

logo

		MSXLSIGDRRLGAALLDQGYLDNBLQRALERHSEVGGRLAELVLYDSGGYSEERRIAELIESEFGIPLVNLHSEVETSPKXK	
NTDB id 1410 SGL RS13950 WP 010873519.1		.....	0
NTDB id 1306 DR RS10060 WP 027479822.1		.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL	79
NTDB id 1028 TT RS08215 WP 011173991.1		MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	80
NTDB id 1168 A1552VC RS11070 WP 000957200.1		.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1		.....	0
NTDB id 407354 GPY19 RS03180 WP 062905453.1		.....	0
NTDB id 1293 VP RS12240 WP 005479695.1		.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1		.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1		.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1			0
NTDB id 1018 ACIAD RS01685 WP 004920473.1			0
consensus			

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		SLTPAEKAKELRAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPVPP..P	
NTDB id 1410 SGL RS13950 WP 010873519.1		RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA	0
NTDB id 1306 DR RS10060 WP 027479822.1		ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPVPP..P	157
NTDB id 1028 TT RS08215 WP 011173991.1		.....	158
NTDB id 1168 A1552VC RS11070 WP 000957200.1		.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1		.....	0
NTDB id 407354 GPY19 RS03180 WP 062905453.1		.....	0
NTDB id 1293 VP RS12240 WP 005479695.1		.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1		.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1		.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1			0
NTDB id 1018 ACIAD RS01685 WP 004920473.1			0
consensus			

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		SDAGRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFGHPGEEVL	
NTDB id 1410 SGL RS13950 WP 010873519.1		SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA	0
NTDB id 1306 DR RS10060 WP 027479822.1		.....	237
NTDB id 1028 TT RS08215 WP 011173991.1		.....	237
NTDB id 1168 A1552VC RS11070 WP 000957200.1		.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1		.....	0
NTDB id 407354 GPY19 RS03180 WP 062905453.1		.....	0
NTDB id 1293 VP RS12240 WP 005479695.1		.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1		.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1		.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1			0
NTDB id 1018 ACIAD RS01685 WP 004920473.1			0
consensus			

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NTDB id 1410 SGL RS13950 WP 010873519.1	MTS	3
NTDB id 1306 DR RS10060 WP 027479822.1	GSMLRADALRLLAVPVDETEQGVTVLTSDPRKRDPIDALIGRPVQLMLTRPRDIERLIEQFYPQGRGLGEQLVQEGTLSR	317
NTDB id 1028 TT RS08215 WP 011173991.1	LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB id 1168 A1552VC RS11070 WP 000957200.1		0
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NTDB id 407354 GPY19 RS03180 WP 062905453.1		0
NTDB id 1293 VP RS12240 WP 005479695.1		0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		0
consensus		

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NTDB id 1410 SGL RS13950 WP 010873519.1	SSSSKKSRAVALRNYFSPFGNKLIVAGCHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELLRQYKKNQLFELKVLY	83
NTDB id 1306 DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGEVITELGFASPDVDSALQKQNVGGGRIEDTLVQ..SGKLSPEMLARS.....LAAQL	388
NTDB id 1028 TT RS08215 WP 011173991.1	EALKEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGGRIEDTLVQ..SGKLRPEALAA.....VATQL	388
NTDB id 1168 A1552VC RS11070 WP 000957200.1	MLTNLVAILRQAEILSATQEAVVTQVSASGTSVPEALLE..LSIFHAQELTEQ.....LSHIF	57
NTDB id 1401 DSB67 RS12665 WP 010643259.1	MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLS..SGFFQSHELTEH.....LSSVF	57
NTDB id 407354 GPY19 RS03180 WP 062905453.1	MLTNLSTVLRQKGLLTFSQEETLIEHVKASGISMPEALLS..SGFFTSSSELVEH.....LSSIF	57
NTDB id 1293 VP RS12240 WP 005479695.1	MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLS..SGFFTSSSELAEH.....LSSIF	57
NTDB id 1110 NGFG RS09235 WP 003689817.1	MSVGLLRILVQNQVVTVEQAEHYY..NESQAGKEVLPMLFS..DGVISPKSLAAL.....IARVF	56
NTDB id 1251 GC085 RS07725 WP 011946523.1	MALATEEYRLQIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVK..NKILSAEQIALT.....AAQNF	65
NTDB id 1058 ABD1 RS01615 WP 001274986.1	MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAAKRAKQDTVAYLIE..EVHLSPSLLAET.....ISAEF	65
NTDB id 1018 ACIAD RS01685 WP 004920473.1	MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDTPVPLYID..NFSISPLTTAEI.....ISLEF	65
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NTDB id 1410 SGL RS13950 WP 010873519.1	GVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQEGDPPSVLVAMVDPDNLAAQDELNRILRVKGF..ELRRL	161
NTDB id 1306 DR RS10060 WP 027479822.1	GYEFLDPIQNPPD....PKVALMPEATARRVVVPVRLQ...GNSLVVAMKDPRNVFALDDLKLITG.....KEILPA	455
NTDB id 1028 TT RS08215 WP 011173991.1	GYPYVDPEEDPPD....PGAPLLLPEDLCRRYGVFPHRLE..GNRLVILMKDPRNILALDDVRLALKRKGLNVEVAPA	460
NTDB id 1168 A1552VC RS11070 WP 000957200.1	GLPETDLSRYDYA.....NLCQQLGLRELITRYDALPIAKQ...GNLLLLAVSDPTLLQAEFEFRFATG.....LQVELA	124
NTDB id 1401 DSB67 RS12665 WP 010643259.1	GLSCTSLNQYEYA.....SLCQTLGLRDLITRHNALPLNRT...SSTLILAVADPTNLQAEDDFRFATG.....LQVELV	124
NTDB id 407354 GPY19 RS03180 WP 062905453.1	GLSQPELSQYEYA.....SLCQQLGLRELITRHNALPLHRT...PSTLLAVADPTNQAEDDFRFATG.....LQVELV	124
NTDB id 1293 VP RS12240 WP 005479695.1	GLSQPELSQYEYA.....SLCQQLGLRELITRHNALPLHRT...PSTLLAVADPTNQAEDDFRFATG.....LQVELV	124
NTDB id 1110 NGFG RS09235 WP 003689817.1	SYSILDLRHYPRH....RVLMGVITEEQMVEFHCVVPVFR...GDKVFFAVSDPTQMPQIQKTVSAAG.....IAVELV	123
NTDB id 1251 GC085 RS07725 WP 011946523.1	GVPMLDINCDVIG....TIPVNLVNEKLIKRRHAMVPLFSR...GTNLVYLATDDPSKQASLKEIQFHTG.....LNTHAI	132
NTDB id 1058 ABD1 RS01615 WP 001274986.1	AEPYFDLDVYDTS....QIPKDLVDQKLILKHRILPLIQR...GQILYVATSNPSNIEAIDAIRFNASK.....LVPEPV	132
NTDB id 1018 ACIAD RS01685 WP 004920473.1	GEPLIDLGVFDPA....LFLKDKLIDEKLIQKYRIMPLVHR...GHVLYVATSNPTNIEAMDAIRFNASK.....LKVEPI	132
consensus	* * * * *	

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NTDB id 1410 SGL RS13950 WP 010873519.1	VVTQDDFNQLLEQYYAIREEWAAQEKRDKERALDKLNDLTDIVGSIDMNLGEDKEDVDNALDSNDA	NQAPVINLVNKIL	241
NTDB id 1306 DR RS10060 WP 027479822.1	VMAEKDITRLIERYFGEKGFEKLNKEEL.....AE.....RNKTQQSQEADLSVA	DESAIVQVVSII	512
NTDB id 1028 TT RS08215 WP 011173991.1	VATEAAITKLIERYFYKAELSIAKEF.....AK.....KQAEEEV..PSPLEL	DESAAQKFVKQVI	515
NTDB id 1168 A1552VC RS11070 WP 000957200.1	LADHRAALQAATIRRLYGRSISGAANQGK..EI.SQDELAN.....LVKVSDDLQS	IEDLSQDDSPVSRFINQVL	190
NTDB id 1401 DSB67 RS12665 WP 010643259.1	LADFRELTAATIRRLYGRSLGCKERSGLK..EI.NQDELAG.....LVDIGEDEIEN	IEDLSQDESPVSRINQIL	190
NTDB id 407354 GPY19 RS03180 WP 062905453.1	LADFRELSAAITRRLYGRALGKERSGIK..EI.NQEELAS.....LVDVGADEIDN	IEDLSQDESPVSRINQIL	190
NTDB id 1293 VP RS12240 WP 005479695.1	LADFRELSTAATIRRLYGRSLSHKESGLK..EI.NQEELAS.....LVDVGADEIDN	IEDLSQDESPVSRINQIL	190
NTDB id 1110 NGFG RS09235 WP 003689817.1	IVEDDQLAGLLDWVGSSTSL..LQEL.....CE.....GQEEEEESTHTLY	IDNEEAEDGPVPRFIHKTL	180
NTDB id 1251 GC085 RS07725 WP 011946523.1	VVETDKLSALIDNLLTAKESQGLSEYVEDSG.DLEGLEI.....SAD.DEDQDIDTATSVT	DDAPIVKFVNKIL	199
NTDB id 1058 ABD1 RS01615 WP 001274986.1	IVEHHKLEKVLGGHF AEESSFDNFDE...EF.D...LDV.....NLDGPTAQEDEEEAPQG	DEAPIVKYINKLL	194
NTDB id 1018 ACIAD RS01685 WP 004920473.1	IVEHDKLERLLSEHFVEETHFNDFTE...EL.D...LDV.....EVDPHTTDDDEDKCLK	DEAPIVKYINKLL	194
consensus	*** * ** ***** * *	**** ** ****	***** **

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NTDB	id	1410	SGL	RS13950	WP	010873519.1	AKA	LQ	E	T	S	D	I	H	V	E	P	Q	E	E	T	L	R	I	R	F	R	K	D	G	V	L	N	Q	A	F	D	P	L	P	R	K	I	T	P	A	V	V	A	R	F	K	I	M	A	D	M	D	I	A	E	R	S	P	Q	D	G	K	I	R	R	I	Y	Q	.	.	G	R	K	V	D		319					
NTDB	id	1306	DR	RS10060	WP	027479822.1	R	E	A	A	L	Q	D	A	S	D	I	H	I	E	T	T	E	D	A	V	K	V	R	Y	R	I	D	G	A	L	R	E	Q	N	S	.	F	P	K	G	A	A	Q	I	M	A	R	L	K	I	M	G	H	L	D	I	A	E	R	R	V	P	Q	D	G	R	V	R	F	.	K	X	G	S	I	D	L	D		589		
NTDB	id	1028	TT	RS08215	WP	011173991.1	R	E	A	F	L	Q	D	A	S	D	I	H	I	E	P	R	C	N	D	V	Q	V	R	L	R	I	D	G	A	L	R	P	Y	S	T	.	L	P	K	G	A	L	N	A	V	I	S	V	V	K	I	M	G	G	L	N	I	A	E	K	R	L	P	Q	D	G	R	V	R	Y	.	.	R	E	G	A	I	D	V	D		592
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	L	D	A	V	R	K	G	A	S	D	I	H	F	E	P	Y	E	N	Q	Y	R	I	R	L	R	C	D	G	I	L	V	E	T	Q	Q	.	P	A	S	H	L	S	R	R	L	A	A	R	I	K	I	L	S	K	L	D	I	A	E	R	R	L	P	Q	D	G	R	I	K	L	R	L	S	R	.	D	T	A	I	D		268
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	L	D	A	V	R	K	G	A	S	D	I	H	F	E	P	Y	E	N	Q	Y	R	I	R	L	R	C	D	G	I	L	I	E	T	Q	Q	.	P	P	S	H	L	S	R	R	L	S	A	R	I	K	I	L	S	K	L	D	I	A	E	R	R	L	P	Q	D	G	R	I	K	L	N	Q	.	D	T	A	I	D		268		
NTDB	id	407354	GPY19	RS03180	WP	062905453.1	L	D	A	V	R	K	G	A	S	D	I	H	F	E	P	Y	E	K	M	Y	R	V	R	L	R	C	D	G	I	L	I	E	T	Q	Q	.	P	P	N	H	L	S	R	R	L	S	A	R	I	K	I	L	S	K	L	D	I	A	E	R	R	L	P	Q	D	G	R	I	K	L	N	Q	.	D	T	A	I	D		268		
NTDB	id	1293	VP	RS12240	WP	005479695.1	L	D	A	V	R	K	G	A	S	D	I	H	F	E	P	Y	E	K	M	Y	R	V	R	L	R	C	D	G	I	L	I	E	T	Q	Q	.	P	P	N	H	L	S	R	R	L	S	A	R	I	K	I	L	S	K	L	D	I	A	E	R	R	L	P	Q	D	G	R	I	K	L	N	Q	.	D	T	A	I	D		268		
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	S	D	A	L	R	S	G	A	S	D	I	H	F	E	F	Y	E	H	N	A	R	I	R	F	R	V	D	G	Q	L	R	E	V	V	Q	.	P	P	I	A	V	R	G	Q	L	A	S	R	I	K	V	M	S	R	L	D	I	S	E	K	R	I	P	Q	D	G	R	M	Q	L	T	F	Q	K	G	K	P	V	D		259	
NTDB	id	1251	GC085	RS07725	WP	011946523.1	L	D	A	T	R	Q	G	A	S	D	I	H	F	E	P	Y	E	R	E	Y	R	I	R	Y	R	Q	D	I	L	H	E	V	A	T	.	P	P	A	S	L	S	S	R	I	T	A	R	I	K	V	M	S	N	L	D	I	S	E	R	R	I	P	Q	D	G	G	F	K	M	K	I	S	K	.	S	R	A	I	D		277	
NTDB	id	1058	ABD1	RS01615	WP	001274986.1	I	D	A	T	R	M	G	A	S	D	I	H	F	E	P	Y	E	K	S	Y	R	V	R	Y	R	V	D	G	V	L	R	Q	I	A	N	.	P	P	L	Q	L	A	N	R	L	A	S	R	L	K	V	M	S	Q	M	D	I	S	E	K	R	V	P	Q	D	G	R	I	K	L	K	S	K	.	S	K	A	I	D		272	
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1	I	D	A	T	R	M	S	A	S	D	I	H	F	E	P	Y	E	K	S	Y	R	V	R	Y	R	V	D	G	V	L	R	I	A	T	.	P	P	L	Q	L	A	T	R	L	A	S	R	L	K	V	M	S	Q	M	D	I	S	E	K	R	V	P	Q	D	G	R	I	K	L	K	S	K	.	S	K	T	I	D		272		
consensus							* * ! * * * * ! * ! * ! * * * * ! *																																																																																	

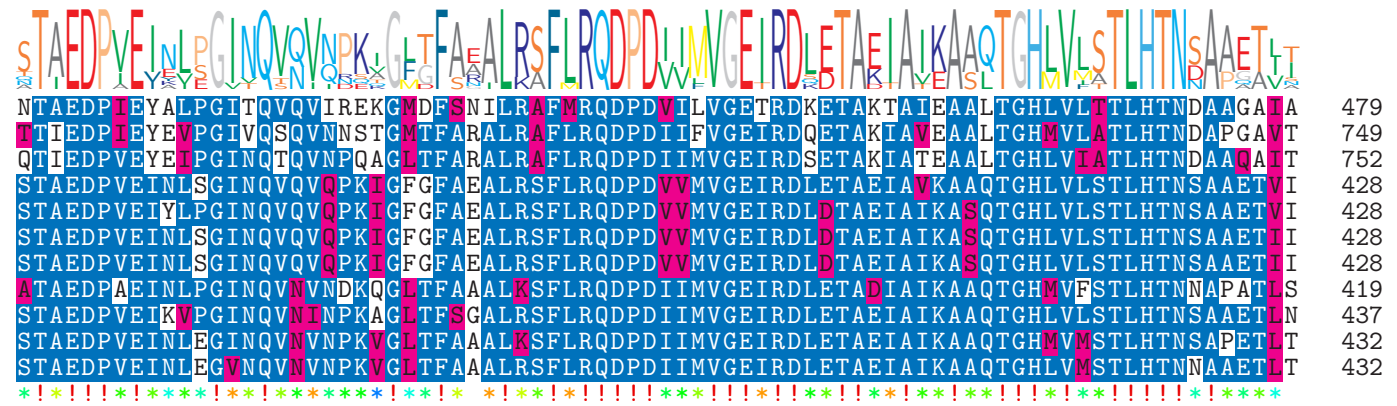
logo

[illegible]

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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
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NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
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NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

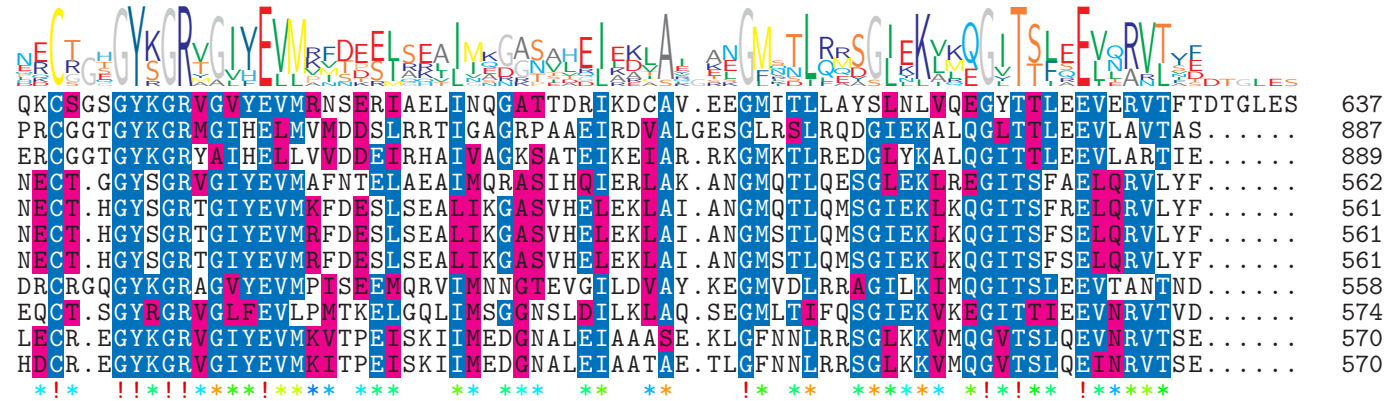
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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
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NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus
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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1028 TT RS08215 WP 011173991.1
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NTDB id 1401 DSB67 RS12665 WP 010643259.1
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NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus
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NTDB id 1410 SGL RS13950 WP 010873519.1	EMRAKRRKSALTCRTCAAELQQEWLDCPYCMTSRFS	672
NTDB id 1306 DR RS10060 WP 027479822.1	.....	887
NTDB id 1028 TT RS08215 WP 011173991.1	.....	889
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	562
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	561
NTDB id 407354 GPY19 RS03180 WP 062905453.1	.....	561
NTDB id 1293 VP RS12240 WP 005479695.1	.....	561
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	558
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	574
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved