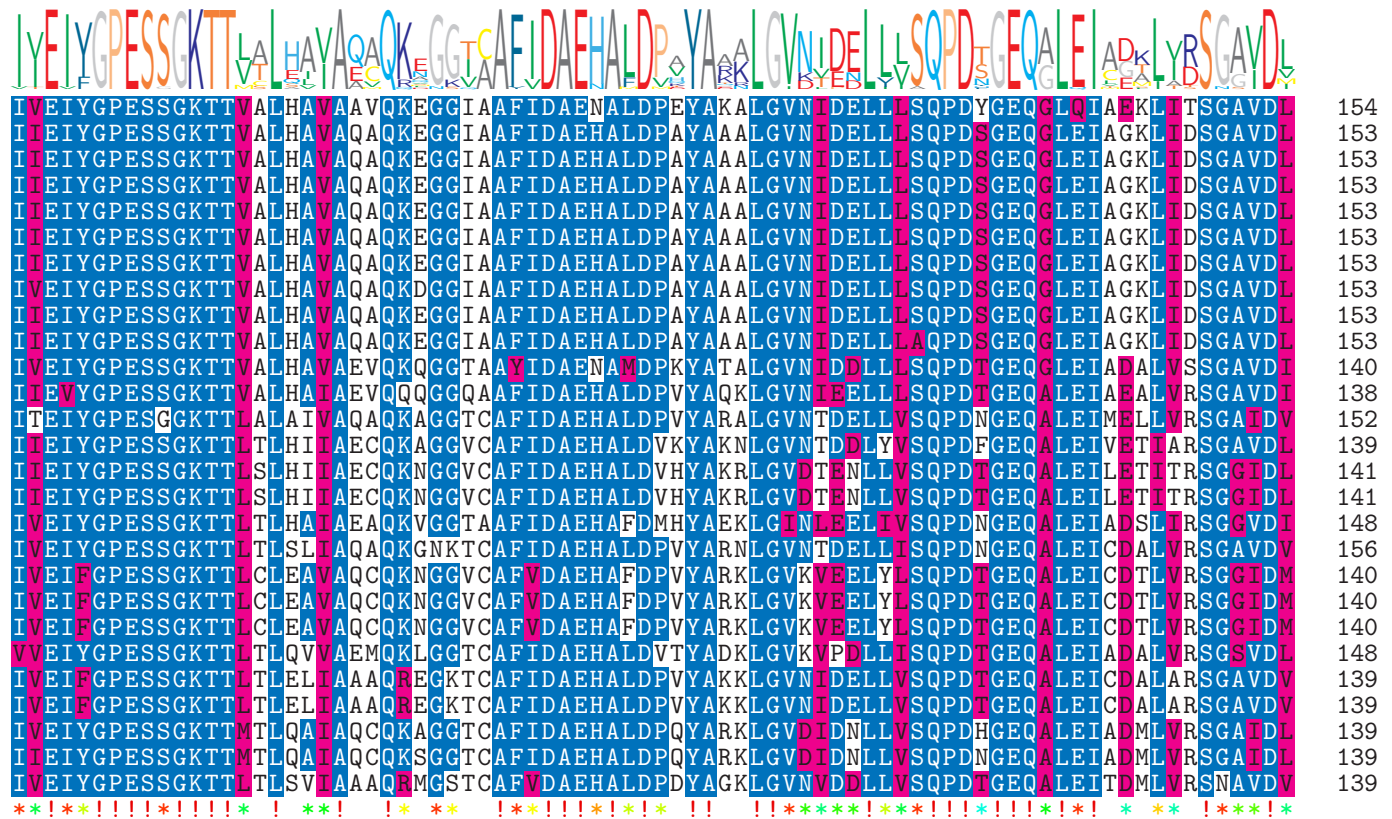


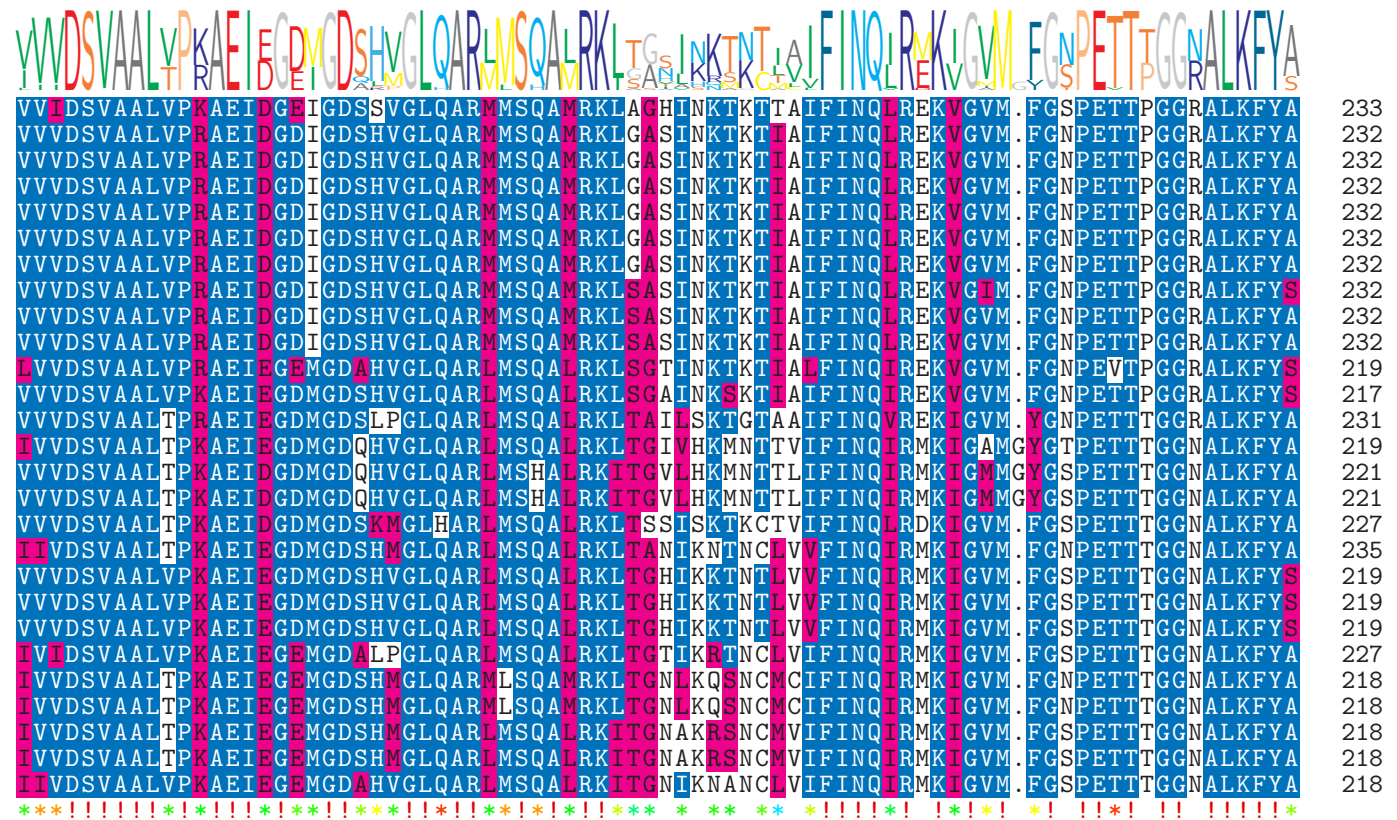
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NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALD	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALD	73
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NTDB id 163814 AUQ45 RS08870 WP 002992179.1	.MAKK.....LKKNEEITKKFGDERRKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALD	73
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NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGV	59
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLAIKQIDKVFVGKGA LVRLGDK.QVEKIDSISTGSLGLDLALGIGGV	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLAIKQIDKVFVGKGA LVRLGDK.QVEKIDAISTGSLGLDLALGIGGV	61
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGL	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDI	59
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consensus	*** **	

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NTDB id 159 SP RS09750 WP 001085462.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
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NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 625 LCA RS02525 WP 011374196.1
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NTDB id 1389 A4U84 RS07560 WP 021112712.1
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consensus



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consensus	*!!**!* *	* ** *****!!*!!*!!*!!* * *****!!*!!** * ** *!!*!!**	

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NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 163814 AUQ45 RS08870 WP 002992179.1
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

Sequence	Score
DEKIGGGA ⁺ E ⁺ KA ⁺ KN ⁺ YL ⁺ KE ⁺ HQ ⁺ DV ⁺ FDEI ⁺ DHK ⁺ V ⁺ RAAH ⁺ CL ⁺ LD ⁺ DS ⁺ EV ⁺ AE ⁺ TE ⁺ ET ⁺ TA ⁺ SK ⁺ TK ⁺ AK ⁺ AK ⁺ KE ⁺ EA ⁺ VE ⁺ TE ⁺ EE ⁺ IE ⁺ LE ⁺ ED ⁺	387
DEKIGGGS ⁺ EN ⁺ AK ⁺ KY ⁺ LA ⁺ EH ⁺ PE ⁺ IF ⁺ DEI ⁺ DK ⁺ Q ⁺ VS ⁺ SK ⁺ FL ⁺ ID ⁺ GE ⁺ EV ⁺ SEQD ⁺ TEN ⁺ KK ⁺ DE ⁺PK ⁺ KEEA ⁺ ..VNE ⁺ EV ⁺ PLD ⁺ LG ⁺ DE ⁺ LE ⁺ IE ⁺	385
DEKIGGGS ⁺ EN ⁺ AK ⁺ KY ⁺ LA ⁺ EH ⁺ PE ⁺ IF ⁺ DEI ⁺ DK ⁺ Q ⁺ VS ⁺ SK ⁺ FL ⁺ ID ⁺ GE ⁺ EV ⁺ SEQD ⁺ TEN ⁺ KK ⁺ DE ⁺PK ⁺ KEEA ⁺ ..VNE ⁺ EV ⁺ PLD ⁺ LG ⁺ DE ⁺ LE ⁺ IE ⁺	385
DEKIGGGS ⁺ EN ⁺ AK ⁺ KY ⁺ LA ⁺ EH ⁺ PE ⁺ IF ⁺ DEI ⁺ DK ⁺ Q ⁺ VS ⁺ SK ⁺ FL ⁺ ID ⁺ GE ⁺ EV ⁺ SEQD ⁺ TEN ⁺ KK ⁺ DE ⁺PK ⁺ KEEA ⁺ ..VNE ⁺ EV ⁺ PLD ⁺ LG ⁺ DE ⁺ LE ⁺ IE ⁺	385
DEKIGGGS ⁺ EN ⁺ AK ⁺ KY ⁺ LA ⁺ EH ⁺ PE ⁺ IF ⁺ DEI ⁺ DH ⁺ Q ⁺ VR ⁺ VQ ⁺ FL ⁺ ID ⁺ GE ⁺ EE ⁺ IA ⁺ ES ⁺KK ⁺ DE ⁺AA ⁺ QV ⁺ DS ⁺ ..VNE ⁺ EV ⁺ TLD ⁺ LG ⁺ DE ⁺ LE ⁺ IE ⁺	381
DEKIGGGS ⁺ EN ⁺ AK ⁺ KY ⁺ LAD ⁺ NPE ⁺ IF ⁺ FAE ⁺ ID ⁺ HQ ⁺ VR ⁺ VQ ⁺ FL ⁺ ID ⁺ GE ⁺ EA ⁺ ES ⁺KK ⁺ DE ⁺VA ⁺ QV ⁺ DS ⁺ ..VNE ⁺ EV ⁺ TLD ⁺ LG ⁺ DE ⁺ LE ⁺ IE ⁺	381
GEKIGGGS ⁺ EN ⁺ AK ⁺ KFL ⁺ AD ⁺ NPE ⁺ IF ⁺ DDI ⁺ DHK ⁺ VR ⁺ VQ ⁺ FL ⁺ IE ⁺ ED ⁺ NT ⁺ EEK ⁺ Q ⁺ SS ⁺ KE ⁺ K.....ET ⁺ DE ⁺ ..AD ⁺ KN ⁺ LV ⁺ LE ⁺ LD ⁺ DT ⁺ IE ⁺ LE ⁺	382
GEKIGGGS ⁺ EN ⁺ AK ⁺ KRY ⁺ LAD ⁺ HP ⁺ QL ⁺ FD ⁺ EID ⁺ RK ⁺ VR ⁺ VK ⁺ FL ⁺ LE ⁺ EE ⁺ SE ⁺ EE ⁺ SAM ⁺ AV ⁺ ASE ⁺E ⁺TDD ⁺ LAL ⁺ DL ⁺ DN ⁺ GI ⁺ IE ⁺ LE ⁺	377
GEKIGGGS ⁺ EN ⁺ AK ⁺ KRY ⁺ LAD ⁺ HP ⁺ QL ⁺ FD ⁺ EID ⁺ RK ⁺ VR ⁺ VK ⁺ FL ⁺ LE ⁺ EE ⁺ SE ⁺ EE ⁺ SAM ⁺ AV ⁺ ASE ⁺E ⁺TDD ⁺ LAL ⁺ DL ⁺ DN ⁺ GI ⁺ IE ⁺ LE ⁺	377
SERIGGG ⁺ REN ⁺ AK ⁺ KN ⁺ YL ⁺ AD ⁺ HD ⁺ VE ⁺ DEV ⁺ RL ⁺ KV ⁺ RAAY ⁺ GIS ⁺ DS ⁺ V ⁺ PEED ⁺ LP ⁺ TT ⁺ ED ⁺ E.QI ⁺ .NIL ⁺ PDD ⁺ ST ⁺EE ⁺	355
EE ⁺ RL ⁺ GG ⁺ REN ⁺ AK ⁺ QFL ⁺ KN ⁺ KD ⁺ I ⁺ ML ⁺ I ⁺ Q ⁺ VR ⁺ REHY ⁺ GL ⁺ DN ⁺ GV ⁺ VV ⁺ QQ ⁺ AA ⁺ ET ⁺ QE ⁺ EL ⁺ .EFE ⁺ .E ⁺	348
DERIGGG ⁺ E ⁺ KTI ⁺ AY ⁺ IA ⁺ ER ⁺ PE ⁺ ME ⁺ QE ⁺ EIR ⁺ DRV ⁺ MAA ⁺ IRAG ⁺ NAGE ⁺ APAL ⁺ APAP ⁺ AA ⁺ PEAA ⁺ ..A ⁺	363
DKK ⁺ LG ⁺ GG ⁺ REN ⁺ SK ⁺ AFL ⁺ KEN ⁺ PEI ⁺ ADE ⁺ IT ⁺ KAI ⁺ QNSM ⁺ CT ⁺ EG ⁺ MI ⁺SG ⁺ SEDD ⁺ ..EGE ⁺ ..E ⁺	343
DKK ⁺ LG ⁺ GG ⁺ REN ⁺ AK ⁺ ALL ⁺ KED ⁺ KAL ⁺ ADE ⁺ IT ⁺ LK ⁺ IK ⁺ ES ⁺ IG ⁺ SNEE ⁺ I....MPL ⁺ PDE ⁺ ..PLE ⁺ ..EME ⁺	347
DKK ⁺ LG ⁺ GG ⁺ REN ⁺ AK ⁺ ALL ⁺ KED ⁺ KAL ⁺ ADE ⁺ IT ⁺ LK ⁺ IK ⁺ ES ⁺ IG ⁺ SNEE ⁺ I....MPL ⁺ PDE ⁺ ..PLE ⁺ ..EME ⁺	347
DTKL ⁺ GG ⁺ GRD ⁺ TV ⁺ KE ⁺ L ⁺ IK ⁺ DN ⁺ PE ⁺ LAE ⁺ LE ⁺ AK ⁺ IREKL ⁺ QAK ⁺	343
GTKIGGG ⁺ KNN ⁺ AV ⁺ KWL ⁺ KEN ⁺ PEI ⁺ AD ⁺ KL ⁺ E ⁺ QE ⁺ IR ⁺ NT ⁺ LASN ⁺ PNS ⁺VL ⁺ KAT ⁺ AS ⁺ DS ⁺ ND ⁺ ..ESD ⁺ V ⁺ EEF ⁺ SE ⁺ EE ⁺ LE ⁺	372
GAKIGGG ⁺ KDN ⁺ V ⁺ RV ⁺ WL ⁺ KEN ⁺ PEI ⁺ SDE ⁺ IDA ⁺ KIR ⁺ AL ⁺ NC ⁺ VEM ⁺ HI ⁺TEG ⁺ TQ ⁺ DET ⁺ DGE ⁺ ..R ⁺PEE ⁺	348
GAKIGGG ⁺ KDN ⁺ V ⁺ RV ⁺ WL ⁺ KEN ⁺ PEI ⁺ SDE ⁺ IDA ⁺ KIR ⁺ AL ⁺ NC ⁺ VEM ⁺ HI ⁺TEG ⁺ TQ ⁺ DET ⁺ DGE ⁺ ..R ⁺PEE ⁺	348
GAKIGGG ⁺ KDN ⁺ V ⁺ RV ⁺ WL ⁺ KEN ⁺ PEI ⁺ SDE ⁺ IDA ⁺ KIR ⁺ AL ⁺ NC ⁺ VEM ⁺ HI ⁺TEG ⁺ TQ ⁺ DET ⁺ DGE ⁺ ..R ⁺PEE ⁺	348
GE ⁺ RIGGG ⁺ GRD ⁺ NC ⁺ REF ⁺ LREN<	

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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 163814 AUQ45 RS08870 WP 002992179.1	D..	378
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
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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
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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