

logo

		MSXLSIGDRRLGAALLDQGYLDNBLQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	
NTDB id 1410 SGL RS13950 WP 010873519.1	.....	.....	0
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV		80
NTDB id 1306 DR RS10060 WP 027479822.1	.MALSIGDRRLGAILLDQGYLGDNLDLQRALERHSEVGGRLADVLLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL		79
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	.....	0
NTDB id 158139 AOY09 RS05735 WP 119163118.1	.....	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1			0
NTDB id 1018 ACIAD RS01685 WP 004920473.1			0
consensus			0

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		SLTPAEKAKELRAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLEIVVPSGA	
NTDB id 1410 SGL RS13950 WP 010873519.1	.....	.....	0
NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLEIVVPSGA		158
NTDB id 1306 DR RS10060 WP 027479822.1	RSIRPQTALNLQAFPPFALE..GDRLRVALVDPLSSFSFIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA		157
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	.....	0
NTDB id 158139 AOY09 RS05735 WP 119163118.1	.....	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1			0
NTDB id 1018 ACIAD RS01685 WP 004920473.1			0
consensus			0

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		SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA	
NTDB id 1410 SGL RS13950 WP 010873519.1	.....	.....	0
NTDB id 1028 TT RS08215 WP 011173991.1	SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA		237
NTDB id 1306 DR RS10060 WP 027479822.1	SDAGRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEEQEGTTFLPNPSGFHPGEEVL		237
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	.....	0
NTDB id 158139 AOY09 RS05735 WP 119163118.1	.....	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1			0
NTDB id 1018 ACIAD RS01685 WP 004920473.1			0
consensus			0

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NTDB id 1410 SGL RS13950 WP 010873519.1	MTS	3
NTDB id 1028 TT RS08215 WP 011173991.1	LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARYLALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB id 1306 DR RS10060 WP 027479822.1	GSMLRADALRLLAVPVDETEQGVTVLTSDPRKRDPIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLLGEQLVQEGTLSR	317
NTDB id 1110 NGFG RS09235 WP 003689817.1		0
NTDB id 1168 A1552VC RS11070 WP 000957200.1		0
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NTDB id 1401 DSB67 RS12665 WP 010643259.1		0
NTDB id 1251 GC085 RS07725 WP 011946523.1		0
NTDB id 158139 AOY09 RS05735 WP 119163118.1	.....	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	SSSSKKSRAVALRNYFSPFGNKLIVAGCHVDAEQLRQALVQVVKTKGRSLPEELKAVTGRELSPPELLRQYKKNQLFELKVLY	83
NTDB id 1028 TT RS08215 WP 011173991.1	EALKEALEVQKGLPRAKPLGETLVELGLIARPEDVEEALQKQRGGGRIEDTLVQ..SGKLRPEALAAQ.....VATQL	388
NTDB id 1306 DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGDEVITELGFASPDDEVDSALQKQNVGGGRIEDTLVQ..SGKLSPEMLARS.....LAAQL	388
NTDB id 1110 NGFG RS09235 WP 003689817.1	MSVGLLRILVQNQVVTVEQAEHYNE.SQAGKEVLPMLFS..DGVISPKSLAAL.....IARVF	56
NTDB id 1168 A1552VC RS11070 WP 000957200.1	MLTNLVAILRQAEILISATQEQAVVTQVSASGTSVPEALLE..LSIFHAQELTEQ.....LSHIF	57
NTDB id 1293 VP RS12240 WP 005479695.1	MHSNLSLTLRQKGLLTFSGEESLIEQVKASGISMPEALLS..SGFFTSSSELAEH.....LSSIF	57
NTDB id 1401 DSB67 RS12665 WP 010643259.1	MLTNLSTVLRQAGILTFSGEESLIEQVKASGISMPEALLS..SGFFQSHELTEH.....LSSVF	57
NTDB id 1251 GC085 RS07725 WP 011946523.1	MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVK..NKILSAEQIALT.....AAQNF	65
NTDB id 158139 AOY09 RS05735 WP 119163118.1	MNDSTPLSLAKQLVLNELLDEKTARQAQVQAARNKQSLVSHLVQ..AKLVQSRALVEV.....AAEQF	62
NTDB id 1058 ABD1 RS01615 WP 001274986.1	MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAAKRAKQDTVAYLIE..EVHLSPSLLAET.....TSAEF	65
NTDB id 1018 ACIAD RS01685 WP 004920473.1	MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDTPVPLYID..NFSISPLTTAEI.....ISLEF	65
consensus	* * * * *	

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NTDB id 1410 SGL RS13950 WP 010873519.1	GVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQEGDPPSVLVAMVDPDNLAAQDELNRILRVKG..FELRRL	161
NTDB id 1028 TT RS08215 WP 011173991.1	GYPYVDPEEDPPD.....PGAPLLLPEDLCRRYGVFPHRLEG...NRLVLMLKDPNRNIALDDVRLALKRKLNYEVAPA	460
NTDB id 1306 DR RS10060 WP 027479822.1	GYEFLDPIQNPPD.....PKVALMPEATARRVVPVRLQG...NSLVVAMKDPNRNVFALDDLKLIITG....KEILPA	455
NTDB id 1110 NGFG RS09235 WP 003689817.1	SYSILDLRHYPRH.....RVLMLGVLTTEEQMVFEHCVPVFRRG...DKVFFAVSDPTQMPQIQKTVSAAQ.....IAVELV	123
NTDB id 1168 A1552VC RS11070 WP 000957200.1	GLPETDLTRYDYA.....NLCQQGLGLRELITRYDALPIAKQG...NLLLLAVSDPTLLQAEFFFRFATG.....LQVELA	124
NTDB id 1293 VP RS12240 WP 005479695.1	GLSQPELSQYEYA.....SLCQQGLGLRELITRHNAIPLHRT...STLLAVADPTNQAEEDDFRFATG.....LQVELV	124
NTDB id 1401 DSB67 RS12665 WP 010643259.1	GLSCTSLNQYEYA.....SLCQTGLGLRLITRHNAIPLNRTS...STLLAVADPTNLQAEEDDFRFATG.....LQVELV	124
NTDB id 1251 GC085 RS07725 WP 011946523.1	GVPMILDINCIDVG.....TIPVNLVNEKLIKRHAMVPLFSRG...TNLYLATDDPSKQASLKEIQFHTG.....LNTHAI	132
NTDB id 158139 AOY09 RS05735 WP 119163118.1	GIAYCDLNSLDRE.....SIPKDVISERLVRQHRVPLWKR...NKLFIGLSDPTNHQAVTDIQFSTG.....LTTEAL	129
NTDB id 1058 ABD1 RS01615 WP 001274986.1	AEPYFDLDVYDTS.....QIPKDLVDQKLILKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFNASK.....LKVEPV	132
NTDB id 1018 ACIAD RS01685 WP 004920473.1	GEPLIDLGVFDPA.....LFLKDKIDEKLIQKYRIMPLVHRG...HVLVYVATSNPTNIEAMDAIRFNASK.....LKVEPI	132
consensus	* * * * *	

NTDB id 1410	SGL RS13950 WP 010873519.1	VVTQDDFNQLLEEQYYAIREEWEAAAEKRDQERALDKLNDLTDIVGSIDMNLGEDKEVDVNALDSNDA	NQAPVINLVNKIL	241
NTDB id 1028	TT RS08215 WP 011173991.1	VATEAA TKLIERFYGKAELSEIA.....K.....EFAKKK...AEEEV..PSPLEL	DESAAQKFVKQVI	515
NTDB id 1306	DR RS10060 WP 027479822.1	VMAEKD IRLIERFYEGEKGFELN.....K.....ELAERN..KTQQSQEADLSVA	DESAIVQVDSII	512
NTDB id 1110	NGFG RS09235 WP 003689817.1	IVEDDQLAGLLDWVGRSSTSLQLLEG.....QEEEEESHTLYIDNEEA	EDGPVPRIHKTIL	180
NTDB id 1168	A1552VC RS11070 WP 000957200.1	LADHRALQAATRRLYGRSIGGAANQGKEISQDELA.....NLVKVSD...DELQSIEDLSQ	DDSPVSRYINQVL	190
NTDB id 1293	VP RS12240 WP 005479695.1	LADFRELSTAIRRLYGRSLGQEKSGLKEINQEELA.....SLVDVG...DEIDNIEDLSQ	DSPVSRYINQIL	190
NTDB id 1401	DSB67 RS12665 WP 010643259.1	LADFRELTAATRRLYGRSLGQEKSGLKEINQDELA.....GLVDIGE...DEIENIEDLSQ	DSPVSRYINQIL	190
NTDB id 1251	GCO85 RS07725 WP 011946523.1	VVETDKLSALIDNLLTAKESQGLSE...YVEDSGDL.....EGLEISADDEDQDIDTATSVT	DDAPIVKFVNKIL	199
NTDB id 158139	AQY09 RS05735 WP 119163118.1	LVEDDKLGVALIEKLYEGAMDALG.....DLGDIDL.....DGVDVGKA.ESASQDDGGDDA	EDAPVVRFVNKML	192
NTDB id 1058	ABD1 RS01615 WP 001274986.1	IVEHHKLEKVLGQHFAEESSFDF.....NDEEFDL.....DV.NLDGP.TAQDEEEFAPQG	DEAPIVKYINKLL	194
NTDB id 1018	ACIAD RS01685 WP 004920473.1	IVEHDKLERLLSEHFVEETHFNF.....DTEELD.....DV.EVDPH.TTDDDDDEDKCLK	DEAPIVKYINKLL	194
consensus		*** * **** ** *	***** * *****	

NTDB	id	1410	SGL	RS13950	WP	010873519.1	AKALQE	CTSD	IHV	EPQE	EETL	RIR	FRK	DGVL	NQAF	DPL	PRKI	TPAV	VVAR	FKIM	ADM	IAERR	SPDG	KIR	RIYQ	.GR	KVD	319																																																					
NTDB	id	1028	TT	RS08215	WP	011173991.1	REAF	LQD	ASDI	HI	EP	RQ	NDV	QVRL	R	IDG	AL	RP	YST	LPK	GAL	NAV	ISV	VKIM	GG	L	NAE	KRL	PQD	GR	VRY	.REG	AID	VD	592																																														
NTDB	id	1306	DR	RS10060	WP	027479822.1	REAF	LQD	ASDI	HI	ET	T	DAV	KVRY	R	IDG	AL	R	E	QNS	F	PKG	AAQ	I	MA	R	L	KIM	G	H	L	DIA	ERR	V	PQD	GR	VRF	.K	G	SID	LD	589																																							
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	SDAL	RS	GASD	IHF	E	F	YEH	NAR	I	R	F	R	V	DG	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	QD	G	R	M	Q	L	T	F	Q	K	G	K	P	V	D	259											
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	LDAV	RK	GASD	IHF	E	P	E	Y	E	N	QY	R	I	R	L	R	C	DG	I	L	T	V	E	T	Q	P	A	S	H	L	S	R	L	A	A	R	I	K	I	L	S	K	L	D	I	A	E	R	R	L	P	QD	G	R	I	K	L	R	S	R	.D	T	A	I	D	268									
NTDB	id	1293	VP	RS12240	WP	005479695.1	LDAV	RK	GASD	IHF	E	P	E	Y	E	N	QY	R	I	R	L	R	C	DG	I	L	T	V	E	T	Q	P	P	N	H	L	S	R	L	A	A	R	I	K	I	L	S	K	L	D	I	A	E	R	R	L	P	QD	G	R	I	K	L	N	Q	.D	T	A	I	D	268										
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	LDAV	RK	GASD	IHF	E	P	E	Y	E	N	QY	R	I	R	L	R	C	DG	I	L	T	V	E	T	Q	P	P	S	H	L	S	R	L	A	A	R	I	K	I	L	S	K	L	D	I	A	E	R	R	L	P	QD	G	R	I	K	L	N	Q	.D	T	A	I	D	268										
NTDB	id	1251	GC085	RS07725	WP	011946523.1	LDAI	R	Q	GASD	IHF	E	P	E	Y	E	R	E	Y	R	I	R	Y	R	DG	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	QD	G	G	F	K	M	K	I	S	K	.S	R	A	I	D	277						
NTDB	id	158139	AQY09	RS05735	WP	119163118.1	LDAI	R	G	C	S	D	I	H	F	E	P	E	Y	E	K	T	Y	R	V	R	F	R	T	D	G	M	L	H	E	V	A	K	P	P	I	Q	L	A	S	R	I	S	A	R	L	K	V	M	A	G	L	D	I	S	E	R	R	K	P	QD	G	R	I	K	M	R	V	S	K	.T	K	S	I	D	270
NTDB	id	1058	ABD1	RS01615	WP	001274986.1	IDAI	R	M	GASD	IHF	E	P	E	Y	E	K	S	Y	R	V	R	Y	R	V	DG	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	QD	G	R	I	K	L	K	S	K	.S	K	A	I	D	272						
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1	IDAI	R	M	SASD	IHF	E	P	E	Y	E	K	S	Y	R	V	R	Y	R	V	DG	V	L	R	L	I	A	T	N	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	QD	G	R																	

[illegible]


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NTDB id 1410 SGL RS13950 WP 010873519.1
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NTDB id 1306 DR RS10060 WP 027479822.1
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NTDB id 1293 VP RS12240 WP 005479695.1
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NTDB id 158139 AOY09 RS05735 WP 119163118.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

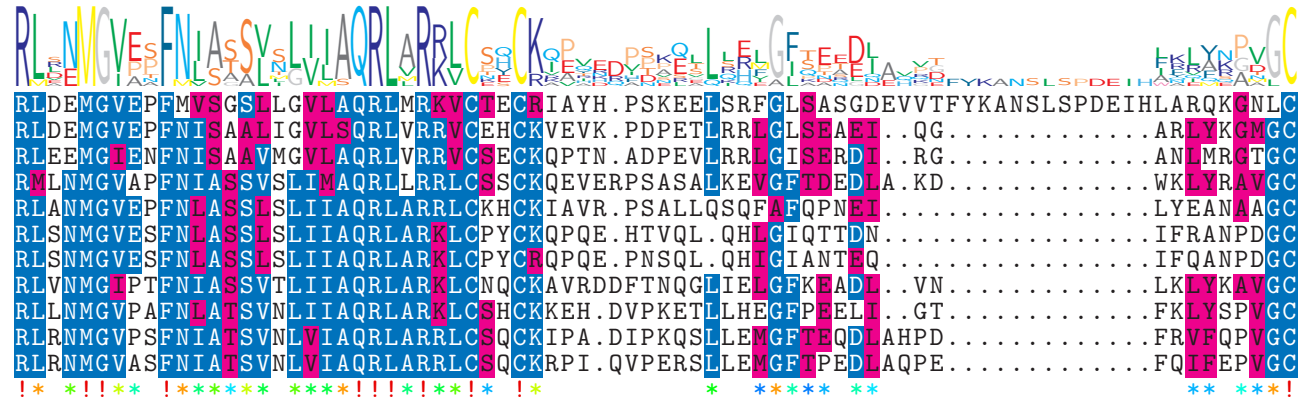
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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
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NTDB id 1110 NGFG RS09235 WP 003689817.1
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NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 158139 AOY09 RS05735 WP 119163118.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

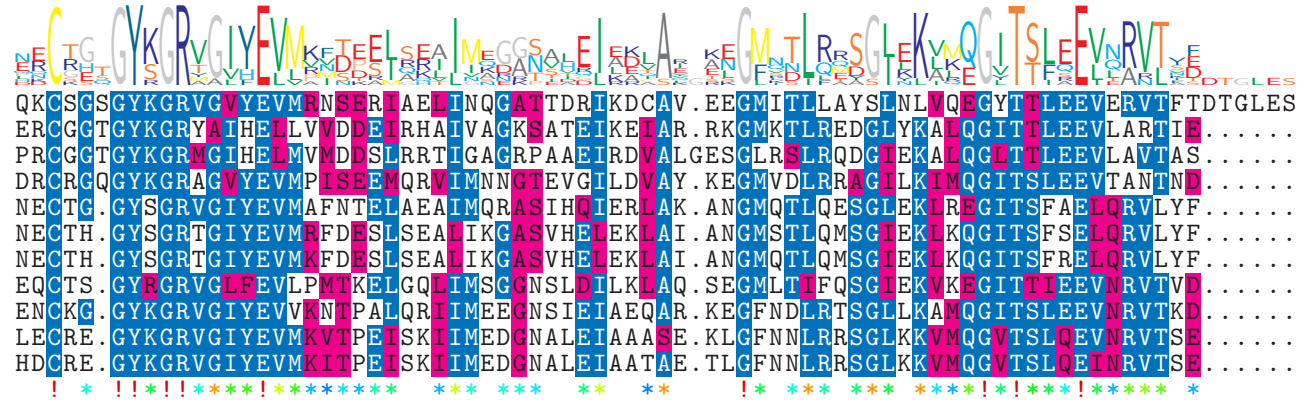
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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
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NTDB id 1110 NGFG RS09235 WP 003689817.1
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NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 158139 A0Y09 RS05735 WP 119163118.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

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logo

NTDB id 1410 SGL RS13950 WP 010873519.1	EMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS	672
NTDB id 1028 TT RS08215 WP 011173991.1	.....	889
NTDB id 1306 DR RS10060 WP 027479822.1	.....	887
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	558
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	562
NTDB id 1293 VP RS12240 WP 005479695.1	.....	561
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	561
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	574
NTDB id 158139 AOY09 RS05735 WP 119163118.1	.....	566
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved