

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGHA.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKGIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSGIEKAFGKGSIMKLGAE.SKLDVQVSTGSLSLDIALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDIALGIGGYPRGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLATKQIDKVFHGKALVRLGDK.QVEKIDASTGSLGLDIALGIGGYPRGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLATKQIDKVFHGKALVRLGDK.QVEKIDASTGSLGLDIALGIGGYPRGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNEVIPSGLGLDIALGVGGYPRGR	68
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQEENLEVIESTGSLGLDIALGVGGIPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQEENLEVIESTGSLGLDIALGVGGIPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFHGKAIMKMDGSQQEENLEVIESTGSLGLDIALGVGGIPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.....MEDGK..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVSTGSLGLDIALGVGGIPRGR	68
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSGIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSGIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKFRALAAALGGIEKQFGKAVMRMGDH.DRQAIPSTGSLGLDIALGIGGLPKGR	59
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV..VKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDIALGIGGLPMGR	76
NTDB id 1142415 DQL67 RS07595 WP 005724816.1	.....MATKEEKNKALAAALGGIEKQFGKGSIMKLGDT.QALDVEAVSTGSLSLDIALGIGGLPMGR	61
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGGIEKQFGKGSIMRLGDN.RAMDVETIESTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGGIEKQFGKGSIMRLGDN.RAMDVETIESTGSLSLDIALGAGGLPMGR	59
consensus	*** ** * ** ! * ! ! * * * * * * * * * * * * * * ! ! ! ! ! * ! !	

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IKITKIKVVKNKVAPPFKVALVDIMF	GEGISSTGELLNIAVEEGTIKKSGAWFAYN	312				
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKEITNVGKETKIKVVKNKVAPPFK	AVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311					
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKEITNVGKETKIKVVKNKVAPPFK	AVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311					
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKEITNVGKETKIKVVKNKVAPPFK	AVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311					
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKEITNVGKETKIKVVKNKVAPPFK	AVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311					
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTNVGKETKIKVVKNKVAPPFK	AFVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311					
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTNVGKETKIKVVKNKVAPPFK	AFVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311					
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRG	TQIKGTG	.EQKDSSTIKKETKIKVVKNKVAPPFK	VAEVEIMYGEGISRTGELVKIASDLDIQKAGAWFSYN	311					
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSSTIKKETKIKVVKNKVAPPFK	AFVEIMYGEGISRTGELVKIASDLDIQKAGAWFSYN	311					
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN	.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGETIDLGTELDIVQKSGSWYSYE	292						
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT	.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGIGISRTGELVDMAVEKDIINKSGSWYSYG	294						
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIG	....QPTKVGNDAVANTVKTIKTVKNKVAAPPKAEVELALVYCKGFDQLSDLVGLAADMDIKKAGSFFYSYG	307						
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVA	....TL.KQNEEPIGNRVKIKVVKNKVAPPFRQA	EFDVIMFGEGISREGEIDYGVKLDIVDKSGAWFSYK	294					
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIA	....AL.KQNEQHIGNRAKIKVVKNKVAPPFR	EAEFDIMFGEGISKEGETIDYGVKLDIVDKSGAWLSYQ	296					
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIA	....SL.KQNEQHIGNRAKIKVVKNKVAPPFR	EAEFDIMFGEGISKEGETIDYGVKLDIVDKSGAWLSYQ	296					
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTG	IKDKSGEVLGNRTKIKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIQKSGSWFSYQ	307							
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTG	....SI.KKGEVVLGNETRIVKVIKKNVAPPFRQA	EFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYN	294					
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTG	....SI.KKGEVVLGNETRIVKVIKKNVAPPFRQA	EFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYN	294					
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTG	....SI.KKGEVVLGNETRIVKVIKKNVAPPFRQA	EFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYN	294					
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIG	....SI.KKGEVVLGNETKIKVVKNKVAPPFR	EALFDILYGACVSEGETIDLGVKVEAKVVEKSGAWYSYN	302					
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIG	....QV.KEGDEIVGSETKIKVVKNKMAPPFRE	AIFQILYCKGVNQLGELVDLAVQQNIVQKAGAWYSYQ	293					
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIG	....QV.KEGDEIVGSETKIKVVKNKMAPPFK	EALFQILYCKGVNQLGELVDLAVQQDIVQKAGAWYSYQ	293					
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTG	....AV.KEGDEVVGSETRIVKVVKNKVAPPFRQA	EFDILYCKGIYRNGEIDLGVQQGLVEKSGAWYAYK	293					
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCG	....VV.KDGDEIVGSETKIKVVKNKVAPPFR	EVQFDIMYGEGISRMNELILAEANGFIIKKS	SGAWFSYD 310					
NTDB id 1142415 DQL67 RS07595 WP 005724816.1	SVRLDIRRTG	....AI.KEGEVVLGNETRIVKVVKNKVAAPPFR	QVDFQILYCGGIGISKTGELIELGVKHKLV	DKAGAWYAYN 295					
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTG	....AI.KEGEVVLGNETRIVKVVKNKTAAPPK	EANTQIMYCGGFNREGELIDLGVKHKMVEK	SGAWYSYN 293					
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTG	....AI.KEGEVVLGNETRIVKVVKNKTAAPPK	EANTQIMYCGGFNREGELIDLGVKHKMVEK	SGAWYSYN 293					
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 527 SMSK321 RS11065 WP 001085454.1 IEE 384
NTDB id 499 SM12261 RS08315 WP 078228268.1 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 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 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 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 1389 A4U84 RS07560 WP 021112712.1 ... 372
NTDB id 1142415 DQL67 RS07595 WP 005724816.1 ... 354
NTDB id 1165 A1552VC RS01565 WP 000344154.1 ... 354
NTDB id 1142 GTF74 RS11550 WP 000344154.1 ... 354
consensus
```

 non conserved
 similar
 ≥ 50% conserved