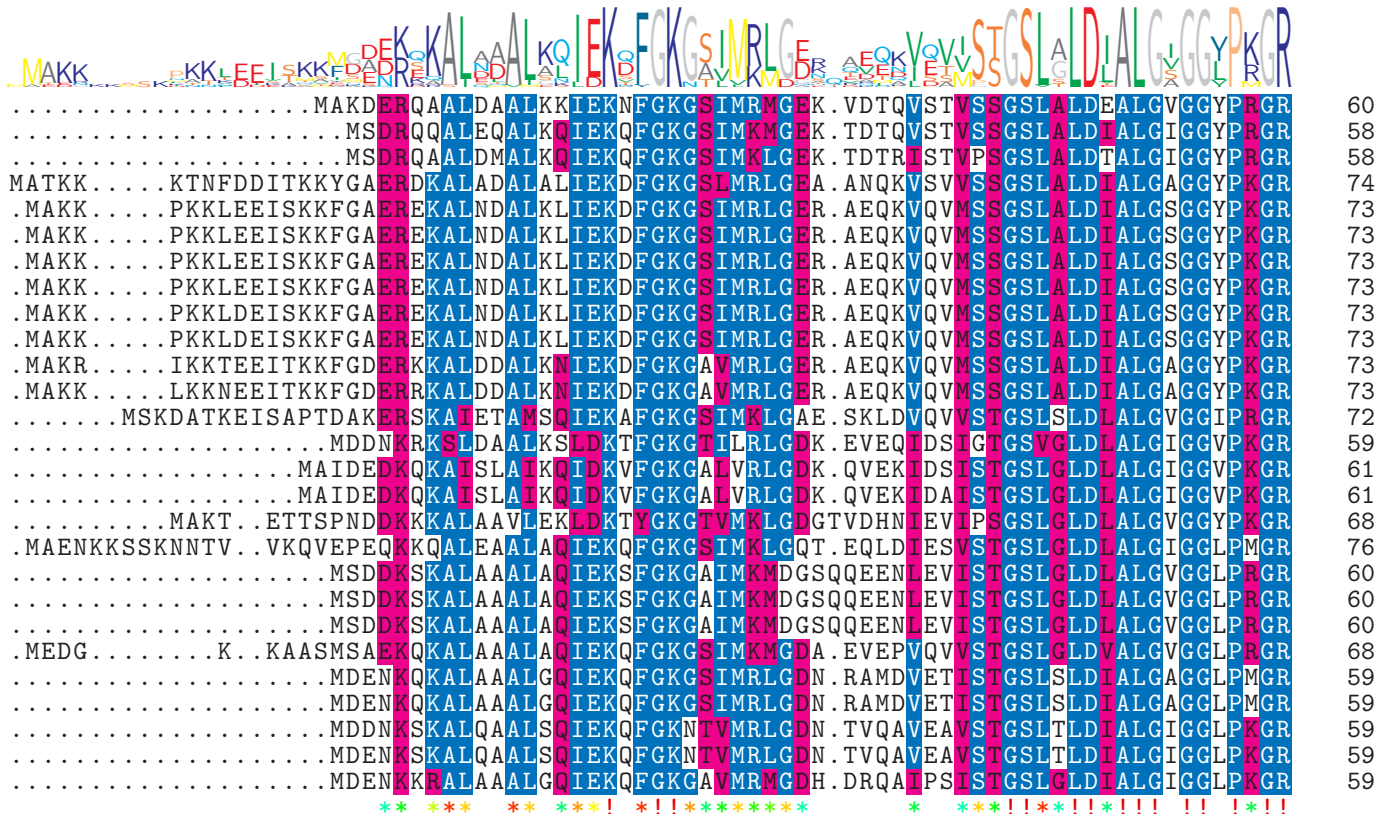


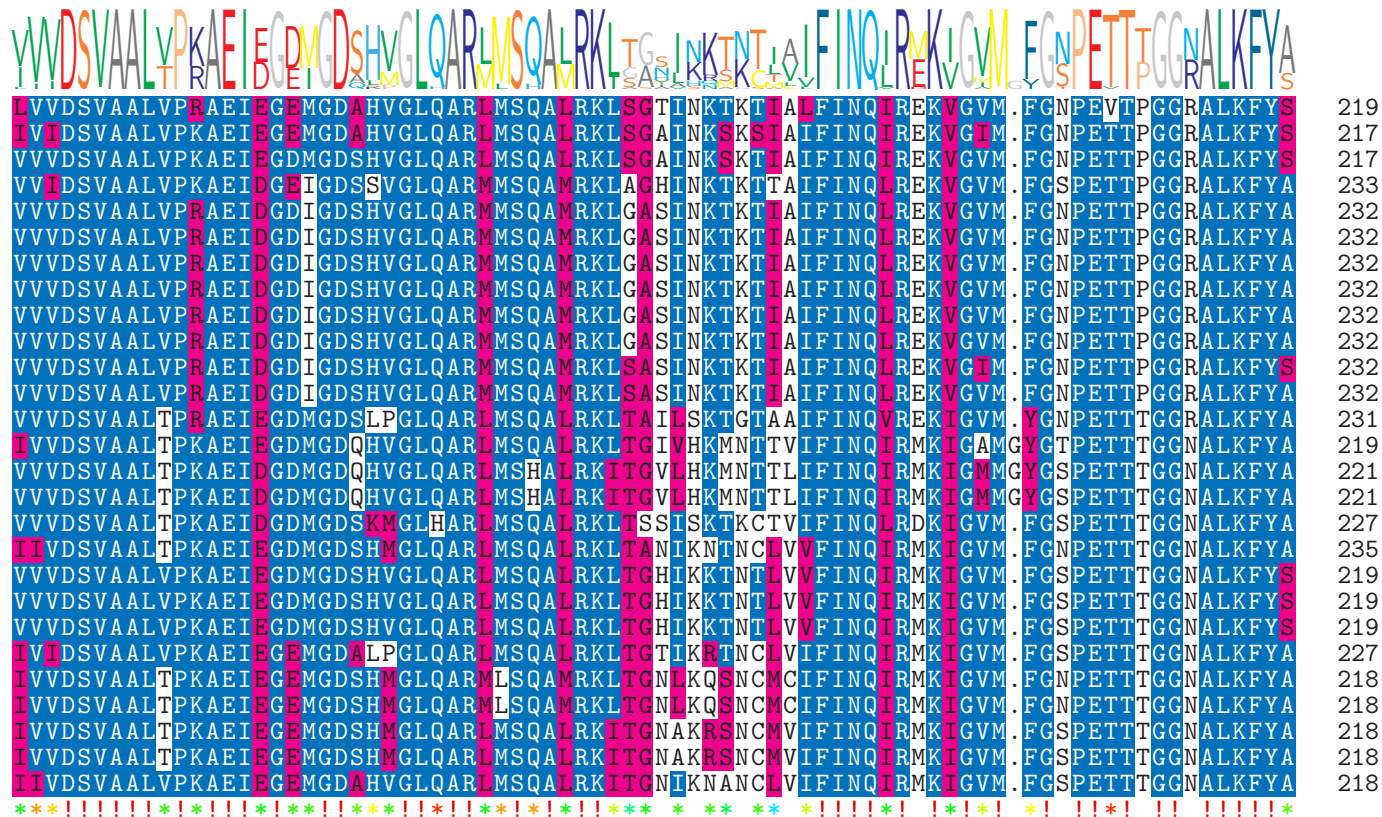
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



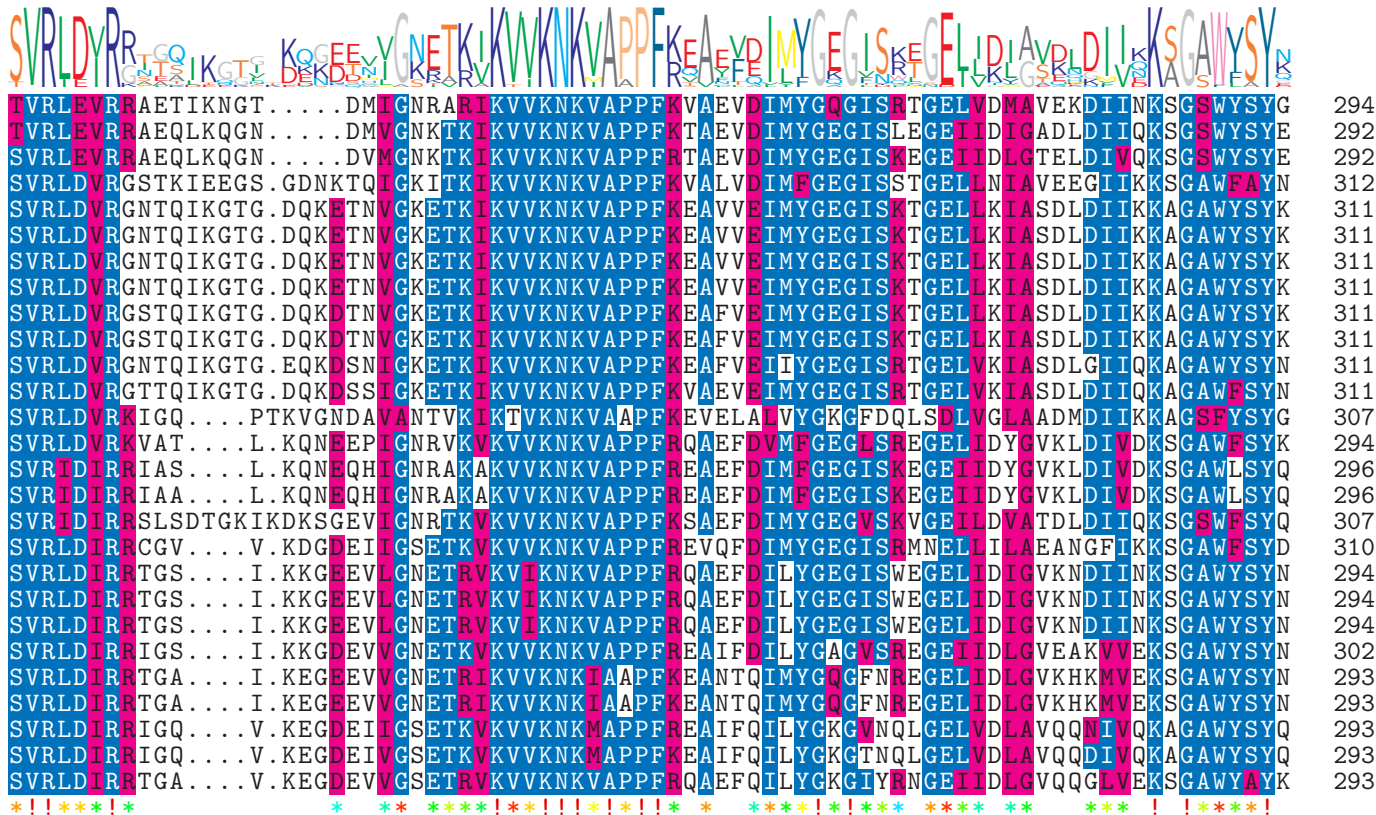
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NTDB id 1016933 NSQ88 RS10600 WP 034769943.1	IVEIYGP	ESSGKTT	VALHAVA	AEVQKQ	GGQA	AFDAEHAL	DPKYAQA	LGVMID	DELL	SQPD	GEQGLE	ITAEAL	VRSGAVD	I	138		
NTDB id 115 BSU 16940 NP 389576.2	IVEIYGP	ESSGKTT	VALHAVA	AEVQKQ	GGQA	AFDAEHAL	DPVYAQK	LGVMID	DELL	SQPD	GEQGLE	ITAEAL	VRSGAVD	I	138		
NTDB id 600 KW2 RS01765 WP 011675413.1	IVEIYGP	ESSGKTT	VALHAVA	AAVQKE	GGIAAF	IDAENAL	DPEYAKA	LGVMID	DELL	SQPD	YGEQGL	ITAEKL	ITSGAVD	L	154		
NTDB id 269 KZH43 RS08665 WP 001085462.1	IVEIYGP	ESSGKTT	VALHAVA	QAQKE	GGIAAF	IDAENAL	DPAYAAA	LGVMID	DELL	SQPD	SGEQGLE	ITAGKL	IDSGAVD	L	153		
NTDB id 228 SPD RS09265 WP 001085462.1	IVEIYGP	ESSGKTT	VALHAVA	QAQKE	GGIAAF	IDAENAL	DPAYAAA	LGVMID	DELL	SQPD	SGEQGLE	ITAGKL	IDSGAVD	L	153		
NTDB id 194 SPR RS08825 WP 001085462.1	IVEIYGP	ESSGKTT	VALHAVA	QAQKE	GGIAAF	IDAENAL	DPAYAAA	LGVMID	DELL	SQPD	SGEQGLE	ITAGKL	IDSGAVD	L	153		
NTDB id 159 SP RS09750 WP 001085462.1	IVEIYGP	ESSGKTT	VALHAVA	QAQKE	GGIAAF	IDAENAL	DPAYAAA	LGVMID	DELL	SQPD	SGEQGLE	ITAGKL	IDSGAVD	L	153		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IVEIYGP	ESSGKTT	VALHAVA	QAQKE	GGIAAF	IDAENAL	DPAYAAA	LGVMID	DELL	SQPD	SGEQGLE	ITAGKL	IDSGAVD	L	153		
NTDB id 499 SM12261 RS08315 WP 078228268.1	IVEIYGP	ESSGKTT	VALHAVA	QAQKE	GGIAAF	IDAENAL	DPAYAAA	LGVMID	DELL	SQPD	SGEQGLE	ITAGKL	IDSGAVD	L	153		
NTDB id 408 SMU RS09530 WP 002262392.1	IVEIYGP	ESSGKTT	VALHAVA	QAQKD	GGIAAF	IDAENAL	DPAYAAA	LGVMID	DELL	SQPD	SGEQGLE	ITAGKL	IDSGAVD	L	153		
NTDB id 453 Spy49 1753c ACI62003.1	IVEIYGP	ESSGKTT	VALHAVA	QAQKE	GGIAAF	IDAENAL	DPAYAAA	LGVMID	DELL	AQPD	SGEQGLE	ITAGKL	IDSGAVD	L	153		
NTDB id 1313 DR RS12030 WP 010888966.1	ITEIYGP	ESSGKTT	LALAI	VQAQK	AGGTCA	FIDAEHAL	DPVYARAL	LGVMID	DELL	VSQPDN	GEQALEI	MDLL	VRSGAID	V	152		
NTDB id 1245 Cj1673c YP 002345041.1	IVEIYGP	ESSGKTT	TLHII	AEQKQ	AGGVCA	FIDAEHAL	DPVYAKN	LGVMID	DELL	YSQPD	FGEQALEI	IVETI	ARSGAVD	L	139		
NTDB id 1211 C694 RS00795 WP 000963128.1	IVEIYGP	ESSGKTT	LSLHII	AEQKQ	NGGVCA	FIDAEHAL	DPVHYAKR	LGVD	TENLL	V	SQPD	GEQALEI	LETIT	TRSGGID	L	141	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IVEIYGP	ESSGKTT	LSLHII	AEQKQ	NGGVCA	FIDAEHAL	DPVHYAKR	LGVD	TENLL	V	SQPD	GEQALEI	LETIT	TRSGGID	L	141	
NTDB id 1334 RA0C RS04870 WP 004918236.1	IVEIYGP	ESSGKTT	TLHAI	AEAKKV	GGTA	AFIDAEHAL	DPVDMHYAEK	LGVD	TENLL	V	SQPD	GEQALEI	ADSL	TRSGGVD	I	148	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IVEIYGP	ESSGKTT	TLSLI	AQAQK	GNKTC	AFIDAEHAL	DPVYARN	LGVMID	DELL	V	SQPD	GEQALEI	CDAL	VRSGAVD	V	156	
NTDB id 1130 NGFG RS03960 WP 003688695.1	IVEIFGP	ESSGKTT	LLEAVA	QCCQKN	GGVCAF	VDAEHAF	DPVYARK	LGVK	VEELYL	SQPD	GEQALEI	CDTL	VRSGGID	M	140		
NTDB id 1124 NGFG RS03960 WP 003688695.1	IVEIFGP	ESSGKTT	LLEAVA	QCCQKN	GGVCAF	VDAEHAF	DPVYARK	LGVK	VEELYL	SQPD	GEQALEI	CDTL	VRSGGID	M	140		
NTDB id 1123 OK783 RS03845 WP 003688695.1	IVEIFGP	ESSGKTT	LLEAVA	QCCQKN	GGVCAF	VDAEHAF	DPVYARK	LGVK	VEELYL	SQPD	GEQALEI	CDTL	VRSGGID	M	140		
NTDB id 1427 RS RS02760 WP 011000510.1	VVEIYGP	ESSGKTT	TLQVVA	EMQKL	GGTCA	FIDAEHAL	DPVYADK	LGVK	VPD	LL	SQPD	GEQALEI	ADAL	VRSGVD	L	148	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IVEIFGP	ESSGKTT	LLELIA	AAQRE	BGKTC	AFIDAEHAL	DPVYAKK	LGVMID	DELL	V	SQPD	GEQALEI	CDAL	ARSGAVD	V	139	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IVEIFGP	ESSGKTT	LLELIA	AAQRE	BGKTC	AFIDAEHAL	DPVYAKK	LGVMID	DELL	V	SQPD	GEQALEI	CDAL	ARSGAVD	V	139	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IVEIYGP	ESSGKTT	MTLQAI	AQCCQK	AGGTCA	FIDAEHAL	DPQYARK	LGVD	IDNLL	V	SQPD	HGEQALEI	ADML	VRSGAID	L	139	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IVEIYGP	ESSGKTT	MTLQAI	AQCCQK	SGGTCA	FIDAEHAL	DPQYARK	LGVD	IDNLL	V	SQPD	GEQALEI	ADML	VRSGAID	L	139	
NTDB id 1205 PSJM300 05545 AFN77183.1	IVEIYGP	ESSGKTT	TLSVI	IAAQR	BMGSTC	AFVDAEHAL	DPDYAGK	LGVMID	DELL	V	SQPD	GEQALEI	TML	VRSN	AVD	V	139
consensus	***!***!!!!*!!!!*!	***!	!* **	!***!!!!*!*!	!!	!!******!***!!!!*!!!!*!*!	* **	***!***!*									

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consensus



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consensus



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NTDB id 115 BSU 16940 NP 389576.2	EERLGGQREN	AKQFLKENKDI	MLMIQEQIREHYC	LDNNGVVQQAE	.ET....	QEELEFEE		348		
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQCAEK	AKNYLKEHQDV	FEIDHKVRAAHCL	LDDSEVAETEEETT		ASKTKAKAKKEEK	AVETEEIELELED	387		
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NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHP	EIFDEIDKQVRSK	FC	LIDGEEVSEQD	TENK....	KDE....PKKEEA	.VNEEVPLDLGDE	381	
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADN	PEVFAEIDHQV	RVQFC	LIDGEEAAE		SK....KDE	VAQVDS	.VNEEVTLDLGDE	377
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NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADN	PEIFDDIDHKV	RVQYCL	IEEDNTEEKQSS	KE....	K.....ETDEK	.ADKNLVLELDDT	378	
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADH	PQLFDEIDRKV	RVKFC	LEESEEEESAM	AVAS....	E.....E.....	TDDLALDLNG	373	
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NTDB id 1334 RA0C RS04870 WP 004918236.1	DTKLGQCRD	TVKELTKDN	PEIAEELAKI	REKLQAK		343				
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NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQCKD	NVRVWLKEN	PEISDEIDAKI	RALNCVEMHI		TEGTQDET	DGER.....	PEE	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQCKD	NVRVWLKEN	PEISDEIDAKI	RALNCVEMHI		TEGTQDET	DGER.....	PEE	348	
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQCRD	NCREFLREN	AEIAREIENK	VREHLCTPMG		AVTLA.EEVEE	D		352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQCK	ANACKYLLKEN	PEIAKTLDKKI	REMLLNPENM		QLIAETSSAA	DDVEFGAVPEE	F	354	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQCK	ANACKYLLKEN	PEIAKTLDKKI	REMLLNPENM		QLIAETSSAA	DDVEFGAVPEE	F	354	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQCK	NNVIRYLB	ENPQISTE	IEAVIREQLL	TKASD....	QTAA.HDETE	EEPDLL..ES		349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQCK	NNVIRYFE	ENNQIAFEI	ERNIREQLL	TTGTN....	GAVQ.I.EDEE	EPDLL..LES		349	
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQCK	ANAACKYLB	ENPEIGQEIE	QQIRAKLLV	TSAN....	TKATPVAED	LADADI		347	
consensus	***!!!	*****	***	*****	*****	***	***	***	***	

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NTDB id 600 KW2 RS01765 WP 011675413.1			387
NTDB id 269 KZH43 RS08665 WP 001085462.1	LEIEIEE		388
NTDB id 228 SPD RS09265 WP 001085462.1	LEIEIEE		388
NTDB id 194 SPR RS08825 WP 001085462.1	LEIEIEE		388
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NTDB id 1245 Cj1673c YP 002345041.1			343
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NTDB id 1142 GTF74 RS11550 WP 000344154.1			354
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NTDB id 1074 ABD1 RS10195 WP 000344167.1			349
NTDB id 1205 PSJM300 05545 AFN77183.1			347
consensus			

- non conserved
- similar
- ≥ 50% conserved