

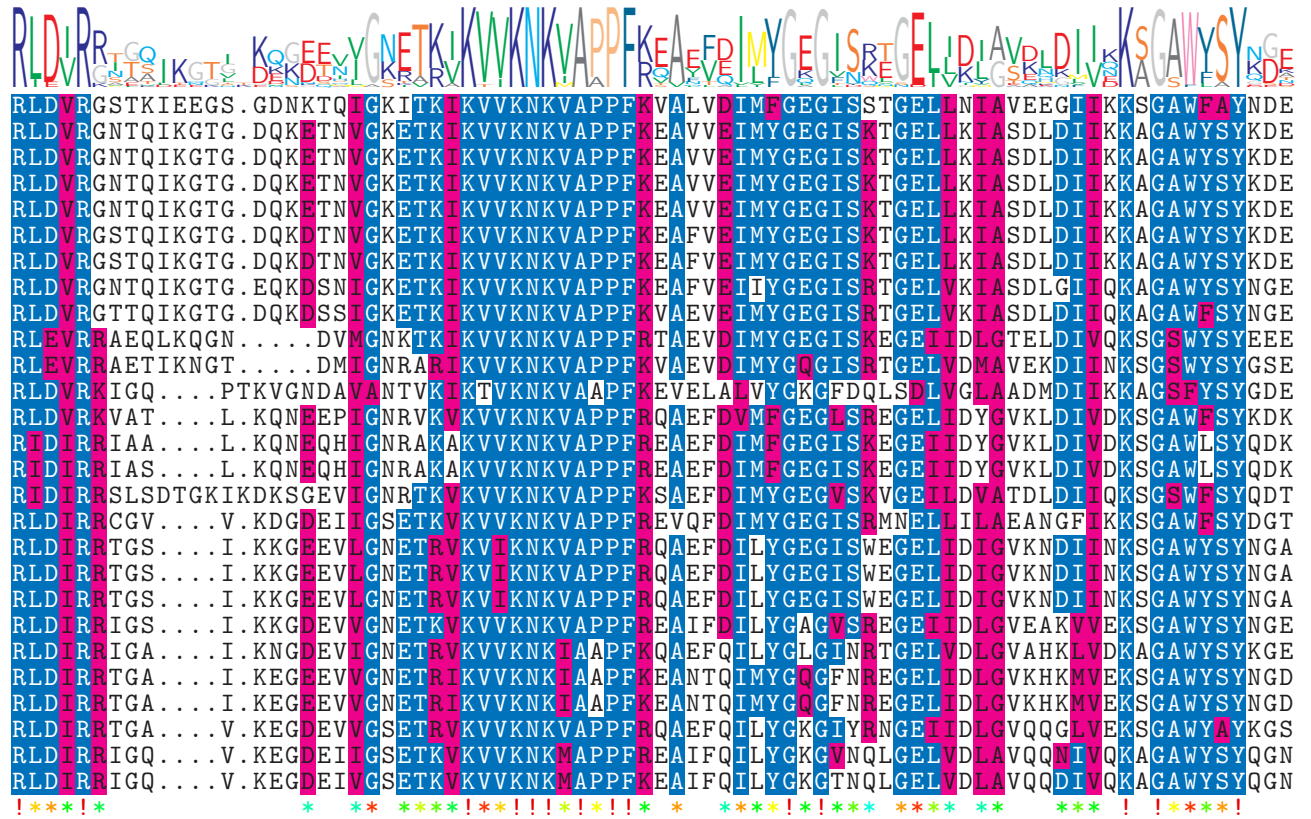
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK...TNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIV	76
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP...KKLEEISKKKFGAEREKALNDALKLIKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP...KKLEEISKKKFGAEREKALNDALKLIKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP...KKLEEISKKKFGAEREKALNDALKLIKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP...KKLEEISKKKFGAEREKALNDALKLIKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP...KKLDEISKKKFGAEREKALNDALKLIKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP...KKLDEISKKKFGAEREKALNDALKLIKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI...KKTEEITKKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIV	75
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL...KKNEEITKKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIT	75
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGK.EK.TDTRISTVPSGSLALDTALGIGGYPRGRIT	60
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIV	62
NTDB id 1313 DR RS12030 WP 010888966.1	.MSKD...ATKEISAPTDAKERSKATETAMSKIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRIT	74
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQTDSIGTGSVGLDLALGIGGVPKGRIT	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTETTSPNDKSKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGRIV	70
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTVVKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIV	78
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQEQEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQEQEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQEQEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDGK.....KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRIV	70
NTDB id 361017 FCN25 RS15720 WP 137226371.1	.....MKVDPNKEKALAAVLSQIEKQFGKGSIMKLGED.RTMDVETISTGSLSLDVALGAGGLPLGRIV	63
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV	61
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV	61
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKQRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRIV	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV	61
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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 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 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
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 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
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 NTDB id 1205 PSJM300 05545 AFN77183.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
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NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGA	EKAKNYLKEHQDV	FEIDHKVRAAHG	LDDSEVAETEET	TASKTKAKAKKEEKAVETE	EIELELED	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQD	TENKKDE...PKKEEA..VNEE	VPLDLGDELEIEIE		387
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQD	TENKKDE...PKKEEA..VNEE	VPLDLGDELEIEIE		387
NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQD	TENKKDE...PKKEEA..VNEE	VPLDLGDELEIEIE		387
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQD	TENKKDE...PKKEEA..VNEE	VPLDLGDELEIEIE		387
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGS	ENAKKYLADNPEVFAE	IDHQVVRVQFGL	LIDGEEAAE...SKKDE...VAQVDS..VNEE	VTLDLGDLEIEIE			383
NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGS	ENAKKYLADNPEVFAE	IDHQVVRVQFGL	LIDGEEIAE...SKKDE...AAQVDS..VNEE	VTLDLGDLEIEIE			383
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGS	ENAKKFLADNPEIF	DDIDHKVVRVQYGL	IEEDNTEEKQSSKEK	.....ETDEK..ADKNLVLELDDTIELED			383
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGS	ENAKRYLADHPQLF	DEIDRKVVRVQFGL	LEESEEEESAMAVASE	.....E.....TDDLALDLDNGIEIED			378
NTDB id 115 BSU 16940 NP 389576.2	RLGQGR	ENAKQFLKENKDIMLMI	IQEQIREHYGL	DNNGVVQQAEETQEEL	EFE.E.....			348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGR	ENAKNYLADHEDVEDEV	RLKVRVRAAYG	ISDVPEEDLPTTEDE	.QI.NILPDDST.....EE			355
NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGK	EKTIAIYTAERP	EMEQRDRVMAAIR	AGNAGEAPALAPAPAAPEAA	..EA.....			363
NTDB id 1245 Cj1673c YP 002345041.1	KLGGGR	ENSKAFLKENPEIA	DEITKAIQNSMGI	EGMI.....SGSEDD	EGEE.....			343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KLGGGR	ENAKALLKEDKAL	ADEITLKI	KESIGSNEEI....MPLPDEPLEE	...M....E.....			347
NTDB id 1211 C694 RS00795 WP 000963128.1	KLGGGR	ENAKALLKEDKAL	ADEITLKI	KESIGSNEEI....MPLPDEPLEE	...M....E.....			347
NTDB id 1334 RAOC RS04870 WP 004918236.1	KLGGGR	DTVKELIKDNPEL	AEELEAKIREKLQAK					343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGG	KNNAVKWLKENPEI	ADKLEQIRNTL	ASNPNS....VLKATASDSN..DES....DVEE	FSEEL.....			372
NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHI....T.....EGT..QDE....TDGE	RPEE.....			348
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NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGR	DNCREFLRENAEL	AREIENKVRHLGV	TPMG....AVTLAAEVE..ED.....				352
NTDB id 361017 FCN25 RS15720 WP 137226371.1	KIGQGR	ANAGKFLTENPAIANE	IDTTLRSMLLA	APGS....LGSSTSDEN..VDL....ETGE	VF.....			353
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGG	KANACKYLLKENPEI	AKTLDKKLREMLLN	PENM....QLIAETSSAA..DDV....EFGAV	PEEF.....			354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGG	KANACKYLLKENPEI	AKTLDKKLREMLLN	PENM....QLIAETSSAA..DDV....EFGAV	PEEF.....			354
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGG	KANAACKYLEENPEI	IGQIEEQIRAKLL	VTSAN....TKATPVAED....L.....ADAD	I.....			347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGG	KNNVIRYLEENPQ	ISTEIEAVIREQLL	TKASD....QTAA.HDET....E....EEP	LLES.....			349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGG	KNNVIRYFENNQIA	EIEIRNIREQLL	TTGTN....GAVQ.I.ED....E....EEP	LLLES.....			349
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 527 SMSK321 RS11065 WP 001085454.1	E	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	384
NTDB id 408 SMU RS09530 WP 002262392.1	.	383
NTDB id 453 Spy49 1753c ACI62003.1	.	378
NTDB id 115 BSU 16940 NP 389576.2	.	348
NTDB id 625 LCA RS02525 WP 011374196.1	.	355
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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 361017 FCN25 RS15720 WP 137226371.1	.	353
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.	354
NTDB id 1205 PSJM300 05545 AFN77183.1	.	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.	349

consensus

 non conserved
 similar
 ≥ 50% conserved