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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
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NTDB id 159 SP RS09750 WP 001085462.1
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NTDB id 453 Spy49 1753c ACI62003.1
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NTDB id 295004 CSB76 RS06875 WP 000368166.1
NTDB id 115 BSU 16940 NP 389576.2
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 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
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NTDB id 1427 RS RS02760 WP 011000510.1
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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



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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKEAVALVDIMFGEGISSTGELINIAVEEGITIKKS	GAWFAYN	312							
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NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEP	IGNRVKVVKNKVAPPFRQAEFDVMFGEGLS	REGELIDYGV	KLDI	VDKSGAWFSYK 294					
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NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EV	LGNETRVKVIKNKVAPPFRQAEFD	DILYGE	GISWEGELID	IGVKN	DIINKSGAWYSYN 294			
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EV	LGNETRVKVIKNKVAPPFRQAEFD	DILYGE	GISWEGELID	IGVKN	DIINKSGAWYSYN 294			
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EV	LGNETRVKVIKNKVAPPFRQAEFD	DILYGE	GISWEGELID	IGVKN	DIINKSGAWYSYN 294			
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGE	DEV	VGNETKVVKNKVAPPFR	EA	IFDILYGA	GV	SREGEIT	DLGV	EAKVVEKSGAWYSYN 302	
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEE	V	GNETRIKVVKNKIAAPFKE	ANTQIMYG	QGFN	REGELID	LG	VKHKMVEKSGAWYSYN 293		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEI	IGSETKVVKNKMAPPFR	EA	IFQILY	GKGVNQLGELVD	LAVQQ	NIVQ	KAGAWYSYQ 293		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEI	VGSETKVVKNKMAPPFKE	AI	IFQILY	GKGTNQLGELVD	LAVQQ	DIVQ	KAGAWYSYQ 293		
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consensus	*!!**!*~	~	**	*****!*****!!*!!*!!*~	*	*****!~!*****	*****	~	***	!~!*****!

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Sequence	Score
DEKIGQGA ⁺ EA ⁺ KA ⁺ KN ⁺ YL ⁺ KE ⁺ NPE ⁺ IF ⁺ DE ⁺ ID ⁺ HK ⁺ VR ⁺ AAH ⁺ CL ⁺ LD ⁺ DS ⁺ EV ⁺ AE ⁺ TE ⁺ ET ⁺ TA ⁺ SK ⁺ TK ⁺ AK ⁺ AK ⁺ KE ⁺ EA ⁺ VE ⁺ TE ⁺ EE ⁺ IE ⁺ LE ⁺ ED ⁺	387
DEKIGQGS ⁺ EN ⁺ AK ⁺ KYL ⁺ AE ⁺ HP ⁺ EIF ⁺ DE ⁺ ID ⁺ KQ ⁺ VR ⁺ SK ⁺ FL ⁺ ID ⁺ GEE ⁺ VSE ⁺ QD ⁺ TEN ⁺ KK ⁺ DE ⁺PK ⁺ KEEA ⁺ ..VNEE ⁺ VPLD ⁺ LG ⁺ DE ⁺ LE ⁺ IE ⁺	385
DEKIGQGS ⁺ EN ⁺ AK ⁺ KYL ⁺ AE ⁺ HP ⁺ EIF ⁺ DE ⁺ ID ⁺ KQ ⁺ VR ⁺ SK ⁺ FL ⁺ ID ⁺ GEE ⁺ VSE ⁺ QD ⁺ TEN ⁺ KK ⁺ DE ⁺PK ⁺ KEEA ⁺ ..VNEE ⁺ VPLD ⁺ LG ⁺ DE ⁺ LE ⁺ IE ⁺	385
DEKIGQGS ⁺ EN ⁺ AK ⁺ KYL ⁺ AE ⁺ HP ⁺ EIF ⁺ DE ⁺ ID ⁺ KQ ⁺ VR ⁺ SK ⁺ FL ⁺ ID ⁺ GEE ⁺ VSE ⁺ QD ⁺ TEN ⁺ KK ⁺ DE ⁺PK ⁺ KEEA ⁺ ..VNEE ⁺ VPLD ⁺ LG ⁺ DE ⁺ LE ⁺ IE ⁺	385
DEKIGQGS ⁺ EN ⁺ AK ⁺ KYL ⁺ AD ⁺ NPE ⁺ IF ⁺ DE ⁺ ID ⁺ HQ ⁺ VR ⁺ VQ ⁺ FL ⁺ ID ⁺ GEE ⁺ IA ⁺ ES ⁺KK ⁺ DE ⁺AA ⁺ QV ⁺ DS ⁺ ..VNEE ⁺ VTL ⁺ D ⁺ LG ⁺ DE ⁺ LE ⁺ IE ⁺	381
DEKIGQGS ⁺ EN ⁺ AK ⁺ KYL ⁺ AD ⁺ NPE ⁺ IF ⁺ DE ⁺ ID ⁺ HQ ⁺ VR ⁺ VQ ⁺ FL ⁺ ID ⁺ GEE ⁺ AA ⁺ ES ⁺KK ⁺ DE ⁺VA ⁺ QV ⁺ DS ⁺ ..VNEE ⁺ VTL ⁺ D ⁺ LG ⁺ DE ⁺ LE ⁺ IE ⁺	381
GEKIGQGS ⁺ EN ⁺ AK ⁺ RYL ⁺ AD ⁺ HP ⁺ QL ⁺ IF ⁺ DE ⁺ ID ⁺ DK ⁺ VR ⁺ VK ⁺ FL ⁺ LEE ⁺ SE ⁺ ES ⁺ AM ⁺ AV ⁺ ASE ⁺E ⁺TDD ⁺ LAL ⁺ D ⁺ LD ⁺ NG ⁺ IE ⁺ IE ⁺	377
GEKIGQGS ⁺ EN ⁺ AK ⁺ FL ⁺ AD ⁺ NPE ⁺ IF ⁺ DD ⁺ ID ⁺ HK ⁺ VR ⁺ VQ ⁺ YCL ⁺ IE ⁺ ED ⁺ NT ⁺ EEK ⁺ Q ⁺ SS ⁺ SKE ⁺ET ⁺ DE ⁺ ..AD ⁺ KN ⁺ LV ⁺ LE ⁺ LD ⁺ DT ⁺ IE ⁺ LE ⁺	382
SERIGQGS ⁺ REN ⁺ AK ⁺ NYL ⁺ AD ⁺ HE ⁺ DVE ⁺ DEV ⁺ RL ⁺ KV ⁺ RA ⁺ AY ⁺ CL ⁺ IS ⁺ DV ⁺ PE ⁺ ED ⁺ LPT ⁺ TE ⁺ DE ⁺ QI ⁺ NIL ⁺ PDD ⁺ STEE ⁺	355
GERMGQGS ⁺ KEN ⁺ VKM ⁺ YL ⁺ KEN ⁺ PQ ⁺ IK ⁺ EE ⁺ ID ⁺ KL ⁺ RE ⁺ KL ⁺ CL ⁺ IS ⁺ DG ⁺ DVE ⁺ ET ⁺ EDA ⁺ ...PK ⁺ SL ⁺ FDEE ⁺	347
EERLGGQREN ⁺ AK ⁺ QFL ⁺ KEN ⁺ KD ⁺ IM ⁺ LI ⁺ MQ ⁺ IR ⁺ EH ⁺ YCL ⁺ DN ⁺ GV ⁺ VQ ⁺ QQA ⁺ EE ⁺ TQ ⁺ EE ⁺ LE ⁺ FEE ⁺	348
DERIGQGKE ⁺ KT ⁺ IA ⁺ YI ⁺ AER ⁺ PE ⁺ ME ⁺ QE ⁺ IR ⁺ DR ⁺ MA ⁺ AI ⁺ RAG ⁺ NAGE ⁺ AP ⁺ AL ⁺ AP ⁺ AP ⁺ AA ⁺ PE ⁺ AA ⁺ EA ⁺	363
DKKLGGQREN ⁺ SK ⁺ AF ⁺ LKEN ⁺ PE ⁺ IA ⁺ DE ⁺ IT ⁺ KAI ⁺ QNS ⁺ MC ⁺ TE ⁺ GMI ⁺SG ⁺ SE ⁺ DD ⁺ ..EG ⁺ EE ⁺	343
DKKLGGQREN ⁺ AK ⁺ ALL ⁺ KE ⁺ D ⁺ KAL ⁺ ADE ⁺ IT ⁺ LK ⁺ IK ⁺ ES ⁺ IG ⁺ SNEE ⁺ I....MPL ⁺ PDE ⁺ ..PLEE ⁺ ME ⁺	347
DKKLGGQREN ⁺ AK ⁺ ALL ⁺ KE ⁺ D ⁺ KAL ⁺ ADE ⁺ IT ⁺ LK ⁺ IK ⁺ ES ⁺ IG ⁺ SNEE ⁺ I....MPL ⁺ PDE ⁺ ..PLEE ⁺ ME ⁺	347
DTKLGGQRD ⁺ TV ⁺ KE ⁺ L ⁺ IK ⁺ DN ⁺ PE ⁺ LA ⁺ EEL ⁺ AK ⁺ IR ⁺ EKL ⁺ QAK ⁺	343
GTKIGQGN ⁺ NAV ⁺ KWL ⁺ KEN ⁺ PE ⁺ IA ⁺ DK ⁺ LE ⁺ QE ⁺ IR ⁺ NT ⁺ LA ⁺ SN ⁺ PNS ⁺VL ⁺ KAT ⁺ AS ⁺ DS ⁺ NDE ⁺ SD ⁺ ..VEE ⁺ FSE ⁺ EE ⁺ EL ⁺	372
GAKIGQGKD ⁺ NVR ⁺ VWL ⁺ KEN ⁺ PE ⁺ IS ⁺ DE ⁺ IDA ⁺ KI ⁺ RAL ⁺ NG ⁺ VEM ⁺ HI ⁺TEG ⁺ TQ ⁺ DET ⁺ DGER ⁺PEE ⁺	348
GAKIGQGKD ⁺ NVR ⁺ VWL ⁺ KEN ⁺ PE ⁺ IS ⁺ DE ⁺ IDA ⁺ KI ⁺ RAL ⁺ NG ⁺ VEM ⁺ HI ⁺TEG ⁺ TQ ⁺ DET ⁺ DGER ⁺PEE ⁺	348
GAKIGQGKD ⁺ NVR ⁺ VWL ⁺ KEN ⁺ PE ⁺ IS ⁺ DE ⁺ IDA ⁺ KI ⁺ RAL ⁺ NG ⁺ VEM ⁺ HI ⁺TEG ⁺ TQ ⁺ DET ⁺ DGER ⁺PEE ⁺	348
GERIGQRD ⁺ NC ⁺ REF ⁺ LREN ⁺ AE ⁺ LARE ⁺ IE ⁺ KN ⁺ VR ⁺ EH ⁺ LC ⁺ VT ⁺ PMG ⁺AV ⁺ TLA ⁺ ..EE ⁺ VEE ⁺ D ⁺	352
GDKIGQGKAN ⁺ ACK ⁺ YL ⁺ KEN ⁺ PE ⁺ IA ⁺ AK ⁺ TL ⁺ DK ⁺ KL ⁺ RE<	

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NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
consensus			

-  non conserved
-  similar
-  ≥ 50% conserved