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NTDB	id	582	DLJ51	RS00505	WP	002962720.1	MDKEKLKEIFNKHSALPEEEVEEFDDGMVKEVITAGLLFCLKEV...	LDMDSSSFVSASF	SRVEKT	VSKLAKDYYIKLW	TY	76						
NTDB	id	450	SPYM18	RS08475	WP	011018214.1	MS..CCFFVVLFILGIVKKKRRLLKMSIETRAAF	EKVKPI	ILKLKRHHYI	QLWDR		52						
NTDB	id	449	SPYM18	RS01395	WP	011018214.1	MS..CCFFVVLFILGIVKKKRRLLKMSIETRAAF	EKVKPI	ILKLKRHHYI	QLWDR		52						
NTDB	id	442	SPYM3	RS08515	WP	011106595.1	MS..CCFFVVLFILGIVKKKRRLLKMSIETRAV	EKVKPI	ILKLKRHHYI	QLWDR		52						
NTDB	id	441	SPYM3	RS01385	WP	011106595.1	MS..CCFFVVLFILGIVKKKRRLLKMSIETRAV	EKVKPI	ILKLKRHHYI	QLWDR		52						
NTDB	id	448	SpyM6JRS4	RS07800	WP	010921894.1	MS..CCFFVVLFILGIVKKKRRLLKMSIETRAAF	EKVKPI	ILKLKRHHYI	QLWDR		52						
NTDB	id	447	SpyM6JRS4	RS01370	WP	010921894.1	MS..CCFFVVLFILGIVKKKRRLLKMSIETRAAF	EKVKPI	ILKLKRHHYI	QLWDR		52						
NTDB	id	44	SMU	RS09085	WP	002263585.1	MEEDFEI	VFNKVKPI	VWKL	SRYYFI	KMWTR	30						
NTDB	id	457	SSUD9	RS00080	WP	002936602.1	MEFEK	VYASVKG	IVNKARKEFYI	KLWDR		28						
NTDB	id	461	GPW51	RS00080	WP	011921639.1	MEFEK	VYASVKG	IVNKARKEFYI	KLWDR		28						
NTDB	id	454	SSU	RS00080	WP	011921639.1	MEFEK	VYASVKG	IVNKARKEFYI	KLWDR		28						
NTDB	id	424	SGO	RS10430	WP	012130755.1	MKFED	VYKQVEG	IVKRCYKDYYL	HLWEY		28						
NTDB	id	423	SGO	RS08370	WP	012130755.1	MKFED	VYKQVEG	IVKRCYKDYYL	HLWEY		28						
NTDB	id	58200	SPN034183	RS09755	WP	000588866.1	MIKEL	YEEVQGT	VYKCRNEY	YHLWL		27						
NTDB	id	252	KZH43	RS09050	WP	000588897.1	MIKEL	YEEVQGT	VYKCRNEY	YHLWL		27						
NTDB	id	251	KZH43	RS09050	WP	000588897.1	MIKEL	YEEVQGT	VYKCRNEY	YHLWL		27						
NTDB	id	211	SPD	RS09675	WP	000588897.1	MIKEL	YEEVQGT	VYKCRNEY	YHLWL		27						
NTDB	id	210	SPD	RS00065	WP	000588897.1	MIKEL	YEEVQGT	VYKCRNEY	YHLWL		27						
NTDB	id	177	SPR	RS09210	WP	000588897.1	MIKEL	YEEVQGT	VYKCRNEY	YHLWL		27						
NTDB	id	176	SPR	RS00065	WP	000588897.1	MIKEL	YEEVQGT	VYKCRNEY	YHLWL		27						
NTDB	id	141	SP	RS10155	WP	000588925.1	MIKEL	YEEVQGT	VYKCRNEY	YHLWL		27						
NTDB	id	140	SP	RS00070	WP	000588925.1	MIKEL	YEEVQGT	VYKCRNEY	YHLWL		27						
NTDB	id	488	SM12261	RS00065	WP	000471939.1	MFKEL	YEEVQGI	VYKCRNEY	YHLWL		27						
NTDB	id	489	SM12261	RS01070	WP	000471940.1	MFKEL	YEEVQGI	VYKCRNEY	YHLWL		27						
NTDB	id	517	SMSK321	RS10700	WP	000471945.1	MFKEL	YKEVQGI	VYKSRNEY	YHLWL		27						
NTDB	id	516	SMSK321	RS09125	WP	000471944.1	MFKEL	YKEVQGI	VYKSRNEY	YHLWL		27						
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NTDB id 582 DLJ51 RS00505 WP 002962720.1	DDWRQEARIIILYQLIERFPDLANDDEEKLRIFYFKTKFRSYVLDNIRKQESQKRAFDRMIYEEITSEIGHMTPSQQMDTADYC	156
NTDB id 450 SPYM18 RS08475 WP 011018214.1	DDWLQEGHIIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 449 SPYM18 RS01395 WP 011018214.1	DDWLQEGHIIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 442 SPYM3 RS08515 WP 011106595.1	DDWLQEGHIIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 441 SPYM3 RS01385 WP 011106595.1	DDWLQEGHIIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1	DDWLQEGHIIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1	DDWLQEGHIIILLQLLERYPELIEEEERLYRYFKTKFSSYLKDLLRRQESQKRQFHKLAYEEIGEVAHAIPSRGLWLDDYV	132
NTDB id 44 SMU RS09085 WP 002263585.1	EDWQQEGMILILHQLLREHPELEEDDTKLYTYFKTRFSNYIKDVLRRQESQKRFRNRMSEYEEVGEIEHCSSSGCMQLDEYI	110
NTDB id 457 SSUD9 RS00080 WP 002936602.1	DDWEQEGMMTLFELIEAQPWLVDQVQLYCYFKVKFRNRKIDRIRKQESQKRKFDRMPHEDIHELISHAIQSPGLINDELL	108
NTDB id 461 GPW51 RS00080 WP 011921639.1	DDWEQEGMMTLFELIEAQPWLVDQVQLYCYFKVKFRNRKIDRIRKQESQKRKFDRMPHEDIYELSHAIQSPGLINDELL	108
NTDB id 454 SSU RS00080 WP 011921639.1	DDWEQEGMMTLFELIEAQPWLVDQVQLYCYFKVKFRNRKIDRIRKQESQKRKFDRMPHEDIYELSHAIQSPGLINDELL	108
NTDB id 424 SGO RS10430 WP 012130755.1	ADWRQEGMILVLYELLKSHPNLLEDQPRLRYRYFKTKFRNRILDLIRKQESQKRKLDRQPYYEEVSEIGHRIIRMKELYLDELV	108
NTDB id 423 SGO RS08370 WP 012130755.1	ADWRQEGMILVLYELLKSHPNLLEDQPRLRYRYFKTKFRNRILDLIRKQESQKRKLDRQPYYEEVSEIGHRIIRMKELYLDELV	108
NTDB id 58200 SPN034183 RS09755 WP 000588866.1	SDWDQEGMILCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY	107
NTDB id 252 KZH43 RS09050 WP 000588897.1	SDWDQEGMILCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY	107
NTDB id 251 KZH43 RS09050 WP 000588897.1	SDWDQEGMILCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY	107
NTDB id 211 SPD RS09675 WP 000588897.1	SDWDQEGMILCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY	107
NTDB id 210 SPD RS00065 WP 000588897.1	SDWDQEGMILCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY	107
NTDB id 177 SPR RS09210 WP 000588897.1	SDWDQEGMILCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY	107
NTDB id 176 SPR RS00065 WP 000588897.1	SDWDQEGMILCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY	107
NTDB id 141 SP RS10155 WP 000588925.1	SDWEQEGMILCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY	107
NTDB id 140 SP RS00070 WP 000588925.1	SDWEQEGMILCLHELISREEGLVDDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDDYY	107
NTDB id 488 SM12261 RS00065 WP 000471939.1	SDWDQEGMILCLHELISREEGLVEDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDEYY	107
NTDB id 489 SM12261 RS01070 WP 000471940.1	SDWDQEGMILCLHELISREEELVEDIPRLRKIFYFKTKFRNRILDHIRKQESQKRRYDKEPYEEVGEISHRISEGGLWLDEYY	107
NTDB id 517 SMSK321 RS10700 WP 000471945.1	SDWDQEGMILCLHELISREEELVEDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKEAYEEVGEISHRISEGGLWLDDYY	107
NTDB id 516 SMSK321 RS09125 WP 000471944.1	SDWDQEGMILCLHELISKEEELVEDIPRLRKIFYFKTKFRNRILDYIRKQESQKRRYDKESYEEVGEISHRISEGGLWLDEYY	107
consensus	!! !!*** ! *!* * **** *! *!!!!*!***** ! *!*!!!!!!***** *!***!* ! * *****	

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NTDB id 582 DLJ51 RS00505 WP 002962720.1
NTDB id 450 SPYM18 RS08475 WP 011018214.1
NTDB id 449 SPYM18 RS01395 WP 011018214.1
NTDB id 442 SPYM3 RS08515 WP 011106595.1
NTDB id 441 SPYM3 RS01385 WP 011106595.1
NTDB id 448 SpyM6JRS4 RS07800 WP 010921894.1
NTDB id 447 SpyM6JRS4 RS01370 WP 010921894.1
NTDB id 44 SMU RS09085 WP 002263585.1
NTDB id 457 SSUD9 RS00080 WP 002936602.1
NTDB id 461 GPW51 RS00080 WP 011921639.1
NTDB id 454 SSU RS00080 WP 011921639.1
NTDB id 424 SGO RS10430 WP 012130755.1
NTDB id 423 SGO RS08370 WP 012130755.1
NTDB id 58200 SPN034183 RS09755 WP 000588866.1
NTDB id 252 KZH43 RS09050 WP 000588897.1
NTDB id 251 KZH43 RS09050 WP 000588897.1
NTDB id 211 SPD RS09675 WP 000588897.1
NTDB id 210 SPD RS00065 WP 000588897.1
NTDB id 177 SPR RS09210 WP 000588897.1
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NTDB id 141 SP RS10155 WP 000588925.1
NTDB id 140 SP RS00070 WP 000588925.1
NTDB id 488 SM12261 RS00065 WP 000471939.1
NTDB id 489 SM12261 RS01070 WP 000471940.1
NTDB id 517 SMSK321 RS10700 WP 000471945.1
NTDB id 516 SMSK321 RS09125 WP 000471944.1
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