

Table s1 : Predicted gene-TF regulating pairs in E.coli with an interaction score above an estimated threshold (>0.50).

Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes
appY	appB	arcA	pdhR	argR	hisP	cpxR	otsA
appY	appX	arcA	proM	argR	hisQ	cpxR	otsB
appY	hybA	arcA	rbsB	argR	mgIA	cpxR	pdxA
appY	hybB	arcA	rbsC	argR	nusA	cpxR	potI
appY	hybC	arcA	ruvC	argR	potF	cpxR	recJ
appY	hybD	arcA	sodB	argR	potG	cpxR	rfaC
appY	hybE	arcA	soxS	argR	potH	cpxR	rfaD
appY	hybF	arcA	tnaL	argR	potI	cpxR	rfaF
appY	hybG	arcA	trpT	argR	rpoH	cpxR	rfaL
arcA	aceA	arcA	ubiC	argR	yhcC	cpxR	rfbA
arcA	acnA	arcA	uvrA	argR	yhdW	cpxR	rfbB
arcA	acnB	arcA	uxaA	argR	yhdX	cpxR	rfbC
arcA	fadA	arcA	uxuA	argR	yhdY	cpxR	rfbD
arcA	fadB	arcA	xapA	argR	yhdZ	cpxR	rob
arcA	fxsA	arcA	ybcT	paaX	envZ	cpxR	rpoE
arcA	caiF	arcA	ybdN	caiF	appY	cpxR	rpoH
arcA	farR	arcA	ybgD	caiF	fumC	cpxR	rseB
arcA	fixA	arcA	ybgl	caiF	gadA	cpxR	rseC
arcA	fixB	arcA	ycjL	caiF	sdhA	cpxR	sdhA
arcA	fixC	arcA	ycjX	cpxR	adhE	cpxR	surA
arcA	fixX	arcA	ydiR	cpxR	alkA	cpxR	yaeS
arcA	gadB	arcA	ygbD	cpxR	apaG	cpxR	yciG
arcA	gatB	arcA	ygeF	cpxR	apaH	cpxR	ydjS
arcA	glnK	arcA	yhiE	cpxR	astB	cpxR	yehX
arcA	glpF	arcA	ytfQ	cpxR	astD	cpxR	yehY
arcA	glpT	argR	amtB	cpxR	astA	cpxR	yeiL
arcA	hemA	argR	argB	cpxR	cdsA	cpxR	yghD
arcA	hisR	argR	argC	cpxR	cfa	cpxR	yghE
arcA	hybO	argR	ddpD	cpxR	cpxA	cpxR	yohF
arcA	ibpA	argR	ddpC	cpxR	csgD	cpxR	yqjA
arcA	ibpB	argR	ddpB	cpxR	csgE	crp	appY
arcA	nagB	argR	ddpA	cpxR	dnaN	crp	emrA
arcA	nagC	argR	ddpX	cpxR	ecpD	crp	emrB
arcA	nagD	argR	fumB	cpxR	fabZ	crp	fabA
arcA	narG	argR	glnA	cpxR	gadB	crp	fdnI
arcA	narH	argR	glnG	cpxR	lacZ	crp	fimF
arcA	narI	argR	glnH	cpxR	lpxA	crp	fimI
arcA	narJ	argR	glnK	cpxR	mdoG	crp	fkIB
arcA	narK	argR	glnL	cpxR	mdoH	crp	fnr
arcA	nmpC	argR	glnP	cpxR	narV	crp	frdC
arcA	nrdH	argR	glnQ	cpxR	narW	crp	frdD
arcA	nrfA	argR	gltD	cpxR	narZ	crp	ftsQ

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Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes
arcA	nrfB	argR	hisJ	cpxR	nlpB	crp	ftsZ
arcA	osmY	argR	hisM	cpxR	osmB	crp	glmS
crp	ibpA	fhIA	moaA	fis	leuB	flhC	nadB
crp	ilvA	fhIA	moaB	fis	leuZ	flhD	cheA
crp	ilvE	fhIA	moaC	fis	lpdA	flhD	cheB
crp	kdsB	fhIA	moaD	fis	lysZ	flhD	cheR
crp	lexA	fhIA	moaE	fis	narI	flhD	cheW
crp	nadC	fhIA	modA	fis	nikA	flhD	cheY
crp	narI	fhIA	modB	fis	nupC	flhD	cheZ
crp	osmE	fhIA	modC	fis	nupG	flhD	flgK
crp	proV	fhIA	napA	fis	prpD	flhD	flgL
crp	recA	fhIA	napB	fis	putA	flhD	flgM
crp	sodB	fhIA	napC	fis	putP	flhD	flgN
crp	stpA	fhIA	napD	fis	rhaD	flhD	fliC
crp	sulA	fhIA	napF	fis	rhaR	flhD	fliD
crp	tehB	fhIA	napG	fis	rhaT	flhD	fliS
crp	uxuR	fhIA	napH	fis	rpsO	flhD	fliT
crp	xapA	fhIA	narL	fis	sbmC	flhD	hipA
crp	xapB	fhIA	narX	fis	sgaE	flhD	hipB
crp	ybhE	fhIA	pspA	fis	sgaT	flhD	motA
crp	ycdZ	fhIA	pspB	fis	sodB	flhD	motB
crp	yeiP	fhIA	rpoH	fis	yhcN	flhD	nadB
crp	yeiW	fhIA	sodA	fis	yheA	flhD	narG
crp	yhdU	fhIA	sucA	fis	yjdE	flhD	nuoL
crp	yhiD	fhIA	sucC	fis	zntA	flhD	nupC
crp	yhiW	fhIA	sucD	fis	zwf	flhD	sgaE
crp	yieE	fis	acrR	flhC	cheA	flhD	sgaH
crp	ynhC	fis	ahpC	flhC	cheB	flhD	sgaT
crp	yqeK	fis	ahpF	flhC	cheR	flhD	sgaU
crp	zapB	fis	argD	flhC	cheW	flhD	sucA
fhIA	atoA	fis	argR	flhC	cheY	flhD	tap
fhIA	atoC	fis	arsC	flhC	cheZ	fliA	flgA
fhIA	atoD	fis	cyoA	flhC	fliC	fliA	flgK
fhIA	atoE	fis	cyoB	flhC	fliD	fliA	flgM
fhIA	ddpD	fis	cyoC	flhC	fliS	fliA	flgN
fhIA	ddpC	fis	cynR	flhC	fliT	fliA	flhC
fhIA	ddpB	fis	cynS	flhC	glpA	fliA	fliC
fhIA	ddpX	fis	cynX	flhC	glpB	fliA	glpA
fhIA	norV	fis	cyoA	flhC	glpC	fliA	glpB
fhIA	exbD	fis	fpr	flhC	mcrB	fliA	glpC
fhIA	fecl	fis	fruB	flhC	mdh	fliA	glpD
fhIA	fhIA	fis	gadB	flhC	mgIA	fliA	hipA

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Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes
fhlA	hisP	fis	gadC	flhC	mgIB	fliA	hipB
fhlA	hydG	fis	gadX	flhC	mgIC	fliA	mdh
fhlA	hydH	fis	ilvB	flhC	motA	fliA	mgIA
fhlA	ibpB	fis	ilvY	flhC	motB	fliA	mgIB
fliA	mgIC	fnr	nrdH	cra	yhiX	fur	hyfH
fliA	nadB	fnr	puuA	fur	aceA	fur	hyfI
fliA	nrfA	fnr	puuP	fur	aceB	fur	hypB
fliA	nrfB	fnr	rhsB	fur	cydA	fur	hypC
fliA	nrfC	fnr	sbmC	fur	cydB	fur	hypD
fliA	nrfD	fnr	soxR	fur	cyoA	fur	hypE
fliA	nrfE	fnr	soxS	fur	cyoB	fur	ilvC
fliA	nrfF	fnr	torD	fur	cyoC	fur	inaA
fliA	nrfG	fnr	xapB	fur	cyoD	fur	lexA
fliA	nupC	fnr	yebL	fur	cyoE	fur	lysA
fnr	aceA	fnr	ygeA	fur	cysD	fur	lysR
fnr	aceB	fnr	zwf	fur	cysK	fur	marA
fnr	aceK	cra	abrB	fur	dam	fur	marB
fnr	acrB	cra	acnB	fur	dsdC	fur	marR
fnr	csgA	cra	cadA	fur	fadB	fur	mdaA
fnr	csgB	cra	cadB	fur	fixX	fur	mukB
fnr	csgF	cra	caiF	fur	fldB	fur	mukE
fnr	csgG	cra	csiE	fur	folK	fur	mukF
fnr	dctA	cra	csgD	fur	fpr	fur	nadB
fnr	dsbA	cra	csgE	fur	ftsA	fur	nfo
fnr	fadB	cra	evgA	fur	ftsZ	fur	nhaA
fnr	fadL	cra	fis	fur	fumA	fur	nrdD
fnr	fdhF	cra	flhC	fur	fumC	fur	nrdG
fnr	fecD	cra	flhD	fur	gadA	fur	phnC
fnr	fecE	cra	fliA	fur	gadB	fur	phnD
fnr	fhuA	cra	fliZ	fur	gatA	fur	phnE
fnr	fis	cra	gadA	fur	gatB	fur	phnG
fnr	fixB	cra	gltT	fur	gatC	fur	phnI
fnr	galE	cra	hdeA	fur	gatR	fur	phnJ
fnr	galM	cra	hdeB	fur	hemA	fur	phnK
fnr	gapC	cra	hdeD	fur	hfq	fur	phnL
fnr	gltP	cra	hlyE	fur	hns	fur	phnN
fnr	gyrA	cra	hns	fur	hycA	fur	phnO
fnr	himA	cra	mukB	fur	hycC	fur	phnP
fnr	hybA	cra	mukE	fur	hycD	fur	phoA
fnr	hybB	cra	mukF	fur	hycF	fur	phoB
fnr	hybC	cra	prpC	fur	hycH	fur	phoE
fnr	hybD	cra	prpD	fur	hyfA	fur	phoR

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Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes
fnr	hybE	cra	proX	fur	hyfB	fur	proV
fnr	hybF	cra	rcaA	fur	hyfC	fur	proW
fnr	hybG	cra	rrfB	fur	hyfD	fur	proX
fnr	hydN	cra	smtA	fur	hyfE	fur	psiF
fnr	hypA	cra	sodB	fur	hyfF	fur	pstC
fnr	hypF	cra	yheB	fur	hyfG	fur	pstS
fur	pykF	glnG	hyfG	hns	fruA	hns	yhiD
fur	pyrB	glnG	hyfH	hns	fruB	hns	yhjX
fur	pyrC	glnG	hyfI	hns	fruK	hns	ymfN
fur	rcaA	glnG	hypA	hns	ftsA	hycA	dmsA
fur	recG	glnG	hypB	hns	fucP	hycA	dmsB
fur	rimK	glnG	hypC	hns	fucR	hycA	dmsC
fur	slp	glnG	hypD	hns	fur	hycA	hyfA
fur	smtA	glnG	hypE	hns	gadB	hycA	hyfB
fur	sulA	glnG	hypF	hns	glnK	hycA	hyfC
fur	tpx	glnG	nusA	hns	gltD	hycA	hyfD
fur	trpD	glnL	hisJ	hns	gltF	hycA	hyfE
fur	trpL	glnL	hisM	hns	hypB	hycA	hyfF
fur	ubiA	glnL	hisP	hns	hypE	hycA	hyfG
fur	ubiC	glnL	hisQ	hns	idnK	hycA	hyfH
fur	uvrA	glnL	yhdW	hns	ilvD	hycA	hyfI
fur	wcaA	glnL	yhdX	hns	ilvG	hycA	modA
fur	wcaB	glnL	yhdZ	hns	ilvI	hycA	modB
fur	wza	himA	flhD	hns	ilvL	hycA	modC
fur	wzb	himA	malI	hns	ilvM	hycA	yjbO
fur	yaiV	himA	malX	hns	kdpA	hyfR	aceE
fur	ybdZ	himA	rtcA	hns	kdpB	hyfR	aceF
fur	ybjN	himA	rtcB	hns	kdpC	hyfR	hycA
fur	yheB	himA	yjdA	hns	lacA	hyfR	hycB
fur	zwf	hns	aceA	hns	leuB	hyfR	hycC
glnG	argB	hns	aceB	hns	livJ	hyfR	hycD
glnG	argC	hns	aceK	hns	livK	hyfR	hycE
glnG	argD	hns	adhE	hns	lysU	hyfR	hycF
glnG	argE	hns	aidB	hns	mtlA	hyfR	hycG
glnG	argF	hns	amtB	hns	mtlD	hyfR	hycH
glnG	argG	hns	aroA	hns	mtlR	hyfR	hydN
glnG	atoA	hns	yliE	hns	narH	hyfR	moaA
glnG	atoC	hns	xisE	hns	nrdE	hyfR	moaB
glnG	atoD	hns	wzc	hns	nupC	hyfR	moaC
glnG	atoE	hns	cadC	hns	nupG	hyfR	moaD
glnG	carA	hns	clpX	hns	ompC	hyfR	moaE
glnG	carB	hns	entA	hns	oppA	hyfR	narL

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glnG	codB	hns	entB	hns	oppC	hyfR	narX
glnG	cysM	hns	entD	hns	oppD	hyfR	pdhR
glnG	hyfA	hns	epd	hns	osmY	hyfR	sdhA
glnG	hyfB	hns	fabA	hns	serA	hyfR	sdhB
glnG	hyfC	hns	fadD	hns	serC	hyfR	sdhC
glnG	hyfD	hns	fepD	hns	yahO	hyfR	sdhD
glnG	hyfE	hns	fhuB	hns	ybdB	lrp	ahpC
glnG	hyfF	hns	fis	hns	yhaO	lrp	ahpF
lrp	cadB	marA	galM	modE	hyaF	narL	appY
lrp	caiF	marA	galT	modE	hybE	narL	arcA
lrp	codA	marA	rimK	modE	hyfA	narL	cadA
lrp	codB	marA	ybjC	modE	hyfB	narL	carA
lrp	csiE	marA	ybjN	modE	hyfC	narL	cydA
lrp	dnaA	marR	acnA	modE	hyfD	narL	cydB
lrp	dnaN	marR	acrA	modE	hyfE	narL	cyoA
lrp	dnaT	marR	acrB	modE	hyfF	narL	cyoB
lrp	dppA	marR	aslB	modE	hyfG	narL	cyoC
lrp	fucO	marR	fldA	modE	hyfH	narL	cyoD
lrp	fucP	marR	fldB	modE	hyfI	narL	cyoE
lrp	fucR	marR	fur	modE	hypA	narL	dcuC
lrp	glnB	marR	galE	modE	hypB	narL	fliY
lrp	glpB	marR	galK	modE	hypC	narL	fnr
lrp	glpC	marR	galM	modE	hypD	narL	fumA
lrp	glpD	marR	galT	modE	hypE	narL	glcB
lrp	glpF	marR	inaA	modE	hypF	narL	glcD
lrp	gltA	marR	pqiA	modE	narH	narL	glcF
lrp	glyA	marR	pqiB	modE	narI	narL	glcG
lrp	guaA	marR	putA	modE	narJ	narL	glnA
lrp	guaB	marR	rimK	modE	narK	narL	glnP
lrp	mukB	marR	soxS	modE	nirB	narL	glpA
lrp	mukE	marR	ybaO	modE	nirC	narL	glpB
lrp	proV	marR	ybiS	modE	nirD	narL	glpC
lrp	proW	marR	ybjC	modE	nrfA	narL	glpQ
lrp	proX	marR	ybjN	modE	nrfB	narL	glpT
lrp	purB	modE	cydC	modE	nrfC	narL	moaA
lrp	sodB	modE	cydD	modE	nrfD	narL	moaB
lrp	speA	modE	cysG	modE	nrfE	narL	moaC
lrp	speB	modE	fdhF	modE	nrfF	narL	moaD
lrp	yiaM	modE	fdnG	modE	nrfG	narL	moaE
lrp	yiaO	modE	fdnH	modE	torA	narL	modA
lrp	yiiM	modE	fdnI	modE	torC	narL	modB
lysR	sgaE	modE	focA	modE	torD	narL	modC

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Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes
lysR	sgaH	modE	frdA	nac	csiD	narL	narX
lysR	sgaT	modE	frdB	nac	fimA	narL	ndh
lysR	sgaU	modE	frdC	nac	fimC	narL	nikB
marA	aceB	modE	frdD	nac	fimE	narL	nikC
marA	acnA	modE	fumB	nac	fimF	narL	nikD
marA	fldA	modE	hyaA	nac	fimG	narL	nrdA
marA	fldB	modE	hyaB	nac	osmC	narL	nrdD
marA	fur	modE	hyaC	narL	appA	narL	nrdG
marA	galE	modE	hyaD	narL	appB	narL	sbmC
marA	galK	modE	hyaE	narL	appC	narL	sdhA
narL	sdhB	narP	moaD	purR	dadX	rcsA	hdeD
narL	sdhC	narP	moaE	purR	gltB	rcsA	hns
narL	sdhD	narP	modA	purR	gltD	rcsA	mukB
narL	sodA	narP	modB	purR	gltF	rcsA	mukE
narL	sodB	narP	modC	purR	ilvA	rcsA	mukF
narL	sucA	narP	moeA	purR	ilvD	rcsA	nhaA
narL	sucB	narP	moeB	purR	ilvE	rcsA	proV
narL	sucC	narP	narG	purR	ilvG	rcsA	proW
narL	sucD	narP	narH	purR	ilvH	rcsA	proX
narP	caiF	narP	narI	purR	ilvI	rcsA	smtA
narP	cydC	narP	narJ	purR	ilvM	rcsA	yheB
narP	cydD	narP	narK	purR	leuA	rcsA	yhiX
narP	dcuB	narP	narL	purR	leuB	rcsB	cadA
narP	dmsA	narP	narX	purR	leuC	rcsB	hdeA
narP	dmsB	narP	nirC	purR	leuD	rcsB	hdeB
narP	dmsC	narP	nirD	purR	leuL	rcsB	proV
narP	fdhF	narP	nuoA	purR	livF	rob	acnA
narP	fdnG	narP	nuoB	purR	livG	rob	acrA
narP	fdnH	narP	nuoC	purR	livH	rob	acrB
narP	fdnI	narP	nuoE	purR	livJ	rob	fldA
narP	frdA	narP	nuoF	purR	livK	rob	fldB
narP	frdB	narP	nuoG	purR	livM	rob	fpr
narP	frdC	narP	nuoH	purR	lrp	rob	fur
narP	frdD	narP	nuoI	purR	ompC	rob	mdaA
narP	fumB	narP	nuoJ	purR	ompF	rob	pqiA
narP	hybA	narP	nuoK	purR	oppA	rob	pqiB
narP	hybB	narP	nuoL	purR	oppB	rob	putA
narP	hybC	narP	nuoM	purR	oppC	rob	rimK
narP	hybD	narP	nuoN	purR	oppD	rob	slp
narP	hybE	narP	pflB	purR	oppF	rob	soxS
narP	hybF	narP	recF	purR	sdaA	rob	ybjC
narP	hybG	narP	torA	purR	serA	rob	ybjN

Table s1 : Predicted gene-TF regulating pairs in E.coli with an interaction score above an estimated threshold (>0.50).

Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes
narP	hycA	narP	torC	purR	ydjS	rpoD	appA
narP	hycB	narP	torD	purR	yeiL	rpoD	appB
narP	hycC	narP	xapA	rcsA	adiA	rpoD	appC
narP	hycD	phoB	ecpD	rcsA	cadA	rpoD	entS
narP	hycE	phoB	entB	rcsA	cadB	rpoD	hlyE
narP	hycF	phoB	htrE	rcsA	cydA	rpoD	hupA
narP	hycG	phoB	pyrC	rcsA	cydB	rpoD	maoC
narP	hycH	phoB	ubiC	rcsA	evgA	rpoD	mdaB
narP	lacZ	pspF	glnP	rcsA	fliA	rpoD	mdlB
narP	moaA	purR	argB	rcsA	gadA	rpoD	metK
narP	moaB	purR	astB	rcsA	hdeA	rpoD	moaA
narP	moaC	purR	dadA	rcsA	hdeB	rpoD	nrdD
rpoD	nrdE	rpoH	pdxA	rpoS	alaW	soxS	putA
rpoD	nrdF	rpoH	potI	rpoS	cheA	soxS	rbsD
rpoD	nrdH	rpoH	purA	rpoS	cheW	soxS	ybaO
rpoD	nrdI	rpoH	recJ	rpoS	cmr	soxS	ybiS
rpoD	yhiE	rpoH	rfbA	rpoS	crr	soxS	yfhD
rpoD	yhjO	rpoH	rfbB	rpoS	csgA	tdcA	acs
rpoD	yqjH	rpoH	rfbC	rpoS	csgB	tdcA	agaB
rpoD	yrfH	rpoH	rfbD	rpoS	cspl	tdcA	ptxA
rpoE	acrA	rpoH	rpoE	rpoS	dctA	tdcA	sgaE
rpoE	acrB	rpoH	rpoH	rpoS	dinI	tdcA	sgaH
rpoE	cpxP	rpoH	rseA	rpoS	dinP	tdcA	sgaT
rpoE	cheA	rpoH	rseB	rpoS	fixB	tdcA	sgaU
rpoE	cheW	rpoH	rseC	rpoS	fixC	tdcA	yeiL
rpoE	cpxA	rpoH	surA	rpoS	fixX	tdcR	acs
rpoE	cpxR	rpoH	xerD	rpoS	fldA	tdcR	agaB
rpoE	csgA	rpoN	adiA	rpoS	fldB	tdcR	ptxA
rpoE	csgB	rpoN	araF	rpoS	fliD	tdcR	sgaE
rpoE	csgD	rpoN	argB	rpoS	leuB	tdcR	sgaH
rpoE	csgE	rpoN	argC	rpoS	leuC	tdcR	sgaT
rpoE	csgF	rpoN	argE	rpoS	leuD	tdcR	sgaU
rpoE	csgG	rpoN	argG	rpoS	napC	tdcR	yeiL
rpoE	cspF	rpoN	argH	rpoS	napF	ygaE	fimA
rpoE	cyoE	rpoN	argI	rpoS	napG	ygaE	fimC
rpoE	emrA	rpoN	carA	rpoS	napH	ygaE	fimD
rpoE	emrB	rpoN	carB	rpoS	nfo	ygaE	fimE
rpoE	emrR	rpoN	hdeD	rpoS	nmpC	ygaE	fimF
rpoE	fruB	rpoN	himD	rpoS	nrdB	ygaE	fimG
rpoE	fruK	rpoN	hipA	rpoS	ompC	ygaE	fimI
rpoE	ftsJ	rpoN	holD	rpoS	ompF	ygaE	gadA
rpoE	hslU	rpoN	moaA	rpoS	sodA	ygaE	osmC

Table s1 : Predicted gene-TF regulating pairs in E.coli with an interaction score above an estimated threshold (>0.50).

Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes	Transcription Factors	Target Genes
rpoE	hslV	rpoN	moaB	rpoS	ybaO	ygaE	stpA
rpoE	htpX	rpoN	moaC	rpoS	ybjC	ygaE	yhiX
rpoE	ibpA	rpoN	moaD	rpoS	yfhD	yhiX	adiA
rpoE	ibpB	rpoN	moaE	rpoS	yghK	yhiX	csiD
rpoE	kdpA	rpoN	modC	soxS	aceA	yhiX	bglG
rpoE	kdpB	rpoN	potF	soxS	aceB	yhiX	bolA
rpoE	rpoD	rpoN	potG	soxS	ahpC	yhiX	caiF
rpoE	soxS	rpoN	potH	soxS	aslB	yhiX	csiE
rpoH	apaG	rpoN	potI	soxS	galE	yhiX	cydA
rpoH	apaH	rpoN	yfhD	soxS	galK	yhiX	cydB
rpoH	cdsA	rpoN	yfhO	soxS	galM	yhiX	cysG
rpoH	cutC	rpoN	yhbC	soxS	galT	yhiX	evgA
rpoH	dapA	rpoN	yiaK	soxS	mdlA	yhiX	fimA
rpoH	fabZ	rpoN	ylaC	soxS	oxyR	yhiX	fimC
yhiX	fimE	yhiX	gabT	yhiX	osmC	yiaJ	ydbS
yhiX	fimI	yhiX	gltT	yhiX	proV	yiaJ	ydbU
yhiX	flhC	yhiX	mukB	yhiX	proW	yjfQ	tdcB
yhiX	flhD	yhiX	mukE	yhiX	proX	yjfQ	tdcC
yhiX	fliA	yhiX	mukF	yhiX	stpA	yjfQ	tdcD
yhiX	fliY	yhiX	nhaA	yhiX	ygaF	yjfQ	tdcE
yhiX	fliZ	yhiX	nirB	yhiX	yheB		
yhiX	gabD	yhiX	nirC	yiaJ	ydbO		
yhiX	gabP	yhiX	nirD	yiaJ	ydbP		