

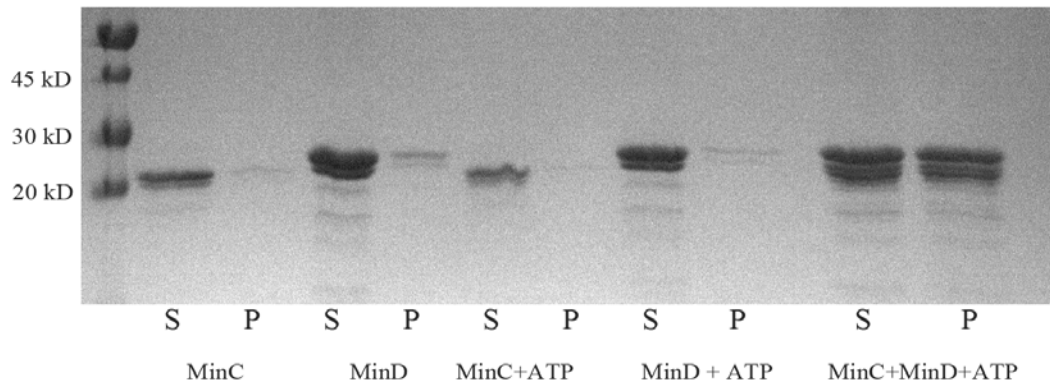
A.

<i>E. coli</i>	-----msntpielkgssftlsvvhlheaepkviqhaledkiaaqapafllkhpvvlvns	53
<i>K. pneumoniae</i>	-----msntpielkgssftlsvvhldanpevirqaledkiaaqapafllrhapvvvnia	53
<i>P. aeruginosa</i>	msqadlldqdpvfqlkgsmlavtilelahndlarlerqladkvaqapnffrdtplvmald	60
<i>B. subtilis</i>	----mktkkqyvvtikgtkng---lthlhdacsfdelldg----lqnml-----sie	42
<i>Listeria</i>	-----mkknvqikgtksg---isiflsdkasiselqqe----lsqll-----adq	38
<i>M. tuberculosis</i>	-----msspsidlkgsnftlsvlhlnnedpqieqavrekvsqapaffqnapvvlvns	53
<i>H. pylori</i>	----mlktnqknvha-----feiekqepavmefleknhallqyfl-----iif	40
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<i>E. coli</i>	aledpv---nwsamhkavsatglrvigvsgckdaqlkaeiekmgplilteg-kek-----	104
<i>K. pneumoniae</i>	sieeev---ewraineaiaatglrimvsgckiprlkteidragipllteg-kek-----	104
<i>P. aeruginosa</i>	klpegegrldlpallevyrrhrlrtlairagreediaaaa-qaldplvpplsrgarerpldi	119
<i>B. subtilis</i>	qytdgkqgq----kisvhvklgnrfl--ykeqeeqlteliaskkdlfvhsi-----	86
<i>Listeria</i>	kqnpysge-----klevqvqignrfl--seeereistihhnsqmkisaf-----	82
<i>M. tuberculosis</i>	qissga---nlkiicravtdaglrivgisgcqdekrrvatrsqllneg-ksa-----	104
<i>H. pylori</i>	ky-----diepevkailrkhqllfletn---rtlng	68
	: :	
<i>E. coli</i>	---apr-----papapqa-ptqnttpvtktrlidtpvrsgqriyapqcdli	146
<i>K. pneumoniae</i>	---asr-----papsdptppppvasqitktrlidqpvvrsgqriyaphcdli	147
<i>P. aeruginosa</i>	kdstprkpaeeppsagearpepak-aekpaepvsrptkvvktpvrggmqiyaaggdli	178
<i>B. subtilis</i>	-dsevitk-k-----eaqq-----ireeaeiisvskivrsgvqlqvk-gdll	125
<i>Listeria</i>	-ysnvmsk-d-----eakk-----wkendqifsmatiirsgqvvp-gdfl	121
<i>M. tuberculosis</i>	---rvaep-ea-----pepetpavssaadsscrktrlinvpvrsgqriyapnsdli	151
<i>H. pylori</i>	rhiktmlskee-----tdhakpnh-----sktepkttiyerhirsgeeiysa-nhli	114
	: * . : : . : :	
<i>E. coli</i>	vtshvsagaeliadgnihvygmmrgralagasgdretqifctnlmaelvsiaageywlsdq	206
<i>K. pneumoniae</i>	vtnhvsagaeliadgnihvygmmrgralagaggdrdaqifcthlaaelvsiaageywlsdn	207
<i>P. aeruginosa</i>	vlaavspgaelladgnihvygpmrgralagvkgdatarifcqlaaelvsiaagnykvaed	238
<i>B. subtilis</i>	ligdvnpggtvraggnifvlgsllkghahagfngnnqaviaaasemlptqlrinhvlnrspd	185
<i>Listeria</i>	ligdvnpggqirsngnvfvlgnikgiihagfegdenavvagkflypsqvriagkyvfgds	181
<i>M. tuberculosis</i>	vtanvsagaeliadgnihyglmrgrv lagaagdesqifcthlaelisiagqywlsdq	211
<i>H. pylori</i>	flgnihngakii segcvsvygvcegaivcf-----gerlilkevksaqivfqnki	164
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<i>E. coli</i>	ip-aefygkaarqlvenaltv--qpln-----	231
<i>K. pneumoniae</i>	ip-aefygkaarlrldgesalai--qpln-----	232
<i>P. aeruginosa</i>	lrrspqwgkavhvsllsgdvlni--trl-----	263
<i>B. subtilis</i>	---hiqkgnemecayltdgmvierlqhlalrpdltrlegg	226
<i>Listeria</i>	edykevadtldfsafvndageivideihkkirkirpeisnfqggr	225
<i>M. tuberculosis</i>	ip-gefagkaaklslvnnelti--nnli-----	236
<i>H. pylori</i>	ls-----lkeverllvnkniki-itknddildikevl-----	195

B.

<i>E. coli</i>	100.00	75.76	38.16	18.69	17.59	58.87	21.69
<i>K. pneumoniae</i>	75.76	100.00	37.99	18.69	18.59	56.90	21.08
<i>P. aeruginosa</i>	38.16	37.99	100.00	23.30	20.98	39.06	21.86
<i>B. subtilis</i>	18.69	18.69	23.30	100.00	36.94	17.91	15.82
<i>Listeria</i>	17.59	18.59	20.98	36.94	100.00	17.82	22.29
<i>M. tuberculosis</i>	58.87	56.90	39.06	17.91	17.82	100.00	17.65
<i>H. pylori</i>	21.69	21.08	21.86	15.82	22.29	17.65	100.00

Supplement Figure S2. Sequence comparison of MinC of different bacteria (A) and their similarity percentage analysis (B) using Clustal Omega software. MinC shares only about 23% identity between *B. subtilis* and *P. aeruginosa*.



Supplement Figure S3. SDS-PAGE analysis of co-sedimentation of BsMinC and BsMinD proteins. After centrifugation at 50,000 rpm at 20 minutes, no protein were observed in the pellet for BsMinC and BsMinD alone. For the mixture of BsMinC and BsMinD with ATP, the ratio of MinC and MinD of the pellet is 1:1. The concentration of BsMinC and BsMinD is 10 μ M and ATP is 1 mM.