

logo

	MRLCPRFSLDLLVKVKKLVNFVTLGFSCLSPTHAWRSPQSFTESNTLIMFRFYRKQKFKRLQNTLMAAFLALSIIPLTIT	
NTDB id 1143 A1552VC RS01965 WP 001883436.1	MRLCPRFSLDLLVKVKKLVNFVTLGFSCLSPTHAWRSPQSFTESNTLIMFRFYRKQKFKRLQNTLMAAFLALSIIPLTIT	80
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 218975 B1781 RS18940 WP 078121155.1	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	0
consensus		

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	ALFFLHSHSKDLEQQSTSYLVSVRDNKQQQVIDYMMAKESEVMGFVRSELAYASGGRFYGLVNAFQRLDVSIEAAREHAQ	
NTDB id 1143 A1552VC RS01965 WP 001883436.1	ALFFLHSHSKDLEQQSTSYLVSVRDNKQQQVIDYMMAKESEVMGFVRSELAYASGGRFYGLVNAFQRLDVSIEAAREHAQ	160
NTDB id 374 SMU RS06885 WP 002262930.1	0
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NTDB id 218975 B1781 RS18940 WP 078121155.1	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	0
consensus		

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	QRYITGSGDQIKTSVLPQSSSYVGSERYRLLHKRYHWAYLELLKRSDFDDILLVDIDGNVVYSIYKYDNFGTNLLTGKYQ	
NTDB id 1143 A1552VC RS01965 WP 001883436.1	QRYITGSGDQIKTSVLPQSSSYVGSERYRLLHKRYHWAYLELLKRSDFDDILLVDIDGNVVYSIYKYDNFGTNLLTGKYQ	240
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 218975 B1781 RS18940 WP 078121155.1	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	0
consensus		

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	DTNLGHTFKRLEQTVNEQRKTNEFTPVVISDFVQEDGKQYAWLGAPIIQGGYLHSYAMFRLPSNAITKLI AEGSSNPSM	
NTDB id 1143 A1552VC RS01965 WP 001883436.1	DTNLGHTFKRLEQTVNEQRKTNEFTPVVISDFVQEDGKQYAWLGAPIIQGGYLHSYAMFRLPSNAITKLI AEGSSNPSM	320
NTDB id 374 SMU RS06885 WP 002262930.1	0
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NTDB id 218975 B1781 RS18940 WP 078121155.1	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	0
consensus		

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	QTILVGCQDHRSRRLTSAEIAVEKSKAVVDLALSGKRAVGTYTNTDGEQIIAAYAPINLKNIH WALVVELPEKEAFARVRQ	
NTDB id 1143 A1552VC RS01965 WP 001883436.1	QTILVGCQDHRSRRLTSAEIAVEKSKAVVDLALSGKRAVGTYTNTDGEQIIAAYAPINLKNIH WALVVELPEKEAFARVRQ	400
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 218975 B1781 RS18940 WP 078121155.1	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	0
consensus		

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NTDB id 1143 A1552VC RS01965 WP 001883436.1	LEKLFVFA ^M LT ^A IVL ^V VI ^A SH ^Y LS ^N FI ^T S ^P LL ^K L ^T W ^A A ^E RV ^S AG ^D L ^D EAM ^I IN ^T ER ^K DE ^I GR ^L AV ^S F ^E RM ^Q RS ^I RE ^K I ^S L ^I	480
NTDB id 374 SMU RS06885 WP 002262930.1	LEKLFVFA ^M LT ^A IVL ^V V ^V IA ^S H ^Y LS ^N FI ^T S ^P LL ^K L ^T W ^A A ^E RV ^S AG ^D L ^D EAM ^I IN ^T ER ^K DE ^I GR ^L AV ^S F ^E RM ^Q RS ^I RE ^K IS ^L I	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 218975 B1781 RS18940 WP 078121155.1	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	0
consensus		

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NTDB id 1143 A1552VC RS01965 WP 001883436.1	K ^S Q ^N K ^E L ^E S ^N L ^L I ^I R ^K Q ^N D ^E L ^Q L ^A N ^K L ^K D ^E F ^L A ^T T ^S H ^E L ^R T ^P L ^H G ^M I ^G I ^A E ^A L ^I S ^G A ^N G ^P I ^S A ^A H ^K Y ^Q L ^D I ^I I ^S S ^G Q ^R L ^A	560
NTDB id 374 SMU RS06885 WP 002262930.1	K ^S Q ^N K ^E L ^E S ^N L ^L I ^I R ^K Q ^N D ^E L ^Q L ^A N ^K L ^K D ^E F ^L A ^T T ^S H ^E L ^R T ^P L ^H G ^M I ^G I ^A E ^A L ^I S ^G A ^N G ^P I ^S A ^A H ^K Y ^Q L ^D I ^I I ^S S ^G Q ^R L ^A	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 218975 B1781 RS18940 WP 078121155.1	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	0
consensus		

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NTDB id 1143 A1552VC RS01965 WP 001883436.1	T ^L V ^D D ^L L ^D Y ^H K ^M R ^Y G ^A L ^D I ^Q R ^C A ^V D ^L S ^S A ^T R ^L V ^L E ^L S ^H H ^L L ^G K ^K T ^L R ^I I ^N Q ^V S ^E Q ^P V ^W S ^A D ^P Q ^R L ^E Q ^V L ^Y N ^L I ^G N ^A I ^K Y	640
NTDB id 374 SMU RS06885 WP 002262930.1	T ^L V ^D D ^L L ^D Y ^H K ^M R ^Y G ^A L ^D I ^Q R ^C A ^V D ^L S ^S A ^T R ^L V ^L E ^L S ^H H ^L L ^G K ^K T ^L R ^I I ^N Q ^V S ^E Q ^P V ^W S ^A D ^P Q ^R L ^E Q ^V L ^Y N ^L I ^G N ^A I ^K Y	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 218975 B1781 RS18940 WP 078121155.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus		

logo

NTDB id 1143 A1552VC RS01965 WP 001883436.1	T ^S E ^G K ^I V ^I S ^A T ^Y I ^D D ^K V ^R V ^Q V ^D T ^G Q ^G I ^P A ^E Q ^L E ^H I ^F E ^P L ^I Q ^A G ^H D ^A S ^R Y ^R Q ^G A ^G L ^G L ^S I ^S R ^Q L ^I E ^L M ^H G ^T L ^Y V ^S S ^Q P ^M V	720
NTDB id 374 SMU RS06885 WP 002262930.1	T ^S E ^G K ^I V ^I S ^A T ^Y I ^D D ^K V ^R V ^Q V ^D T ^G Q ^G I ^P A ^E Q ^L E ^H I ^F E ^P L ^I Q ^A G ^H D ^A S ^R Y ^R Q ^G A ^G L ^G L ^S I ^S R ^Q L ^I E ^L M ^H G ^T L ^Y V ^S S ^Q P ^M V	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 218975 B1781 RS18940 WP 078121155.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus		

logo

NTDB id 1143 A1552VC RS01965 WP 001883436.1	G ^T T ^F S ^F T ^L P ^L A ^S E ^E E ^I A ^Q A ^R L ^T E ^L P ^H F ^Q A ^P E ^V L ^D S ^E L ^P E ^Q S ^N L ^P E ^N E ^H G ^P L ^L V ^A D ^D E ^P V ^N L ^R V ^L D ^S F ^L R ^L E ^G Y ^R V ^H T ^A Q	800
NTDB id 374 SMU RS06885 WP 002262930.1	.....M ^K K ^I L ^I V ^D D ^E K ^P I ^S D ^I I ^K F ^N L ^A K ^E G ^Y D ^T I ^T A ^F	32
NTDB id 1417 SGL RS04200 WP 014407071.1	.....M ^N A ^V L ^L V ^E D ^S S ^S Q ^R E ^M I ^S G ^I L ^K D ^H G ^W Q ^V T ^I A ^C	32
NTDB id 218975 B1781 RS18940 WP 078121155.1	.....M ^D I ^N G ^L K ^V M ^V I ^D D ^S K ^T I ^R R ^T A ^E T ^L L ^K K ^A G ^C E ^V L ^T A ^T	36
NTDB id 1047 HON27 RS03110 WP 000389061.1M ^E D ^A F ^Q N ^L K ^V M ^V I ^D D ^S K ^T I ^R R ^T A ^E T ^L L ^Q R ^E G ^C E ^V I ^T A ^V	38
consensus*****!*****!*****!*****!*****!	

logo

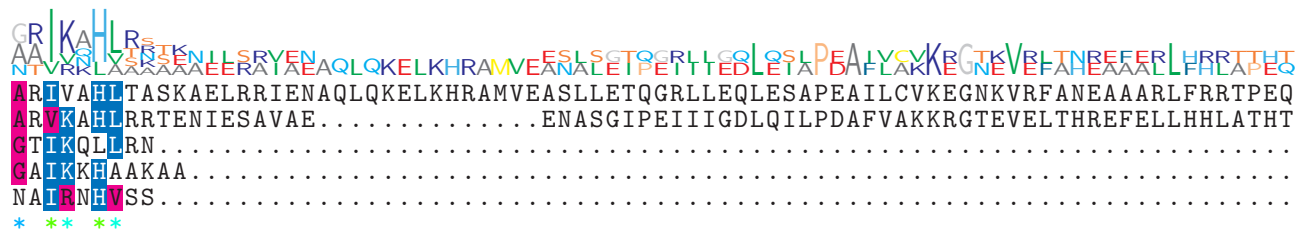
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 NTDB id 1417 SGL RS04200 WP 014407071.1
 NTDB id 218975 B1781 RS18940 WP 078121155.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 consensus



880
109
112
116
118

logo

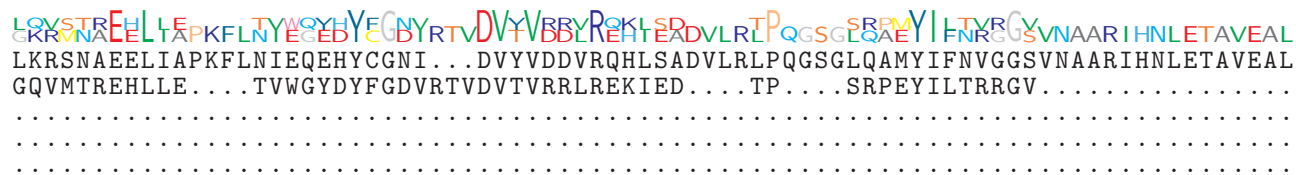
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 NTDB id 1047 HON27 RS03110 WP 000389061.1
 consensus



960
175
121
127
127

logo

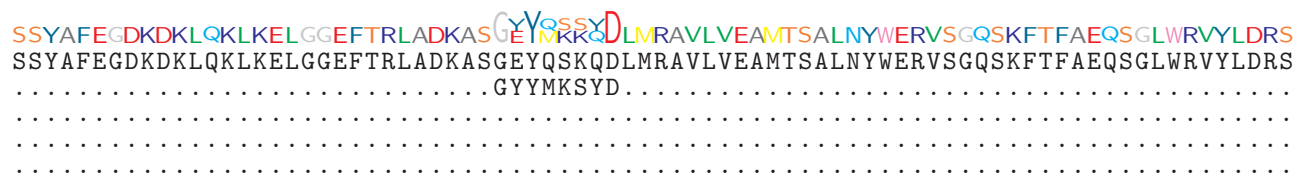
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 NTDB id 1417 SGL RS04200 WP 014407071.1
 NTDB id 218975 B1781 RS18940 WP 078121155.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 consensus



1037
227
121
127
127

logo

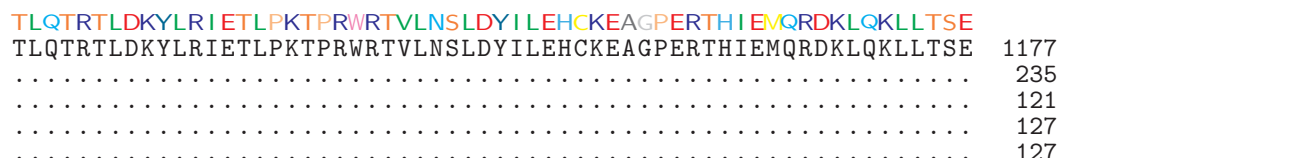
NTDB id 1143 A1552VC RS01965 WP 001883436.1
 NTDB id 374 SMU RS06885 WP 002262930.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 NTDB id 218975 B1781 RS18940 WP 078121155.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 consensus



1117
235
121
127
127

logo

NTDB id 1143 A1552VC RS01965 WP 001883436.1
 NTDB id 374 SMU RS06885 WP 002262930.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 NTDB id 218975 B1781 RS18940 WP 078121155.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 consensus



1177
235
121
127
127

 non conserved
 similar
 $\geq 50\%$ conserved