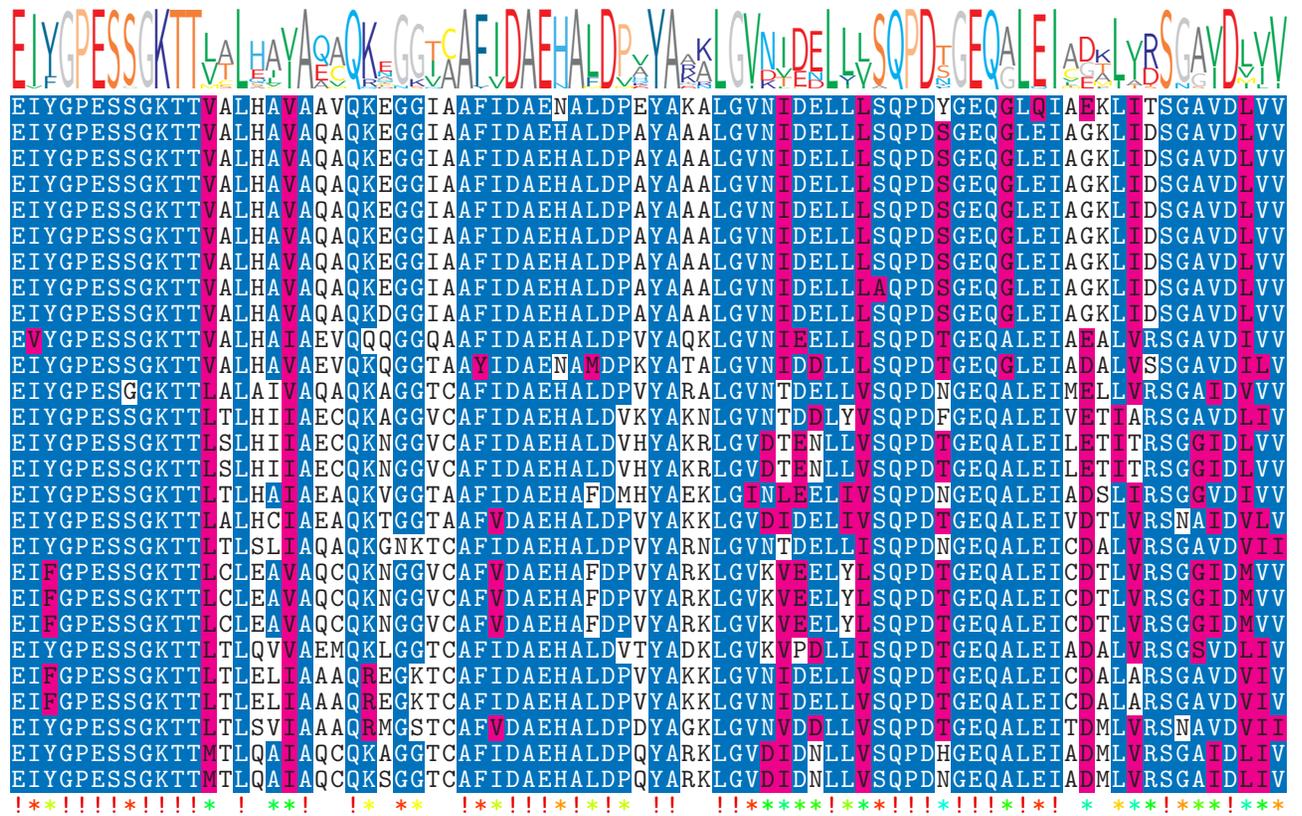


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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 129367 LH20 RS06955 WP 053553582.1
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 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	LDDSEVAET	..EEE	TTASKTKAKAKKEEKAVETEEIELELED	...	387		
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSEQ	..DTE	NKKDE	....PKKEEA..VNEEVPLDLGDELEI	384	
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSEQ	..DTE	NKKDE	....PKKEEA..VNEEVPLDLGDELEI	384	
NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSEQ	..DTE	NKKDE	....PKKEEA..VNEEVPLDLGDELEI	384	
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSEQ	..DTE	NKKDE	....PKKEEA..VNEEVPLDLGDELEI	384	
NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGS	ENAKKYLADNPEIF	FEIDHQVRVQFGL	LIDGEEIAES	.....	KKDE	....AAQVDS..VNEEVTLDLGDELEI	380
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGS	ENAKKYLADNPEVFAE	IDHQVRVQFGL	LIDGEEAAES	.....	KKDE	....VAQVDS..VNEEVTLDLGDELEI	380
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGS	ENAKRYLADHPQLF	FEIDRKVRVKFG	LEESEEEESA	..MAV	ASE	.....E.....TDDLALDLNGIEI	376	
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEK	..QSS	KEK	.....ETDEK..ADKNLVLELDDTIEL	381	
NTDB id 115 BSU 16940 NP 389576.2	RLGQGR	ENAKQFLKENKDIMLMI	IQEQIREHYGL	DNNGVVQQQ	..AEE	TQEEL	..EFE.E.....	348		
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGR	ENAKNYLADHEDVEDEV	RLKVRVAAAYG	ISDVPEEDLP	..TTE	DE	..QI.NILPDDST.....EE	355		
NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGK	EKTIAIYTAERP	EMEQRDRVMAAIR	AGNAGEAPALAP	APAAPEAAEA	.....	.....	363
NTDB id 1245 Cj1673c YP 002345041.1	KLGGGR	ENSKAFLKENPEIADE	ITKAIQNSMGI	EGMISG	..S	..EDD	..E.GEE	343	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KLGGGR	ENAKALLKEDKALADE	ITLKI	KESIGSNEEIMP	..L	..PDE	..P.LEEME	347	
NTDB id 1211 C694 RS00795 WP 000963128.1	KLGGGR	ENAKALLKEDKALADE	ITLKI	KESIGSNEEIMP	..L	..PDE	..P.LEEME	347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	KLGGGR	DTVKELIKDNP	EALAELEAKI	REKLQAK	.....	.....	.....	343
NTDB id 129367 LH20 RS06955 WP 053553582.1	RIGQGR	ENAKNFLTENPEL	MERLETAIRGR	TDVAEEMM	..A	..GPDD	..EGDDI	358	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGN	NAVVKWLKENPEIAD	KLEQEI	RNTLASNPNSVL	..K	..ATASDSN	DES	SDVEEF.....SEEEL	372	
NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGD	NVRVWLKENPEISDE	IDAKIRALNGVEM	HITE	..G	..TQDET	DGER.....PEE	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGD	NVRVWLKENPEISDE	IDAKIRALNGVEM	HITE	..G	..TQDET	DGER.....PEE	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGD	NVRVWLKENPEISDE	IDAKIRALNGVEM	HITE	..G	..TQDET	DGER.....PEE	348	
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGR	DNCREFLRENAELARE	IENKVR	REHLGVTPMGAV	TLAEEVEED	352		
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NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGN	ANAACKYLEENPEIG	IEEQIRAKLLV	TSANTK	..A	..TPVAEDLAD	ADI	347	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGN	NVIRYLEENPQISTE	IEEAVIREQLL	TKASDQT	..A	..A	..HDETEE	EPDLL.....ES	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGN	NVIRYFENNQIAEE	IERNIREQLL	TTGTNGA	..V	..Q	..I	..EDEE	EPDLL.....LES	349
consensus	**!!!	*****	**	*****	****	**	**	**		

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	E	I	E	E	
NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	I	E	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	I	E	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	I	E	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	I	E	E	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	I	E	E	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	I	E	E	384
NTDB id 453 Spy49 1753c ACI62003.1	E	D	.	.	378
NTDB id 408 SMU RS09530 WP 002262392.1	E	D	.	.	383
NTDB id 115 BSU 16940 NP 389576.2	348
NTDB id 625 LCA RS02525 WP 011374196.1	355
NTDB id 1313 DR RS12030 WP 010888966.1	363
NTDB id 1245 Cj1673c YP 002345041.1	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	347
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	349

consensus

non conserved
 similar
 ≥ 50% conserved