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NTDB id 600 KW2 RS01765 WP 011675413.1	.....MATKKKTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	ALGAGGY	PKG	73
NTDB id 269 KZH43 RS08665 WP 001085462.1	.....MAKKPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGY	PKG	72	
NTDB id 228 SPD RS09265 WP 001085462.1	.....MAKKPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGY	PKG	72	
NTDB id 194 SPR RS08825 WP 001085462.1	.....MAKKPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGY	PKG	72	
NTDB id 159 SP RS09750 WP 001085462.1	.....MAKKPKKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGY	PKG	72	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.....MAKKPKKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGY	PKG	72	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.....MAKKPKKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGY	PKG	72	
NTDB id 408 SMU RS09530 WP 002262392.1	.....MAKRIKKTTEEITKKFGD	ERRKALDDALKNI	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGY	PKG	72	
NTDB id 453 Spy49 1753c ACI62003.1	.....MAKKLKKNEEITKKFGD	ERRKALDDALKNI	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDI	ALGAGGY	PKG	72	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQ	FGKGSIMKLG	EK.TDTR	ISTVPSGSLALDI	ALGIGGY	PRG	57	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVSTVSSGSLALDEAL	GVGGY	PRG	59		
NTDB id 1313 DR RS12030 WP 010888966.1	....MS....KDATKEISAPTD	ERSKATETAMSQIEKA	FGKGSIMKLGAE	.SKLDVQVVSTGSLSLDL	ALGVGGI	PRG	71	
NTDB id 343269 EVJ50 RS07955 WP 150883340.1	MPVELKGSAAAAANGRQDAQQA	ERDRALSSVLGQIERN	FGKGSIMRLGDA	.SRMRVETISSGALTLDL	ALG	GGYPKG	78	
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	ALGIGV	PKG	58		
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLAIKQID	KVFGKGALVRLGDK	.QVEKIDISTGSLGLDL	ALGIGV	PKG	60		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLAIKQID	KVFGKGALVRLGDK	.QVEKIDISTGSLGLDL	ALGIGV	PKG	60		
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTETTSPND	DKKKAALAAVLEKLDKTYGKGT	VMKLGDTVDHNI	IEVIPSGSLGLDL	ALGVGGY	PKG	67	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	....MAENKKSNNNTVVKQVEPEQ	KKQALEAALAQIEKQ	FGKGSIMKLGQT	.EQLDIESVSTGSLGLDL	ALGIGGL	PMG	75	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGL	PRG	59		
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGL	PRG	59		
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGL	PRG	59		
NTDB id 1427 RS RS02760 WP 011000510.1	....MEDG.....KKAASMSA	EKQKALAAALAQIEKQ	FGKGSIMKMGDA	.EVEPVQVVSTGSLGLD	VALGVGGL	PRG	67	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGL	PMG	58		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGL	PMG	58		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGL	PKG	58		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGL	PKG	58		
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQAIP	ISTGSLGLDI	ALGIGGL	PKG	58	
consensus		** **	**	*****	*!!*****	*	***!***!***!***!***!***!	

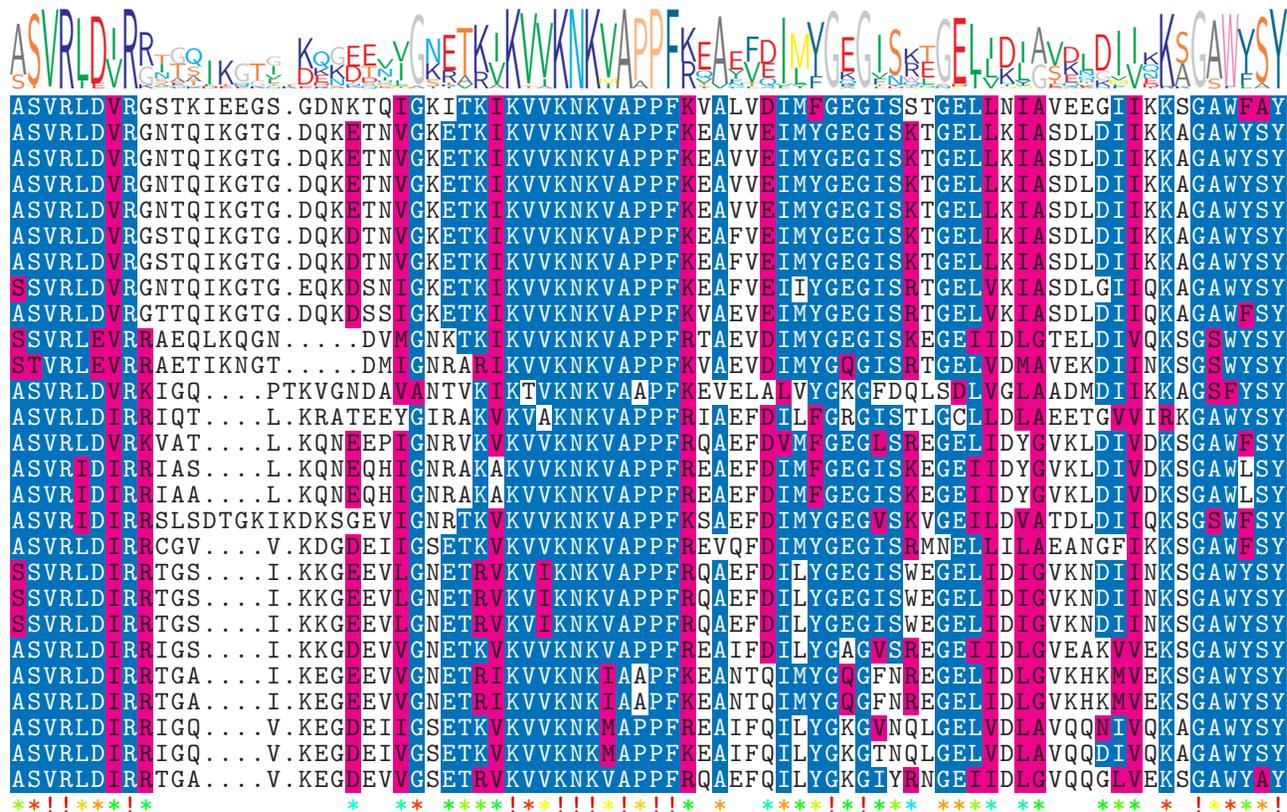




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 NTDB id 269 KZH43 RS08665 WP 001085462.1  
 NTDB id 228 SPD RS09265 WP 001085462.1  
 NTDB id 194 SPR RS08825 WP 001085462.1  
 NTDB id 159 SP RS09750 WP 001085462.1  
 NTDB id 499 SM12261 RS08315 WP 078228268.1  
 NTDB id 527 SMSK321 RS11065 WP 001085454.1  
 NTDB id 408 SMU RS09530 WP 002262392.1  
 NTDB id 453 Spy49 1753c ACI62003.1  
 NTDB id 115 BSU 16940 NP 389576.2  
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 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

consensus





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NTDB id 600 KW2 RS01765 WP 011675413.1	.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE.....	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE.....	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE.....	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE.....	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE.....	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE.....	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED.....	383
NTDB id 453 Spy49 1753c ACI62003.1	ED.....	378
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	..AEA.....	363
NTDB id 343269 EVJ50 RS07955 WP 150883340.1	GAAAPASPAAAVTGGR	400
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 1334 RAOC RS04870 WP 004918236.1	.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	E.....EEL....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	E.....E.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	E.....E.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	E.....E.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	E.....EF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	E.....EF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	S.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	E.....S.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347

consensus



X non conserved  
X similar  
X ≥ 50% conserved