

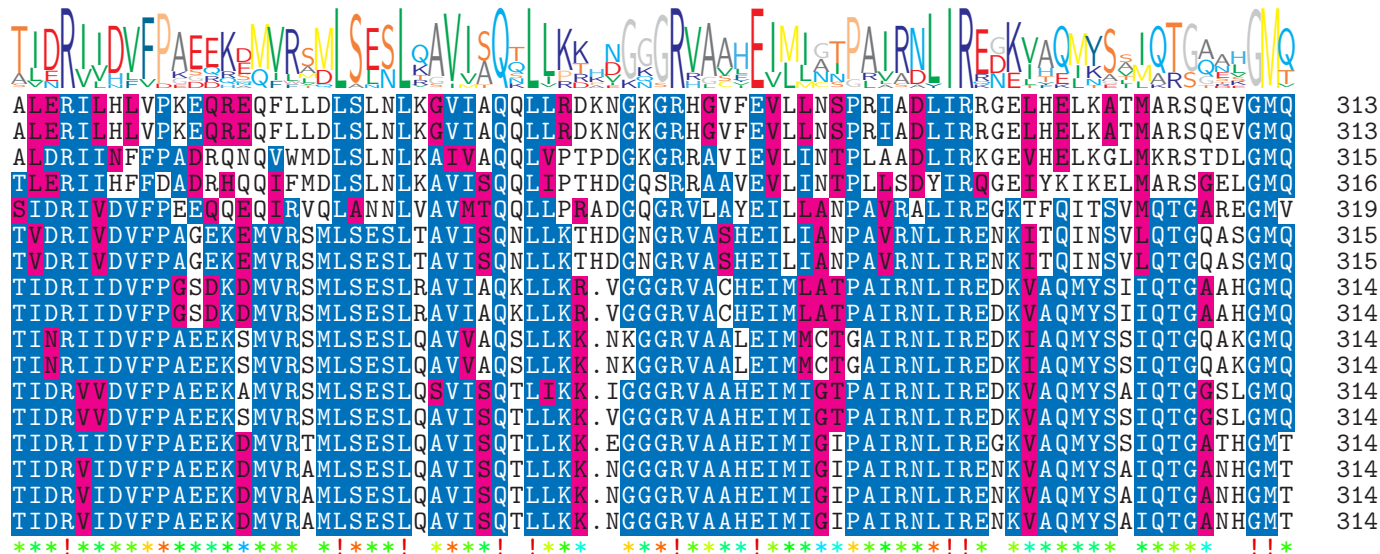
NTDB id	44190	O3Y RS02450 WP	000422572.1	....	MELNQYL DGM LTHKASDLYITV GAPI LYRV DGE LRQAQEAL.SVA DV TALLHAMMDARQAEFKQTREANFAVVRD	75
NTDB id	1177	A1552VC RS01165 WP	000422572.1	....	MELNQYL DGM LTHKASDLYITV GAPI LYRV DGE LRQAQEAL.SVA DV TALLHAMMDARQAEFKQTREANFAVVRD	75
NTDB id	1203	PSJM300 01605 AFN76401.1		....	MEFEKLLRLMVEKGGSDFITAGVP PSMKVNGKI LPVN KTPMSPEMTRET VHGVMNEQQRRFETENHECNFAISAR	76
NTDB id	1019	ACIAD RS04205 WP	004922051.1	....	MDFNDDLNLMAKHKASDLFITAGV EPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIE THECNFAILNR	80
NTDB id	1307	DR RS10055 WP	01088596.1	MTSGID	ITDILRLAADK GASDTILAAGLP PQFKLSGDYDAQGFEP LSASDTRKL MYSMMNERQQRIFEERKRELDFSFAIG	76
NTDB id	1116	NGFG RS10615 WP	003690200.1	....	MQITDLLAFGAKNKASDLHLSGGISPMIRVHGDMRRINLPEMSAEVGNMVTSVMNDHQRKIIYQQNLEVDFS FELP	76
NTDB id	1086	NMV RS00245 WP	002218487.1	....	MQITDLLAFGAKNKASDLHLSGGISPMIRVHGDMRRINLPEMSAEVGNMVTSVMNDHQRKIIYQQNLEVDFS FELP	76
NTDB id	1185	GTF74 RS11940 WP	000350195.1	....	MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVP AFTHSDVHRL LIFEIMNDAQRSEYE EKLEVD FSFELP	76
NTDB id	1176	A1552VC RS01160 WP	000350195.1	....	MDIAELLEFSVKHNASDLHLSAGVPPMVRIDGEVRKLGVP AFTHSDVHRL LIFEIMNDAQRSEYE EKLEVD FSFELP	76
NTDB id	1283	ACE17W RS02630 WP	010947729.1	....	MDIAELLAFSVK NKSDDLHTSAGMP PMIRVDGLRKLINLPPL EHKDKVIKTIYDIMNDRQRKEYEEFFETDFSFEIA	76
NTDB id	1259	GCO85 RS10305 WP	010947729.1	....	MDIAELLAFSVK NKSDDLHTSAGMP PMIRVDGLRKLINLPPL EHKDKVIKTIYDIMNDRQRKEYEEFFETDFSFEIA	76
NTDB id	1194	PKAF RS01995 WP	003084552.1	....	MDITELLAFSAKQGASDLHLSAGLPPMIRVDGVRRINLP LEHKQVHALIYDIMNDKQRKD FEEFL ET DFSFEVP	76
NTDB id	1202	PSJM300 01600 AFN76400.1		....	MDITELLAFSAKQGASDLHLSGLP PMIRVDGVRRINLPAMD HKQVHALIYDIMNDKQRKD FEEFL ET DFSFEVP	76
NTDB id	1020	ACIAD RS04210 WP	011182164.1	....	MDITELLAFSVQN RASDLHLSAGIPPMIRVDGEVRRINLPAMD HSEVHNLIYDIMNDKQR RDYE EKLET DFSFEVP	76
NTDB id	1060	ABD1 RS04380 WP	000355489.1	....	MDITELLAFSVKNGASDLHLSAGMP PMIRVDGEVRRINLPAL EHKDVHRLVYDIMNDKQR RDYE EKLET DFSFEVP	76
NTDB id	1040	HON27 RS13360 WP	000355489.1	....	MDITELLAFSVKNGASDLHLSAGMP PMIRVDGEVRRINLPAL EHKDVHRLVYDIMNDKQR RDYE EKLET DFSFEVP	76
NTDB id	1081	FDQ49 RS05335 WP	006581387.1	....	MDITELLAFSVKNGASDLHLSAGMP PMIRVDGEVRRINLPAL EHKDVHRLVYDIMNDKQR RDYE EKLET DFSFEVP	76
consensus					*** * ! **** * ! | ***** ! **** * ! ***** ! ***** * ! ***** *	

NTDB	id	44190	O3Y	RS02450	WP	000422572.1	..S	CRFRVS	SAFF	Q	REL	P	G	A	V	I	R	R	I	E	T	R	I	P	T	F	E	E	L	K	L	P	E	V	L	Q	N	L	A	I	A	K	R	G	L	V	L	V	G	A	T	G	S	G	K	S	T	T	M	A	A	M	T	G	Y	R	N	Q	H	R	T	G	H	I	153											
NTDB	id	1177	A1552VC	RS01165	WP	000422572.1	..S	CRFRVS	SAFF	Q	REL	P	G	A	V	I	R	R	I	E	T	R	I	P	T	F	E	E	L	K	L	P	E	V	L	Q	N	L	A	I	A	K	R	G	L	V	L	V	G	A	T	G	S	G	K	S	T	T	M	A	A	M	T	G	Y	R	N	Q	H	R	T	G	H	I	153											
NTDB	id	1203	PSJM300	01605	AFN	76401.1	G	.	C	R	F	R	V	S	A	F	Y	Q	R	N	L	A	G	M	V	L	R	R	I	E	T	N	I	P	T	I	E	D	L	K	L	P	D	V	L	K	K	L	A	L	T	R	G	L	V	L	F	V	G	A	T	G	T	G	K	S	T	S	L	A	A	M	I	G	Y	R	N	K	N	S	S	G	H	I	155	
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1	E	K	N	E	R	F	R	V	S	A	F	Q	R	D	M	P	G	M	V	I	R	R	I	E	T	K	I	P	S	P	D	D	L	H	L	P	P	I	L	K	E	L	A	M	S	K	R	G	I	I	F	S	G	A	T	G	T	G	K	S	T	S	L	A	S	M	I	Q	H	R	N	Q	H	S	K	G	H	I	156	
NTDB	id	1307	DR	RS10055	WP	01088596.1	D	.	K	A	R	F	R	V	N	A	F	M	Q	R	G	N	V	C	M	V	R	L	I	P	T	T	V	R	T	I	A	E	M	G	L	P	Q	T	V	I	D	I	A	N	A	P	R	G	L	V	T	G	P	T	G	S	G	K	S	T	L	A	M	I	D	H	I	N	T	T	K	L	H	I	159					
NTDB	id	1116	NGFG	RS10615	WP	003690200.1	N	.	V	A	R	F	R	V	N	A	F	N	T	G	R	G	P	A	A	V	F	R	T	I	P	S	T	V	L	S	L	E	E	L	K	A	P	S	I	F	Q	K	I	A	E	S	P	R	G	M	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	I	N	Y	I	N	E	T	Q	P	A	H	I	155
NTDB	id	1086	NMV	RS00245	WP	002218487.1	N	.	V	A	R	F	R	V	N	A	F	N	I	G	R	G	P	A	A	V	F	R	T	I	P	S	T	V	L	S	L	E	E	L	K	A	P	S	I	F	Q	K	I	A	E	S	P	R	G	M	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	I	N	Y	I	N	E	T	Q	P	A	H	I	155
NTDB	id	1185	GTF74	RS11940	WP	000350195.1	N	.	V	C	R	F	R	V	N	A	F	H	Q	A	R	G	C	S	A	V	F	R	T	I	P	T	V	I	P	T	L	E	Q	L	D	A	P	E	I	F	S	K	I	A	N	Y	E	K	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	V	N	Y	V	N	A	H	N	K	H	I	155	
NTDB	id	1176	A1552VC	RS01160	WP	000350195.1	N	.	V	C	R	F	R	V	N	A	F	H	Q	A	R	G	C	S	A	V	F	R	T	I	P	T	V	I	P	T	L	E	Q	L	D	A	P	E	I	F	S	K	I	A	N	Y	E	K	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	V	N	Y	V	N	A							

NTDB id 44190 03Y RS02450 WP 000422572.1
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 1307 DR RS10055 WP 01088596.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GCA08S RS10305 WP 010947729.1
NTDB id 1194 PKAAF RS01195 WP 003084552.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
consensus



NTDB id 44190 O3Y RS02450 WP 000422572.1
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NTDB id 1060 ABD1 RS04380 WP 000355489.1
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NTDB id 1081 FDQ49 RS05335 WP 006581387.1
consensus



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NTDB id 44190 O3Y RS02450 WP 000422572.1	TFDQALYQLVVDKKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1177 A1552VC RS01165 WP 000422572.1	TFDQALYQLVVDKKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMER.....KMTFDGQRRNLK.....	383
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAID.PKEFARLA..NDASAGL.GGASMTPAAPPVPAYNSASSSSSTGRGGDFGRGAAA	395
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NTDB id 1185 GTF74 RS11940 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
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NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMCLKGLVAKGLISRENAREKAKI.PENF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDSCCLKGLIAGLISRDSAKEKAKQ.PENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLLAKGIINLPTARAVAKS.PESF.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TLDQSLKGLVSRGVISPQTARTAAKQ.PESFL.....	345
consensus	!*** * !* ***** * *	

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NTDB id 44190 O3Y RS02450 WP 000422572.1	PATPAAPAAGRSEPCRRACCFGR	368
NTDB id 1177 A1552VC RS01165 WP 000422572.1		368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 1307 DR RS10055 WP 010888596.1	PATPAAPAAGRSEPCRRACCFGR	418
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	347
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	345
consensus		

- ⓧ non conserved
- ✖ similar
- ⓧ ≥ 50% conserved