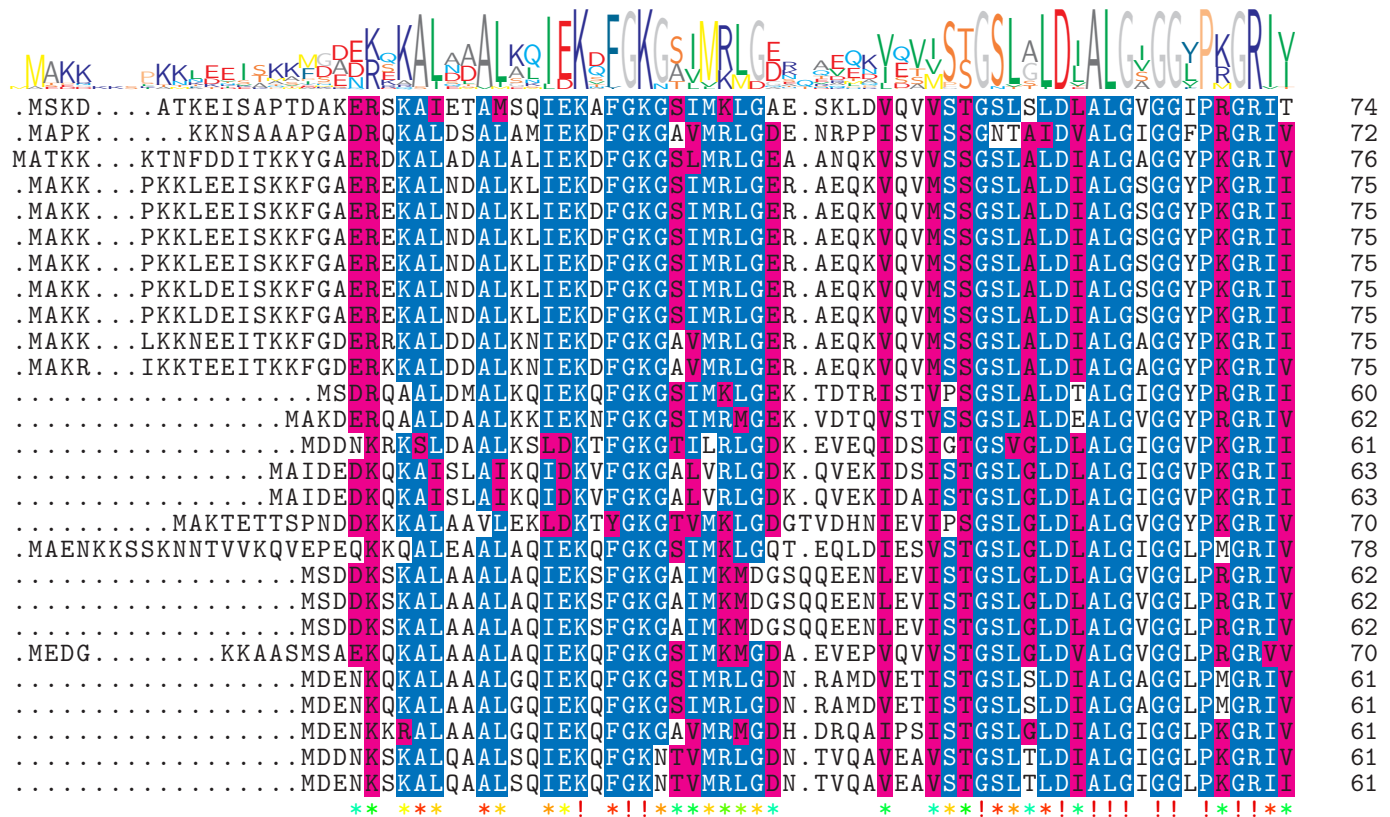


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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus



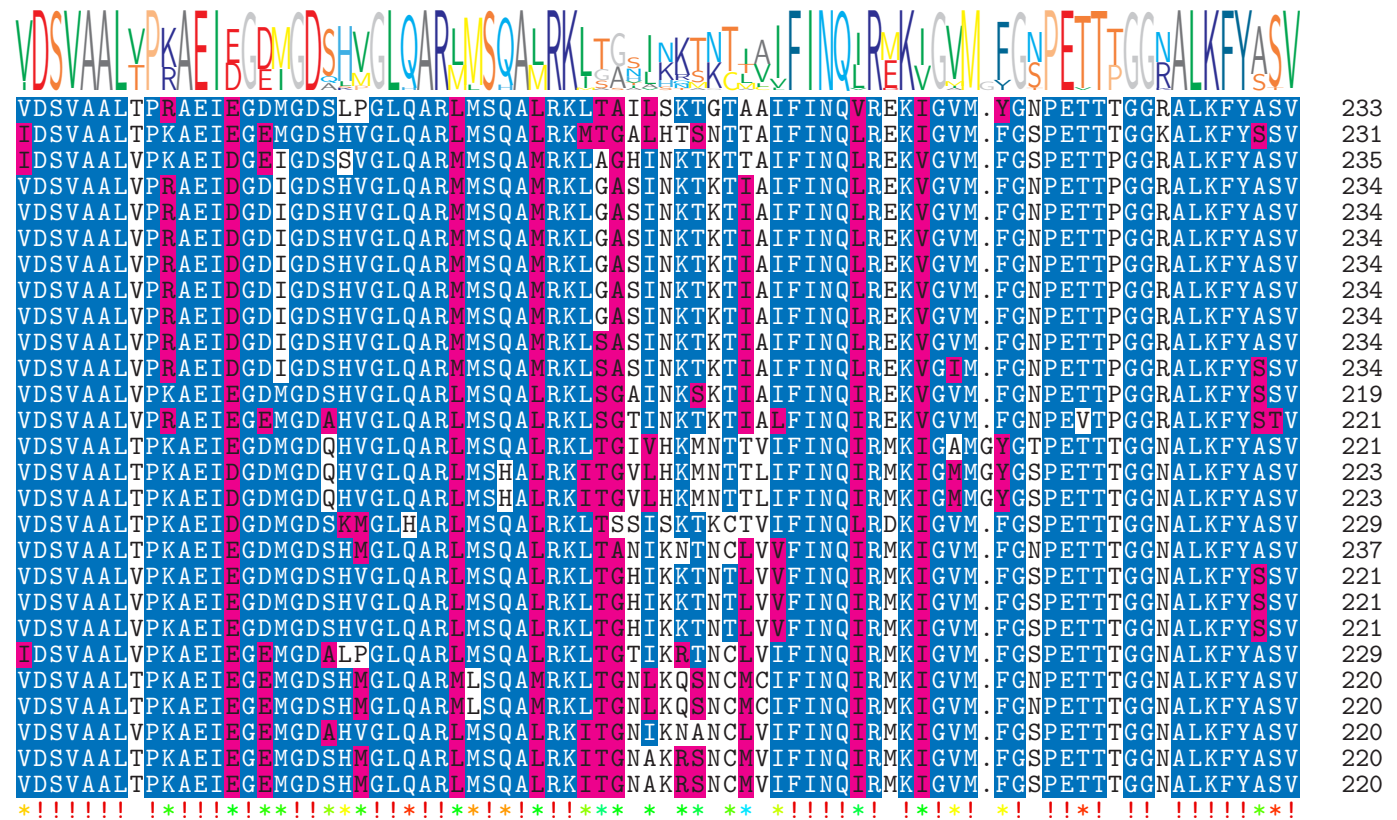
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NTDB id 600 KW2 RS01765 WP 011675413.1	EIYGPESSGKTTT	156
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIYGPESSGKTTT	155
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NTDB id 194 SPR RS08825 WP 001085462.1	EIYGPESSGKTTT	155
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIYGPESSGKTTT	155
NTDB id 453 Spy49 1753c ACI62003.1	EIYGPESSGKTTT	155
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	EIYGPESSGKTTT	143
NTDB id 1334 RAOC RS04870 WP 004918236.1	EIYGPESSGKTTT	150
NTDB id 1389 A4U84 RS07560 WP 021112712.1	EIYGPESSGKTTT	158
NTDB id 1130 NGFG RS03960 WP 003688695.1	EIYFGPESSGKTTT	142
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	EIYGPESSGKTTT	141
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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logo

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NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRGSTKIEEGS.GDNKTQ	IGKIT	KIKVVKNKVAPPFK	VALVDIMFGEGISSTGELL	NIAVEEGI	IKKSGAWFAYNDE	314			
NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPFKE	AVVEIMYGEGISKTGELL	KIASDLDI	IKKAGAWYSYKDE	313			
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPFKE	AVVEIMYGEGISKTGELL	KIASDLDI	IKKAGAWYSYKDE	313			
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPFKE	AVVEIMYGEGISKTGELL	KIASDLDI	IKKAGAWYSYKDE	313			
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPFKE	AVVEIMYGEGISKTGELL	KIASDLDI	IKKAGAWYSYKDE	313			
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKVAPPFKE	AFVEIMYGEGISKTGELL	KIASDLDI	IKKAGAWYSYKDE	313			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKVAPPFKE	AFVEIMYGEGISKTGELL	KIASDLDI	IKKAGAWYSYKDE	313			
NTDB id 453 Spy49 1753c ACI62003.1	RLDVRGTTQIKGTG.DQKDSS	IGKETK	IKVVKNKVAPPFK	VAEVEIMYGEGISRTGELV	KIASDLDI	IKKAGAWFSYNGE	313			
NTDB id 408 SMU RS09530 WP 002262392.1	RLDVRGNTQIKGTG.EQKDSN	IGKETK	IKVVKNKVAPPFKE	AFVEIIMYGEGISRTGELV	KIASDLGI	IKKAGAWFSYNGE	313			
NTDB id 115 BSU 16940 NP 389576.2	RLEVRR	AEQLKQGN.....DM	MGNKTK	IKVVKNKVAPPFR	TAEVDIMYGEGISKEGETI	IDLGTELDIV	QKSGSWSYEEEE	294		
NTDB id 625 LCA RS02525 WP 011374196.1	RLEVRR	AETIKNGT.....DM	IGNRARI	KVVKNKVAPPFK	VAEVDIMYGQGISRTGELV	DMAVEKDI	INKSGSWSYSGSE	296		
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NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNEQH	IGNRAKA	VVVKNKVAPPFREAEF	DIMFGEGISKEGETI	IDYGVKLDIV	DKSGAWLSYQDK	298			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQH	IGNRAKA	VVVKNKVAPPFREAEF	DIMFGEGISKEGETI	IDYGVKLDIV	DKSGAWLSYQDK	298			
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRS	LSDTGKIKDKSGEV	IGNRTK	VVVKNKVAPPFKSAEF	DIMYGEGVSKVGEILD	VATDLDI	IQKSGSWFSYQDT	309		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDGEI	IGSETK	VVVKNKVAPPFRE	VQFDIMYGEGISRMNELL	ILAEANGFI	IKKSGAWFSYDGT	312			
NTDB id 1130 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKGEVL	GNETR	VKVIVKNKVAPPFRQAEF	DILYEGGISWEGELID	IGVKNDI	INKSGAWSYNGA	296			
NTDB id 1124 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKGEVL	GNETR	VKVIVKNKVAPPFRQAEF	DILYEGGISWEGELID	IGVKNDI	INKSGAWSYNGA	296			
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRRTGA....I.KEGEEV	VGNETRI	KVVKNKIAAPFKE	ANTQIMYGQGFNREGELID	LG	VKHKMVEKSGAWSYNGD	295			
NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGA....I.KEGEEV	VGNETRI	KVVKNKIAAPFKE	ANTQIMYGQGFNREGELID	LG	VKHKMVEKSGAWSYNGD	295			
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEGDEV	VGSETR	VVVKNKVAPPFRQAEF	QILYGKGIVRNGEI	IDLGV	QGLVEKSGAWYAYKGS	295			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIRRIGQ....V.KEGDEI	IGSETK	VVVKNKMAPPFREAI	FIQILYGKGIVNQLGELVD	LAVQQNIV	QKAGAWYSYQGN	295			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIRRIGQ....V.KEGDEI	VGSETK	VVVKNKMAPPFKE	AI	FIQILYGKGITNQLGELVD	LAVQQDIV	QKAGAWYSYQGN	295		
consensus	!***!*	*	**	*****!***!!*****!*	*	*****!*!*****	*****	***	***	! !*****!

logo

NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIA ^Y IAERP ^E MEQEIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
NTDB id 409786 CATRI RS07780 WP 290216322.1	QLGGGKEKARLL ^L LKETPELADEIERKIFAKLGI ^G GPEAASADGSDLSD.DPVDMP.....NVDFDDD	367
NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGA ^E EKA ^K KNYLKEHQDV ^F DEIDHKVRAAHGLDDSEVAETEEETTAS ^K TKAKAKKEEKAVETEEIELELED.....	387
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NTDB id 159 SP RS09750 WP 001085462.1	KIGQGS ^E ENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKK ^D E....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGS ^E ENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIEIE	383
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGS ^E ENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDELEIEIE	383
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NTDB id 1211 C694 RS00795 WP 000963128.1	KLGGGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDEP..LEEM.E.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KLGGGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDEP..LEEM.E.....	347
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NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDE.TDGERP.....EE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDE.TDGERP.....EE.....	348
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYLKENPEIAKTLDKKLREMLLNPENMQLIAETSSAADV.EFGAVP.....EEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGGKANA ^A KYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEP.DLL..E.....S.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGTNGAVQ.I.EDEEFP.DLL..L.....ES.....	349
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NTDB id 1313 DR RS12030 WP 010888966.1		363
NTDB id 409786 CATRI RS07780 WP 290216322.1	EDAAAAAAE	375
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
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NTDB id 625 LCA RS02525 WP 011374196.1		355
NTDB id 1245 Cj1673c YP 002345041.1		343
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
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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