











N S	CBI	
BLAST Pu	abMed NucleotideProtein Genome Structure PopSet TaxonomyHelp	
	Escherichia coli K12, complete genome - 11996071249606	
The min system:	61 protein coding genes 🛛 🔍 Find Open Reading Frames	
MinC	Click on the rectangle to get BLAST neighbors for the gene of interest	
MinD	or click on the overview below to see a distant region	
	bli41.ymfl bli45 ymfL ymfR bli52 yofK yofR pin mer	
MinE	1199607 1201739 1203072 1206005 1200137 worff ycgl ycgl b1163 ycg2/wg8 b1169 b1169 b1169 cg2/wg8 b1169 b1169 cg	
	1209607 1211739 1213072 1216005 1218137 b1170 b1171 b1173 minD minC ycgJ ycgL ycgH hiyE	
	1219697 1221739 1223872 1226995 1228137 usuD unuC dabB nhaB fadR ycg8 dadR dadX b119	
	1229607 1231739 1233872 1236005 1238137	























































Open questions regarding Min oscillations



- MinE ring moving in reverse.
- Role of MinE dimerization
- Feedback between nuceloid and Min





Species	Annotation* or reference	Identified in this study
Aquifex aeolicus	minCD1, minD2	
Archaeoglobus fulgidus†	minD1, minD2	
Bacillus subtilis	minCD (divIVA)‡	
Borrelia burgdorferi	minD related genes: ylxH-1,-2, -3	
Chlamydia pneumoniae	minD	
Chlamydia trachomatis	minD	
Deinococcus radiodurans	minD, divIVA‡	minC
Escherichia coli	minCDE	
Haemophilus influenzae	Not present	
Helicobacter pylori	minCDE (Rothfield et al., 1999)	
Methanobacterium thermoautotrophicum†	minD (Rothfield et al., 1999)	
Methanococcus jannaschii†	minD1, minD2	
Mycobacterium tuberculosis	minD (Rothfield et al., 1999)	
Mycoplasma genitalum	Not present	
Mycoplasma pneumoniae	Not present	
Neisseria gonorrhoeae	minCDE§	minCDE
Neisseria meningitidis	minCDE	
Pyrococcus horikoshii†	minD	
Rickettsia prowazekii	Not present	
Synechocystis sp.	minCDE	
Thermotoga maritima	minCD	
Treponema pallidum	minD (Rothfield et al., 1999)	
Vibrio cholerae	minCDE	