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NTDB id 354709 DhcFL2 RS07525 WP 011310041.1	VAEIYGPESGKTTLAQHITAAQAQKMGKAAAYIDVEHALDPKYASTCGVMIDELLI SQPDTGEALGTAEELVRSAAIGV	140
NTDB id 600 KW2 RS01765 WP 011675413.1	IVEIYGPESGKTTVALHAVAQKKEGGIAAFIDAEHALDPYAKALGVNIDELL SQPDYGEQCLGTAEKLTSGAVDL	154
NTDB id 269 KZH43 RS08665 WP 001085462.1	IIEIYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELL SQPDSGEQGLEIAGKLTSGAVDL	153
NTDB id 228 SPD RS09265 WP 001085462.1	IIEIYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELL SQPDSGEQGLEIAGKLTSGAVDL	153
NTDB id 194 SPR RS08825 WP 001085462.1	IIEIYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELL SQPDSGEQGLEIAGKLTSGAVDL	153
NTDB id 159 SP RS09750 WP 001085462.1	IIEIYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELL SQPDSGEQGLEIAGKLTSGAVDL	153
NTDB id 499 SM12261 RS08315 WP 078228268.1	IIEIYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELL SQPDSGEQGLEIAGKLTSGAVDL	153
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IIEIYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELL SQPDSGEQGLEIAGKLTSGAVDL	153
NTDB id 453 Spy49 1753c ACI62003.1	IIEIYGPESGKTTVALHAVAQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELL SQPDSGEQGLEIAGKLTSGAVDL	153
NTDB id 408 SMU RS09530 WP 002262392.1	IVEIYGPESGKTTVALHAVAQAQKDGGAIAAFIDAEHALDPAYAAALGVNIDELL SQPDSGEQGLEIAGKLTSGAVDL	153
NTDB id 115 BSU 16940 NP 389576.2	IIEVYGPESGKTTVALHAVAQEVQQGGQAFAFIDAEHALDPVYAKLGVNIDELL SQPDTGEQALEIAEALVRSAGVDI	138
NTDB id 625 LCA RS02525 WP 011374196.1	IVEIYGPESGKTTVALHAVAQEVQKQCGTAAAYIDAEHALDPKYATALGVNIDELL SQPDTGEQGLEIADALVSSGAVDI	140
NTDB id 1313 DR RS12030 WP 010888966.1	IIEIYGPESGKTTVALHAVAQAQKAGGTCFAFIDAEHALDPVYARALGVNIDELL SQPDMGEQALEIMELLVRSAGTIDV	152
NTDB id 1245 Cj1673c YP 002345041.1	IIEIYGPESGKTTTLHIIAECQKAGGVCAFIDAEHALDVKYAKNLGVNIDELLYV SQPDFGEQALEIVETIARSGAVDL	139
NTDB id 1211 C694 RS00795 WP 000963128.1	IIEIYGPESGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLV SQPDTGEQALEILETITRSGGIDL	141
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IIEIYGPESGKTTLSLHIIAECQKNGGVCAFIDAEHALDVHYAKRLGVDTENLLV SQPDTGEQALEILETITRSGGIDL	141
NTDB id 1334 RA0C RS04870 WP 004918236.1	IVEIYGPESGKTTTLHIIAQAQKVGCTAAAFIDAEHALFDMHYAEKLCITNLEELIV SQPDMGEQALEIADSLTRSGVDI	148
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IVEIYGPESGKTTTLSLIIAQAQKGNKTCFAFIDAEHALDPVYARNLGVNIDELL SQPDMGEQALEICDALVRSAGVDV	156
NTDB id 1130 NGFG RS03960 WP 003688695.1	IVEIFGPESGKTTLCLEAVAQCKNGGVCAFVDAEHALFDPVYARKLGVKVEELYL SQPDTGEQALEICDTLVRSGGIDM	140
NTDB id 1124 NGFG RS03960 WP 003688695.1	IVEIFGPESGKTTLCLEAVAQCKNGGVCAFVDAEHALFDPVYARKLGVKVEELYL SQPDTGEQALEICDTLVRSGGIDM	140
NTDB id 1123 OK783 RS03845 WP 003688695.1	IVEIFGPESGKTTLCLEAVAQCKNGGVCAFVDAEHALFDPVYARKLGVKVEELYL SQPDTGEQALEICDTLVRSGGIDM	140
NTDB id 1427 RS RS02760 WP 011000510.1	VVEIYGPESGKTTTLQVVAEMQKLGCTCAFIDAEHALDVTYADKLGKVPDILL SQPDTGEQALEIADALVRSGSVDL	148
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IVEIFGPESGKTTTLELIIAAAQREGKTCFAFIDAEHALDPVYAKKLGVMIDELLV SQPDTGEQALEICDALVRSAGVDV	139
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IVEIFGPESGKTTTLELIIAAAQREGKTCFAFIDAEHALDPVYAKKLGVMIDELLV SQPDTGEQALEICDALVRSAGVDV	139
NTDB id 1205 PSJM300 05545 AFN77183.1	IVEIYGPESGKTTTLQVVAEMQKLGCTCAFVDAEHALDPYAGKLGVMIDELLV SQPDTGEQALEITDMLVRSNAVDV	139
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IVEIYGPESGKTTMTLQAIQAQCKAGGTCFAFIDAEHALDPYARKLGVNIDNLLV SQPDHGEQALEIADMLVRSAGTDL	139
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IIEIYGPESGKTTMTLQAIQAQCKSGGTCFAFIDAEHALDPYARKLGVNIDNLLV SQPDMGEQALEIADMLVRSAGIDL	139
consensus	**!* **!!**!!**!!**!* * **!* !* ** !**!* **!* ** !! *!*****!***!!*!!**!*!* * **!* **!* **	

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NTDB id 354709 DhcFL2 RS07525 WP 011310041.1	I	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	A	S	I	G	Q	T	R	T	A	V	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	219	
NTDB id 600 KW2 RS01765 WP 011675413.1	V	V	I	D	S	V	A	A	L	V	P	K	A	E	I	D	G	E	I	G	D	S	S	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	A	G	H	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	233	
NTDB id 269 KZH43 RS08665 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 228 SPD RS09265 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 194 SPR RS08825 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 159 SP RS09750 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 499 SM12261 RS08315 WP 078228268.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 453 Spy49 1753c ACI62003.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	232		
NTDB id 408 SMU RS09530 WP 002262392.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	232		
NTDB id 115 BSU 16940 NP 389576.2	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	S	G	A	I	N	K	S	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	217
NTDB id 625 LCA RS02525 WP 011374196.1	L	V	V	D	S	V	A	A	L	V	P	R	A	E	I	E	G	M	G	D	A	H	V	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	S	G	T	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	F	G	N	P	E	V	T	P	G	G	R	A	L	K	F	Y	S	219	
NTDB id 1313 DR RS12030 WP 010888966.1	V	V	V	D	S	V	A	A	L	T	P	R	A	E	I	E	G	D	M	G	D	S	L	P	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	A	I	L	S	K	T	G	T	A	A	I	F	I	N	Q	V	R	E	K	V	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	231
NTDB id 1245 Cj1673c YP 002345041.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	Q	H	V	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	G	I	V	H	K	M	N	T	V	I	F	I	N	Q	L	R	M	K	I	G	A	M	G	Y	G	T	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	219
NTDB id 1211 C694 RS00795 WP 000963128.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	M	G	D	Q	H	V	G	L	Q	A	R	I	M	S	H	A	L	R	K	I	T	G	V	L	H	K	M	N	T	L	I	F	I	N	Q	L	R	M	K	I	G	M	M	G	Y	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	221	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	M	G	D	Q	H	V	G	L	Q	A	R	I	M	S	H	A	L	R	K	I	T	G	V	L	H	K	M	N	T	L	I	F	I	N	Q	L	R	M	K	I	G	M	M	G	Y	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	221	
NTDB id 1334 RA0C RS04870 WP 004918236.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	M	G	D	S	K	M	G	L	H	A	R	I	M	S	Q	A	L	R	K	L	T	S	S	I	S	K	T	K	C	T	V	I	F	I	N	Q	L	R	D	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	227	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	I	I	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	S	H	M	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	A	N	I	K	N	T	N	C	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	235
NTDB id 1130 NGFG RS03960 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	219
NTDB id 1124 NGFG RS03960 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	219
NTDB id 1123 OK783 RS03845 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	219
NTDB id 1427 RS RS02760 WP 011000510.1	I	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	M	G	D	A	L	P	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	G	T	I	K	E	T	N	C	L	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	227	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	M	G	D	S	H	M	G	L	Q	A	R	I	M	S	Q	A	M	R	K	L	T	G	N	L	K	Q	S	N	C	M	C	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	218	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	M	G	D	S	H	M	G	L	Q	A	R	I	M	S	Q	A	M	R	K	L	T	G	N	L	K	Q	S	N	C	M	C	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	218	
NTDB id 1205 PSJM300 05545 AFN77183.1	I	I	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	M	G	D	A	H	V	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	G	N	L	K	N	A	N	C	L	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	218	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	M	G	D	S	H	M	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	G	N	A	K	R	S	N	C	M	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	218	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	M	G	D	S	H	M	G	L	Q	A	R	I	M	S	Q	A	L	R	K	L	T	G	N	A	K	R	S	N	C	M	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	218	
consensus	***!!!!!!*!****!****!****!																																																																															

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NTDB id 354709 DhcFL2 RS07525 WP 011310041.1	DIRIGGQGRSAKKNYLAA ^{NP} DI ^{LA} QEIE ^{HE} KTRASAVTLC ^S IGDGD.....	337
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGGA ^E KAK ^N YL ^K EH ^Q DV ^F DEID ^H KKV ^R AAH ^C LDLDSEVAETEEETTAS ^T KTKAKAK ^K EEKAVETEEIELELED....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSENAK ^K YLAE ^H PEIF ^{DE} ID ^K QV ^R SK ^F GLIDGEEVSEQD ^T EN ^K KDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSENAK ^K YLAE ^H PEIF ^{DE} ID ^K QV ^R SK ^F GLIDGEEVSEQD ^T EN ^K KDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGSENAK ^K YLAE ^H PEIF ^{DE} ID ^K QV ^R SK ^F GLIDGEEVSEQD ^T EN ^K KDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGSENAK ^K YLAE ^H PEIF ^{DE} ID ^K QV ^R SK ^F GLIDGEEVSEQD ^T EN ^K KDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSENAK ^K YLAD ^N PEIF ^{DE} ID ^H QV ^R V ^Q FC ^L IDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGSENAK ^K YLAD ^N PEV ^{FA} EID ^H QV ^R V ^Q FC ^L IDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSENAK ^R YLAD ^H P ^{QL} F ^{DE} ID ^R KV ^R V ^K FC ^L LEESEEEESAMAVASE.....E.....TDDLALDLN ^G IEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSENAK ^K FLAD ^N PEIF ^{DD} ID ^H KKV ^R V ^Q Y ^C LIEEDNTEEKQSSKEK.....E ^T DEK..ADKNLVLELDDTIELE	382
NTDB id 115 BSU 16940 NP 389576.2	EERLIGGQGR ^E NAK ^Q FL ^K EN ^K DI ^M LM ^I QE ^Q IRE ^H Y ^G LDNNGVVQQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGGQGR ^E NAK ^N YLAD ^H ED ^{VE} DEV ^R LK ^V RAAY ^C ISDVPEEDLPTTEDE.QI.NILP ^D DST.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGGQK ^E KTIAY ^I AER ^P EME ^Q EIRDRVMAA ^T RAGNAGEAPALAPAPAAPEAAE..A.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKIGGQGR ^E NAK ^A L ^L KED ^K ALADEITL ^K IKES ^I CSNEEI....MPLPDEP..LE..E ^M E.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKIGGQGR ^E NAK ^A L ^L KED ^K ALADEITL ^K IKES ^I CSNEEI....MPLPDEP..LE..E ^M E.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKIGGQGR ^E NAK ^A L ^L KED ^K ALADEITL ^K IKES ^I CSNEEI....MPLPDEP..LE..E ^M E.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKIGGQGRD ^T V ^K EL ^T KDN ^{PE} LA ^E LEAK ^T REKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGGQK ^N NAV ^K WL ^K EN ^{PE} IAD ^K LE ^Q EIR ^N T ^L ASNPNS....VLKATASDSND..E ^S DVEEFSEEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGGQK ^D NVR ^V WL ^K EN ^{PE} IS ^{DE} IDA ^K TRAL ^N CVEMHI....TEGT.....Q..DET ^D GERPEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGGQK ^D NVR ^V WL ^K EN ^{PE} IS ^{DE} IDA ^K TRAL ^N CVEMHI....TEGT.....Q..DET ^D GERPEE.....	348
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