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NTDB id 269 KZH43 RS08665 WP 001085462.1	VVDSVAALVPRAEIDGDI	GDSHVGLQARMMSQAMRKL	GASIN	TKTKTIAIFINQLREKVGVM	FCNPETTPGGRALKFYAS	233
NTDB id 228 SPD RS09265 WP 001085462.1	VVDSVAALVPRAEIDGDI	GDSHVGLQARMMSQAMRKL	GASIN	TKTKTIAIFINQLREKVGVM	FCNPETTPGGRALKFYAS	233
NTDB id 194 SPR RS08825 WP 001085462.1	VVDSVAALVPRAEIDGDI	GDSHVGLQARMMSQAMRKL	GASIN	TKTKTIAIFINQLREKVGVM	FCNPETTPGGRALKFYAS	233
NTDB id 159 SP RS09750 WP 001085462.1	VVDSVAALVPRAEIDGDI	GDSHVGLQARMMSQAMRKL	GASIN	TKTKTIAIFINQLREKVGVM	FCNPETTPGGRALKFYAS	233
NTDB id 499 SM12261 RS08315 WP 078228268.1	VVDSVAALVPRAEIDGDI	GDSHVGLQARMMSQAMRKL	GASIN	TKTKTIAIFINQLREKVGVM	FCNPETTPGGRALKFYAS	233
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VVDSVAALVPRAEIDGDI	GDSHVGLQARMMSQAMRKL	GASIN	TKTKTIAIFINQLREKVGVM	FCNPETTPGGRALKFYAS	233
NTDB id 408 SMU RS09530 WP 002262392.1	VVDSVAALVPRAEIDGDI	GDSHVGLQARMMSQAMRKL	SASIN	TKTKTIAIFINQLREKVGIM	FCNPETTPGGRALKFYSS	233
NTDB id 453 Spy49 1753c ACI62003.1	VVDSVAALVPRAEIDGDI	GDSHVGLQARMMSQAMRKL	SASIN	TKTKTIAIFINQLREKVGVM	FCNPETTPGGRALKFYAS	233
NTDB id 100296 AACH30 RS01135 WP 074750715.1	VVDSVAALTTPRAEIDGDI	GDSHVGLQARMMSQAMRKL	AAGIN	TKTKTIAIFINQLREKVGVM	FCSPETTPGGRALKFYAS	234
NTDB id 600 KW2 RS01765 WP 011675413.1	VIDSVAALVPKAEIDGDI	GDSHVGLQARMMSQAMRKL	AGHIN	TKTKTIAIFINQLREKVGVM	FCSPETTPGGRALKFYAS	234
NTDB id 625 LCA RS02525 WP 011374196.1	VVDSVAALVPRAEIDGDI	GDSHVGLQARMMSQALRKL	SGTIN	TKTKTIAIFINQLREKVGVM	FCNPETTPGGRALKFYST	220
NTDB id 115 BSU 16940 NP 389576.2	VVDSVAALVPKAEIDGDI	GDSHVGLQARMMSQALRKL	SGAIN	TKTKTIAIFINQLREKVGVM	FCNPETTPGGRALKFYSS	218
NTDB id 1313 DR RS12030 WP 010888966.1	VVDSVAALTPRAEIDGDI	GDSHVGLQARMMSQALRKL	TALIN	TKTKTIAIFINQLREKVGVM	FCNPETTPGGRALKFYAS	232
NTDB id 1245 Cj1673c YP 002345041.1	VVDSVAALTPKAEIDGDI	GDSHVGLQARMMSQALRKL	TGIVH	KMNTTVIFINQLRMKIGAMGYGTPETTTGGNALKFYAS	220	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	VVDSVAALTPKAEIDGDI	GDSHVGLQARMMSHALRKL	TGIVL	HKMNTTLIFINQLRMKIGMNGYGSPETTTGGNALKFYAS	222	
NTDB id 1211 C694 RS00795 WP 000963128.1	VVDSVAALTPKAEIDGDI	GDSHVGLQARMMSHALRKL	TGIVL	HKMNTTLIFINQLRMKIGMNGYGSPETTTGGNALKFYAS	222	
NTDB id 1334 RA0C RS04870 WP 004918236.1	VVDSVAALTPKAEIDGDI	GDSHVGLQARMMSQALRKL	TSSIN	TKTKTIVIFINQLRDKIGVM	FCSPETTTGGNALKFYAS	228
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VVDSVAALTPKAEIDGDI	GDSHVGLQARMMSQALRKL	TANIN	KTNCLVVFINQLRMKIGVM	FCNPETTTGGNALKFYAS	236
NTDB id 1130 NGFG RS03960 WP 003688695.1	VVDSVAALVPKAEIDGDI	GDSHVGLQARMMSQALRKL	TGHIN	KTKNTLVVFINQLRMKIGVM	FCSPETTTGGNALKFYSS	220
NTDB id 1124 NGFG RS03960 WP 003688695.1	VVDSVAALVPKAEIDGDI	GDSHVGLQARMMSQALRKL	TGHIN	KTKNTLVVFINQLRMKIGVM	FCSPETTTGGNALKFYSS	220
NTDB id 1123 OK783 RS03845 WP 003688695.1	VVDSVAALVPKAEIDGDI	GDSHVGLQARMMSQALRKL	TGHIN	KTKNTLVVFINQLRMKIGVM	FCSPETTTGGNALKFYSS	220
NTDB id 1427 RS RS02760 WP 011000510.1	VIDSVAALVPKAEIDGDI	GDSHVGLQARMMSQALRKL	TGTIN	KTNCLVVFINQLRMKIGVM	FCSPETTTGGNALKFYAS	228
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VVDSVAALTPKAEIDGDI	GDSHVGLQARMMSQAMRKL	TGNIN	LKQSNCMCIFINQLRMKIGVM	FCNPETTTGGNALKFYAS	219
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VVDSVAALTPKAEIDGDI	GDSHVGLQARMMSQAMRKL	TGNIN	LKQSNCMCIFINQLRMKIGVM	FCNPETTTGGNALKFYAS	219
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VVDSVAALTPKAEIDGDI	GDSHVGLQARMMSQALRKL	TGNIN	AKRSNCMVIFINQLRMKIGVM	FCSPETTTGGNALKFYAS	219
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VVDSVAALTPKAEIDGDI	GDSHVGLQARMMSQALRKL	TGNIN	AKRSNCMVIFINQLRMKIGVM	FCSPETTTGGNALKFYAS	219
NTDB id 1205 PSJM300 05545 AFN77183.1	VIDSVAALVPKAEIDGDI	GDSHVGLQARMMSQALRKL	TGNIN	KNANCLVIFINQLRMKIGVM	FCSPETTTGGNALKFYAS	219
consensus	**!!!!!!	*!!!!!!	*!!!!!!	*!!!!!!	*!!!!!!	*!!!!!!

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NTDB id 269 KZH43 RS08665 WP 001085462.1	VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYKD	312
NTDB id 228 SPD RS09265 WP 001085462.1	VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYKD	312
NTDB id 194 SPR RS08825 WP 001085462.1	VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYKD	312
NTDB id 159 SP RS09750 WP 001085462.1	VRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYKD	312
NTDB id 499 SM12261 RS08315 WP 078228268.1	VRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYKD	312
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYKD	312
NTDB id 408 SMU RS09530 WP 002262392.1	VRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIMYGEGISRTGELVKIASDLGIITQKAGAWYSYNG	312
NTDB id 453 Spy49 1753c ACI62003.1	VRLDVRGTTQIKGTG.DQKDSNIGKETKIKVVKNKVAPPFKEAVEVEIMYGEGISRTGELVKIASDLDIITQKAGAWFSYNG	312
NTDB id 100296 AACH30 RS01135 WP 074750715.1	VRLDVRGSTKIEEGS.GDNKTAIGKLTIKVVKNKVAPPFKVALVDIMFGEGISKTGELLTIAVEEGIVKKAGAWFSYND	313
NTDB id 600 KW2 RS01765 WP 011675413.1	VRLDVRGSTKIEEGS.GDNKTAIGKLTIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGITKKS GAWFAVND	313
NTDB id 625 LCA RS02525 WP 011374196.1	VRLVRRRAETIKNGT....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDIINKSGSWYSYGS	295
NTDB id 115 BSU 16940 NP 389576.2	VRLVRRRAEQLKQGN....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGETIDLGTGLDIDVQKSGSWYSYEE	293
NTDB id 1313 DR RS12030 WP 010888966.1	VRLDVRKIGQ....PTKVGNDAVANTVKTIKTVKNKVAAPPFKEVELALIVYCKGFDQLSDLVGLAADMDIITKACSFYSYGD	308
NTDB id 1245 Cj1673c YP 002345041.1	VRLDVRKVAT...L.KQNEEPIGNRVKIKVVKNKVAPPFRQAEFDMVFGEGLSREGELIDYGVKLDIVDKSGAWFSYKD	295
NTDB id 1214 NCTC11637 00359 SQJ03206.1	VRLDIRRIAA...L.KQNEQHIENRAKAKVVKNKVAPPFRQAEFDMVFGEGISKEGETIDYGVKLDIVDKSGAWLSYQD	297
NTDB id 1211 C694 RS00795 WP 000963128.1	VRLDIRRIAS...L.KQNEQHIENRAKAKVVKNKVAPPFRQAEFDMVFGEGISKEGETIDYGVKLDIVDKSGAWLSYQD	297
NTDB id 1334 RA0C RS04870 WP 004918236.1	VRLDIRRSLSDTGKIKDKSGEVLGNRTKIKVVKNKVAPPFKSAEFDIMYGECSKVGELLDVATDLDIITQKSGSWFSYQD	308
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VRLDIRRCGV...V.KDGDEIIGSETKIKVVKNKVAPPFRREVQFDIMYGEGISRNMELLILAANGFITKKS GAWFSYDG	311
NTDB id 1130 NGFG RS03960 WP 003688695.1	VRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNG	295
NTDB id 1124 NGFG RS03960 WP 003688695.1	VRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNG	295
NTDB id 1123 OK783 RS03845 WP 003688695.1	VRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDIINKSGAWYSYNG	295
NTDB id 1427 RS RS02760 WP 011000510.1	VRLDIRRIGS...I.KKGEEVLGNETRVKVVKNKVAPPFRQAIFDILYGAQVSRREGELIDLGVKVEAKVVEKSGAWYSYNG	303
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VRLDIRRTGA...I.KEGEEVVLGNETRIKVVKNKIAAPPFKEANTQIMYGGCFNREGELIDLGVKHKMVEKSGAWYSYNG	294
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VRLDIRRTGA...I.KEGEEVVLGNETRIKVVKNKIAAPPFKEANTQIMYGGCFNREGELIDLGVKHKMVEKSGAWYSYNG	294
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VRLDIRRIGQ...V.KEGDEIIGSETKIKVVKNKMAPPFRQAIFQILYKGVNQLGELVDLAVQQDIIVQKAGAWYSYQG	294
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VRLDIRRIGQ...V.KEGDEIIGSETKIKVVKNKMAPPFKEAIFQILYKGVNQLGELVDLAVQQDIIVQKAGAWYSYQG	294
NTDB id 1205 PSJM300 05545 AFN77183.1	VRLDIRRTGA...V.KEGEEVVLGNETRVKVVKNKVAPPFRQAEFQILYKGVNQLGELVDLAVQQDIIVQKAGAWYAVK	294
consensus	!!***!* * * * * **!***!!*!!*!!*!!* * * * * *!***!*** * * * * * * * * * *! * * * * *	

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NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIF	DEIDKQV	RSKFCI	IDGEEV	SEQDTE	NKKDEPKK	...	EE	AVNE	VPLDLG	DELEIEI	386	
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIF	DEIDKQV	RSKFCI	IDGEEV	SEQDTE	NKKDEPKK	...	EE	AVNE	VPLDLG	DELEIEI	386	
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIF	DEIDKQV	RSKFCI	IDGEEV	SEQDTE	NKKDEPKK	...	EE	AVNE	VPLDLG	DELEIEI	386	
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIF	DEIDKQV	RSKFCI	IDGEEV	SEQDTE	NKKDEPKK	...	EE	AVNE	VPLDLG	DELEIEI	386	
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYL	ADNPEIF	DEIDHQV	RVQFCI	IDGEEI	AES...	KKDEAAQ	...	VD	SVNE	VTLDLG	DELEIEI	382	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYL	ADNPEI	VFAEID	HQV RVQFCI	IDGEEA	AES...	KKDEVAQ	...	VD	SVNE	VTLDLG	DELEIEI	382	
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFL	ADNPEIF	DDIDHKV	RVQYCI	IEEDNT	EEKQSS	KEK...	ET...	DE	KADKNL	VLELDD	TIELED	383	
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYL	ADHPQL	FDEIDR	KV RVKFCI	LEESE	EEESAM	AVASE...	E...	TD	LALDL	DN	GIEIEI	378	
NTDB id 100296 AACH30 RS01135 WP 074750715.1	EKIGQGA	EAKAKAF	LKDNPEI	FNEIDR	KV RQNHCI	IEGDEA	DEKEEV	KPA	KADEKAK	VE	AAGVE	EIELE	...	383	
NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EAKAKNYL	KEHQD	VFDEID	HKV RAAHCI	LDDSE	VAETEE	ETTAS	TKAKAK	KEEKAV	ETE	EIELE	...	387	
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQGR	ENAKNYL	ADHED	VEDEV	RLKVR	AAAYCI	SDVPEE	DLPTTE	DE	Q	INILP	DD	STEE	355	
NTDB id 115 BSU 16940 NP 389576.2	ERIGQGR	ENAKQFL	KENKDI	MLMI	QEQTRE	HYCI	DNNGV	VVQQAE	ETQEE	...	LEFE	E	...	348	
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIA	YIAER	PEMEQE	IRDRV	MAATR	AGNAGE	APALAP	APAAPE	AAEA	...	...	...	363	
NTDB id 1245 Cj1673c YP 002345041.1	KKIGQGR	ENAKSKAF	LKENPEI	ADEIT	KATQNS	MCIEG	MI...	SGSEDD	EGEE	...	...	...	...	343	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKIGQGR	ENAKALL	KEDKAL	ADEIT	LKIKESI	CSNEEI	...	MPLPDE	PLEEM	...	E	...	...	347	
NTDB id 1211 C694 RS00795 WP 000963128.1	KKIGQGR	ENAKALL	KEDKAL	ADEIT	LKIKESI	CSNEEI	...	MPLPDE	PLEEM	...	E	...	...	347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKIGQGR	DTVKEL	TKDNPEI	AEELE	AKTRE	KLQAK	...	...	...	...	...	...	...	343	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQGK	NNAV	KVLKEN	PEIAD	KLEQEI	RNTLA	SNPNS	...	VLKATAS	DSNDES	...	DVEEF	SEEL	372	
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQGD	NVRVWL	KENPEI	SDEID	AKTRAL	NCVEM	HI...	TEGTQ	DETDGER	...	PEE	...	...	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQGD	NVRVWL	KENPEI	SDEID	AKTRAL	NCVEM	HI...	TEGTQ	DETDGER	...	PEE	...	...	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQGD	NVRVWL	KENPEI	SDEID	AKTRAL	NCVEM	HI...	TEGTQ	DETDGER	...	PEE	...	...	348	
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQGR	DNCRE	FLREN	AELARE	IKVREHL	CVTP	MG...	AVTLA	EEVEED	...	...	...	...	352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQGK	ANACKYL	KENPEI	AKTLD	KKLRE	MLLNPEN	M...	QLIAE	TSSAADDV	...	DFGAV	PEEF	...	354	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQGK	ANACKYL	KENPEI	AKTLD	KKLRE	MLLNPEN	M...	QLIAE	TSSAADDV	...	DFGAV	PEEF	...	354	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQCK	NNVIRY	LEENP	CISTE	IEAVI	REQLL	TKASD	...	QTAA	HDETE	EEP	...	DLL	ES	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQCK	NNVIRY	FEENP	CIAE	IEIRN	IREQLL	TTGTN	...	GAVQ	IEDDE	EEP	...	DLL	LES	349
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQGK	ANA	AKYLE	ENPEI	GQIE	QQIR	AKLLV	TSAN	...	TKATP	VAED	LADA	...	DI	347
consensus	***!!!	*****	* *	*****	*****	* *	* *	* *						*	

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NTDB id 269 KZH43 RS08665 WP 001085462.1	EE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EE	388
NTDB id 159 SP RS09750 WP 001085462.1	EE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	EE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EE	384
NTDB id 408 SMU RS09530 WP 002262392.1	..	383
NTDB id 453 Spy49 1753c ACI62003.1	..	378
NTDB id 100296 AACH30 RS01135 WP 074750715.1	..	383
NTDB id 600 KW2 RS01765 WP 011675413.1	..	387
NTDB id 625 LCA RS02525 WP 011374196.1	..	355
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 RA0C 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