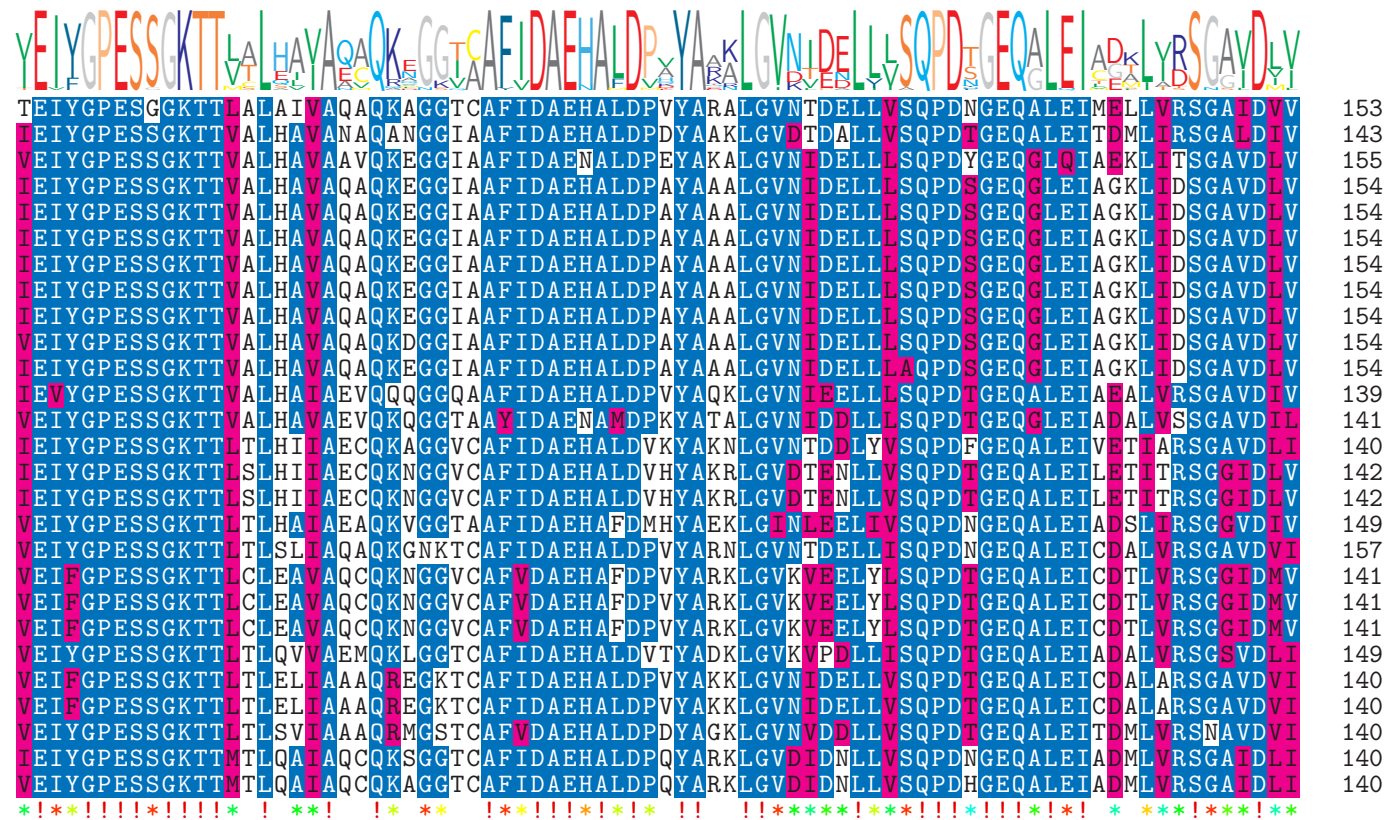


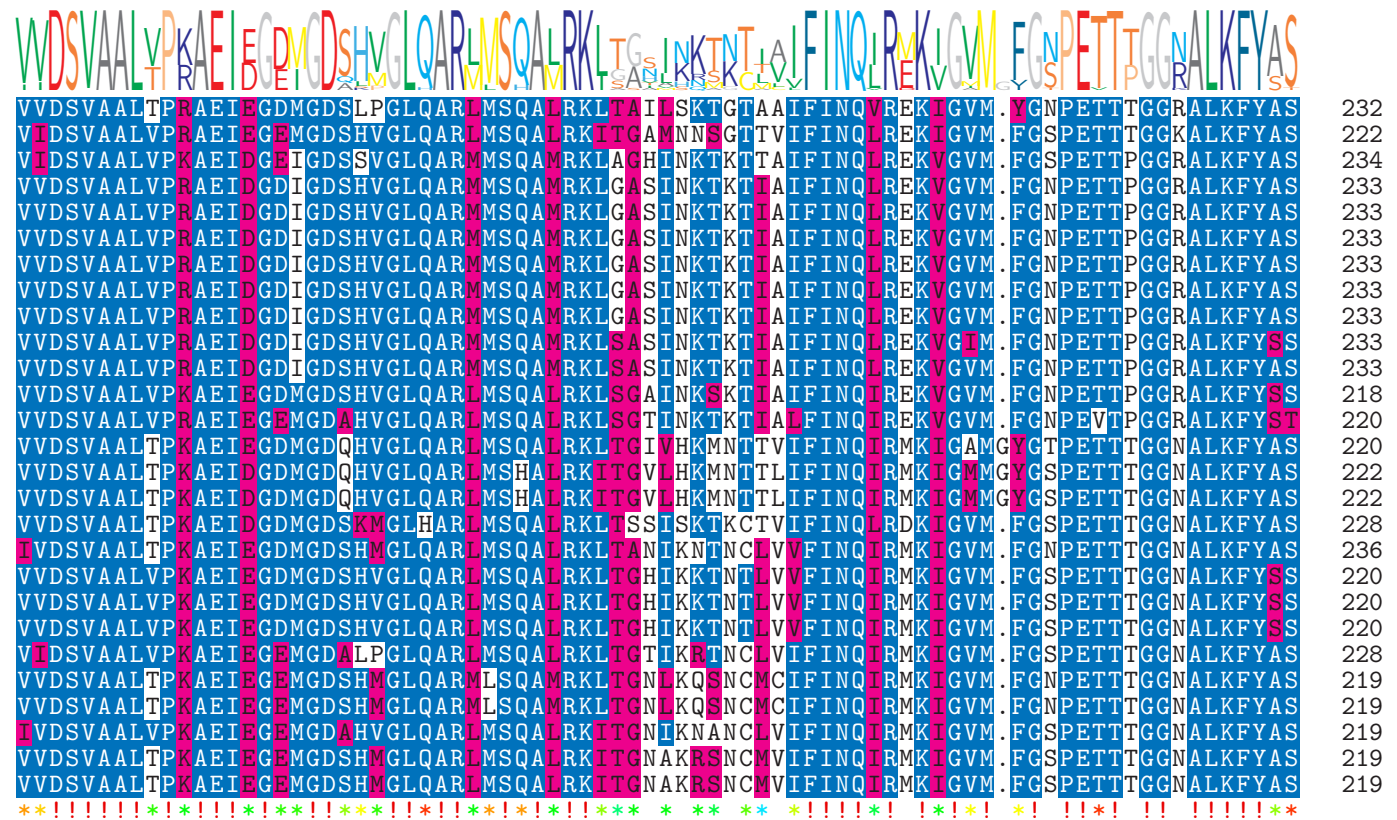
logo

NTDB id 1313 DR RS12030 WP 010888966.1	.MSK....DATKEISAPTDAK	ERSKATETAMSQIEKAFGKG	SIMKLGAE	.SKLDVQVVSTGSLSLDLALGVGGIP	RGRI	73
NTDB id 70613 RE2895 RS13200 WP 007735170.1	MAPQAP	DRDKALDLALAQIDKNFGKGSVMRLGEG	.VRQPIAVIPTGSTALDVALGIGGLPRGRV			63
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDI.TKKYGA	ERDKALADALALIEKDFGKGSIMRLGEA	.ANQKVSVMSSGSLALDIALGAGGYPKGRI			75
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEI.SKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGRI			74
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEI.SKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGRI			74
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEI.SKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGRI			74
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK...PKKLEEI.SKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGRI			74
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK...PKKLDEI.SKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGRI			74
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEI.SKKFGA	EREKALNDALKLIEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGRI			74
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEI.TKKFGD	ERKKALDDALKNIEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDIALGAGGYPKGRI			74
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEI.TKKFGD	ERRKALDDALKNIEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDIALGAGGYPKGRI			74
NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQIEKQFGKGSIMKLGEK	.TDTRISTVPSGSLALDTALGIGGYPRGRI			59
NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQAALDAALKKIEKNFGKGSIMRMGEK	.VDTQVSTVSSGSLALDEALGVGGYPRGRI			61
NTDB id 1245 Cj1673c YP 002345041.1	MDDN	KRKSLDAALKSLDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDLALGIGGVPRGRI			60
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDE	DKQKATISLAIKQIDKVFVGKGALVRLGDK	.QVEKIDSISTGSLGLDLALGIGGVPRGRI			62
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDE	DKQKATISLAIKQIDKVFVGKGALVRLGDK	.QVEKIDAISTGSLGLDLALGIGGVPRGRI			62
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTE.TTSPND	DKKKALAAVLEKLDKTYGKGTVMKLG	DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGRI			69
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVV.KQVEPEQ	KKQALEAALAQIEKQFGKGSIMKLQGT	.EQLDIESVSTGSLGLDLALGIGGLPMGRI			77
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVI	ISTGSLGLDLALGVGGLPRGRI			61
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVI	ISTGSLGLDLALGVGGLPRGRI			61
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSD	DKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVI	ISTGSLGLDLALGVGGLPRGRI			61
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KK.AASMSA	EKKALAAALAQIEKQFGKGSIMKMGDA	.EVEPVQVVSTGSLGLDVALGVGGLPRGRV			69
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KQKALAAALGQIEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDIALGAGGLPMGRI			60
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDEN	KQKALAAALGQIEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDIALGAGGLPMGRI			60
NTDB id 1205 PSJM300 05545 AFN77183.1	MDEN	KKRALAAALGQIEKQFGKGAVMRMGDH	.DRQAIPSIISTGSLGLDIALGIGGLPKGRI			60
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDEN	KSKALQAALSQIEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLDIALGIGGLPKGRI			60
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDN	KSKALQAALSQIEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLDIALGIGGLPKGRI			60
consensus		* * * * *	* * * * *	* * * * *	* * * * *	

NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 70613 RE2895 RS13200 WP 007735170.1
NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SP4 RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1334 RA0C RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
consensus



NTDB id 1313 DR RS12030 WP 010888966.1
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NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 408 SMU RS09530 WP 002262392.1
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NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
consensus



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NTDB id 1313 DR RS12030 WP 010888966.1	VRLDVRKIGQ...PTKVGND	AVANTVKIKTVKNKVAA	APFKEVELALVY	GKGF	QLSDLVGLA	ADMDI	IKKAGS	FFYSY	GD	308
NTDB id 70613 RE2895 RS13200 WP 007735170.1	VRLDIRRIETLKDGT....DA	VGNRTRVKVVKNKVAPP	FKQA	EFDILY	GQGISKE	GLIDMG	VEHGF	IRKSG	SWTY	YEG 297
NTDB id 600 KW2 RS01765 WP 011675413.1	VRLDVRGSTKIEEGS.GDNKT	QIGKITKIKVVKNKVAPP	FKVALVD	IMFG	EGISST	GELLN	IAVEE	GIKK	SGAW	FAYND 313
NTDB id 269 KZH43 RS08665 WP 001085462.1	VRLDVRGNTQIKGTG.DQKE	TNVGKETKIKVVKNKVAPP	FK	EA	VVEIMY	GEGIS	KTGELL	KIAS	DLDI	IKKAGAWYSYKD 312
NTDB id 228 SPD RS09265 WP 001085462.1	VRLDVRGNTQIKGTG.DQKE	TNVGKETKIKVVKNKVAPP	FK	EA	VVEIMY	GEGIS	KTGELL	KIAS	DLDI	IKKAGAWYSYKD 312
NTDB id 194 SPR RS08825 WP 001085462.1	VRLDVRGNTQIKGTG.DQKE	TNVGKETKIKVVKNKVAPP	FK	EA	VVEIMY	GEGIS	KTGELL	KIAS	DLDI	IKKAGAWYSYKD 312
NTDB id 159 SP RS09750 WP 001085462.1	VRLDVRGNTQIKGTG.DQKE	TNVGKETKIKVVKNKVAPP	FK	EA	VVEIMY	GEGIS	KTGELL	KIAS	DLDI	IKKAGAWYSYKD 312
NTDB id 499 SM12261 RS08315 WP 078228268.1	VRLDVRGSTQIKGTG.DQK	DTNVGKETKIKVVKNKVAPP	FK	EA	FVEIMY	GEGIS	KTGELL	KIAS	DLDI	IKKAGAWYSYKD 312
NTDB id 527 SMSK321 RS11065 WP 001085454.1	VRLDVRGSTQIKGTG.DQK	DTNVGKETKIKVVKNKVAPP	FK	EA	FVEIMY	GEGIS	KTGELL	KIAS	DLDI	IKKAGAWYSYKD 312
NTDB id 408 SMU RS09530 WP 002262392.1	VRLDVRGNTQIKGTG.EQK	DSNIGKETKIKVVKNKVAPP	FK	EA	FVEI	TYGEGIS	RTGEL	VKIAS	DLG	IIQKAGAWYSYNG 312
NTDB id 453 Spy49 1753c ACI62003.1	VRLDVRGTTQIKGTG.DQK	DSSIGKETKIKVVKNKVAPP	FK	VA	EVEIMY	GEGIS	RTGEL	VKIAS	DL	IIQKAGAWFSYNG 312
NTDB id 115 BSU 16940 NP 389576.2	VRLEVRRAEQLKQGN....	DVMGNKTKIKVVKNKVAPP	FR	TA	EVDIMY	GEGIS	KEGE	IIDL	GLTE	LDIVQKSGSWYSYEE 293
NTDB id 625 LCA RS02525 WP 011374196.1	VRLEVRRAETIKNGT....	DMIGNRARIKVVKNKVAPP	FK	VA	EVDIMY	GQGIS	RTGEL	VDMA	VEKDI	INKSGSWYSYGS 295
NTDB id 1245 Cj1673c YP 002345041.1	VRLDVRKVAT....L.KQNE	EPIGNRVKVVKNKVAPP	FR	QA	EFDVMF	GGLSR	EGELID	YGVK	LDIV	DKSGAWFSYKD 295
NTDB id 1211 C694 RS00795 WP 000963128.1	VRIDIRRIAS....L.KQNE	EQHIGNRAKAKVVKNKVAPP	FR	EA	EFDIMF	GEGIS	KEGE	IIDY	GVKL	DIVDKSGAWLSYQD 297
NTDB id 1214 NCTC11637 00359 SQJ03206.1	VRIDIRRIAA....L.KQNE	EQHIGNRAKAKVVKNKVAPP	FR	EA	EFDIMF	GEGIS	KEGE	IIDY	GVKL	DIVDKSGAWLSYQD 297
NTDB id 1334 RAOC RS04870 WP 004918236.1	VRIDIRRSLSDTGKIKDKS	GEVIGNRTKVKVVKNKVAPP	FK	SA	EFDIMY	GEGV	SKVGE	ILDV	ATDL	DIQKSGSWFSYQD 308
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VRLDIRRCGV....V.KDG	DEIIGSETKVKVVKNKVAPP	FR	EV	QFDIMY	GEGIS	RMNELL	ILAE	ANGFI	KKSGAWFSYDG 311
NTDB id 1130 NGFG RS03960 WP 003688695.1	VRLDIRRTGS....I.KKG	EEVLGNETRVKVIKNKVAPP	FR	QA	EFDILY	GEGIS	WEGEL	IDIG	VKN	DIINKSGAWYSYNG 295
NTDB id 1124 NGFG RS03960 WP 003688695.1	VRLDIRRTGS....I.KKG	EEVLGNETRVKVIKNKVAPP	FR	QA	EFDILY	GEGIS	WEGEL	IDIG	VKN	DIINKSGAWYSYNG 295
NTDB id 1123 OK783 RS03845 WP 003688695.1	VRLDIRRTGS....I.KKG	EEVLGNETRVKVIKNKVAPP	FR	QA	EFDILY	GEGIS	WEGEL	IDIG	VKN	DIINKSGAWYSYNG 295
NTDB id 1427 RS RS02760 WP 011000510.1	VRLDIRRIGS....I.KKG	DEVVGNETKVKVVKNKVAPP	FR	EA	IFDILY	GAGV	SREGE	IIDL	GV	EAKVVEKSGAWYSYNG 303
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKI	AAPFKE	ANTQ	IMYGG	GFN	REGEL	IDL	GVKHK	MVEKSGAWYSYNG 294
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKI	AAPFKE	ANTQ	IMYGG	GFN	REGEL	IDL	GVKHK	MVEKSGAWYSYNG 294
NTDB id 1205 PSJM300 05545 AFN77183.1	VRLDIRRTGA....V.KEG	DEVVGS	ETRVKVVKNKVAPP	FR	QA	EFAQ	ILYGKGI	YRNGE	IIDL	GVQQGLVEKSGAWYAYKG 294
NTDB id 1074 ABD1 RS10195 WP 000344167.1	VRLDIRRIGQ....V.KEG	DEIVGSETKVKVVKNKM	APPFKE	AI	FQILY	GKGTN	QLGEL	VDL	AVQQ	DIVQKAGAWYSYQG 294
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VRLDIRRIGQ....V.KEG	DEIVGSETKVKVVKNKM	APPF	RE	AI	FQILY	GKGV	NQLGEL	VDL	AVQQNIVQKAGAWYSYQG 294
consensus	!!***!*	*	**	*****!*****!*	*	*****!*****	*****	***	! !*****!	

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NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
NTDB id 70613 RE2895 RS13200 WP 007735170.1	DQLGGGKENARKFLLENTDIRDEIEKKIKKLGIGADVTATDEAPADF.....	345
NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTASKT.KAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES....KKDE.....AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES....KKDE.....VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 115 BSU 16940 NP 389576.2	ERLGGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQAEETQEEL..EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI..NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	KKLGGGRENSKAFLENPEIADEITKAIQNSMGIEGMISGSEDDE..GEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGGGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPDEP..LEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGGGRENAKALLKEDKALADEITLKI KESIGSNEEIMPLPDEP..LEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGGGRDRTVKELTKDNPELAEELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDESDVEEFSE.....EEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGERPE.....E.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGERPE.....E.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGERPE.....E.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNENMQLIAETSSAADDVEFGAVPE.....EF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNENMQLIAETSSAADDVEFGAVPE.....EF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQGGKANAAYLEENPEIGQIEEQIRAKLLVTSANTKATPVAEDLADAD..I.....	347
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGTNGAVQ.I.EDEEEDPD..LLE.....S.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEDPD..LLES.....	349
consensus	***!!***** ** ***** ***** ** ** *	

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NTDB id 1313 DR RS12030 WP 010888966.1	...	363	
NTDB id 70613 RE2895 RS13200 WP 007735170.1	...	345	
NTDB id 600 KW2 RS01765 WP 011675413.1	...	387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388	
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388	
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388	
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388	
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384	
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383	
NTDB id 453 Spy49 1753c ACI62003.1	D..	378	
NTDB id 115 BSU 16940 NP 389576.2	...	348	
NTDB id 625 LCA RS02525 WP 011374196.1	...	355	
NTDB id 1245 Cj1673c YP 002345041.1	...	343	
NTDB id 1211 C694 RS00795 WP 000963128.1	...	347	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	...	347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	...	343	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	...	372	
NTDB id 1130 NGFG RS03960 WP 003688695.1	...	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	...	348	
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	...	354	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354	
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
consensus			

- X non conserved
- X similar
- X ≥ 50% conserved