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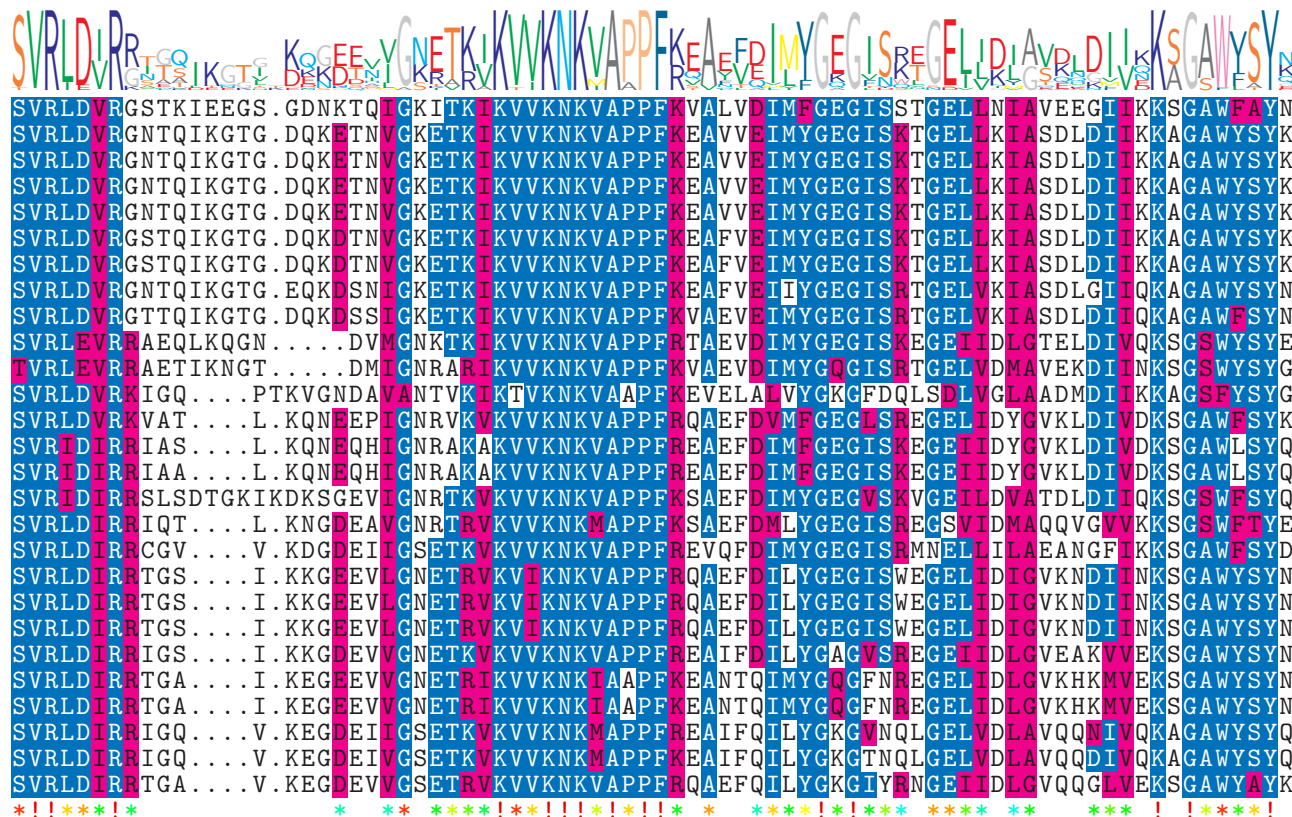
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKKT.....NFDDITKKYGA	ERDKALADALALIEKDFGKGSIMRLG	EA	.ANQKVS	VSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	.AEQKVQ	VSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	.AEQKVQ	VSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	.AEQKVQ	VSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	.AEQKVQ	VSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKPK.....KLDEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	.AEQKVQ	VSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKPK.....KLDEISKKFGA	EREKALNDALKLIEKDFGKGSIMRLG	ER	.AEQKVQ	VSSGSLALDIALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRK.....KTEEITKKFGD	ERRKALDDALKNIEKDFGKGAVMRLG	ER	.AEQKVQ	VSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKLK.....KNEEITKKFGD	ERRKALDDALKNIEKDFGKGAVMRLG	ER	.AEQKVQ	VSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MS	DRQAALDMALKQIEKQFGKGSIMKLGEK	.TDTR	ISTVPS	GSLALDTALGIGGYPGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKD	ERQAALDAALKKIEKNFGKGSIMRMGEK	.VDTQ	VSTVSS	GSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	ERSKATETAMSQIEKAFGKGSIMKLGAE	.SKLD	VQVSTG	SLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN	KRKSLSDAALKSLDKTFGKGTILRLGDK	.EVEQ	IDSIGT	GSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDE	DKQKATSLAIKQIDKVFGKGALVRLGDK	.QVEK	IDSIST	GSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDE	DKQKATSLAIKQIDKVFGKGALVRLGDK	.QVEK	IDAIST	GSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAK	.TETTSPNDKKKALAAVLEKLDKTYGKGTVMKLG	GTVDHN	IEVIPS	GSGLDLALGVGGYPKGR	68
NTDB id 1081822 ACK2JG RS09335 WP 007052644.1	.MALETKPAKDPAA	.EDKHELDPKRKAALDTALAQVEKSF	FGKGSAMRLGDQ	.PEQN	VEVPTGSLALDMALGIGGLPKGR	77
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKK	.SSKNNT.VVKQVEPEQKKQALEAAL	QIEKQFGKGSIMKLGQT	.EQLD	IESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAQIEKSFGKGAIMKMDGSQ	QEENLEVI	ISTGSL	GLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD	DKSKALAAALAQIEKSFGKGAIMKMDGSQ	QEENLEVI	ISTGSL	GLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD	DKSKALAAALAQIEKSFGKGAIMKMDGSQ	QEENLEVI	ISTGSL	GLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSA	EKQKALAAALAQIEKQFGKGSIMKMGDA	.EVEPVQ	VSTGSL	GLDVALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN	KQKALAAALGQIEKQFGKGSIMRLGDN	.RAMDVET	ISTGSL	SLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN	KQKALAAALGQIEKQFGKGSIMRLGDN	.RAMDVET	ISTGSL	SLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDN	KSKALQAALSQIEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSL	TLTDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDEN	KSKALQAALSQIEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSL	TLTDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDEN	KKRALAAALGQIEKQFGKGAVMRMGDH	.DRQA	IPSIST	GSLGLDIALGIGGLPKGR	59
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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 1081822 ACK2JG RS09335 WP 007052644.1  
 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	DEKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETE..EETAS.KTKAKAKKEEKAVETEEIELELED..	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLEDGEEVSEQD..TENKKE.E...PKKEEA..VNEEVPLDLGDEL	382
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLEDGEEVSEQD..TENKKE.E...PKKEEA..VNEEVPLDLGDEL	382
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLEDGEEVSEQD..TENKKE.E...PKKEEA..VNEEVPLDLGDEL	382
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLEDGEEVSEQD..TENKKE.E...PKKEEA..VNEEVPLDLGDEL	382
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSENAKKYLADNPEIFDEIDHQVRRVQFGLIDGEEIAES.....KKD.E...AAQVDS..VNEEVTLDLGDEL	378
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGSENAKKYLADNPEVFAEIDHQVRRVQFGLIDGEEAAES.....KKD.E...VAQVDS..VNEEVTLDLGDEL	378
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSENAKKFLADNPEIFDDIDHKVRRVQYGLIEEDNTEEKQ..SSKEK.....ETDEK..ADKNLVLELDDTI	379
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSENAKRYLADHPQLFDEIDRKRVRKFGLEESEESAM..AVASE.....E.....TDDLALDLNGI	374
NTDB id 115 BSU 16940 NP 389576.2	EERLGGGRENAXQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQA..EETQEE.L.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAKKNYLADHEDVEDEVRLKVRVAAAGISDVPEEDLPT..TEDE.Q.I.NILPDDST.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRENSKAFLENPEIADEITKAIQNSMGTIEGMISG..SEDDEG..EE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMP..LPDEPL..EEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEIMP..LPDEPL..EEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRDTPVKELIKDNPEIAEELAKIREKLQAK.....	343
NTDB id 1081822 ACK2JG RS09335 WP 007052644.1	GDQLGGGREKVRQFLKDNPAITTEIENKVKAEFGLIGSADQ..FAEDGEAA...AAAAVSEAAAADVAKDSKAAAAPAAK	386
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGGKNNAVKWLKENPEIADKLEQEI RNTLASNPNSVL..KATASDSNDESDVEEFSEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITE..GTQDET DGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITE..GTQDET DGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGGKDNVVRVWLKENPEISDEIDAKIRALNGVEMHITE..GTQDET DGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNCREFLRENAELAREIENKVRHLGVTPMGAV..TLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKANACKYLKENPEIAKTLDKKLREMLLNPNMQL..IAETSSAAD DVEFGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKANACKYLKENPEIAKTLDKKLREMLLNPNMQL..IAETSSAAD DVEFGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQT..AA.HDETEE EPDLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGGKNNVIRYFEENNQIAEIEIERNIREQLLTTGTNGA..VQ.I.EDEE EPDLL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTK..ATPVAEDLADADI.....	347
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NTDB id	Accession	Sequence	Position
600	KW2 RS01765 WP 011675413.1	.....	387
269	KZH43 RS08665 WP 001085462.1	EIEIEE.....	388
228	SPD RS09265 WP 001085462.1	EIEIEE.....	388
194	SPR RS08825 WP 001085462.1	EIEIEE.....	388
159	SP RS09750 WP 001085462.1	EIEIEE.....	388
499	SM12261 RS08315 WP 078228268.1	EIEIEE.....	384
527	SMSK321 RS11065 WP 001085454.1	EIEIEE.....	384
408	SMU RS09530 WP 002262392.1	ELED.....	383
453	Spy49 1753c ACI62003.1	EIED.....	378
115	BSU 16940 NP 389576.2	.....	348
625	LCA RS02525 WP 011374196.1	.....	355
1313	DR RS12030 WP 010888966.1	.....	363
1245	Cj1673c YP 002345041.1	.....	343
1211	C694 RS00795 WP 000963128.1	.....	347
1214	NCTC11637 00359 SQJ03206.1	.....	347
1334	RAOC RS04870 WP 004918236.1	.....	343
1081822	ACK2JG RS09335 WP 007052644.1	TTRAKAGTAKA	397
1389	A4U84 RS07560 WP 021112712.1	.....	372
1130	NGFG RS03960 WP 003688695.1	.....	348
1124	NGFG RS03960 WP 003688695.1	.....	348
1123	OK783 RS03845 WP 003688695.1	.....	348
1427	RS RS02760 WP 011000510.1	.....	352
1165	A1552VC RS01565 WP 000344154.1	.....	354
1142	GTF74 RS11550 WP 000344154.1	.....	354
1022	ACIAD RS06390 WP 004925639.1	.....	349
1074	ABD1 RS10195 WP 000344167.1	.....	349
1205	PSJM300 05545 AFN77183.1	.....	347

consensus

X non conserved  
X similar  
X ≥ 50% conserved