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NTDB id 625 LCA RS02525 WP 011374196.1MAKD ER QAALDAAL KK IEKN F GKGS I MR MG EK.VDTQV ST V SS GSLALD E ALGVGGY PR GR	60
NTDB id 1149029 C6W40 RS07180 WP 003725961.1	.....M ND RQAALDQAL K IEK Q F G KGS I M K L G EH.SDQ NI ST SS GSLALD I ALGVGGY PR GR	58
NTDB id 115 BSU 16940 NP 389576.2	.....MS DR QAALDMAL K IEK Q F G KGS I M K L G E K .TD TR I ST V PS GSLALD T ALGI GG Y PR GR	58
NTDB id 600 KW2 RS01765 WP 011675413.1	MAT KK.....K T N F DDIT K K Y GA ER D K ALADALALIE K D F G K GS I M R L G EA.A N Q K V SV V SS GSLALD T ALCAGGY PK GR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MA KK.....P K K L EE I S K K F GA ER E K ALNDAL KL IE K D F G K GS I M R L G ER.A E Q K V Q V SS GSLALD T ALC S GGY PK GR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MA KK.....P K K L EE I S K K F GA ER E K ALNDAL KL IE K D F G K GS I M R L G ER.A E Q K V Q V SS GSLALD T ALC S GGY PK GR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MA KK.....P K K L EE I S K K F GA ER E K ALNDAL KL IE K D F G K GS I M R L G ER.A E Q K V Q V SS GSLALD T ALC S GGY PK GR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MA KK.....P K K L EE I S K K F GA ER E K ALNDAL KL IE K D F G K GS I M R L G ER.A E Q K V Q V SS GSLALD T ALC S GGY PK GR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MA KK.....P K K L DE I S K K F GA ER E K ALNDAL KL IE K D F G K GS I M R L G ER.A E Q K V Q V SS GSLALD T ALC S GGY PK GR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MA KK.....P K K L DE I S K K F GA ER E K ALNDAL KL IE K D F G K GS I M R L G ER.A E Q K V Q V SS GSLALD T ALC S GGY PK GR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MA KK.....L K K N EE I T K K F GD ER R K ALDDAL KN IE K D F G K GA V M R L G ER.A E Q K V Q V SS GSLALD T ALCAGGY PK GR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MA K R.....I K K T EE I T K K F GD ER K K ALDDAL KN IE K D F G K GA V M R L G ER.A E Q K V Q V SS GSLALD T ALCAGGY PK GR	73
NTDB id 1313 DR RS12030 WP 010888966.1	.....M S K D AT K E I S A P T DA K E R S K A T E T A MS Q IE K A F G K S I M K L G A E .SK L D V Q V ST G S L S L D E A L G V G G I P R GR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....M D D N K R K S L D AAL K S L D K T F G K C T I L R L C D K.E V E Q I D S I G T G S V G L D E A L G I G G V P K GR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....M A I D E D K Q K A T S L A T K I D K V F G K G A L V R L C D K .Q V E K I D A I ST G S L C L D E A L G I G G V P K GR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....M A I D E D K Q K A T S L A T K I D K V F G K G A L V R L C D K .Q V E K I D A I ST G S L C L D E A L G I G G V P K GR	61
NTDB id 1334 RA0C RS04870 WP 004918236.1	.....M A K T ..E T T S P N D D K K K A L A A V L E K L D K T Y G K C T V M K L C D G T V D H N I E V I P S G S L C L D E A L G V G G Y P K GR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.M A E N K K S S K N N T V..V K Q V E P E Q K K Q A L E A A L A Q IE K Q F G K S I M K L G Q T .E Q L D I E S V ST G S L C L D E A L G I G G L P M GR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1M S D D K S K A L A A A L A Q IE K S F G K G A I M K M D G S Q Q E N L E V I ST G S L C L D E A L G V G G L P R GR	60
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NTDB id 1123 OK783 RS03845 WP 003688695.1M S D D K S K A L A A A L A Q IE K S F G K G A I M K M D G S Q Q E N L E V I ST G S L C L D E A L G V G G L P R GR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.M E D G.....K..K A A S M S A E K Q K A L A A A L A Q IE K Q F G K S I M K M G D A .E V E P V Q V ST G S L C L D E A L G V G G L P R GR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....M D E N K Q K A L A A A L G Q IE K Q F G K S I M R L C D N .R A M D V E T I ST G S L S L D E A L G A G G L P M GR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....M D E N K Q K A L A A A L G Q IE K Q F G K S I M R L C D N .R A M D V E T I ST G S L S L D E A L G A G G L P M GR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1M D E N K S K A L Q A A L S Q IE K Q F G K N T V M R L C D N .T V Q A V E A V ST G S L T L D E A L G I G G L P K GR	59
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consensus	*****! *!!***** * **!!*!!*!!! *!!! *!!!	

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NTDB id 625 LCA RS02525 WP 011374196.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	E	V	Q	K	Q	G	G	T	A	A	Y	I	D	A	E	H	A	L	D	P	Y	A	K	N	L	G	V	M	I	D	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	A	D	A	L	V	S	S	G	A	V	D	I	140	
NTDB id 1149029 C6W40 RS07180 WP 003725961.1	I	I	E	V	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	I	A	E	V	Q	Q	Q	G	G	A	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	L	G	V	M	I	D	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	A	E	A	L	V	R	S	G	A	V	D	M	138		
NTDB id 115 BSU 16940 NP 389576.2	I	I	E	V	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	I	A	E	V	Q	Q	Q	G	G	A	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	L	G	V	M	I	D	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	A	E	A	L	V	R	S	G	A	V	D	I	138		
NTDB id 600 KW2 RS01765 WP 011675413.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	E	Y	A	K	A	L	G	V	M	I	D	E	L	L	S	Q	P	D	Y	G	E	Q	A	L	E	I	A	E	K	L	I	T	S	G	A	V	D	L	154
NTDB id 269 KZH43 RS08665 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	M	I	D	E	L	L	S	Q	P	D	S	G	E	Q	A	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
NTDB id 228 SPD RS09265 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	M	I	D	E	L	L	S	Q	P	D	S	G	E	Q	A	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
NTDB id 194 SPR RS08825 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	M	I	D	E	L	L	S	Q	P	D	S	G	E	Q	A	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
NTDB id 159 SP RS09750 WP 001085462.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	M	I	D	E	L	L	S	Q	P	D	S	G	E	Q	A	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
NTDB id 499 SM12261 RS08315 WP 078228268.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	M	I	D	E	L	L	S	Q	P	D	S	G	E	Q	A	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	M	I	D	E	L	L	S	Q	P	D	S	G	E	Q	A	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
NTDB id 453 Spy49 1753c ACI62003.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	M	I	D	E	L	L	S	Q	P	D	S	G	E	Q	A	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153	
NTDB id 408 SMU RS09530 WP 002262392.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	Q	A	Q	K	D	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	M	I	D	E	L	L	S	Q	P	D	S	G	E	Q	A	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153		
NTDB id 1313 DR RS12030 WP 010888966.1	I	T	E	I	Y	G	P	E	S	S	G	K	T	T	L	A	L	A	I	V	A	Q	A	Q	K	A	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	R	A	L	G	V	M	I	D	E	L	L	S	Q	P	D	N	G	E	Q	A	L	E	I	M	E	L	L	V	R	S	G	A	T	D	V	152
NTDB id 1245 Cj1673c YP 002345041.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	L	L	H	I	I	A	E	C	Q	K	A	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	K	Y	A	K	N	L	G	V	M	I	D	E	L	L	S	Q	P	D	F	G	E	Q	A	L	E	I	V	E	T	I	A	R	S	G	A	V	D	L	139	
NTDB id 1211 C694 RS00795 WP 000963128.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	L	S	L	H	I	I	A	E	C	Q	K	N	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	H	Y	A	K	R	L	G	V	D	E	N	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	L	E	T	I	T	R	S	G	G	I	D	L	141	
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NTDB id 1334 RA0C RS04870 WP 004918236.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	L	H	A	I	A	E	A	Q	K	V	G	G	T	A	A	F	I	D	A	E	H	A	L	D	P	F	M	H	Y	A	E	K	L	C	T	N	L	E	L	L	S	Q	P	D	N	G	E	Q	A	L	E	I	A	D	S	L	I	R	S	G	V	D	I	148	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	L	S	L	I	A	Q	A	Q	K	G	N	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	R	N	L	G	V	M	I	D	E	L	L	S	Q	P	D	N	G	E	Q	A	L	E	I	C	D	A	L	V	R	S	G	A	V	D	V	156	
NTDB id 1130 NGFG RS03960 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	G	I	D	M	140
NTDB id 1124 NGFG RS03960 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	G	I	D	M	140
NTDB id 1123 OK783 RS03845 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	G	I	D	M	140
NTDB id 1427 RS RS02760 WP 011000510.1	V	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	L	Q	V	V	A	E	M	Q	K	L	G	G	T	C	A	F	I	D	A	E	H	A	L	D	V	T	Y	A	D	K	L	G	V	K	V	P	D	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	A	D	A	L	V	R	S	G	V	D	L	148		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	T	L	E	L	I	A	A	A	Q	R	E	G	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	K	L	G	V	M	I	D	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	A	L	A	R	S	G	A	V	D	V	139
NTDB id 1142 GTF74 RS11550 WP 000344154.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	T	L	E	L	I	A	A	A	Q	R	E	G	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	K	L	G	V	M	I	D	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	A	L	A	R	S	G	A	V	D	V	139
NTDB id 1074 ABD1 RS10195 WP 000344167.1	I	I	E	I	Y	G	P	E	S	S	G	K	T	T	M	L	Q	A	I	A	Q	C	K	S	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	Q	Y	A	R	K	L	G	V	D	I	D	N	L	L	S	Q	P	D	N	G	E	Q	A	L	E	I	A	D	M	L	V	R	S	G	A	T	D	L	139		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	M	L	Q	A	I	A	Q	C	K	A	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	Q	Y	A	R	K	L	G	V	D	I	D	N	L	L	S	Q	P	D	H	G	E	Q	A	L	E	I	A	D	M	L	V	R	S	G	A	T	D	L	139		
NTDB id 1205 PSJM300 05545 AFN77183.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	L	S	V	I	A	A	A	Q	R	M	G	S	T	C	A	F	V	D	A	E	H	A	L	D	P	D	Y	A	G	K	L	G	V	N	V	D	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	T	D	M	L	V	R	S	N	A	V	D	V	139		

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NTDB id 625 LCA RS02525 WP 011374196.1	SE R I G Q G R E N A K N Y L A D H E D V E D E V R L K V R A A Y C T S D V P E E D L P T T E D E Q I N I L P D D S T E E	355
NTDB id 1149029 C6W40 RS07180 WP 003725961.1	E E R I G Q G R E N A K Q Y L K E H T D I R D E I S K R V R E E Y E I D G S N K E P L D . . E G E E T L S L L D D E	348
NTDB id 115 BSU 16940 NP 389576.2	E E R I G Q G R E N A K Q F L K E N K D I M L M I Q E Q I R E H Y G I D N N G V V Q Q A E E T Q E E L F E E	348
NTDB id 600 KW2 RS01765 WP 011675413.1	D E K I G Q G A E K A K N Y L K E H Q D V F D E I D H K V R A A H C I L D D S E V A E T E E E T T A S K T K A K A K K E E K A V E T E E I E L E L E D	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	D E K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F C I L D G E E V S E Q D T E N K K D E P K K E E A . . V N E E V P L D L G D E L E I E	385
NTDB id 228 SPD RS09265 WP 001085462.1	D E K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F C I L D G E E V S E Q D T E N K K D E P K K E E A . . V N E E V P L D L G D E L E I E	385
NTDB id 194 SPR RS08825 WP 001085462.1	D E K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F C I L D G E E V S E Q D T E N K K D E P K K E E A . . V N E E V P L D L G D E L E I E	385
NTDB id 159 SP RS09750 WP 001085462.1	D E K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F C I L D G E E V S E Q D T E N K K D E P K K E E A . . V N E E V P L D L G D E L E I E	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	D E K I G Q G S E N A K K Y L A D N P E I F D E I D H Q V R V Q F C I L D G E E I A E S K K D E A A Q V D S . . V N E E V T L D L G D E L E I E	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	D E K I G Q G S E N A K K Y L A D N P E V F A E I D H Q V R V Q F C I L D G E E A A A E S K K D E V A Q V D S . . V N E E V T L D L G D E L E I E	381
NTDB id 453 Spy49 1753c ACI62003.1	G E K I G Q G S E N A K R Y L A D H P Q L F D E I D R K V R V K F C I L E E S E E E S A M A V A S E E T D D L A L D L D N G I E I E	377
NTDB id 408 SMU RS09530 WP 002262392.1	G E K I G Q G S E N A K K F L A D N P E I F D I D H K V R V Q Y C I I E E D N T E E K Q S S K E K E T D E K . . A D K N L V L E L D D T I E L E	382
NTDB id 1313 DR RS12030 WP 010888966.1	D E R I G Q G K E K T I A Y I A E R P E M E Q E I R D R V M A A T R A G N A G E A P A L A P A P A A P A E A A E A	363
NTDB id 1245 Cj1673c YP 002345041.1	D K K I G Q G R E N S K A F L K E N P E I A D E I T K A I Q N S M C I E G M I S G S E D D E . . G E E	343
NTDB id 1211 C694 RS00795 WP 000963128.1	D K K I G Q G R E N A K A L L K E D K A L A D E I T L K I K E S I C S N E E I M P L P D E P . . L E E M E	347
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NTDB id 1427 RS RS02760 WP 011000510.1	G E R I G Q G R D N C R E F L R E N A E I L A R E I E N K V R E H L C V T P M G A V . T L A E E V E E D	352
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consensus

 non conserved
 similar
 ≥ 50% conserved