

logo

	MRLCPRFSLDLLVKVKKLVNFVTLGFSCLSPTHAWRSPQSFTESNTLIMFRFYRKQKFKRLQNTLMAAFLALSIIPLTIT	
NTDB id 1143 A1552VC RS01965 WP 001883436.1	MRLCPRFSLDLLVKVKKLVNFVTLGFSCLSPTHAWRSPQSFTESNTLIMFRFYRKQKFKRLQNTLMAAFLALSIIPLTIT	80
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 252795 KSH RS01270 WP 050324978.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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	ALFFLHSHSKDLEQQSTSYLVSVRDNKQQQVIDYMMAKESEVMGFVRSELAYASGGRFYGLVNAFQRLDVSIEAAREHAQ	
NTDB id 1143 A1552VC RS01965 WP 001883436.1	ALFFLHSHSKDLEQQSTSYLVSVRDNKQQQVIDYMMAKESEVMGFVRSELAYASGGRFYGLVNAFQRLDVSIEAAREHAQ	160
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NTDB id 1047 HON27 RS03110 WP 000389061.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	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 252795 KSH RS01270 WP 050324978.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	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 1047 HON27 RS03110 WP 000389061.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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	QTILVQCQDHRSRRLTSAEIAVEKSKAVVDLALSGKRAVGTYTNTDGEQIIAAYAPINLKNIH WALVVELPEKEAFARVRQ	
NTDB id 1143 A1552VC RS01965 WP 001883436.1	QTILVQCQDHRSRRLTSAEIAVEKSKAVVDLALSGKRAVGTYTNTDGEQIIAAYAPINLKNIH WALVVELPEKEAFARVRQ	400
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 252795 KSH RS01270 WP 050324978.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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NTDB id 1143 A1552VC RS01965 WP 001883436.1	LEKLFVFA ^M LT ^A IVLV ^V IA ^S HYL ^S NF ^I TS ^P LL ^K L ^T WAA ^E RV ^S AG ^D L ^D EAM ^I N ^T ER ^K DE ^I G ^R LAV ^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 IVLV ^V IA ^S HYL ^S NF ^I TS ^P LL ^K L ^T WAA ^E RV ^S AG ^D L ^D EAM ^I N ^T ER ^K DE ^I G ^R LAV ^S F ^E RM ^Q RS ^I RE ^K I ^S L ^I	0
NTDB id 252795 KSH RS01270 WP 050324978.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus	.....	0

logo

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 252795 KSH RS01270 WP 050324978.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus	.....	0

logo

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 252795 KSH RS01270 WP 050324978.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus	.....	0

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 252795 KSH RS01270 WP 050324978.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus	.....	0

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 252795 KSH RS01270 WP 050324978.1	.....M ^D A ^N F ^E G ^L K ^V M ^I I ^D D ^S K ^T I ^R R ^T A ^E T ^L L ^A K ^A G ^C E ^V I ^T A ^V	38
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....M ^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
NTDB id 1417 SGL RS04200 WP 014407071.1M ^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
consensus*.....*****!*****!.....*!**** *!	

logo

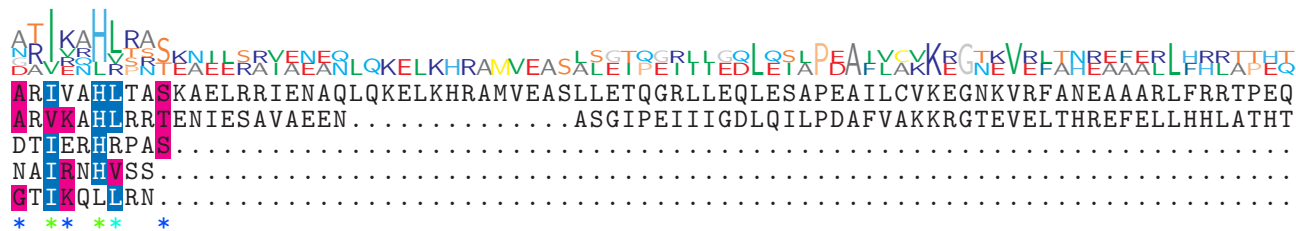
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 NTDB id 252795 KSH RS01270 WP 050324978.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus



880
109
118
118
112

logo

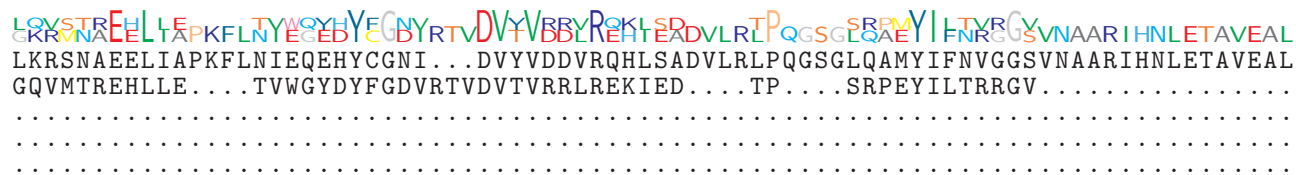
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 NTDB id 252795 KSH RS01270 WP 050324978.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus



960
175
128
127
121

logo

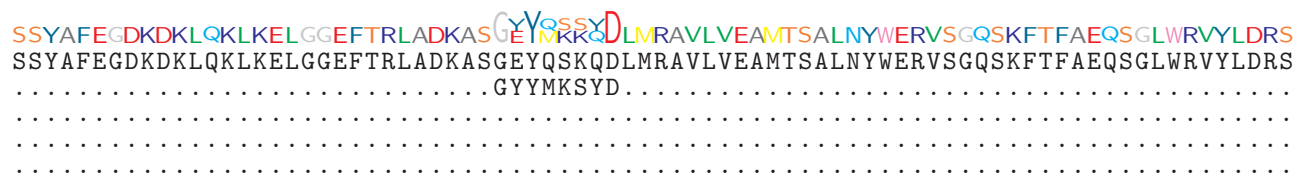
NTDB id 1143 A1552VC RS01965 WP 001883436.1
 NTDB id 374 SMU RS06885 WP 002262930.1
 NTDB id 252795 KSH RS01270 WP 050324978.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus



1037
227
128
127
121

logo

NTDB id 1143 A1552VC RS01965 WP 001883436.1
 NTDB id 374 SMU RS06885 WP 002262930.1
 NTDB id 252795 KSH RS01270 WP 050324978.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus



1117
235
128
127
121

logo

NTDB id 1143 A1552VC RS01965 WP 001883436.1
 NTDB id 374 SMU RS06885 WP 002262930.1
 NTDB id 252795 KSH RS01270 WP 050324978.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus



1177
235
128
127
121

 non conserved
 similar
 $\geq 50\%$ conserved