

logo

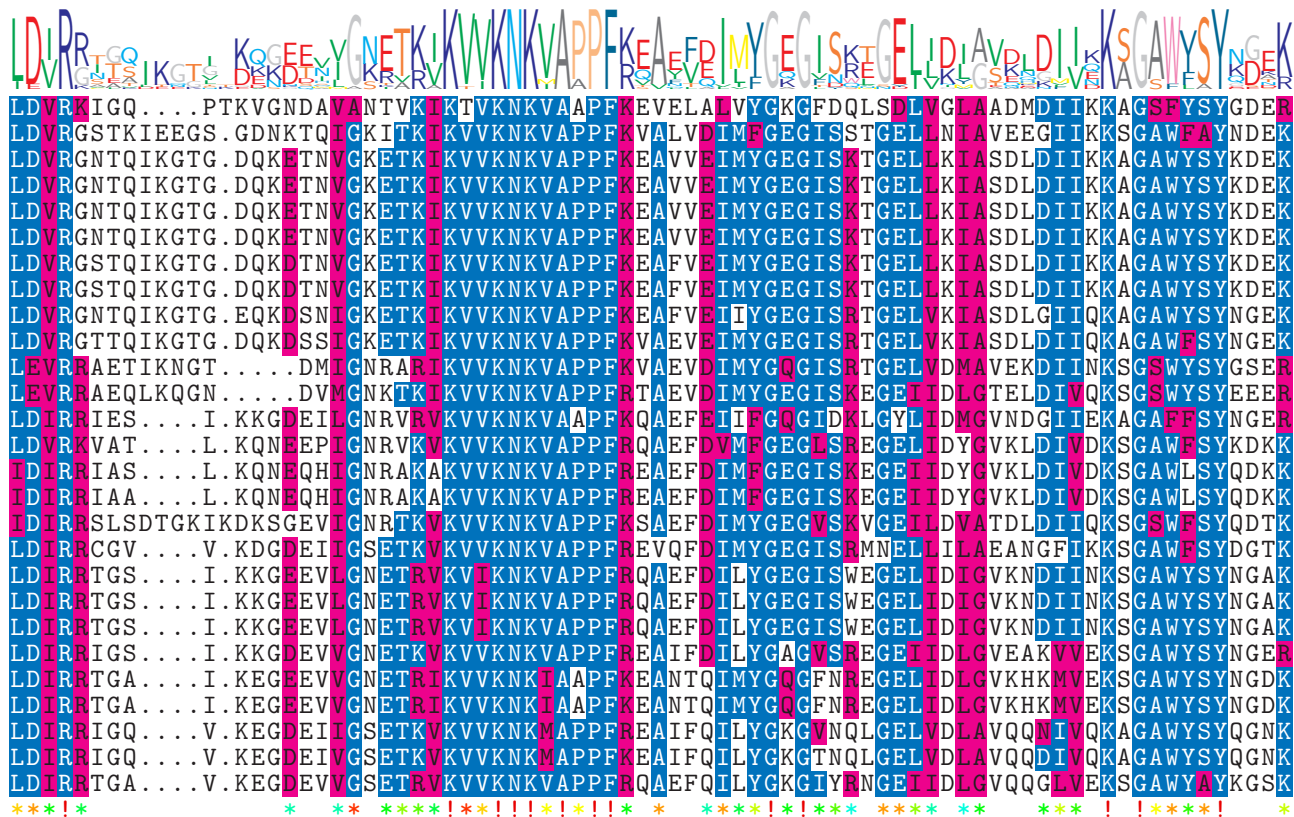


NTDB id 1313 DR RS12030 WP 010888966.1	MSK...DATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRITE	75
NTDB id 600 KW2 RS01765 WP 011675413.1	MA..TKKKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIVE	77
NTDB id 269 KZH43 RS08665 WP 001085462.1	.M..AKKPKKLEEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 228 SPD RS09265 WP 001085462.1	.M..AKKPKKLEEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 194 SPR RS08825 WP 001085462.1	.M..AKKPKKLEEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 159 SP RS09750 WP 001085462.1	.M..AKKPKKLEEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.M..AKKPKKLDEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 499 SM12261 RS08315 WP 078228268.1	.M..AKKPKKLDEISKKFGEERDKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 408 SMU RS09530 WP 002262392.1	.M..AKRIKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVE	76
NTDB id 453 Spy49 1753c ACI62003.1	.M..AKKLLKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVE	76
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIVE	63
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDIALGIGGYPGRIVE	61
NTDB id 56444 HOI88 RS04665 WP 015423629.1	.....MAKDEKLKALDLALSQIEKDFGKEAIMRLGEKHSKERVDSIPTGALPLDITATIGGIPRGRIVE	64
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIVE	62
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDISTGSLGLDLALGIGGVPKGRIVE	64
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDISTGSLGLDLALGIGGVPKGRIVE	64
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDDGTVDHNIIEVIPSGSLGLDLALGVGGYPKGRIVE	71
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKSNNNTVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIVE	79
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALGVGGLPGRIVE	63
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALGVGGLPGRIVE	63
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALGVGGLPGRIVE	63
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPGRVVE	71
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIVE	62
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIVE	62
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE	62
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE	62
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKBALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRIVE	62
consensus	*** ** * **!* *!***** * ***!***!!*!! !!*!!**!	

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NTDB id 1313 DR RS12030 WP 010888966.1
 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 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 56444 HOI88 RS04665 WP 015423629.1
 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 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

consensus



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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGK	EKTIA	YTA	ERP	EME	QEIR	DRV	MAA	IRAG	NAGE	APAL	PAPAA	PEAAEA	363																																									
NTDB id 600 KW2 RS01765 WP 011675413.1	IGQGA	EKA	KNYL	K	EHQ	DV	FDEI	DHK	VRA	AH	GL	LLD	DSE	VA	ETE	EETT	ASKT	KAKAK	KKEE	KAV	ETEE	EIE	LE	.....	387																															
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGS	ENAK	KYLA	AEH	PEI	FDEI	DKQ	VRS	KFGL	LID	GEE	VSE	QD	TEN	KK	DE	....	PKKEEA	..	VNEE	VPLD	LG	D	E	E	E	.....	388																											
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGS	ENAK	KYLA	AEH	PEI	FDEI	DKQ	VRS	KFGL	LID	GEE	VSE	QD	TEN	KK	DE	....	PKKEEA	..	VNEE	VPLD	LG	D	E	E	E	.....	388																											
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGS	ENAK	KYLA	AEH	PEI	FDEI	DKQ	VRS	KFGL	LID	GEE	VSE	QD	TEN	KK	DE	....	PKKEEA	..	VNEE	VPLD	LG	D	E	E	E	.....	388																											
NTDB id 159 SP RS09750 WP 001085462.1	IGQGS	ENAK	KYLA	AEH	PEI	FDEI	DKQ	VRS	KFGL	LID	GEE	VSE	QD	TEN	KK	DE	....	PKKEEA	..	VNEE	VPLD	LG	D	E	E	E	.....	388																											
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGS	ENAK	KYLA	DN	PEV	FAE	IDH	QV	RV	VQ	FGL	LID	GEE	AAE	SKK	DE	VAQ	VDS	..	VNEE	V	T	L	D	LG	D	E	E	E	384																								
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGS	ENAK	KYLA	DN	PEI	FDEI	DKQ	VRS	KFGL	LID	GEE	IAE	SKK	DE	AAQ	VDS	..	VNEE	V	T	L	D	LG	D	E	E	E	384																										
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGS	ENAK	KFLA	DN	PEI	FDD	IDH	KV	RV	QY	GL	IEE	D	N	T	E	E	K	Q	S	S	K	E	K	ET	DE	K	..	AD	KN	L	V	L	E	L	D	D	T	I	E	L	E	D	..	383											
NTDB id 453 Spy49 1753c ACI62003.1	IGQGS	ENAK	R	YLA	D	H	P	Q	L	F	D	E	I	D	R	K	V	R	V	K	F	G	L	L	E	E	S	E	E	S	A	M	A	V	A	S	E	E	T	D	L	A	L	D	L	N	G	I	E	I	E	D	..	378	
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGR	ENAK	N	YL	A	D	H	E	D	V	E	D	V	R	L	K	V	R	A	A	Y	G	I	S	D	V	P	E	E	D	L	P	T	T	E	D	E	..	Q	I	..	N	I	L	P	D	D	S	T	E	E	355			
NTDB id 115 BSU 16940 NP 389576.2	LGQGR	ENAK	Q	F	L	K	N	K	D	I	M	L	M	I	Q	E	Q	I	R	E	H	Y	G	L	D	N	N	G	V	V	Q	Q	A	E	E	T	Q	E	E	L	..	E	F	E	..	E	348									
NTDB id 56444 HOI88 RS04665 WP 015423629.1	LGQGR	D	N	V	K	T	Y	L	S	E	N	S	A	V	A	G	E	I	E	A	K	I	R	E	K	I	L	G	E	D	E	K	K	E	Y	V	E	K	V	E	S	I	K	E	K	..	S	F	K	S	V	K	K	354	
NTDB id 1245 Cj1673c YP 002345041.1	LGQGR	EN	S	K	A	F	L	K	N	P	E	I	A	D	E	I	T	K	A	I	Q	N	S	M	G	I	E	G	M	I	S	G	S	E	D	..	E	G	E	..	E	343														
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGR	ENAK	A	L	L	K	E	D	K	A	L	A	D	E	I	T	L	K	E	S	I	G	S	N	E	E	I	M	P	L	P	D	E	..	P	L	E	M	..	E	347															
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGR	ENAK	A	L	L	K	E	D	K	A	L	A	D	E	I	T	L	K	E	S	I	G	S	N	E	E	I	M	P	L	P	D	E	..	P	L	E	M	..	E	347															
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQGR	D	T	V	K	E	L	T	K	N	P	E	L	A	E	E	L	E	A	K	I	R	E	K	L	Q	A	343																											
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGN	N	NA	V	K	W	L	K	N	P	E	I	A	D	K	L	E	Q	E	I	R	N	T	L	A	S	N	P	N	S	V	L	K	A	T	A	S	D	S	N	D	E	S	..	D	V	E	E	F	S	E	E	E	L	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGD	N	V	R	V	W	L	K	N	P	E	I	S	D	E	I	D	A	K	I	R	A	L	N	G	V	E	M	H	I	T	E	G	T	Q	D	E	T	D	G	E	R	P	E	E	348								
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGD	N	V	R	V	W	L	K	N	P	E	I	S	D	E	I	D	A	K	I	R	A	L	N	G	V	E	M	H	I	T	E	G	T	Q	D	E	T	D	G	E	R	P	E	E	348								
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGD	N	V	R	V	W	L	K	N	P	E	I	S	D	E	I	D	A	K	I	R	A	L	N	G	V	E	M	H	I	T	E	G	T	Q	D	E	T	D	G	E	R	P	E	E	348								
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGR	D	N	C	R	E	F	L	R	E	N	A	E	L	A	R	E	I	E	N	K	V	R	E	H	L	G	V	T	P	M	G	A	V	T	L	A	..	E	E	V	E	D	352												
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGN	A	N	A	C	K	Y	L	K	N	P	E	I	A	K	T	L	D	K	K	L	R	E	M	L	L	N	P	E	N	M	Q	L	I	A	E	T	S	S	A	A	D	D	V	..	E	F	G	A	V	P	E	E	F	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGN	A	N	A	C	K	Y	L	K	N	P	E	I	A	K	T	L	D	K	K	L	R	E	M	L	L	N	P	E	N	M	Q	L	I	A	E	T	S	S	A	A	D	D	V	..	E	F	G	A	V	P	E	E	F	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGN	N	N	V	I	R	Y	L	E	E	N	P	Q	I	S	T	E	I	E	A	V	I	R	E	Q	L	L	T	K	A	S	D	Q	T	A	A	..	H	D	E	T	E	E	P	..	D	L	L	..	E	S	349			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGN	N	N	V	I	R	Y	F	E	E	N	N	Q	I	A	E	E	I	E	R	N	I	R	E	Q	L	L	T	T	G	T	N	G	A	V	Q	..	I	..	E	D	E	E	P	..	D	L	L	..	L	E	S	349		
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGN	A	N	A	A	K	Y	L	E	E	N	P	E	I	G	Q	E	I	E	Q	I	R	A	K	L	L	V	T	S	A	N	T	K	A	T	P	V	A	E	D	L	A	..	D	I	347										

*!!!***** ** ***** ***** ** ** *

- non conserved
- similar
- ≥ 50% conserved