

NTDB	id	600	KW2	RS01765	WP	011675413.1	MATKK.....KTNFDDITKKYGA	ERDKALAD	ALAL	IEKD	FGKG	SLMRLGEA	.ANQKVSVVSSGSLALDIALGAGGYPKGR	74		
NTDB	id	269	KZH43	RS08665	WP	001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMRLGER	.AEQKVQVMSSGSLALDIALSGGGYPKGR	73		
NTDB	id	228	SPD	RS09265	WP	001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMRLGER	.AEQKVQVMSSGSLALDIALSGGGYPKGR	73		
NTDB	id	194	SPR	RS08825	WP	001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMRLGER	.AEQKVQVMSSGSLALDIALSGGGYPKGR	73		
NTDB	id	159	SP	RS09750	WP	001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMRLGER	.AEQKVQVMSSGSLALDIALSGGGYPKGR	73		
NTDB	id	499	SM12261	RS08315	WP	078228268.1	.MAKK.....PKKLDEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMRLGER	.AEQKVQVMSSGSLALDIALSGGGYPKGR	73		
NTDB	id	527	SMSK321	RS11065	WP	001085454.1	.MAKK.....PKKLDEISKKFGA	EREKALND	ALKL	IEKD	FGKG	SIMRLGER	.AEQKVQVMSSGSLALDIALSGGGYPKGR	73		
NTDB	id	453	Spy49	1753c	ACI62003.1		.MAKK.....LKKNEEITKKFG	DERRKALDD	ALKN	IEKD	FGKGA	VMLRGER	.AEQKVQVMSSGSLALDIALGAGGYPKGR	73		
NTDB	id	408	SMU	RS09530	WP	002262392.1	.MAKR.....IKKTEEITKKFG	DERRKALDD	ALKN	IEKD	FGKGA	VMLRGER	.AEQKVQVMSSGSLALDIALGAGGYPKGR	73		
NTDB	id	115	BSU	16940	NP	389576.2		MSDRQAALDMALK	QIEKQ	FGKG	SIMKLGEK	.TDTRISTVP	SGSLALDTALGIGGYPRGR	58		
NTDB	id	625	LCA	RS02525	WP	011374196.1		MAKDERQAALDA	ALKK	IEKN	FGKG	SIMRMGEK	.VDTRI	VSTVSSGSLALDEALGVGGYPRGR	60	
NTDB	id	1313	DR	RS12030	WP	010888966.1		MSKDATKEISAPTDA	ERSKA	TETAMS	QIEKA	FGKG	SIMKLGAE	.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72	
NTDB	id	1245	Cj1673c	YP	002345041.1			MDDNKRKSLDA	AALKS	LDKT	FGKGT	IILRLGDK	.EVEQIDS	IGTGSVLGLDALGIGGVPKGR	59	
NTDB	id	1214	NCTC11637	00359	SQJ03206.1			MAIDEDKQKAISLA	IKQ	IDKV	FGKGA	LVRLGDK	.QVEKIDA	ISTGSLGLDLALGIGGVPKGR	61	
NTDB	id	1211	C694	RS00795	WP	000963128.1		MAIDEDKQKAISLA	IKQ	IDKV	FGKGA	LVRLGDK	.QVEKIDS	ISTGSLGLDLALGIGGVPKGR	61	
NTDB	id	1334	RAOC	RS04870	WP	004918236.1		MAK..TETTSPN	DDKKKALA	AVLEK	LDKT	YGKGTVM	KLGDGTVDHN	.IEVIPSGSLGLDLALGVGGYPKGR	68	
NTDB	id	1427	RS	RS02760	WP	011000510.1		MEDG...KKAASMSA	EKQKALAA	ALA	QIEKQ	FGKG	SIMKMGA	.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68	
NTDB	id	400334	GJV52	RS12390	WP	095502032.1		MSDEKS	KALAA	ALA	QIEKN	FGKG	SIMKMDGSHQEEN	.LEVISTGSLGLDLALGVGGLPRGR	60	
NTDB	id	1130	NGFG	RS03960	WP	003688695.1		MSDDKS	KALAA	ALA	QIEKS	FGKGA	IMKMDGSQQEEN	.LEVISTGSLGLDLALGVGGLPRGR	60	
NTDB	id	1124	NGFG	RS03960	WP	003688695.1		MSDDKS	KALAA	ALA	QIEKS	FGKGA	IMKMDGSQQEEN	.LEVISTGSLGLDLALGVGGLPRGR	60	
NTDB	id	1123	OK783	RS03845	WP	003688695.1		MSDDKS	KALAA	ALA	QIEKS	FGKGA	IMKMDGSQQEEN	.LEVISTGSLGLDLALGVGGLPRGR	60	
NTDB	id	1389	A4U84	RS07560	WP	021112712.1		.MAENKKSSKNNT..	VVKQVEP	EQQKQALEA	ALA	QIEKQ	FGKG	SIMKLQQT.EQLDIES	VSTGSLGLDLALGIGGPLPMGR	76
NTDB	id	1165	A1552VC	RS01565	WP	000344154.1			MDENKQKALAA	ALGQ	IEKQ	FGKG	SIMRLG			

logo

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NTDB id 269 KZH43 RS08665 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
NTDB id 228 SPD RS09265 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
NTDB id 194 SPR RS08825 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
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NTDB id 408 SMU RS09530 WP 002262392.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	D	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
NTDB id 115 BSU 16940 NP 389576.2	I	I	E	V	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	I	A	E	V	Q	Q	Q	G	G	A	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	Q	K	L	G	V	N	I	E	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	A	E	A	L	V	R	S	G	A	V	D	I	138		
NTDB id 625 LCA RS02525 WP 011374196.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	E	V	Q	K	Q	G	G	T	A	A	Y	I	D	A	E	N	A	M	D	P	K	Y	A	T	A	L	G	V	N	I	D	D	L	L	S	Q	P	D	T	G	E	Q	G	L	E	I	A	D	A	L	V	S	S	G	A	V	D	I	140	
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NTDB id 1211 C694 RS00795 WP 000963128.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	L	S	L	H	I	I	A	E	C	Q	K	N	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	H	Y	A	K	R	L	G	V	D	T	E	N	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	L	E	T	I	T	R	S	G	G	I	D	L	141
NTDB id 1334 RAOC RS04870 WP 004918236.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	H	A	I	A	E	A	Q	K	V	G	G	T	A	A	F	I	D	A	E	H	A	F	D	M	H	Y	A	E	K	L	G	I	N	L	E	L	I	V	S	Q	P	D	N	G	E	Q	A	L</																

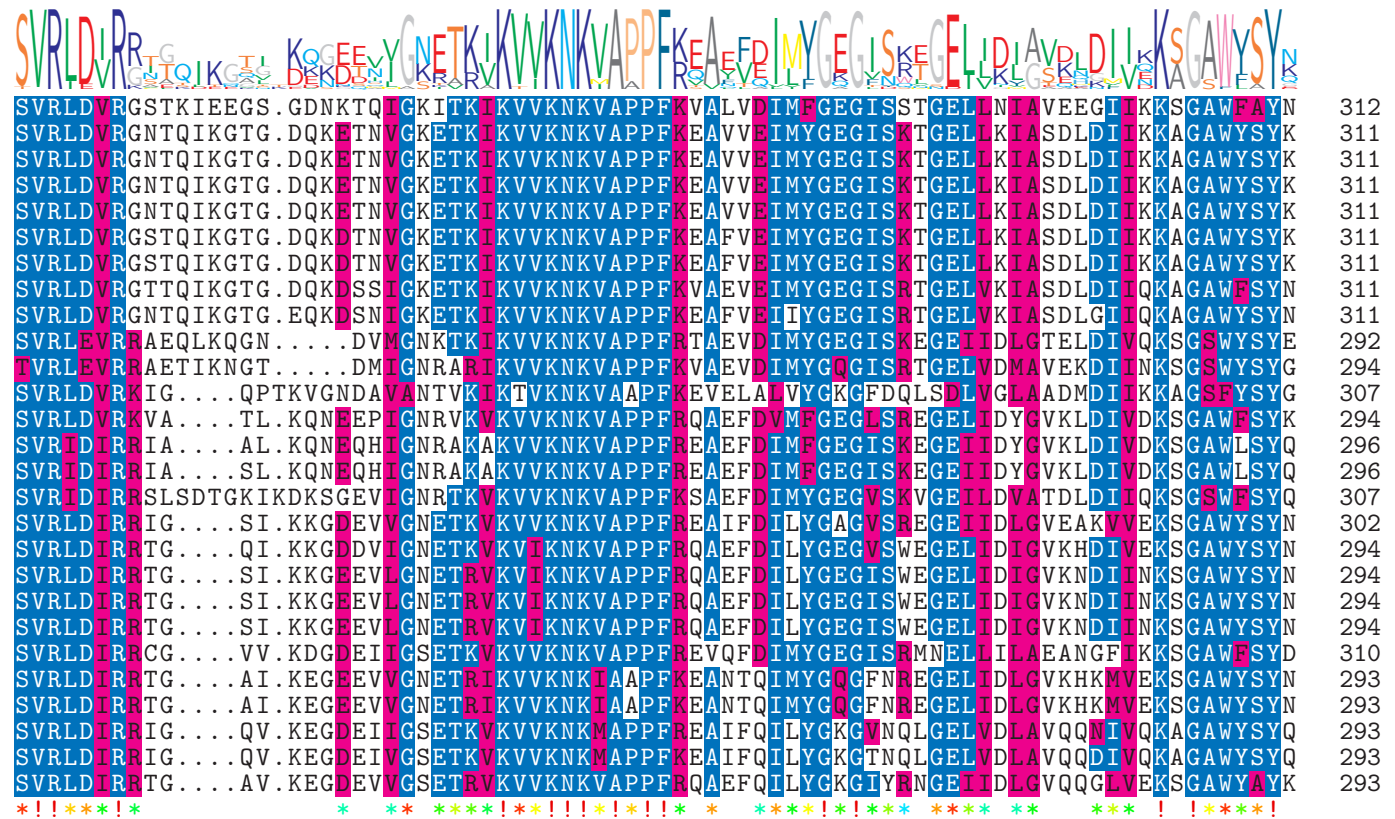
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NTDB id 269 KZH43 RS08665 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 228 SPD RS09265 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 194 SPR RS08825 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
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NTDB id 453 Spy49 1753c ACI62003.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
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NTDB id 115 BSU 16940 NP 389576.2	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	A	I	N	K	S	K	T	I	A	I	F	I	N	Q	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	217
NTDB id 625 LCA RS02525 WP 011374196.1	L	V	V	D	S	V	A	A	L	V	P	R	A	E	I	E	G	E	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	T	I	N	K	T	K	T	I	A	L	F	I	N	Q	I	R	E	K	V	G	V	M	.	F	G	N	P	E	V	T	P	G	G	R	A	L	K	F	Y	S	219
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NTDB id 1427 RS																																																																																	

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consensus

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logo

NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEE	TTASKTKAKAKKEEKAVETEEIELELED	387		
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTE	NKKDE...PKKEEA..VNEEVPLDLGDE	381		
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTE	NKKDE...PKKEEA..VNEEVPLDLGDE	381		
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTE	NKKDE...PKKEEA..VNEEVPLDLGDE	381		
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTE	NKKDE...PKKEEA..VNEEVPLDLGDE	381		
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAADNPEIF	DEIDHQVRVQFGL	LIDGEEIAES	KKDE...AAQVDS..VNEEVTLDLGDE	377		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLAADNPEVFAE	IDHQVRVQFGL	LIDGEEAAES	KKDE...VAQVDS..VNEEVTLDLGDE	377		
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAV	ASE...E...TDDLALDLNG	373		
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEEKSS	KEK...ETDEK..ADKNLVLELDDT	378		
NTDB id 115 BSU 16940 NP 389576.2	EERLGGG	RENAKQFLKENKDIMLMIQE	QIREHYGL	DNNGVVQQAAE	TQEEL.EFE.E	348		
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQG	RENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPPEEDLPTTE	DE.QI.NILPDDST...EE	355		
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAYIAERP	MEQEIRDRVMAAIRAGNAGE	APALAPAPAAPEAAEA		363		
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGG	RENSKAFLENPEIA	DEITKAIQNSMG	IEGMIS	GSEDDEGEE	343		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGG	RENAKALLKEDKALADE	ITLKIKESIGS	NEEIM	PLPDEPLEEME	347		
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGG	RENAKALLKEDKALADE	ITLKIKESIGS	NEEIM	PLPDEPLEEME	347		
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGG	RDITVKELIKDNPELA	EELEAKIREKLQAK			343		
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQG	RDNCREFLRENAELARE	ENKVRHLGV	TPMGA	VTLAEEVEED	352		
NTDB id 400334 GJV52 RS12390 WP 095502032.1	GAKIGQG	KDNVRLWLKENPEVANE	IDAIRA	AVGINIDIT	EGKIDDTDGER	PEE	348	
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGVEMHIT	EGTQDET	DGER	PEE	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGVEMHIT	EGTQDET	DGER	PEE	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGVEMHIT	EGTQDET	DGER	PEE	348	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQG	KNNAVKWLKENPEIA	DKLEQEI	RNTLASNPNSV	LKATASDSNDES	VEEF	SEEEL	372
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQG	KANACKYLENPEIA	AKTLDKKLREMLLN	PENMQ	LIAETSSAAD	DVEFGAV	PEEF	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQG	KANACKYLENPEIA	AKTLDKKLREMLLN	PENMQ	LIAETSSAAD	DVEFGAV	PEEF	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQG	KNNVIRYFEENNQIA	EIEIERNIREQLLT	TKASDQ	TAA.HDETEEP	DLLES		349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFEENNQIA	EIEIERNIREQLLT	TKASDQ	TAA.HDETEEP	DLLES		349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANAACKYLENPEI	GQIEIEQ	IRAKLLVTSANT	KATPVAEDLADADI			347
consensus	***!!!	*****	**	*****	*****	**	**	*

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NTDB id 600 KW2 RS01765 WP 011675413.1		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	LEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	LEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	LEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	LEIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	IEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	383
NTDB id 115 BSU 16940 NP 389576.2	.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	.....	363
NTDB id 1245 Cj1673c YP 002345041.1	.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....	343
NTDB id 1427 RS RS02760 WP 011000510.1	.....	352
NTDB id 400334 GJV52 RS12390 WP 095502032.1	.....	348
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....	348
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.....	372
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.....	347
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved