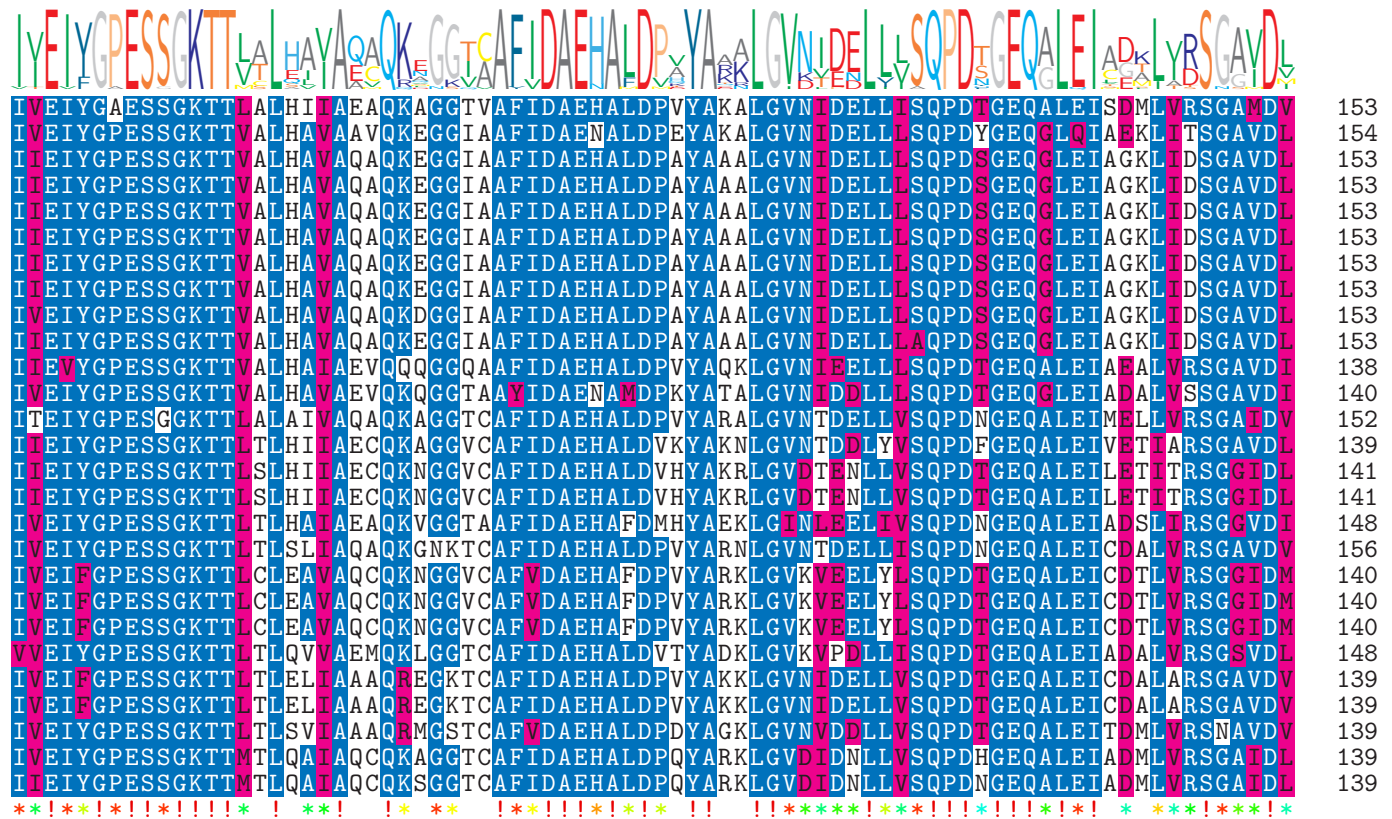


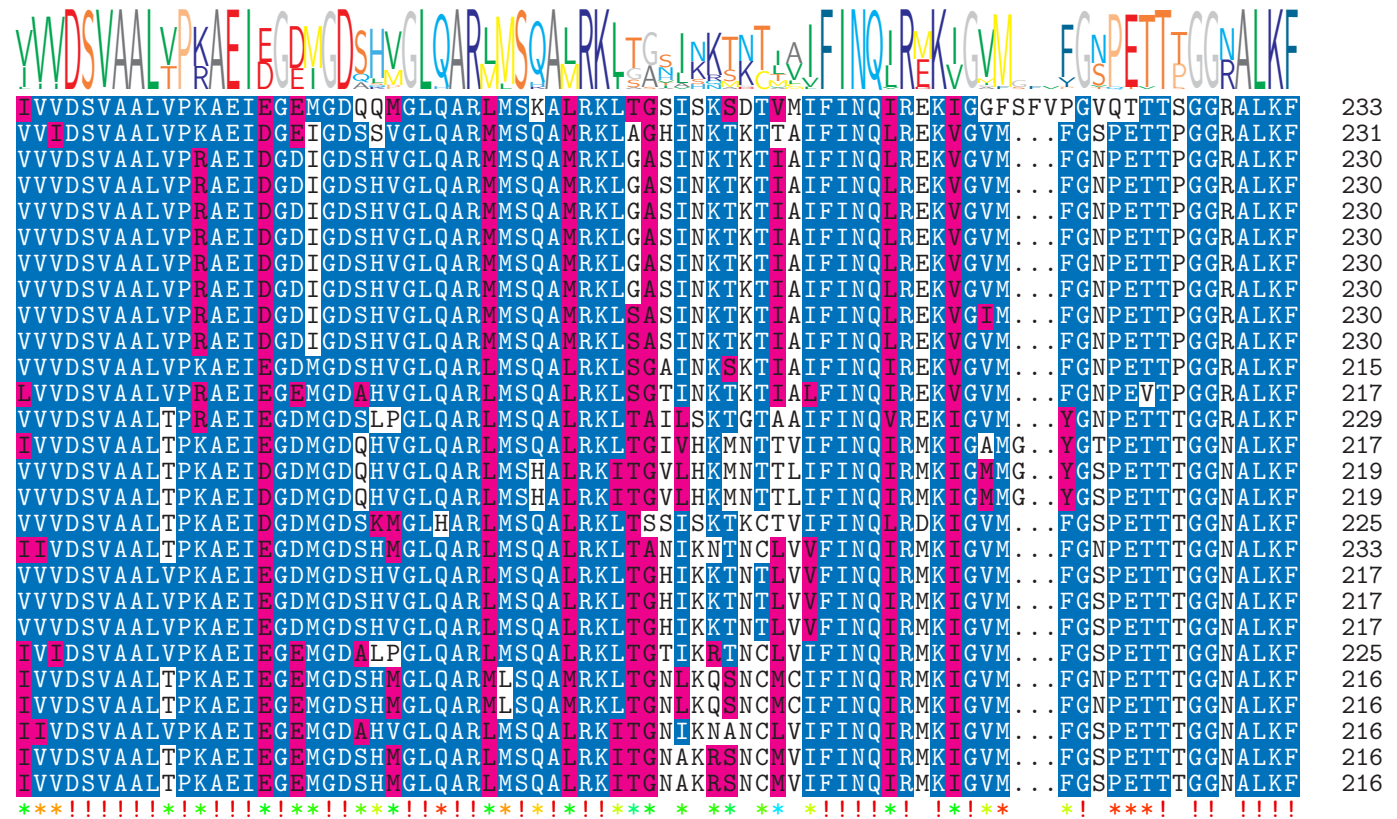
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NTDB id 74365 FVE78 RS08955 WP 146998974.1	.MARKKA.....EEKEKDDKGLS	EREKMLNLALKQIEKD	YGEGAIMKLG	EN.QKMNT	RAISTGSLN	LDIALGIGGV	PRGR	73
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKKT.....NFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLG	EA.ANQKVSVVSSGSL	ALDIALGAGGY	PKGR		74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKVQVMSSGSL	ALDIALGSGGY	PKGR		73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKVQVMSSGSL	ALDIALGSGGY	PKGR		73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKVQVMSSGSL	ALDIALGSGGY	PKGR		73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKVQVMSSGSL	ALDIALGSGGY	PKGR		73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKPK.....KLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKVQVMSSGSL	ALDIALGSGGY	PKGR		73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKPK.....KLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLG	ER.AEQKVQVMSSGSL	ALDIALGSGGY	PKGR		73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRIK.....KTEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLG	ER.AEQKVQVMSSGSL	ALDIALGAGGY	PKGR		73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKLK.....KNEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLG	ER.AEQKVQVMSSGSL	ALDIALGAGGY	PKGR		73
NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQIEKQ	FGKGSIMKLGEK	.TDTRISTVPSGSL	ALDTALGIGGY	PRGR		58
NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVSTVSSGSL	ALDEALGVGGY	PRGR		60
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKATETAMSQIEKA	FGKGSIMKLGAE	.SKLDVQVVSTGSL	SLDLALGVGGI	PRGR		72
NTDB id 1245 Cj1673c YP 002345041.1	MDDN	KRKSLDAALKSLDKT	FGKGTILRLGDK	.EVEQIDSIGTGSVGL	LDLALGIGGV	PKGR		59
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDE	DKQKATISLAIKQID	KVFGKGALVRLGDK	.QVEKIDSISTGSLGL	LDLALGIGGV	PKGR		61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDE	DKQKATISLAIKQID	KVFGKGALVRLGDK	.QVEKIDAISTGSLGL	LDLALGIGGV	PKGR		61
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPND	DKKKALAAVLEKLDKT	YGKGTVMKLG	DGTVDHNI	IEVIPSGSLGL	LDLALGVGGY	PKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQ	KKQALEAALAQIEKQ	FGKGSIMKLGQT	.EQLDIESVSTGSLGL	LDLALGIGGL	PMGR		76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEENLEVISTGSLGL	LDLALGVGGL	PRGR		60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEENLEVISTGSLGL	LDLALGVGGL	PRGR		60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QEENLEVISTGSLGL	LDLALGVGGL	PRGR		60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQKALAAALAQIEKQ	FGKGSIMKMGDA	.EVEPVQVVSTGSLGL	DVALGVGGL	PRGR		68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSL	SLDIALGAGGL	PMGR		59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSL	SLDIALGAGGL	PMGR		59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDEN	KKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQAIP	SISTGSLGL	DIALGIGGL	PKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSL	TLDIALGIGGL	PKGR		59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDEN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSL	TLDIALGIGGL	PKGR		59
consensus		***	***	*	***!	!*!*****	*	***!!*!!*!!*!!*!!*!!*!!*!!

NTDB id 74365 FVE78 RS08955 WP 146998974.1
NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
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 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
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 1313 DR RS12030 WP 010888966.1
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 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus



NTDB id 74365 FVE78 RS08955 WP 146998974.1
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NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
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NTDB id 1313 DR RS12030 WP 010888966.1
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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
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NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus



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NTDB id 74365 FVE78 RS08955 WP 146998974.1	FSTVRMEVKRVGSVKQGD....DV	VGN	EVV	VKV	T	KNK	V	APP	F	KEA	K	F	S	V	M	Y	G	T	G	I	S	R	I	G	E	V	L	D	A	A	I	N	L	G	I	A	S	K	S	G	A	W	F	S	308																																																																																																																																																																																																																																																																																																																																																																																																									
NTDB id 600 KW2 RS01765 WP 011675413.1	YASVRLDVRGSTKIEEGS.GDNKTQ	I	G	K	I	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	V	A	L	V	D	I	M	F	G	E	G	I	S	T	G	E	L	L	N	I	A	V	E	E	G	I	T	K	K	S	G	A	W	F	A	310																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 269 KZH43 RS08665 WP 001085462.1	YASVRLDVRGNTQIKGTG.DQKETN	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	V	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	Y	S	309																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 228 SPD RS09265 WP 001085462.1	YASVRLDVRGNTQIKGTG.DQKETN	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	V	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	Y	S	309																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 194 SPR RS08825 WP 001085462.1	YASVRLDVRGNTQIKGTG.DQKETN	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	V	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	Y	S	309																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 159 SP RS09750 WP 001085462.1	YASVRLDVRGNTQIKGTG.DQKETN	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	V	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	Y	S	309																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 527 SMSK321 RS11065 WP 001085454.1	YASVRLDVRGSTQIKGTG.DQKDTN	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	F	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	Y	S	309																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 499 SM12261 RS08315 WP 078228268.1	YASVRLDVRGSTQIKGTG.DQKDTN	V	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	F	V	E	I	M	Y	G	E	G	I	S	K	T	G	E	L	L	K	I	A	S	D	L	D	I	I	K	K	A	G	A	W	Y	S	309																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 408 SMU RS09530 WP 002262392.1	YSSVRLDVRGNTQIKGTG.EQKDSN	I	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	E	A	F	V	E	I	I	Y	G	E	G	I	S	R	T	G	E	L	V	K	I	A	S	D	L	G	I	I	K	A	G	A	W	Y	S	309																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 453 Spy49 1753c AC162003.1	YASVRLDVRGTTQIKGTG.DQKDS	I	G	K	E	T	K	I	K	V	V	K	N	K	V	A	P	P	F	K	V	A	E	V	E	I	M	Y	G	E	G	I	S	R	T	G	E	L	V	K	I	A	S	D	L	D	I	I	K	A	G	A	W	F	S	309																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 115 BSU 16940 NP 389576.2	YSSVRLEVRRAEQLKQGN....DV	M	G	N	K	T	K	I	K	V	V	K	N	K	V	A	P	P	F	R	T	A	E	V	D	I	M	Y	G	E	G	I	S	K	E	G	E	I	I	D	L	G	T	E	L	D	I	V	Q	K	S	G	S	W	Y	S	290																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 625 LCA RS02525 WP 011374196.1	YSTVRLEVRRAETIKNGT....DM	I	G	N	R	A	R	I	K	V	V	K	N	K	V	A	P	P	F	K	V	A	E	V	D	I	M	Y	G	I	G	I	S	R	T	G	E	L	V	D	M	A	V	E	K	D	I	I	N	K	S	G	S	W	Y	S	292																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 1313 DR RS12030 WP 010888966.1	YASVRLDVRKIGQ....PTKVGND	A	V	A	N	T	V	K	I	K	T	V	K	N	K	V	A	A	P	P	F	K	E	V	E	L	A	L	V	Y	G	K	G	F	D	Q	L	S	D	L	V	G	L	A	A	D	M	D	I	I	K	K	A	G	S	F	Y	S	305																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 1245 Cj1673c YP 002345041.1	YASVRLDVRKVAT....L.KQNEEP	I	G	N	R	V	K	V	K	V	V	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	V	M	F	G	E	G	L	S	R	E	G	E	L	I	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	F	S	292																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 1211 C694 RS00795 WP 000963128.1	YASVRIDIRRIAS....L.KQNEQH	I	G	N	R	A	K	A	K	V	V	K	N	K	V	A	P	P	F	R	E	A	E	F	D	I	M	F	G	E	G	I	S	K	E	G	E	I	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	L	S	294																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 1214 NCTC11637 00359 SQJ03206.1	YASVRIDIRRIAA....L.KQNEQH	I	G	N	R	A	K	A	K	V	V	K	N	K	V	A	P	P	F	R	E	A	E	F	D	I	M	F	G	E	G	I	S	K	E	G	E	I	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	L	S	294																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 1334 RAOC RS04870 WP 004918236.1	YASVRIDIRRLSDTGKIKDKSGEV	I	G	N	R	T	K	V	K	V	V	K	N	K	V	A	P	P	F	K	S	A	E	F	D	I	M	Y	G	E	G	V	S	K	V	G	E	I	L	D	V	A	T	D	L	D	I	I	Q	K	S	G	S	W	F	S	305																																																																																																																																																																																																																																																																																																																																																																																													
NTDB id 1389 A4U84 RS07560 WP 021112712.1	YASVRLDIRRCGV....V.KDGEI	I	G	S	E	T	K	V	K	V	V	K	N	K	V	A	P	P	F	R	E	V	Q	F	D	I	M	Y	G	E	G	I	S	R	M	N	E	L	L	I	A	E	A	N	G	F	I	K	K	S	G	A	W	F	S	308																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 1130 NGFG RS03960 WP 003688695.1	YSSVRLDIRRTGS....I.KKGEVL	G	N	E	T	R	V	K	V	I	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	Y	S	292																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 1124 NGFG RS03960 WP 003688695.1	YSSVRLDIRRTGS....I.KKGEVL	G	N	E	T	R	V	K	V	I	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	Y	S	292																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 1123 OK783 RS03845 WP 003688695.1	YSSVRLDIRRTGS....I.KKGEVL	G	N	E	T	R	V	K	V	I	K	N	K	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	Y	S	292																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 1427 RS RS02760 WP 011000510.1	YASVRLDIRRIGS....I.KKGEV	G	N	E	T	K	V	K	V	V	K	N	K	V	A	P	P	F	R	E	A	I	F	D	I	L	Y	G	A	G	V	S	R	E	G	E	I	D	L	G	V	E	A	K	V	V	E	K	S	G	A	W	Y	S	300																																																																																																																																																																																																																																																																																																																																																																																															
NTDB id 1165 A1552VC RS01565 WP 000344154.1	YASVRLDIRRTGA....I.KEGEEV	G	N	E	T	R	I	K	V	V	K	N	K	I	A	A	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	I	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	Y	S	291																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 1142 GTF74 RS11550 WP 000344154.1	YASVRLDIRRTGA....I.KEGEEV	G	N	E	T	R	I	K	V	V	K	N	K	I	A	A	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	I	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	Y	S	291																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 1205 PSJM300 05545 AFN77183.1	YASVRLDIRRTGA....V.KEGDEV	G	S	E	T	R	V	K	V	V	K	N	K	V	A	P	P	F	R	Q	A	E	F	Q	I	L	Y	G	K	G	I	Y	R	N	G	E	I	D	L	G	V	Q	Q	L	V	E	K	S	G	A	W	Y	A	291																																																																																																																																																																																																																																																																																																																																																																																																
NTDB id 1022 ACIAD RS06390 WP 004925639.1	YASVRLDIRRIGQ....V.KEGDEI	I	G	S	E	T	K	V	K	V	V	K	N	K	M	A	P	P	F	R	E	A	I	F	Q	I	L	Y	G	K	G	V	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	N	I	V	K	A	G	A	W	Y	S	291																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 1074 ABD1 RS10195 WP 000344167.1	YASVRLDIRRIGQ....V.KEGDEI	I	G	S	E	T	K	V	K	V	V	K	N	K	M	A	P	P	F	K	E	A	I	F	Q	I	L	Y	G	K	G	T	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	D	I	V	Q	K	A	G	A	W	Y	S	291																																																																																																																																																																																																																																																																																																																																																																																													
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NTDB id 74365 FVE78 RS08955 WP 146998974.1
NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
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 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 115 BSU 16940 NP 389576.2
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NTDB id 1427 RS RS02760 WP 011000510.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
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NTDB id 228 SPD RS09265 WP 001085462.1	IEIEE		388
NTDB id 194 SPR RS08825 WP 001085462.1	IEIEE		388
NTDB id 159 SP RS09750 WP 001085462.1	IEIEE		388
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NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIEE		384
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NTDB id 1313 DR RS12030 WP 010888966.1			363
NTDB id 1245 Cj1673c YP 002345041.1			343
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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
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NTDB id 1123 OK783 RS03845 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
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NTDB id 1022 ACIAD RS06390 WP 004925639.1			349
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consensus			

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