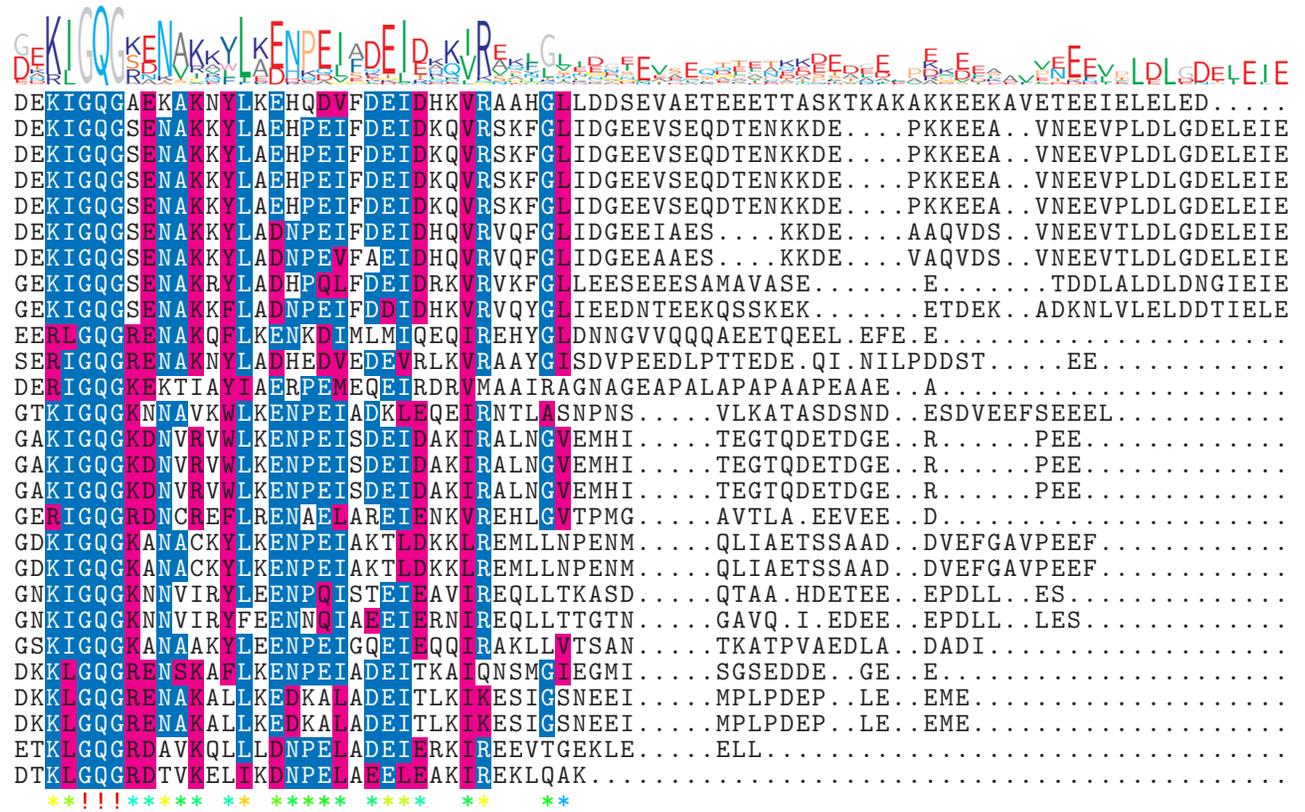
NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	IKKSGAWFAYN	312
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSIGKETKIKVVKNKVAPPFKVAEVEIMYEGISRTGELVKIASDLGI	IQKAGAWFSYN	311
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIIMYGEGISRTGELVKIASDLGI	IQKAGAWYSYN	311
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEITDLGTELDIV	QKSGSWYSYE	292
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDI	INKSGSWYSYG	294
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQP.....TKVGNDAVANTVKIKTKVKNKVAAPFKEVELALVYGGKGFQDLSDLVGLAADM	DIKKAGSFYSYG	307
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGVV.....KDGDEIIGSETKVVVKNKVAPPFREVQFDIMYGEGISRMNELLILAEANGFI	IKKSGAWFSYD	310
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGSI.....KKGEEVLGNETRIVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDI	INKSGAWYSYN	294
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGSI.....KKGEEVLGNETRIVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDI	INKSGAWYSYN	294
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGSI.....KKGEEVLGNETRIVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDI	INKSGAWYSYN	294
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGSI.....KKGDEVVGNETKVVVKNKVAPPFREAIFDILYAGAGVSREGEITDLGVEAKV	VEKSGAWYSYN	302
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGAI.....KEGEEVLGNETRIVKVIKNKVAPPFRQAEFDIMYGGGFNREGELIDLGVKHKM	VEKSGAWYSYN	293
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGAI.....KEGEEVLGNETRIVKVIKNKVAPPFRQAEFDIMYGGGFNREGELIDLGVKHKM	VEKSGAWYSYN	293
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQV.....KEGDEIIGSETKVVVKNKMAPPFREAIFQILYGGKVNQLGELVDLAVQQNIV	QKAGAWYSYQ	293
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQV.....KEGDEIIGSETKVVVKNKMAPPFKEAIFQILYGGKGTNQLGELVDLAVQQD	IVQKAGAWYSYQ	293
NTDB id 1205	PSJM300	O5545	AFN77183.1	SVRLDIRRTGAV.....KEGDEVVGSSETRVKKVKNKVAPPFRQAEFQILYGGKIYRNGEITDLGVQQG	LVEKSGAWYAYK	293
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVATL.....KQNEEPIGNRVKVVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIV	DKSGAWFSYK	294
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIASL.....KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEITDYGVKLDIV	DKSGAWLSYQ	296
NTDB id 1214	NCTC11637	O0359	SQJ03206.1	SVRIDIRRIASL.....KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEITDYGVKLDIV	DKSGAWLSYQ	296
NTDB id 171997	AY601	RS23990	WP 183868471.1	SVRLDIRRTSQI.....KDADEVSGNRVKKVIKVNKVAPPFRIAEFDIMFGGQISKVGEITDLGVDFNIV	KKAGSWFSYG	295
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRSLSLSDTGKIKDKSGEVLGNRTKVVVKNKVAPPFKSAEFDIMYGGVSKVGEILDVATDLDI	IQKSGSWFSYQ	307

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 453 Spy49 1753c ACI62003.1  
 NTDB id 408 SMU RS09530 WP 002262392.1  
 NTDB id 115 BSU 16940 NP 389576.2  
 NTDB id 625 LCA RS02525 WP 011374196.1  
 NTDB id 1313 DR RS12030 WP 010888966.1  
 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  
 NTDB id 1245 Cj1673c YP 002345041.1  
 NTDB id 1211 C694 RS00795 WP 000963128.1  
 NTDB id 1214 NCTC11637 00359 SQJ03206.1  
 NTDB id 171997 AY601 RS23990 WP 183868471.1  
 NTDB id 1334 RAOC RS04870 WP 004918236.1  
 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 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 115 BSU 16940 NP 389576.2	...	348
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
NTDB id 1313 DR RS12030 WP 010888966.1	...	363
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
NTDB id 1245 Cj1673c YP 002345041.1	...	343
NTDB id 1211 C694 RS00795 WP 000963128.1	...	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	...	347
NTDB id 171997 AY601 RS23990 WP 183868471.1	...	337
NTDB id 1334 RAOC RS04870 WP 004918236.1	...	343

consensus

 non conserved  
 similar  
 ≥ 50% conserved