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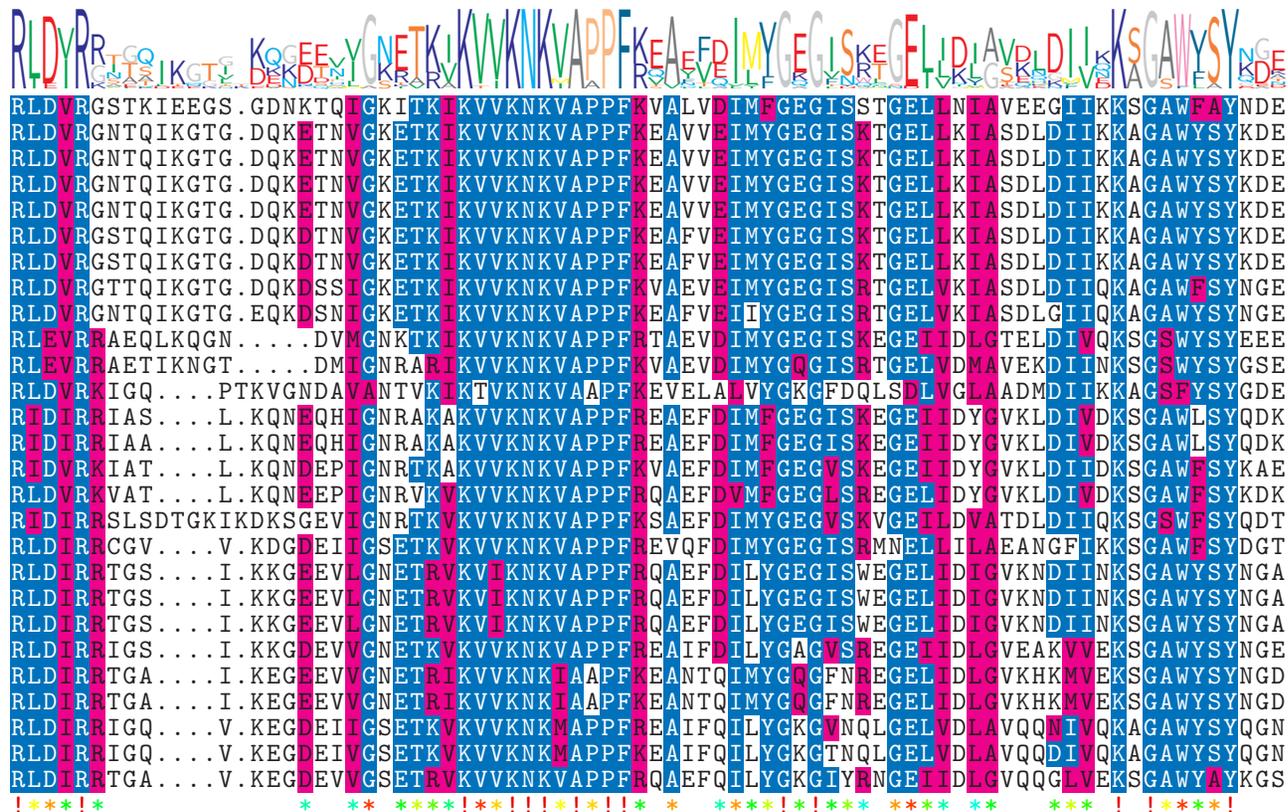


NTDB id 600 KW2 RS01765 WP 011675413.1	VDSVAALV	PKAEID	GEIGDSS	VVGLQAR	MMSQAMRKL	AGH	INKTKT	TTA	IFINQL	REK	VGVM	.	FGSPETT	PGGRAL	KFYASV	235		
NTDB id 269 KZH43 RS08665 WP 001085462.1	VDSVAALV	PRAEID	GGIDGSHV	GLQAR	MMSQAMRKL	GAS	INKTKT	IA	IFINQL	REK	VGVM	.	FGNPETT	PGGRAL	KFYASV	234		
NTDB id 228 SPD RS09265 WP 001085462.1	VDSVAALV	PRAEID	GGIDGSHV	GLQAR	MMSQAMRKL	GAS	INKTKT	IA	IFINQL	REK	VGVM	.	FGNPETT	PGGRAL	KFYASV	234		
NTDB id 194 SPR RS08825 WP 001085462.1	VDSVAALV	PRAEID	GGIDGSHV	GLQAR	MMSQAMRKL	GAS	INKTKT	IA	IFINQL	REK	VGVM	.	FGNPETT	PGGRAL	KFYASV	234		
NTDB id 159 SP RS09750 WP 001085462.1	VDSVAALV	PRAEID	GGIDGSHV	GLQAR	MMSQAMRKL	GAS	INKTKT	IA	IFINQL	REK	VGVM	.	FGNPETT	PGGRAL	KFYASV	234		
NTDB id 499 SM12261 RS08315 WP 078228268.1	VDSVAALV	PRAEID	GGIDGSHV	GLQAR	MMSQAMRKL	GAS	INKTKT	IA	IFINQL	REK	VGVM	.	FGNPETT	PGGRAL	KFYASV	234		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VDSVAALV	PRAEID	GGIDGSHV	GLQAR	MMSQAMRKL	GAS	INKTKT	IA	IFINQL	REK	VGVM	.	FGNPETT	PGGRAL	KFYASV	234		
NTDB id 453 Spy49 1753c ACI62003.1	VDSVAALV	PRAEID	GGIDGSHV	GLQAR	MMSQAMRKL	SAS	INKTKT	IA	IFINQL	REK	VGVM	.	FGNPETT	PGGRAL	KFYASV	234		
NTDB id 408 SMU RS09530 WP 002262392.1	VDSVAALV	PRAEID	GGIDGSHV	GLQAR	MMSQAMRKL	SAS	INKTKT	IA	IFINQL	REK	VGIM	.	FGNPETT	PGGRAL	KFYSSV	234		
NTDB id 115 BSU 16940 NP 389576.2	VDSVAALV	PKAEIE	GDMGDS	HVGLQAR	LMSQALRKL	SGA	INKSKT	IA	IFINQI	REK	VGVM	.	FGNPETT	PGGRAL	KFYSSV	219		
NTDB id 625 LCA RS02525 WP 011374196.1	VDSVAALV	PRAEIE	GEMGD	AHVGLQAR	LMSQALRKL	SGT	INKTKT	IA	LFINQI	REK	VGVM	.	FGNPEVT	PGGRAL	KFYSTV	221		
NTDB id 1313 DR RS12030 WP 010888966.1	VDSVAALT	PRAEIE	GDMGDS	LPGLQAR	LMSQALRKL	TAI	LSKTGT	AA	IFINQV	REK	IGVM	.	YGNPETTT	TGGRAL	KFYASV	233		
NTDB id 1211 C694 RS00795 WP 000963128.1	VDSVAALT	PKAEID	GDMGD	QHVGLQAR	LMSHALRKL	ITG	VLHKMNT	TL	IFINQI	RMKIG	MMGY	GS	PETT	TGGN	AL	KFYASV	223	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	VDSVAALT	PKAEID	GDMGD	QHVGLQAR	LMSHALRKL	ITG	VLHKMNT	TL	IFINQI	RMKIG	MMGY	GS	PETT	TGGN	AL	KFYASV	223	
NTDB id 29183 CCC13826 RS08925 WP 002940852.1	VDSVAALT	PKSEID	GDMGD	QHVGLQAR	LMSQALRKL	TG	ILSKMKT	TV	IFINQI	RMKIG	MMGY	GT	PETT	TGGN	AL	KFYSSV	236	
NTDB id 1245 Cj1673c YP 002345041.1	VDSVAALT	PKAEIE	GDMGD	QHVGLQAR	LMSQALRKL	TG	IVHKMNT	TV	IFINQI	RMKIG	AMGY	GT	PETT	TGGN	AL	KFYASV	221	
NTDB id 1334 RAOC RS04870 WP 004918236.1	VDSVAALT	PKAEID	GDMGDS	KMGLHAR	LMSQALRKL	TSS	ISKTKCTV		IFINQL	RDK	IGVM	.	FGSPETT	TGGN	AL	KFYASV	229	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VDSVAALT	PKAEIE	GDMGDS	HMGLQAR	LMSQALRKL	TAN	IKNTNCLV	V	FINQI	RMKIG	VM	.	FGNPETT	TGGN	AL	KFYASV	237	
NTDB id 1130 NGFG RS03960 WP 003688695.1	VDSVAALV	PKAEIE	GDMGDS	HVGLQAR	LMSQALRKL	TG	HIKKTNTL	V	FINQI	RMKIG	VM	.	FGSPETT	TGGN	AL	KFYSSV	221	
NTDB id 1124 NGFG RS03960 WP 003688695.1	VDSVAALV	PKAEIE	GDMGDS	HVGLQAR	LMSQALRKL	TG	HIKKTNTL	V	FINQI	RMKIG	VM	.	FGSPETT	TGGN	AL	KFYSSV	221	
NTDB id 1123 OK783 RS03845 WP 003688695.1	VDSVAALV	PKAEIE	GDMGDS	HVGLQAR	LMSQALRKL	TG	HIKKTNTL	V	FINQI	RMKIG	VM	.	FGSPETT	TGGN	AL	KFYSSV	221	
NTDB id 1427 RS RS02760 WP 011000510.1	VDSVAALV	PKAEIE	GEMGD	ALPGLQAR	LMSQALRKL	TGT	IKRTNCLV		IFINQI	RMKIG	VM	.	FGSPETT	TGGN	AL	KFYASV	229	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VDSVAALT	PKAEIE	GEMGDS	HMGLQAR	LMSQAMRKL	TGN	LKQSN	CM	IFINQI	RMKIG	VM	.	FGNPETT	TGGN	AL	KFYASV	220	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VDSVAALT	PKAEIE	GEMGDS	HMGLQAR	LMSQAMRKL	TGN	LKQSN	CM	IFINQI	RMKIG	VM	.	FGNPETT	TGGN	AL	KFYASV	220	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VDSVAALT	PKAEIE	GEMGDS	HMGLQAR	LMSQALRKL	ITG	NAKRS	N	CM	IFINQI	RMKIG	VM	.	FGSPETT	TGGN	AL	KFYASV	220
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VDSVAALT	PKAEIE	GEMGDS	HMGLQAR	LMSQALRKL	ITG	NAKRS	N	CM	IFINQI	RMKIG	VM	.	FGSPETT	TGGN	AL	KFYASV	220
NTDB id 1205 PSJM300 05545 AFN77183.1	VDSVAALV	PKAEIE	GEMGD	AHVGLQAR	LMSQALRKL	ITG	NKNANCLV		IFINQI	RMKIG	VM	.	FGSPETT	TGGN	AL	KFYASV	220	
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 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 1211 C694 RS00795 WP 000963128.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 29183 CCC13826 RS08925 WP 002940852.1
 NTDB id 1245 Cj1673c YP 002345041.1
 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

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NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEETASKTKAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFLIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGSENAKKYLADNPEIFDEIDHQVVRVQFLIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIEIE	383
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGSENAKKYLADNPEVFAEIDHQVVRVQFLIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIEIE	383
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSENAKRYLADHPQLFDEIDRKRVRVKFLLEESEESAMAVASE.....E.....TDDLALDLNGIEIED.	378
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGSENAKKFLADNPEIFDDIDHKVVRVQGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.	383
NTDB id 115 BSU 16940 NP 389576.2	RLGQGRENAKQFLKENKDIMLMIQEIQIREHYGLDNNGVVQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGRENAKNYLADHEDVEDEVRLKVRVAAAGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	363
NTDB id 1211 C694 RS00795 WP 000963128.1	KLGGRENAKALLKEDKALADEITLTKIKESIGSNEEI....MPLPDEPLE...EME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KLGGRENAKALLKEDKALADEITLTKIKESIGSNEEI....MPLPDEPLE...EME.....	347
NTDB id 29183 CCC13826 RS08925 WP 002940852.1	KLGGRENAKAYLKEHPEISDEIVAAIKGSMGIDHLI....SSGAKDEDD...DTNE..AGDE.....	365
NTDB id 1245 Cj1673c YP 002345041.1	KLGGRENSKAFLENPEIADEITKAIQNSMGIEMGI....SGSEDEGE...E.....	343
NTDB id 1334 RAOC RS04870 WP 004918236.1	KLGGGRDTRVKELIKDNPELAEELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGXNNAVKWLKENPEIADKLEQEI RNTLASNPNS....VLKATASDSNDESVDVEE..FSEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGRDNCREFLRENAELAREIENKVRHLGVTMPG....AVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGKANACKYLYKENPEIAKTLDKKLREMLLNPNM....QLIAETSSAADDVEFGA..VPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGKANACKYLYKENPEIAKTLDKKLREMLLNPNM....QLIAETSSAADDVEFGA..VPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGXNNVIRYLEENPQISTEIEAVIREQLLTKASD....QTAA.HDETEEEPDLL...ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGXNNVIRYFEENNQIAEIEIERNIREQLLTTGTN....GAVQ.I.EDEEPPDLL...LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLADADI.....	347
consensus	**!!!***** ** * *** ***** ** **	

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NTDB id 600 KW2 RS01765 WP 011675413.1	.	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	384
NTDB id 453 Spy49 1753c ACI62003.1	.	378
NTDB id 408 SMU RS09530 WP 002262392.1	.	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 1211 C694 RS00795 WP 000963128.1	.	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.	347
NTDB id 29183 CCC13826 RS08925 WP 002940852.1	.	365
NTDB id 1245 Cj1673c YP 002345041.1	.	343
NTDB id 1334 RAOC 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
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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