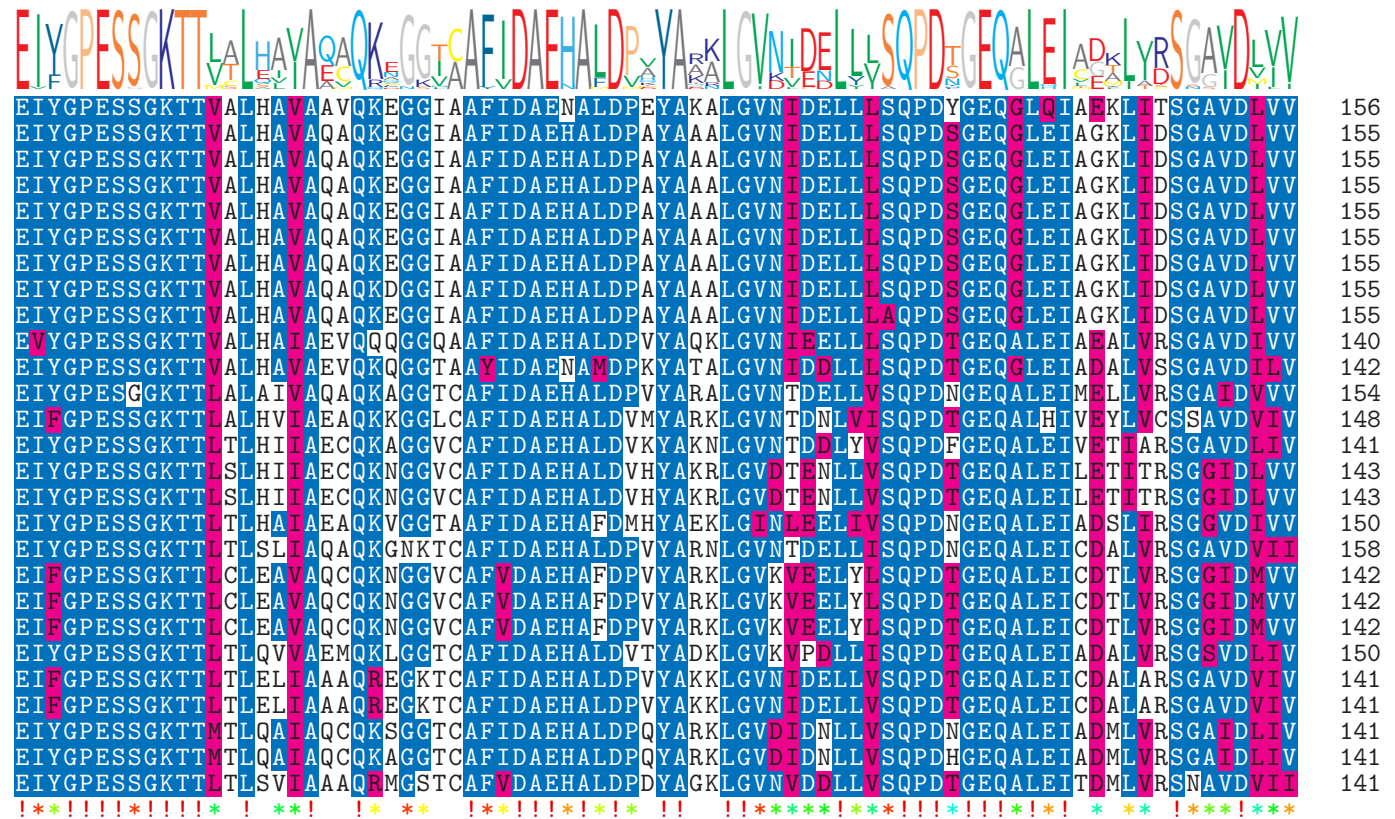


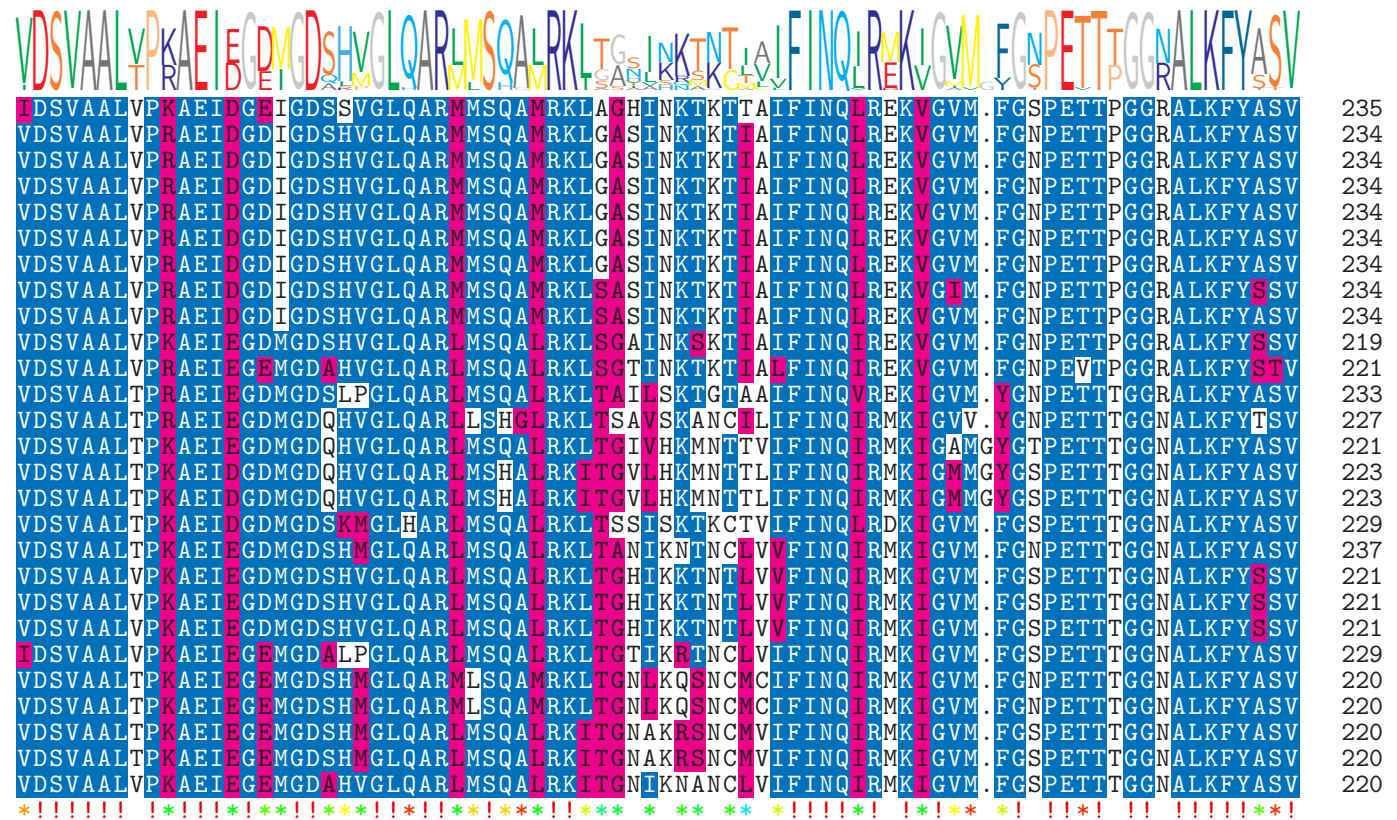
logo

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NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP...KKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP...KKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP...KKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP...KKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP...KKLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGRIT	75
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NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI...KKTEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALD	I	ALGAGGYPKGRIV	75
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL...KKNEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALD	I	ALGAGGYPKGRIT	75
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQ	FGKGSIMKLGEK	.TDTRISTVPSGSLALD	T	ALGIGGYPRGRIT	60	
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVSTVSSGSLALD	E	ALGVGGYPRGRIV	62	
NTDB id 1313 DR RS12030 WP 010888966.1	.MSKD....ATKEISAPTDAKERSKATETAMSI	IEKAFGKGSIMKLGAE	.SKLDVQVVSTGSLSLD	L	ALGVGGIPRGRIT	74	
NTDB id 330724 EJB10 RS04585 WP 011256625.1	MASNPEEKSNDRQKALDNAISQIEKA	FGKGAIMKLKQN	.PVEKIDTISTGSTALDS	A	ALGVGGLPKGRIV	68	
NTDB id 1245 Cj1673c YP 002345041.1	MDDNKRKSLDAALKSLDKT	FGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	ALGIGGVPKGRIT			61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLAIKQID	KVFGKGALVRLGDK	.QVEKIDISTGSLGLDL	ALGIGGVPKGRIT			63
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLAIKQID	KVFGKGALVRLGDK	.QVEKIDSISTGSLGLDL	ALGIGGVPKGRIT			63
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPNDDKKKALAAVLEKLDKT	YGKGTVMKLGDTGTVDHN	IEVIPSGSLGLDL	ALGVGGYPKGRIV			70
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVKKVEPEQKKQ	QALEAALAQIEKQFGKGSIMKLQQT	.EQLDIESVSTGSLGLDL	ALGIGGLPMGRIV			78
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGRIV			62
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGRIV			62
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGRIV			62
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLD	I	ALGAGGLPMGRIV	61	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLD	I	ALGAGGLPMGRIV	61	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLD	I	ALGIGGLPKGRIT	61	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLD	I	ALGIGGLPKGRIV	61	
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQAIPSI	ISTGSLGLD	I	ALGIGGLPKGRIV	61
consensus	*** **	*** **	*** **	*** **	*** **	*** **	

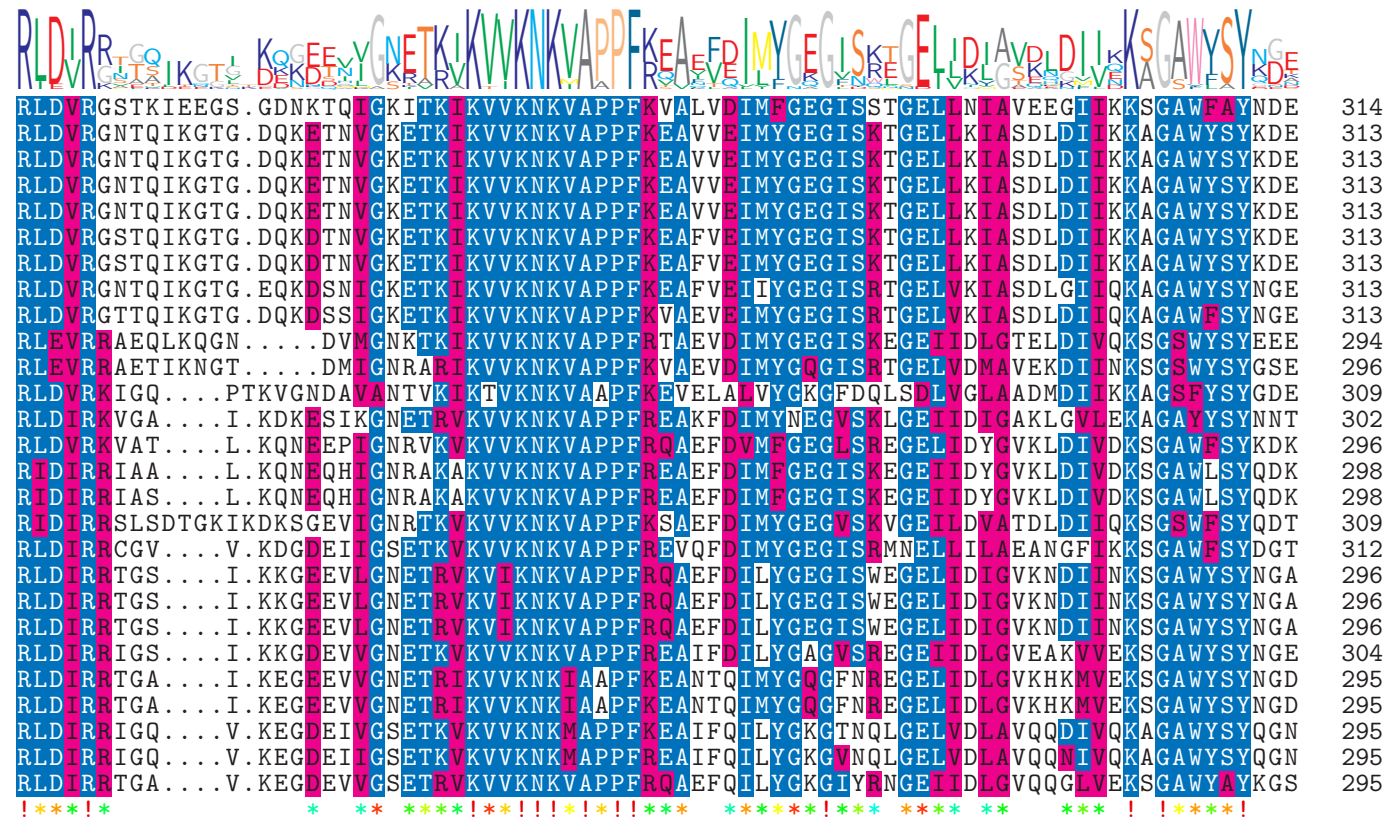
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NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
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NTDB id 1211 C694 RS00795 WP 000963128.1
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NTDB id 1389 A4U84 RS07560 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 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
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consensus

Sequence	Score
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KIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES...KKDE...AAQVDS..VNEEVPLDLGDELEIEIE	383
KIGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES...KKDE...VAQVDS..VNEEVPLDLGDELEIEIE	383
KIGQGSENAKKFLADNPEIFDDIDHKVVRVQGLIEEDNTEEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.	383
KIGQGSENAKRYLADHPQLFDEIDRKVVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNNGIEIED.	378
RLGQGRENAKQFLKENKDIMLMIQEQUIREHYGLDNNGVVQQQAETQEEL.EFE.E.....	348
RIGQGRENAKNYLADHEDVEDEVRLKVRVAAAYGTSVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
RIGQGKEKTIAYIAERPMEQEIRDRVMAATRAGNAGEAPALAPAPAAPEAA...EA.....	363
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KLGGGRENKALLKEDKALADEITLKIKESIGSNEEIM...PLPDEP..L..EEME.....	347
KLGGGRENKALLKEDKALADEITLKIKESIGSNEEIM...PLPDEP..L..EEME.....	347
KLGGGRDTPVKELTKDNPELAEELEAKIREKLQAK.....	343
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KIGQGGKDNVRVWLKENPEISDEIDAKIRALNCGVEMHIT...EGTQDETD.....GERPEE.....	348
KIGQGGKDNVRVWLKENPEISDEIDAKIRALNCGVEMHIT...EGTQDETD.....GERPEE.....	348
KIGQGGKDNVRVWLKENPEISDEIDAKIRALNCGVEMHIT...EGTQDETD.....GERPEE.....	348
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KIGQGGKANACKYLKENPEIAKTLDKKLREMLLNPNMQ...LIAETSSAA..DDVEFGAVPEEF.....	354
KIGQGGKANACKYLKENPEIAKTLDKKLREMLLNPNMQ...LIAETSSAA..DDVEFGAVPEEF.....	354
KIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGTNG...AVQ..I..EDE..EEDP..LLES.....	349
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KIGQGGKANAAKYLEENPEIQGEIEQQIRAKLLVTSANT....KATPVAEDL..ADAD..I.....	347

logo

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 408 SMU RS09530 WP 002262392.1	.	383
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NTDB id 115 BSU 16940 NP 389576.2	.	348
NTDB id 625 LCA RS02525 WP 011374196.1	.	355
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	.	347
NTDB id 1211 C694 RS00795 WP 000963128.1	.	347
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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 1022 ACIAD RS06390 WP 004925639.1	.	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.	347

consensus

 non conserved
 similar
 ≥ 50% conserved