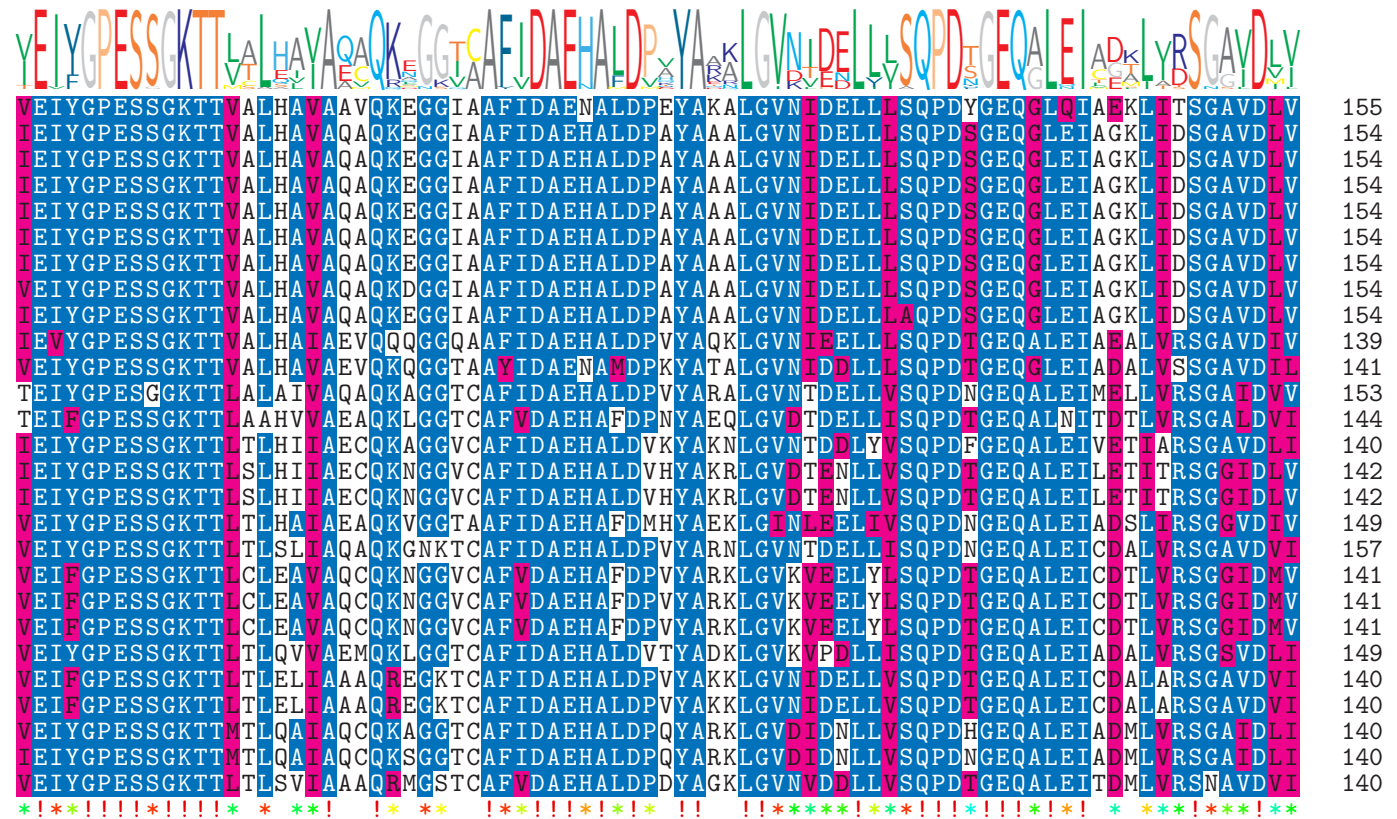


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NTDB id 408 SMU RS09530 WP 002262392.1	MAKRIKKTEEITKKFGERDKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRI		74
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NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDIALGIGGYPGRGI		59
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPGRGI		61
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPGRGI		73
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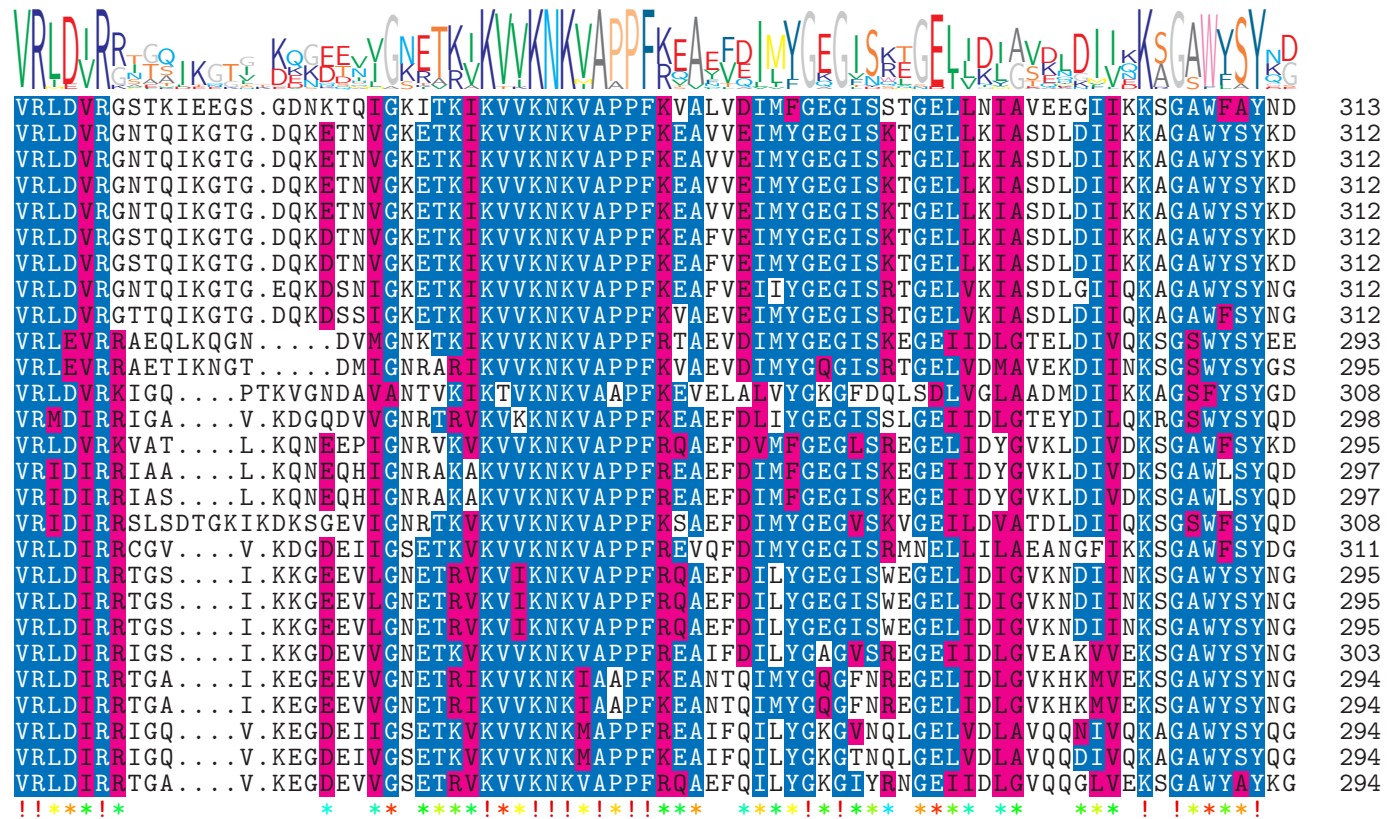
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NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
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consensus



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NTDB	id	269	KZH43	RS08665	WP	001085462.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S		233			
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NTDB	id	1022	ACIAD	RS06390	WP	004925639.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	I	T	G	N	A	K	R	S	N	C	M	V	I	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S		219
NTDB	id	1074	ABD1	RS10195	WP	000344167.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	I	T	G	N	A	K	R	S	N	C	M	V	I	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S		219
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NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
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consensus



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NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIFDEID	KQVRSKFGL	IDGEEVS		EQDTENKK	DE....	PKKEEA	..VNEEVPLDLGDE	381				
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIFDEID	KQVRSKFGL	IDGEEVS	....	EQDTENKK	DE....	PKKEEA	..VNEEVPLDLGDE	381				
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADN	PEIFDEID	HQVRVQFGL	IDGEEIA	....	ES....	KKDE....	AAQVDS	..VNEEVTLDLGDE	377				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADN	PEVFAEID	HQVRVQFGL	IDGEEAA	....	ES....	KKDE....	VAQVDS	..VNEEVTLDLGDE	377				
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADN	PEIFDDID	HKVRVQYGL	IEEDNTE	....	EKQSSKEK	.....	ETDEK	..ADKNLVLELDDT	378				
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADH	PQLFDEID	RKVRVKFGL	LEESEEE	....	SAMAVASE	.....	E.....	TDDLALDLDNG	373				
NTDB id 115 BSU 16940 NP 389576.2	ERLGGG	RENAKQFLK	ENKDIMLM	IQEQIREHY	GLDNNGVVQ	....	QQAETQEEL	EFEE	E.....	.....	348				
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYLAD	HEDVEDEV	RLKVRAAYG	ISDVPEED	....	LPTTEDE	QI	NILPDDST	EE	.....	355			
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIA	YTAERP	EMEQEIRDR	VMAAIRAGN	AGEAPALAP	APEAAE	A	.....	.....	.....	363			
NTDB id 301036 DRG92 RS07880 WP 011404279.1	ETIAQG	RENTKEW	LEENDEQR	DEIKSALR	GEICLATV	DE....	DSEED	EEEEAE	....	AAAAE	EA	.....	353		
NTDB id 1245 Cj1673c YP 002345041.1	KKLGGG	RENSKAF	LKENPEI	ADEITKAI	QNSMGIE	GMIS....	GSEDD	..EGE	E.....	.....	.....	.....	343		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGGG	RENAKALL	KEDKAL	ADEITLKI	KESIGS	NEEIM....	PLPDE	..PLE	EME	.....	.....	.....	347		
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGGG	RENAKALL	KEDKAL	ADEITLKI	KESIGS	NEEIM....	PLPDE	..PLE	EME	.....	.....	.....	347		
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGGG	RDTVKEL	IKDNPEI	AEELEAKI	REKLQAK	.....	.....	.....	.....	.....	.....	.....	343		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVKW	LKENPEI	ADKLEQEI	RNTLASNP	NSV....	LKATASD	SND	ESDV	EEFSE	EEL	.....	372		
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVW	LKENPEI	SDEIDAKI	RALNGV	EMHIT....	EGTQDET	DGE	R.....	PE	E	.....	348		
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVW	LKENPEI	SDEIDAKI	RALNGV	EMHIT....	EGTQDET	DGE	R.....	PE	E	.....	348		
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVRVW	LKENPEI	SDEIDAKI	RALNGV	EMHIT....	EGTQDET	DGE	R.....	PE	E	.....	348		
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCRE	FLRENAE	LAREIENK	VREHLGV	TPMGA....	VTLA	..EEVEE	D	.....	.....	.....	352		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACKY	LKENPEI	AKTLDK	KLREMLLN	PNENMQ....	LIAETSS	AAD	DVEFG	AVPE	EF	.....	354		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACKY	LKENPEI	AKTLDK	KLREMLLN	PNENMQ....	LIAETSS	AAD	DVEFG	AVPE	EF	.....	354		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIRY	LEENPQI	STEIEAVI	REQLLT	TKASDQ....	TAA	..HDETEE	EPDLL	..ES	.....	.....	349		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIRY	FEENNQI	AEIERNI	REQLLT	TTGTNG....	AVQ	..I	ED	EE	EPDLL	..LE	S		349
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANA	AKYLEEN	PEIGQEI	EQQIRAK	LLVTSANT		KATPVA	EDLA	..DADI					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
NTDB id 159 SP RS09750 WP 001085462.1	LEIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	383
NTDB id 453 Spy49 1753c ACI62003.1	IEIED..	378
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 301036 DRG92 RS07880 WP 011404279.1	.....	353
NTDB id 1245 Cj1673c YP 002345041.1	.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....	343
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
NTDB id 1427 RS RS02760 WP 011000510.1	.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved