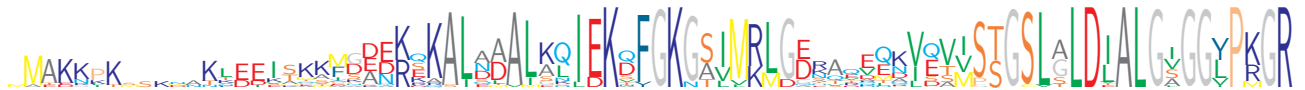


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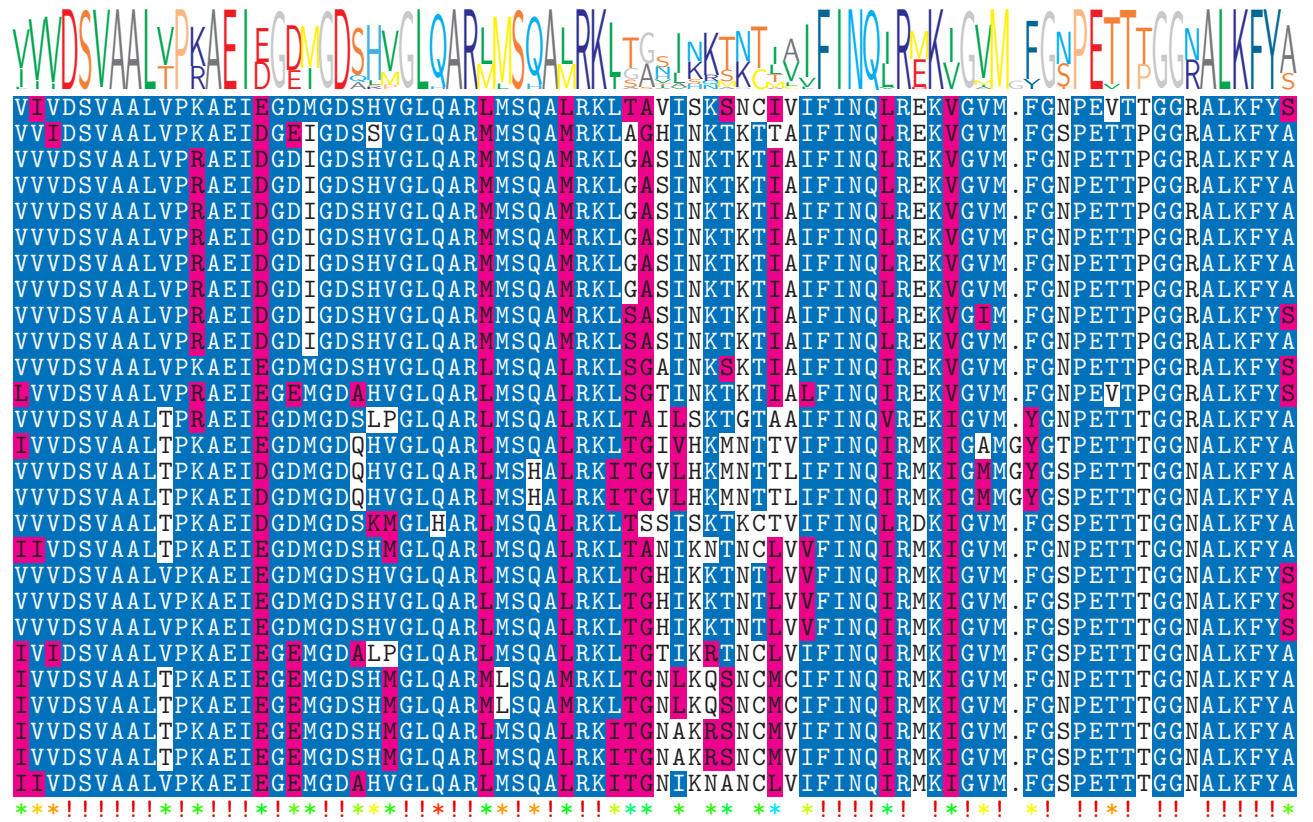


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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKT....NFDDITKKYGA ERD KALAD ALAL IE KD FG KGS LM R LGEAA.NQ KV SV VSS GS L ALD I AL GAGGY PKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKPK....KLEEISKK FGA ER E KALND ALKL IE KD FG KGS IM R LGERA.E QKV Q V M S SG S LALD I AL GSGGY PKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK....KLEEISKK FGA ER E KALND ALKL IE KD FG KGS IM R LGERA.E QKV Q V M S SG S LALD I AL GSGGY PKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKPK....KLEEISKK FGA ER E KALND ALKL IE KD FG KGS IM R LGERA.E QKV Q V M S SG S LALD I AL GSGGY PKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK....KLEEISKK FGA ER E KALND ALKL IE KD FG KGS IM R LGERA.E QKV Q V M S SG S LALD I AL GSGGY PKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKPK....KLDEISKK FGA ER E KALND ALKL IE KD FG KGS IM R LGERA.E QKV Q V M S SG S LALD I AL GSGGY PKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKPK....KLDEISKK FGA ER E KALND ALKL IE KD FG KGS IM R LGERA.E QKV Q V M S SG S LALD I AL GSGGY PKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRIK....KTEEITKK F DER R KALDD ALKN IE KD FG KGA V M R L GERA.E QKV Q V M S SG S LALD I AL GAGGY PKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKLK....KNEEITKK F DER R KALDD ALKN IE KD FG KGA V M R L GERA.E QKV Q V M S SG S LALD I AL GAGGY PKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMAL KQ IE KQ FG KGS IM K L G EKT.D TR I ST V PS GS L ALD T AL GIGGY PRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAAL KK IE KN FG KGS IM R M G E KV .D TQ V ST V S GS L ALD E AL G V GGY PRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDA KERS K A I E T AMS Q IE KA F FG KGS IM K L G AE.S KLD V QV V ST G S L S L D I AL G V GG I PRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRK SL DAAL KS L D K T FG KGT I L R L G DK .E VEQ I DS I GT G SV G L D L AL G I GGV PKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAID ED K Q K A I SL A IK Q ID K V FG KG AL V R L G DK .Q VEK I DA I ST G S L GLD I AL G I GG V PKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAID ED K Q K A I SL A IK Q ID K V FG KG AL V R L G DK .Q VEK I DS I ST G S L GLD I AL G I GG V PKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPN DD KK K ALAA V LE K L D K T Y G K T V M K L G D GT VD HN IEV I PS GS L GLD I AL G V GGY PKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQ VEP EQ KK Q A LEA AL AQ IE K Q FG KGS IM K L G QT.E QLD I ES V ST G S L GLD I AL G I GG L PMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1MSDDKSKALAA AL AQ IE KS F G KG A IM K M D G S Q Q EE N LE V I ST G S L GLD I AL G V G L PR GR	60
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NTDB id 1123 OK783 RS03845 WP 003688695.1MSDDKSKALAA AL AQ IE KS F G KG A IM K M D G S Q Q EE N LE V I ST G S L GLD I AL G V G L PR GR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAAS MSA E K Q K ALAA AL AQ IE K Q FG KGS IM K M G DA.E VEP V QV V ST G S L GLD V AL G V G L PRGR	68
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NTDB id 1142 GTF74 RS11550 WP 000344154.1MD EN K Q KALAA AL G Q IE K Q FG K S IM R L G DN.RAM D V ET I ST G S L S L D I AL G AG L PM GR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MD DN K S KALQA AL S Q IE K Q FG K N T V M R L G DN.T V Q A V E A V ST G S L T LD I AL G I GG L PKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MD EN K S KALQA AL S Q IE K Q FG K N T V M R L G DN.T V Q A V E A V ST G S L T LD I AL G I GG L PKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MD EN KK R ALAA AL G Q IE K Q FG K G A V M R M G D H .D R QA I PS I ST G S L GLD I AL G I GG L PK GR	59
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NTDB id 194 SPR_RS08825_WP_001085462.1
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NTDB id 1130 NGFG_RS03960_WP_003688695.1
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NTDB id 1022 ACIAD_RS06390_WP_004925639.1
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NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
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NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGTTQIKGTG.DQKDSISIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDIQKAGAWFSYN	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLEVRRAEQLKQGN...DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGSWYSYE	292
NTDB id 115 BSU 16940 NP 389576.2	TVRLEVRRAETIKNGT...DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGGISRTGELVDMAVEKDIINKSGSWYSYG	294
NTDB id 625 LCA RS02525 WP 011374196.1	SVRLDVRKIGQ...PTKVGNDAVANTVKIKTIVKNKVAAPFKVELALVYGGKGFQDLSDLVGLAADMIDIKKAGSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT...L.KQNEEPIGNRVKIKVVKNKVAPPFRQAEDVIMFGEGISREGELIDYGVKLDIVDKSGAWFSYK	294
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NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS...L.KQNEQHIGNRAKAKVVKNKVAPPFRQAEDVIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDDTGKIKDKSGEVIIGNRTKIKVVKNKVAPPFKSAEFDIMYGEGVSKVGEIILDVATDLDIQKSGSWFSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV...V.KDGDEIIGSETKVKVVKNKVAPPFRQAEFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEDVILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEDVILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS...I.KKGEEVLGNETRVKVIKNKVAPPFRQAEDVILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS...I.KKGDEVVGNETKIKVVKNKVAPPFRQAEDVILYAGVSRGEIIDLGVAKVVEKSGAWYSYN	302
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA...I.KEGEEVLGNETRIKVVKNKIAPPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA...I.KEGEEVLGNETRIKVVKNKIAPPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ...V.KEGDEIIGSETKVKVVKNKMAPPFRQAIFQILYGGKVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ...V.KEGDEIIGSETKVKVVKNKMAPPFKAEIFQILYGGKTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
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 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
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 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
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 NTDB id 1130 NGFG RS03960 WP 003688695.1
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 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1205 PSJM300 05545 AFN77183.1

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 DEKIGQGSENAkkYLAENPEIFDEIDHQVVRVQFGLIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDLGDELEIE 381
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 GEKIGQGSENAkkRYLADHPQLFDEIDRKVRVKFGLLEESESEESAMAVASE.....E.....TDDLALDLDNNGIEIE 377
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 DKKLGGGRENAKALLKEDKALADEITLKIKESIGSNEEI....MPLPDE..PLE..EME..... 347
 DTKLGGGRDRTVKELTKDNPELAELEAKIREKLQAK..... 343
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NTDB id 1071790 ACIRUQ RS03750 WP 021737886.1	...	365
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 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	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 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
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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
NTDB id 1123 OK783 RS03845 WP 003688695.1	...	348
NTDB id 1427 RS RS02760 WP 011000510.1	...	352
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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