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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGERAA.NQKVS	VSSGSLALDI	ALGAGGYPKGR	74					
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLGERA.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73					
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLGERA.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73					
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLGERA.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73					
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLGERA.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73					
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLGERA.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73					
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGAEREKALNDALKLIEKD	FGKGSIMRLGERA.EQKVQVMSSGSLALDI	ALGSGGYPKGR		73					
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFGDERRKALDDALKNIEKD	FGKGAVMRLGERA.EQKVQVMSSGSLALDI	ALGAGGYPKGR		73					
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFGDERRKALDDALKNIEKD	FGKGAVMRLGERA.EQKVQVMSSGSLALDI	ALGAGGYPKGR		73					
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQ	FGKGSIMKLG	EKT.DTRISTVPSGSLALDI	TALGIGGYPRGR	58				
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKN	FGKGSIMRMGEKV.DTQVSTVSSGSLALDE	ALGVGGYPRGR		60				
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKA	FGKGSIMKLG	AES.KLDVQVVSTGSLSLDL	ALGVGGIPRGR	72				
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKS	LDKTFGKGTILRLG	DE.VEQIDSIGTGSVGLDL	ALGIGGVPKGR	59				
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF	FGKGA	LVR LGDKQ.VEKIDSISTGSLGLDL	ALGIGGVPKGR	61				
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF	FGKGA	LVR LGDKQ.VEKIDAISTGSLGLDL	ALGIGGVPKGR	61				
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT..ETTSPNDKKKALAAVLEK	LDKTYGKGTVMKLG	DGTVDHNI	IEVIPSGSLGLDL	ALGVGGYPKGR	68				
NTDB id 1130 NGFG RS03960 WP 003688695.1MSDDKSKALAAALAQIEKS	FGKGA	IMKMDGSQ	QENLEVISTGSLGLDL	ALGVGGLPRGR	60				
NTDB id 1124 NGFG RS03960 WP 003688695.1MSDDKSKALAAALAQIEKS	FGKGA	IMKMDGSQ	QENLEVISTGSLGLDL	ALGVGGLPRGR	60				
NTDB id 1123 OK783 RS03845 WP 003688695.1MSDDKSKALAAALAQIEKS	FGKGA	IMKMDGSQ	QENLEVISTGSLGLDL	ALGVGGLPRGR	60				
NTDB id 124236 DR63 RS13625 WP 009892802.1	.ME.....ESK..KGSGLTAEKSKALAAALAQIEKQ	FGKGSIMRLGD	GEAVEDIQVVSTGSLGLDI	ALGVGGLPRGR	69					
NTDB id 1427 RS RS02760 WP 011000510.1	.ME.....DGK..KAASMSAEKQKALAAALAQIEKQ	FGKGSIMKMG	DAE.VEPVQVVSTGSLGLD	VALGVGGLPRGR	68					
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEPEQKKQALEAALAQIEKQ	FGKGSIMKLG	QTE.QLDIESVSTGSLGLDL	ALGIGGLPMGR	76				
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGD	NR.AMDVETISTGSLSLDI	ALGAGGLPMGR	59				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGD	NR.AMDVETISTGSLSLDI	ALGAGGLPMGR	59				
NTDB id 1022 ACIAD RS06390 WP 004925639.1MDDNKS	KALQAALSQIEKQ	FGKNTVMRLGD	NT.VQAVEAVSTGSLTLDI	ALGIGGLPKGR	59				
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKS	KALQAALSQIEKQ	FGKNTVMRLGD	NT.VQAVEAVSTGSLTLDI	ALGIGGLPKGR	59				
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKRALAAALGQIEKQ	FGKGAVMRMG	DHD.RQAIP	SISTGSLGLDI	ALGIGGLPKGR	59				
consensus		** **	***	**	***!	*!!*****	*	***!!*!!*!!*!!*!!*!!*!!*!!		

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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
 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
 NTDB id 625 LCA RS02525 WP 011374196.1
 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
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 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 124236 DR63 RS13625 WP 009892802.1
 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 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
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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 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 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 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 124236 DR63 RS13625 WP 009892802.1	...	356
NTDB id 1427 RS RS02760 WP 011000510.1	...	352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	...	372
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