

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	MSXLEIIGDRRLGAALLDAGYLDDNSLQRALERHREVGGLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	0
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGS�AEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	80
NTDB id 1306 DR RS10060 WP 027479822.1	.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL	79
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	.....	0
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 412873 GTH25 RS12750 WP 164530616.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	SEYPAKAKELRAIPFALDEEAGVVRVAFNLPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P	0
NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P	158
NTDB id 1306 DR RS10060 WP 027479822.1	RSIRPQTALNLQAFPPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA	157
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	.....	0
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 412873 GTH25 RS12750 WP 164530616.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	SsRGStsKLCeLYzHGYIzBxLxALxQxTCsALGxTLySsRxYtEsxLYxLAEQsGxFLestEGxMPsEExx	0
NTDB id 1028 TT RS08215 WP 011173991.1	SGEGQKDLKLGELLLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA	237
NTDB id 1306 DR RS10060 WP 027479822.1	SDAGRTGGKLGGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL	237
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	.....	0
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 412873 GTH25 RS12750 WP 164530616.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	SsRLRxDALRYsAVPYsEsEsVsVzTsSDPRsRERYxLxRPxSxLxEPsYtEsLsEsxYPQsRLGExLVQEGxLSR	3
NTDB id 1028 TT RS08215 WP 011173991.1	MTS	317
NTDB id 1306 DR RS10060 WP 027479822.1	LLLLRSDALRYGAVPIGFQNGEVEVVLS DPRHKEAVAQLLNRPARFYALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	GSMLRADALRLLAVPVDETEQGVTVLTS DPRKRDPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGLGEQLVQEGTLSR	0
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 412873 GTH25 RS12750 WP 164530616.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GCO85 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
consensus		

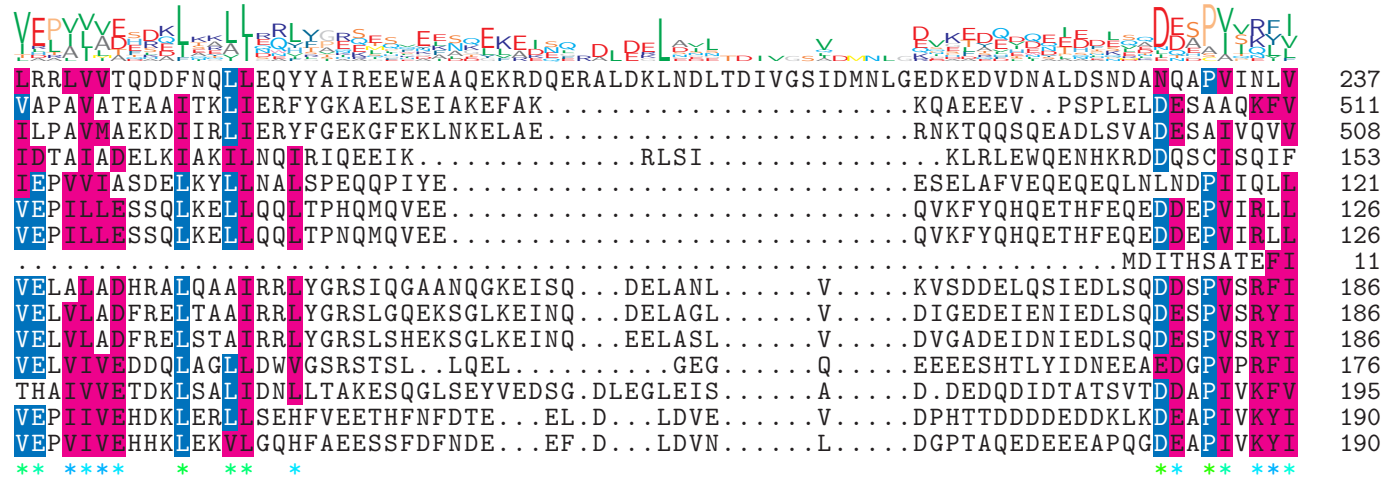
NTDB id 1410	SGL RS13950 WP 010873519.1	SSSSKKSRAVALRNYFSPFGNK	L	VAGGHVDAEQLRQAL	L	VQVKKTGRSL	P	PEELK	AVTGRE	L	SPEL	L	RQYKKNQL...	FEL	K	80					
NTDB id 1028	TT RS08215 WP 011173991.1	EALKEALEVQKGLPRAKPLGEI	L	VELGLARPEDVEEAL	L	QKQRRGGGR	L	EDTLV	Q..SGK	L	RPEAL	A	Q.....	AVA		385					
NTDB id 1306	DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGEV	T	TELGFASPDEVDSAL	L	QKQNVGGGR	L	EDTLV	Q..SGK	L	SPEML	A	R.....	SLA		385					
NTDB id 1227	CJJ81176 RS07050 WP 011812800.1	.....	.....	MESRM	.....	DK	L	IFQAYID	..NEISL	DEICT	KFNITS	WDFFK	LA		38						
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	.....	.....	.....	.....	.....	MSQ	..YTI	.....	CEQ	.....	QTE		12						
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	.....	.....	.....	.....	.....	MTS	..YAL	L	LHTQR	V	TA.....	QNG	17						
NTDB id 1355	HI 0298 AAC21962.1	.....	.....	.....	.....	.....	.....	MTS	..YAL	L	LHTQR	V	TA.....	KNG	17						
NTDB id 412873	GTH25 RS12750 WP 164530616.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0						
NTDB id 1168	A1552VC RS11070 WP 000957200.1			MLTNLVAI	L	RQAE	L	ISATQE	QAV	V	TQVSAS	GT	S	VPEAL	L	..LSIFHAQELTE.....	QLS	54			
NTDB id 1401	DSB67 RS12665 WP 010643259.1			MLTNLSTV	L	RQAGIL	T	FSQEES	L	IEQVKAS	GISM	PEAL	L	S..SGFFQ	SHELTE.....	HLS	54				
NTDB id 1293	VP RS12240 WP 005479695.1			MHSNLTST	L	RQKGLL	T	FSQEES	L	IEQVKAS	GISM	PEAL	L	S..SGFFT	SSELAE.....	HLS	54				
NTDB id 1110	NGFG RS09235 WP 003689817.1			MSVGLLR	L	LVQNQV	T	VEQAEH	Y..NESQ	AGKEV	LPML	FS..	DGV	I	SPKSLAA.....	LIA	53				
NTDB id 1251	GC085 RS07725 WP 011946523.1			MALATEEY	R	LQGIGQL	L	VLEKLL	DKTKA	IELHKL	AAAEK	ISL	L	QYIVK	..NKIL	SAEQIAL.....	TAA	62			
NTDB id 1018	ACIAD RS01685 WP 004920473.1			MSAFTTP	P	KFGSGF	I	RR	VEEGY	VNAQN	MQAL	E	KAKK	FKQD	I	VPY	LID..NFS	I	ISPLTIAE.....	ITS	62
NTDB id 1058	ABD1 RS01615 WP 001274986.1			MSALHTS	P	KFTGFF	R	RL	VEEKH	VSAAT	MQTA	L	DAAK	RAKQ	D	TVAY	LIE..EVH	I	SPSLIAE.....	TIS	62
consensus			*		*		*		**		*		*		*						

NTDB id 1410	SGL RS13950 WP 010873519.1	VLYGVDSVDP	EVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVL	VAMVDPDNLAAQDEL.NRILRVKG..FE	157		
NTDB id 1028	TT RS08215 WP 011173991.1	TQLGYPYVD	PEEDPPD....PGAPLLLPEDLCRRYGVFPHRLEG...NRILVLLMKDPRN	ILALDD.VRLALKRKGLN	456		
NTDB id 1306	DR RS10060 WP 027479822.1	AQLGYEFLD	PIQNPPD....PKVALMIGPEATARRYVVVVPVRLQG...NSLVVAMKDP	RNVFALDD.LKLI	451		
NTDB id 1227	CJJ81176 RS07050 WP 011812800.1	NFCNLHFVD	LDED.N....DFIYGEIPFSLLLKFKFLL.IKNN...DGFMIIRSKPC	SLELLEQVKTFM	102		
NTDB id 1384	A4U84 RS08525 WP 010787006.1	RIFD.....	ISPS.....RWQKNCEEKQLLLRRLAVPVQETE...HKLWLAVD	DENNLTA	70		
NTDB id 1366	NTHI RS01950 WP 011271972.1	EIFT.....	ISPD.....LWERNQQQSSLLRLRYFALPLKEEN...NRLWLGVDSL	SNLSACET.IAFITG....KP	75		
NTDB id 1355	HI 0298 AAC21962.1	EVFT.....	ISPD.....LWERNQQQSSLLRLRYFALPLKEEN...NRLWLGVDSL	SNLSACET.IAFITG....KP	75		
NTDB id 412873	GTH25 RS12750 WP 164530616.1				0		
NTDB id 1168	A1552VC RS11070 WP 000957200.1	HIFGLPETD	LSRYDYA....NLCQQLGLRELITRYDALPTIAKQG...NL	LLAVSDPTLLQAEFE.FRFATG....LQ	120		
NTDB id 1401	DSB67 RS12665 WP 010643259.1	SVFGLSCTSL	NQYEYA....SLCQTLGLRDLITRHNALPLNRTS...STLILAVADPT	NLQAEDD.FRFATG....LQ	120		
NTDB id 1293	VP RS12240 WP 005479695.1	SIFGLSQPEL	SQYEYA....SLCQQLGLRELITRHNALPLHRTPT...STL	LLAVADPTNQQAEDD.FRFATG....LQ	120		
NTDB id 1110	NGFG RS09235 WP 003689817.1	RVFSYSILD	LRHYPRH....RVLMGVLTEEQMVVEFHCVPVFRRG...DKVFFAVS	DPTQMPPIQK.TVSAAG....IA	119		
NTDB id 1251	GC085 RS07725 WP 011946523.1	QNFVGVPMLD	INCIDVG....TIPVNLVNEKLIKRRHAMVPLFSRG...TNLYLATD	DPKQASLKE.IQFHTG....LN	128		
NTDB id 1018	ACIAD RS01685 WP 004920473.1	LEFGEPLLD	LGVFDPD....LFLKDKIDEKLIKQYRIMPLVHRG...HVLYVATS	NPTNIEAMD.IRFNSK....LK	128		
NTDB id 1058	ABD1 RS01615 WP 001274986.1	AEEFAEPYFD	LVDYDTS....QIPKDLVDQKLIKLRHILPLIQRG...QILYVATS	NPSNIEAMDA.IRFNSK....LL	128		
consensus		**	*	** * *	* * * *	* * *	* *

```

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 412873 GTH25 RS12750 WP 164530616.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GCO85 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

```



```

NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 412873 GTH25 RS12750 WP 164530616.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GCO85 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

```



logo

NTDB id 1410 SGL RS13950 WP 010873519.1	GATARLDEMGEVFMVSGSILGVIAQRLMRKVCTECHIAAY.HPSKEELSRFGLSASGDEVVTFYKANSLSPDEIHLARQK	554
NTDB id 1028 TT RS08215 WP 011173991.1	QAITRLDEMGEVFNISAAALIGVLSQRLVRRVCEHCKVEV.KPDPETLRRICLSEAFIQ..G.....ARLYK	812
NTDB id 1306 DR RS10060 WP 027479822.1	GAUTRLEEMGIENFNISAAVMGVIAQRLVRRVCSCKQPT.NADPEVLRRICISERDIR..G.....ANLMR	809
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	STIDRLLDMQAKSYLIAASLSLVIAQRLVRKLCPCWCKQKSKKHY.....IEF.....E.....GEFFE	443
NTDB id 1384 A4U84 RS08525 WP 010787006.1	SAVERLLQLGIGQEYEQNSLLLVIAQRLVRKLCCKRGVG.....	399
NTDB id 1366 NTHI RS01950 WP 011271972.1	SAISRLQLQLCIGQHETIENSLLLVIAQRLVRKICPKCGGNL.....	404
NTDB id 1355 HI 0298 AAC21962.1	SAISRLQLQLCIGQYFIKNSLLLVIAQRLVRKLCCKCGGNL.....	404
NTDB id 412873 GTH25 RS12750 WP 164530616.1	STLMRLYNLCIEKDLIHSVSLTISQRLVRCLCPLCKICLPNKQ....HININKEMIEI.....PNWQ	306
NTDB id 1168 A1552VC RS11070 WP 000957200.1	ETVIRLANMGVEPFNLASSLSLVIAQRLARRLCKHCKIAV.RPSALLQSQAFAFPNEIL.....YEAN	486
NTDB id 1401 DSB67 RS12665 WP 010643259.1	ETVIRLSNMGVESFNLASSLSLVIAQRLARRLCPYCKQPQ.EPNSQLQH.IGIANTEQI.....FQAN	485
NTDB id 1293 VP RS12240 WP 005479695.1	ETIIRLSNMGVESFNLASSLSLVIAQRLARRLCPYCKQPQ.EHTVQLQH.LGIQTTDNI.....FRAN	485
NTDB id 1110 NGFG RS09235 WP 003689817.1	ATLSRLMLNMGVAPFNIASSVSLTIAQRLRRRLCSSCKQEVERPSASALKEVCFTEDEDLAK.D.....WKLYR	481
NTDB id 1251 GCO85 RS07725 WP 011946523.1	ETLNLRLVMGIPTFNFIASSVTLTIAQRLARRLCLNQCKAVRDDFTNQGLIELGFKEADLV..N.....LKLYK	498
NTDB id 1018 ACIAD RS01685 WP 004920473.1	ETLTRLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRPI.QVPERSLLENCFTPEDLAQPE.....FQIFE	494
NTDB id 1058 ABD1 RS01615 WP 001274986.1	ETLTRLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIPA.DIPKQSLEMGFTEQLAHPD.....FRVFQ	494
consensus	** !* **** *** *** *****!!!!*!!* !* ** *	

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	GNLCCQKCSGSQYKGRVGVYEVMRNSERTAEILNQGATTDRIKDCAV.EECMITLAYSINLVQECYTLEEVERVTFTDT	633
NTDB id 1028 TT RS08215 WP 011173991.1	GMGCERCGGTGYKGRYAIHELLVVDDEIRHATVAGKSATEIKEIAR.RKGMKTLREDGLYKALQGITTLLEVLARTIE..	889
NTDB id 1306 DR RS10060 WP 027479822.1	GTGCPRCGGTGYKGRMGIHELLVMDDSLRRTIGAGRPAAEIRDVALGESGLRSLRQDCEKALQGITTLLEVLAVTAS..	887
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	PKGCERCCHHSQFFGRELIAECLEINEDLACAIRENQDKTILMELAK.KYGFQTMFEQCILKKAKEGLTSLIDELLRVVR...	519
NTDB id 1384 A4U84 RS08525 WP 010787006.1	...CDECY.QGYRGRIGVYQCLSRATAK.....FDKQTA.YLDFSSLRESAKQKIEQQLTNETEVDRLVGYE..	461
NTDB id 1366 NTHI RS01950 WP 011271972.1	.INSCDCH.QGYRGRIGVYQFLHWQQNG.....Y.....QTDGFENLRESGLEKVSQGITDEKETERVLGKNS	464
NTDB id 1355 HI 0298 AAC21962.1	.ANSCDCH.QGYRGRIGVYQFLHWQQND.....Y.....QTDGFKNLRASGLEKVSQGITDEKETERVLGKNL	464
NTDB id 412873 GTH25 RS12750 WP 164530616.1	AVGCCQQCY.SGYNGRTAIYDCFEPLKQT.....LSSPYHLLYSCISLTKQGITTLEEVYQTLGDIE	366
NTDB id 1168 A1552VC RS11070 WP 000957200.1	AAGCNECT.GCYSGRVGIYEVMAFNTEIAEATIMQRASIHQTERLAK.ANCMQTLQESGLEKIREGITSFAELQRVLYF..	562
NTDB id 1401 DSB67 RS12665 WP 010643259.1	PDGCNECT.HGYSGRGTGIYEVMMKFDESISEALIKGASVHELEKLAI.ANCMQTLQMSGLEKIKQGITSFRELRVLYF..	561
NTDB id 1293 VP RS12240 WP 005479695.1	PDGCNECT.HGYSGRGTGIYEVMRFDESISEALIKGASVHELEKLAI.ANCMSILQMSGLEKIKQGITSFSELRVLYF..	561
NTDB id 1110 NGFG RS09235 WP 003689817.1	AVGCDCRCRGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGLDVAIY.KECMVLDLRRAGILKIMQGITSLEEVNTANTND..	558
NTDB id 1251 GCO85 RS07725 WP 011946523.1	AVGCEQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQ.SEGMLTIFQSGIEKVKEGITTIEEVNRVTVD..	574
NTDB id 1018 ACIAD RS01685 WP 004920473.1	PVGCHDCR.EGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAE.TLGFNNLRRSGLKKVMQCVTSIQEINRVVTSE..	570
NTDB id 1058 ABD1 RS01615 WP 001274986.1	PVGCLECR.EGYKGRVGIYEVMMKVTPETISKIIMEDGNALEIAAAASE.KLGFNNLRRSGLKKVMQCVTSIQEINRVVTSE..	570
consensus	** ! !*!!****** * *	

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	GLESEMRAKRKSALTCTCAAE L QQEWLDCPYCMTSRFS	672
NTDB id 1028 TT RS08215 WP 011173991.1	.....	889
NTDB id 1306 DR RS10060 WP 027479822.1	.....	887
NTDB id 1227 CJJ81176 RS07050 WP 011812800.1	.....	519
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	461
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	464
NTDB id 1355 HI 0298 AAC21962.1	.....	464
NTDB id 412873 GTH25 RS12750 WP 164530616.1	.....	366
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	562
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	561
NTDB id 1293 VP RS12240 WP 005479695.1	.....	561
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	558
NTDB id 1251 GCO85 RS07725 WP 011946523.1	.....	574
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved