

List S1. *E. coli* transcriptional regulatory network hierarchy. Gene names and their position in the hierarchy are listed.

mtlR = bottom
lldR = bottom
fecI = bottom
hycA = bottom
yeiL = bottom
malT = bottom
treR = bottom
iclR = bottom
caiF = bottom
fliA = bottom
rcsA = bottom
cbl = bottom
nikR = bottom
putA = bottom
asnC = bottom
appY = bottom
galS = bottom
atoC = bottom
rtcR = bottom
hupB = bottom
hupA = bottom
araC = bottom
nagC = bottom
malI = bottom
fucR = bottom
glpR = bottom
yiaJ = bottom
melR = bottom
idnR = bottom
csgD = bottom
metR = bottom
uidR = bottom
betI = bottom
rpoD = bottom
acrR = bottom
ada = bottom

adiY = bottom
alpA = bottom
argR = bottom
arsR = bottom
birA = bottom
cadC = bottom
csiR = bottom
cusR = bottom
cynR = bottom
dcuR = bottom
deoR = bottom
ebgR = bottom
envY = bottom
putA = bottom
evgA = bottom
gcvA = bottom
gcvR = bottom
glcC = bottom
hcaR = bottom
hipB = bottom
hyfR = bottom
ilvY = bottom
iscR = bottom
kdpE = bottom
lacI = bottom
leuO = bottom
lexA = bottom
mhpR = bottom
mngR = bottom
mprA = bottom
nadR = bottom
narP = bottom
nhaR = bottom
norR = bottom
paaX = bottom
phoB = bottom
pspF = bottom

purR = bottom
rbsR = bottom
rpiR = bottom
sdiA = bottom
slyA = bottom
torR = bottom
trpR = bottom
tyrR = bottom
uhpA = bottom
xapR = bottom
xylR = bottom
zntR = bottom
zraR = bottom
zur = bottom
fruR = first
fis = first
crp = first
pdhR = first
arcA = first
fur = first
modE = first
fhlA = first
rpoN = first
lrp = first
fnr = first
dgsA = first
phoP = first
fadR = first
narL = first
hns = first
flhC = first
flhD = first
resB = first
gadE = first
cysB = first
glnG = first

marA = first
nac = first
rpoS = first
galR = first
ompR = first
cpxR = first
metJ = first
uxuR = first
rpoH = first
DUMMY = first
gadX = first
tdcA = first
marR = first
rpoE = first
gutM = first
srhR = first
rhaS = first
rhaR = first
oxyR = first
cspA = two
feaR = two
lrhA = two
dsdC = two
lysR = two
exuR = two
tdcR = two
gntR = two
gadW = two
dnaA = two
cytR = two
soxS = two
rob = two
feaB = two
cspE = three
soxR = three

List S2. Yeast transcriptional regulatory network hierarchy. Gene names and their position in the hierarchy are listed.

YAR007C = bottom	YHL009C = bottom	YOR047C = bottom	YCR097W = first
YBL008W = bottom	YHL024W = bottom	YOR127W = bottom	YHR006W = first
YBL093C = bottom	YHL025W = bottom	YOR140W = bottom	YOR038C = first
YBR066C = bottom	YHR124W = bottom	YOR162C = bottom	YFL031W = first
YBR081C = bottom	YHR178W = bottom	YOR194C = bottom	YHR119W = first
YBR089CA = bottom	YIL036W = bottom	YOR230W = bottom	YKL112W = first
YBR193C = bottom	YIL038C = bottom	YOR298CA = bottom	YER111C = first
YBR240C = bottom	YIL084C = bottom	YOR363C = bottom	YGL096W = first
YBR297W = bottom	YIL119C = bottom	YOR380W = bottom	YLR182W = first
YCL055W = bottom	YIL128W = bottom	YPL075W = bottom	YML027W = first
YCR018C = bottom	YIR017C = bottom	YPL133C = bottom	YNL068C = first
YCR066W = bottom	YIR023W = bottom	YPL139C = bottom	YNL309W = first
YCR093W = bottom	YIR033W = bottom	YPL181W = bottom	YPL038W = first
YCR094W = bottom	YJL089W = bottom	YPL187W = bottom	YFL044C = first
YCR106W = bottom	YJL206C = bottom	YPL202C = bottom	YLR176C = first
YDL005C = bottom	YKL015W = bottom	YPL230W = bottom	YKL038W = first
YDL020C = bottom	YKL028W = bottom	YPL256C = bottom	YOR028C = first
YDL048C = bottom	YKL058W = bottom	YPR008W = bottom	YDR043C = first
YDL080C = bottom	YKR029C = bottom	YPR023C = bottom	YDR259C = first
YDL165W = bottom	YKR036C = bottom	YPR054W = bottom	YKL043W = first
YDL170W = bottom	YKR062W = bottom	YPR094W = bottom	YBR049C = first
YDR005C = bottom	YKR099W = bottom	YPR133C = bottom	YCL066W = first
YDR026C = bottom	YLL028W = bottom	YPR168W = bottom	YCR040W = first
YDR034C = bottom	YLR014C = bottom	YPR199C = bottom	YMR043W = first
YDR081C = bottom	YLR055C = bottom	DUMMY2 = first	YPL016W = first
YDR096W = bottom	YLR098C = bottom	YDL056W = first	YBL021C = first
YDR103W = bottom	YLR113W = bottom	YDR451C = first	YOR344C = first
YDR213W = bottom	YLR136C = bottom	YER088C = first	YJR147W = first
YDR217C = bottom	YLR228C = bottom	YDR423C = first	YDR207C = first
YDR303C = bottom	YLR357W = bottom	YML010W = first	YJR094C = first
YDR308C = bottom	YLR418C = bottom	YCR065W = first	YOR372C = first
YDR392W = bottom	YML076C = bottom	YLR183C = first	YGL162W = first
YDR443C = bottom	YML099C = bottom	YNL216W = first	YKL032C = first
YDR463W = bottom	YMR019W = bottom	YPR104C = first	YPL177C = first
YDR477W = bottom	YMR030W = bottom	YHR206W = first	YPR065W = first
YDR501W = bottom	YMR037C = bottom	DUMMY = first	YDR146C = first
YDR520C = bottom	YMR042W = bottom	YJR060W = first	YIR018W = first
YER022W = bottom	YMR053C = bottom	YPR052C = first	YDR253C = first
YER028C = bottom	YMR075W = bottom	YNR010W = first	YNL103W = first
YER045C = bottom	YMR125W = bottom	YHR084W = first	YMR280C = first
YER068W = bottom	YMR164C = bottom	YPL049C = first	YKL109W = first
YER109C = bottom	YMR179W = bottom	YBR083W = first	YGR044C = first
YER161C = bottom	YMR182C = bottom	YFR034C = first	YOL067C = first
YER169W = bottom	YMR284W = bottom	YIL131C = first	YGR097W = first
YFL028C = bottom	YNL025C = bottom	YIL122W = first	YOL089C = first
YGL025C = bottom	YNL097C = bottom	YLR442C = first	YMR021C = first
YGL043W = bottom	YNL139C = bottom	YNL027W = first	YPL190C = first
YGL071W = bottom	YNL167C = bottom	YPL248C = first	YBR182C = first
YGL089C = bottom	YNL199C = bottom	YBL005W = first	YLR451W = first
YGL133W = bottom	YNL222W = bottom	YGL013C = first	YML081W = first
YGL151W = bottom	YNL250W = bottom	YGL073W = first	YOR358W = first
YGL166W = bottom	YNL251C = bottom	YML007W = first	YPL089C = first
YGL181W = bottom	YNL288W = bottom	YBR279W = first	YGL131C = first
YGL192W = bottom	YNL312W = bottom	YMR016C = first	YLR403W = first
YGL237C = bottom	YNL314W = bottom	YEL009C = first	YGL254W = first
YGR056W = bottom	YOL012C = bottom	YER040W = first	YLR131C = first
YGR063C = bottom	YOL068C = bottom	YGR040W = first	YDR123C = first
YGR134W = bottom	YOL116W = bottom	YKL185W = first	YAL051W = first
YGR249W = bottom	YOR032C = bottom	YCL067C = first	YDR216W = first
YGR288W = bottom	YOR043W = bottom	YCR084C = first	YDR310C = first

YBR289W = first
YOL051W = first
YAL040C = first
YER167W = first
YGL207W = first
YJL157C = first
YMR199W = first
YOR113W = first
YAL020C = first
YIL101C = first
YBL103C = first
YBR112C = first

YHL027W = first
YBR202W = first
YLR013W = first
YCR096C = first
YDR227W = first
YDL106C = first
YDR138W = first
YGL209W = first
YOL004W = first
YJL176C = first
YLR399C = first
YOL148C = first

YKR034W = first
YJL168C = first
YJR127C = first
YLR256W = first
YKL062W = first
YBL071WA = two
YJR007W = two
YIL154C = two
YDR421W = two
YJL056C = two
YOL001W = two
YDL042C = two

YHL020C = two
YGL035C = two
YPL254W = two
YPR072W = two
YDR176W = three
YDR448W = three
YJR140C = three
YKL020C = three
YML113W = three
YFL021W = three
YJL110C = three
YMR070W = three

List S3. *E. coli* transcriptional regulatory network. The regulator is followed by the target. The last column lists the type of regulation: "+" for positive, "-" for negative and "+-" for dual regulation. The data were obtained from RegulonDB (as of July 2009) (S. Gama-Castro *et al.*, *Nucleic Acids Res* **36**, D120, 2008).

AcrR	acrA	-	AraC	araG	+	ArcA	gatD	-	ArcA	prfA	+
AcrR	acrB	-	AraC	araH	+	ArcA	gatY	-	ArcA	prmC	+
AcrR	acrR	-	AraC	araJ	+	ArcA	gatZ	-	ArcA	ptsG	-
Ada	ada	+ -	ArcA	Phantom Gene		ArcA	glcA	-	ArcA	rhaT	-
Ada	aidB	+			+ -	ArcA	glcB	-	ArcA	rplB	-
Ada	alkA	+	ArcA	aceA	-	ArcA	glcD	-	ArcA	rplC	-
Ada	alkB	+ -	ArcA	aceB	-	ArcA	glcE	-	ArcA	rplD	-
AdiY	adiA	+	ArcA	aceE	-	ArcA	glcF	-	ArcA	rplP	-
AgaR	agaA	-	ArcA	aceF	-	ArcA	glcG	-	ArcA	rplV	-
AgaR	agaB	-	ArcA	aceK	-	ArcA	glpA	-	ArcA	rplW	-
AgaR	agaC	-	ArcA	ackA	+	ArcA	glpB	-	ArcA	rpmC	-
AgaR	agaD	-	ArcA	acnA	-	ArcA	glpC	-	ArcA	rpoS	-
AgaR	agaI	-	ArcA	acnB	-	ArcA	glpD	-	ArcA	rpsC	-
AgaR	agaR	-	ArcA	aldA	-	ArcA	gltA	-	ArcA	rpsJ	-
AgaR	agaS	-	ArcA	appA	+	ArcA	hemaA	+	ArcA	rpsQ	-
AgaR	agaV	-	ArcA	appB	+	ArcA	hyaA	+	ArcA	rpsS	-
AgaR	agaW	-	ArcA	appC	+	ArcA	hyaB	+	ArcA	rutA	+
AgaR	kbaY	-	ArcA	betA	-	ArcA	hyaC	+	ArcA	rutB	+
AgaR	kbaZ	-	ArcA	betB	-	ArcA	hyaD	+	ArcA	rutC	+
AlaS	alaS	-	ArcA	betI	-	ArcA	hyaE	+	ArcA	rutD	+
AllR	allA	-	ArcA	betT	-	ArcA	hyaF	+	ArcA	rutE	+
AllR	allB	-	ArcA	cadA	-	ArcA	hybA	-	ArcA	rutF	+
AllR	allS	-	ArcA	cadB	-	ArcA	hybB	-	ArcA	rutG	+
AllR	gcl	-	ArcA	caiA	+	ArcA	hybC	-	ArcA	sdhA	+ -
AllR	glxK	-	ArcA	caiB	+	ArcA	hybD	-	ArcA	sdhB	+ -
AllR	glxR	-	ArcA	caiC	+	ArcA	hybE	-	ArcA	sdhC	+ -
AllR	hyi	-	ArcA	caiD	+	ArcA	hybF	-	ArcA	sdhD	+ -
AllR	ybbV	-	ArcA	caiE	+	ArcA	hybG	-	ArcA	sodA	-
AllR	ybbW	-	ArcA	caiT	+	ArcA	hybO	-	ArcA	ssb	-
AllR	ybbY	-	ArcA	cydA	+	ArcA	icd	-	ArcA	sucA	+ -
AllS	allC	+	ArcA	cydB	+	ArcA	lldD	-	ArcA	sucB	+ -
AllS	allD	+	ArcA	cydC	+	ArcA	lldP	-	ArcA	sucC	+ -
AllS	ylbA	+	ArcA	cydD	+	ArcA	lldR	-	ArcA	sucD	+ -
AlpA	dctR	+	ArcA	cyoA	-	ArcA	lpd	-	ArcA	tpx	-
AlpA	slp	+	ArcA	cyoB	-	ArcA	mdh	-	ArcA	treB	+
AlsR	alsA	-	ArcA	cyoC	-	ArcA	moeA	+	ArcA	treC	+
AlsR	alsB	-	ArcA	cyoD	-	ArcA	moeB	+	ArcA	ubiA	-
AlsR	alsC	-	ArcA	cyoE	-	ArcA	ndh	+	ArcA	ubiC	-
AlsR	alsE	-	ArcA	dctA	-	ArcA	nuoA	-	ArcA	uvrA	-
AlsR	rpiB	-	ArcA	dcuC	+	ArcA	nuoB	-	ArcA	xylR	+
AlsR	rpiR	-	ArcA	fadA	-	ArcA	nuoC	-	ArcA	yccB	+
AppY	appA	+	ArcA	fadB	-	ArcA	nuoE	-	ArcA	ydeA	-
AppY	appB	+	ArcA	fadD	-	ArcA	nuoF	-	ArcA	yfiD	+
AppY	appC	+	ArcA	fadE	-	ArcA	nuoG	-	ArgP	dnaA	+
AppY	hyaA	+	ArcA	fadI	-	ArcA	nuoH	-	ArgP	dnaN	+
AppY	hyaB	+	ArcA	fadJ	-	ArcA	nuoI	-	ArgP	nrdA	+
AppY	hyaC	+	ArcA	fadL	-	ArcA	nuoJ	-	ArgP	nrdB	+
AppY	hyaD	+	ArcA	fnr	-	ArcA	nuoK	-	ArgP	recF	+
AppY	hyaE	+	ArcA	focA	+ -	ArcA	nuoL	-	ArgR	argA	-
AppY	hyaF	+	ArcA	fumA	-	ArcA	nuoM	-	ArgR	argB	-
AppY	yccB	+	ArcA	fumB	+	ArcA	nuoN	-	ArgR	argC	-
AraC	araA	+ -	ArcA	fumC	-	ArcA	oppA	-	ArgR	argD	-
AraC	araB	+ -	ArcA	gadA	+	ArcA	oppB	-	ArgR	argE	-
AraC	araC	+ -	ArcA	gadX	+	ArcA	oppC	-	ArgR	argF	-
AraC	araD	+ -	ArcA	gatA	-	ArcA	oppD	-	ArgR	argG	-
AraC	araE	+	ArcA	gatB	-	ArcA	oppF	-	ArgR	argH	-
AraC	araF	+	ArcA	gatC	-	ArcA	pflB	+ -	ArgR	argI	-

ArgR	argR	-	CRP	Phantom Gene	CRP	cyoA	+	CRP	gabD	+	
ArgR	artI	-		+	CRP	cyoB	+	CRP	gabP	+	
ArgR	artJ	-	CRP	aceA	-	CRP	cyoC	+	CRP	gabT	+
ArgR	artM	-	CRP	aceB	-	CRP	cyoD	+	CRP	gadA	-
ArgR	artP	-	CRP	aceE	+	CRP	cyoE	+	CRP	gadB	-
ArgR	artQ	-	CRP	aceF	+	CRP	cysG	-	CRP	gadC	-
ArgR	astA	+	CRP	aceK	-	CRP	cytR	+	CRP	gadE	-
ArgR	astB	+	CRP	acnA	+	CRP	dadA	+-	CRP	gadX	-
ArgR	astC	+	CRP	acnB	+	CRP	dadX	+-	CRP	galE	+-
ArgR	astD	+	CRP	acs	+	CRP	dctA	+	CRP	galK	+-
ArgR	astE	+	CRP	actP	+	CRP	dcuA	+	CRP	galM	+-
ArgR	carA	-	CRP	aer	+	CRP	dcuB	+	CRP	galP	+
ArgR	carB	-	CRP	agaA	+	CRP	dcuR	+	CRP	galS	+
ArgR	gltB	-	CRP	agaV	+	CRP	deoA	+-	CRP	galT	+-
ArgR	gltD	-	CRP	agaW	+	CRP	deoB	+-	CRP	gapA	+
ArgR	gltF	-	CRP	agp	+	CRP	deoC	+-	CRP	gatA	+
ArgR	hisJ	-	CRP	aldA	+	CRP	deoD	+-	CRP	gatB	+
ArgR	hisM	-	CRP	aldB	+	CRP	dgsA	+-	CRP	gatC	+
ArgR	hisP	-	CRP	ansB	+	CRP	dsdA	+	CRP	gatD	+
ArgR	hisQ	-	CRP	araA	+	CRP	dsdX	+	CRP	gatY	+
ArgR	infB	-	CRP	araB	+	CRP	dusB	+-	CRP	gatZ	+
ArgR	metY	-	CRP	araC	+	CRP	ebgA	+	CRP	gcd	-
ArgR	nusA	-	CRP	araD	+	CRP	ebgC	+	CRP	gdhA	-
ArgR	pnp	-	CRP	araE	+	CRP	entA	+	CRP	glcC	+
ArgR	rbfA	-	CRP	araF	+	CRP	entB	+	CRP	glgA	+
ArgR	rpsO	-	CRP	araG	+	CRP	entC	+	CRP	glgC	+
ArgR	truB	-	CRP	araH	+	CRP	entD	+	CRP	glgP	+
ArgR	yhbC	-	CRP	araJ	+-	CRP	entE	+	CRP	glgS	+
ArsR	arsB	-	CRP	argG	+	CRP	entH	+	CRP	glnA	+-
ArsR	arsC	-	CRP	aroA	-	CRP	envZ	+-	CRP	glnG	+-
ArsR	arsR	-	CRP	aspA	+	CRP	epd	+	CRP	glnL	+-
AscG	ascB	-	CRP	bglB	+	CRP	exuT	+	CRP	glpA	+
AscG	ascF	-	CRP	bglF	+	CRP	fadD	+	CRP	glpB	+
AscG	ascG	-	CRP	bglG	+	CRP	fadL	-	CRP	glpC	+
AsnC	asnA	+	CRP	caiA	+	CRP	fbaA	+	CRP	glpD	+
AsnC	asnC	-	CRP	caiB	+	CRP	feaR	+	CRP	glpE	+
AsnC	mioC	-	CRP	caiC	+	CRP	fecA	+	CRP	glpF	+
AsnC	mnmG	-	CRP	caiD	+	CRP	fecB	+	CRP	glpG	+
AtoC	atoA	+	CRP	caiE	+	CRP	fecC	+	CRP	glpK	+
AtoC	atoB	+	CRP	caiF	+	CRP	fecD	+	CRP	glpQ	+
AtoC	atoD	+	CRP	caiT	+	CRP	fecE	+	CRP	glpR	+
AtoC	atoE	+	CRP	cdd	+-	CRP	fepA	+	CRP	glpT	+
BaeR	acrD	+	CRP	chbA	+	CRP	fis	+-	CRP	glpX	+
BaeR	baeR	+	CRP	chbB	+	CRP	fiu	+	CRP	gltA	+
BaeR	baeS	+	CRP	chbC	+	CRP	fixA	+	CRP	gltB	-
BaeR	mdtA	+	CRP	chbF	+	CRP	fixB	+	CRP	gltD	-
BaeR	mdtB	+	CRP	chbG	+	CRP	fixC	+	CRP	gltF	-
BaeR	mdtC	+	CRP	chbR	+	CRP	fixX	+	CRP	gntK	+
BaeR	mdtD	+	CRP	chpA	+	CRP	flhC	+	CRP	gntP	+
BaeR	spy	+	CRP	chpR	+	CRP	flhD	+	CRP	gntT	+
BaeR	ycaC	+	CRP	cirA	+	CRP	focA	+	CRP	gntU	+
BetI	betA	-	CRP	cpdB	+	CRP	focB	+	CRP	gntX	+
BetI	betB	-	CRP	crp	+-	CRP	fucA	+	CRP	gntY	+
BetI	betI	-	CRP	crr	+-	CRP	fucI	+	CRP	grpE	+
BetI	betT	-	CRP	csgD	+	CRP	fucK	+	CRP	guaA	+
BirA	bioA	-	CRP	csgE	+	CRP	fucO	+	CRP	guaB	+
BirA	bioB	-	CRP	csgF	+	CRP	fucP	+	CRP	gutM	+
BirA	bioC	-	CRP	csgG	+	CRP	fucR	+	CRP	gutQ	+
BirA	bioD	-	CRP	csiD	+	CRP	fucU	+	CRP	gyrA	+
BirA	bioF	-	CRP	csiE	+	CRP	fumA	+	CRP	hlyE	+
BolA	ampC	+-	CRP	estA	+	CRP	fumB	+	CRP	hpt	+
BolA	dacC	+-	CRP	cyaA	-	CRP	fur	+	CRP	hupA	+

CRP	hupB	+	CRP	mhpA	+	CRP	ptsH	+-	CRP	ugpC	+
CRP	hyfA	+	CRP	mhpB	+	CRP	ptsI	+-	CRP	ugpE	+
CRP	hyfB	+	CRP	mhpC	+	CRP	putP	-	CRP	ugpQ	+
CRP	hyfC	+	CRP	mhpD	+	CRP	rbfA	-	CRP	uhpT	+
CRP	hyfD	+	CRP	mhpE	+	CRP	rbsA	+	CRP	uidA	+
CRP	hyfE	+	CRP	mhpF	+	CRP	rbsB	+	CRP	uidB	+
CRP	hyfF	+	CRP	modA	+	CRP	rbsC	+	CRP	uidC	+
CRP	hyfG	+	CRP	modB	+	CRP	rbsD	+	CRP	ulaA	+
CRP	hyfH	+	CRP	modC	+	CRP	rbsK	+	CRP	ulaB	+
CRP	hyfI	+	CRP	mpl	+	CRP	rbsR	+	CRP	ulaC	+
CRP	hyfJ	+	CRP	mtlA	+	CRP	relA	+	CRP	ulaD	+
CRP	hyfR	+	CRP	mtlD	+	CRP	rhaA	+	CRP	ulaE	+
CRP	idnD	+	CRP	mtlR	+	CRP	rhaB	+	CRP	ulaF	+
CRP	idnK	+	CRP	nagA	+-	CRP	rhaD	+	CRP	uxaA	+
CRP	idnO	+	CRP	nagB	+-	CRP	rhaR	+	CRP	uxaB	+
CRP	idnR	+	CRP	nagC	+-	CRP	rhaS	+	CRP	uxaC	+
CRP	idnT	+	CRP	nagD	+-	CRP	rhaT	+	CRP	uxuA	+
CRP	ilvB	+	CRP	nagE	+-	CRP	rpoH	+-	CRP	uxuB	+
CRP	ilvN	+	CRP	nanA	+	CRP	rpoS	?	CRP	uxuR	+
CRP	infB	-	CRP	nanC	+	CRP	rpsO	-	CRP	xseA	-
CRP	ivbL	+	CRP	nanE	+	CRP	sdhA	+	CRP	xylA	+
CRP	kbaZ	+	CRP	nanK	+	CRP	sdhB	+	CRP	xylB	+
CRP	lacA	+-	CRP	nanT	+	CRP	sdhC	+	CRP	xylF	+
CRP	lacY	+-	CRP	nirB	-	CRP	sdhD	+	CRP	xylG	+
CRP	lacZ	+-	CRP	nirC	-	CRP	serA	+	CRP	xylH	+
CRP	lamB	+	CRP	nirD	-	CRP	serC	-	CRP	xylR	+
CRP	lpd	+-	CRP	nmpC	+	CRP	sgbE	+?	CRP	ychH	+
CRP	lsrA	+	CRP	nrdA	+	CRP	sgbH	+?	CRP	yfiD	+
CRP	lsrB	+	CRP	nrdB	+	CRP	sgbU	+?	CRP	ygaF	+
CRP	lsrC	+	CRP	nupC	+	CRP	sodA	+	CRP	yhbC	-
CRP	lsrD	+	CRP	nupG	+-	CRP	sodB	-	CRP	yhcH	+
CRP	lsrF	+	CRP	nusA	-	CRP	sohB	-	CRP	yhfA	+-
CRP	lsrG	+	CRP	ompA	+	CRP	speC	-	CRP	yiaJ	-
CRP	lyx	+?	CRP	ompF	+	CRP	spf	-	CRP	yiaK	+?
CRP	malE	+	CRP	ompR	+-	CRP	srlA	+	CRP	yiaL	+?
CRP	malF	+	CRP	osmY	-	CRP	srlB	+	CRP	yiaM	+?
CRP	malG	+	CRP	oxyR	+	CRP	srlD	+	CRP	yiaN	+?
CRP	malI	-	CRP	paaA	+	CRP	srlE	+	CRP	yiaO	+?
CRP	malK	+	CRP	paaB	+	CRP	srlR	+	CRP	yjcH	+
CRP	malM	+	CRP	paaC	+	CRP	sucA	+	CRP	yjhT	+
CRP	malS	+	CRP	paaD	+	CRP	sucB	+	CRP	zraR	+
CRP	malT	+	CRP	paaE	+	CRP	sucC	+	CRP	zraS	+
CRP	malX	+-	CRP	paaF	+	CRP	sucD	+	CadC	cadA	+
CRP	malY	+-	CRP	paaG	+	CRP	tdcA	+	CadC	cadB	+
CRP	manX	+	CRP	paaH	+	CRP	tdcB	+	CadC	cadC	+
CRP	manY	+	CRP	paaI	+	CRP	tdcC	+	CaiF	caiA	+
CRP	manZ	+	CRP	paaJ	+	CRP	tdcD	+	CaiF	caiB	+
CRP	maoC	+	CRP	paaK	+	CRP	tdcE	+	CaiF	caiC	+
CRP	marA	+	CRP	pdhR	+	CRP	tdcF	+	CaiF	caiD	+
CRP	marB	+	CRP	pflB	+	CRP	tdcG	+	CaiF	caiE	+
CRP	marR	+	CRP	pgk	+	CRP	tnaA	+	CaiF	caiT	+
CRP	mdh	+	CRP	pncB	-	CRP	tnaB	+	CaiF	fixA	+
CRP	mdtE	-	CRP	pnp	-	CRP	tnaC	+	CaiF	fixB	+
CRP	mdtF	-	CRP	ppiA	+-	CRP	treB	+?	CaiF	fixC	+
CRP	melA	+	CRP	proP	+-	CRP	treC	+?	CaiF	fixX	+
CRP	melB	+	CRP	prpB	+	CRP	truB	-	Cbl	ssuA	+
CRP	melR	+	CRP	prpC	+	CRP	trxA	-	Cbl	ssuB	+
CRP	metK	-	CRP	prpD	+	CRP	tsx	+-	Cbl	ssuC	+
CRP	metY	-	CRP	prpE	+	CRP	ubiG	+	Cbl	ssuD	+
CRP	mglA	+	CRP	prpR	+	CRP	udp	+	Cbl	ssuE	+
CRP	mglB	+	CRP	psiE	-	CRP	ugpA	+	Cbl	tauA	+
CRP	mglC	+	CRP	ptsG	+	CRP	ugpB	+	Cbl	tauB	+

Cbl	tauC	+	CpxR	rseC	-	CysB	ssuA	-	DsdC	dsdA	+
Cbl	tauD	+	CpxR	smpA	-	CysB	ssuB	-	DsdC	dsdC	-
CdaR	cdaR	+	CpxR	spy	+	CysB	ssuC	-	DsdC	dsdX	+
CdaR	garD	+	CpxR	tsr	-	CysB	ssuD	-	EbgR	ebgA	-
CdaR	garK	+	CpxR	ung	-	CysB	ssuE	-	EbgR	ebgC	-
CdaR	garL	+	CpxR	ybaJ	+	CysB	tauA	+	EnvY	moaA	+
CdaR	garP	+	CpxR	yccA	+	CysB	tauB	+	EnvY	moaB	+
CdaR	garR	+	CpxR	ycfS	+	CysB	tauC	+	EnvY	moaC	+
CdaR	gudD	+	CpxR	ydeH	+	CysB	tauD	+	EnvY	moaD	+
CdaR	gudP	+	CpxR	yebE	+	CytR	cdd	-	EnvY	moaE	+
CdaR	gudX	+	CpxR	yidQ	+	CytR	cytR	+-	EnvY	ompC	+
CdaR	rnpB	+	CpxR	yjeP	-	CytR	deoA	-	EnvY	ompF	+
ChbR	chbA	+-	CpxR	yqiA	+	CytR	deoB	-	EvgA	acrD	+
ChbR	chbB	+-	CpxR	yqiB	+	CytR	deoC	-	EvgA	emrK	+
ChbR	chbC	+-	CsgD	adrA	+	CytR	deoD	-	EvgA	emrY	+
ChbR	chbF	+-	CsgD	csgA	+	CytR	nupC	-	EvgA	evgA	+
ChbR	chbG	+-	CsgD	csgB	+	CytR	nupG	-	EvgA	evgS	+
ChbR	chbR	+-	CsgD	csgC	+	CytR	ppiA	-	EvgA	gadE	+
CpxR	acrD	+	CsgD	csgD	+	CytR	rpoH	-	EvgA	mdtE	+
CpxR	aroG	+	CsgD	csgE	+	CytR	tsx	+-	EvgA	mdtF	+
CpxR	bacA	+	CsgD	csgF	+	CytR	udp	-	ExuR	exuR	-
CpxR	baeR	+	CsgD	csgG	+	DcuR	dctA	+	ExuR	exuT	-
CpxR	baeS	+	CsgD	pepD	-	DcuR	dcuB	+	ExuR	uxaA	-
CpxR	cheA	-	CsiR	csiD	-	DcuR	frdA	+	ExuR	uxaB	-
CpxR	cheW	-	CsiR	gabD	-	DcuR	frdB	+	ExuR	uxaC	-
CpxR	cpxA	+	CsiR	gabP	-	DcuR	frdC	+	ExuR	uxuA	-
CpxR	cpxP	+	CsiR	gabT	-	DcuR	frdD	+	ExuR	uxuB	-
CpxR	cpxR	+	CsiR	ygaF	-	DcuR	fumB	+	ExuR	uxuR	-
CpxR	csgA	-	CspA	gyrA	+	DeoR	deoA	-	FNR	Phantom Gene	-
CpxR	csgB	-	CspA	hns	+	DeoR	deoB	-	FNR	aceE	+-
CpxR	csgC	-	CueR	copA	+	DeoR	deoC	-	FNR	aceF	+-
CpxR	csgD	-	CueR	cueO	+	DeoR	deoD	-	FNR	ackA	+
CpxR	csgE	-	CueR	moaA	-	DeoR	nupG	-	FNR	acnA	-
CpxR	csgF	-	CueR	moaB	-	DeoR	tsx	-	FNR	acrE	+
CpxR	csgG	-	CueR	moaC	-	DgsA	crr	-	FNR	acrF	+
CpxR	degP	+	CueR	moaD	-	DgsA	dgsA	-	FNR	adhE	+
CpxR	dsbA	+	CueR	moaE	-	DgsA	malT	-	FNR	aer	+
CpxR	dsbC	+	CusR	cusA	+	DgsA	manX	-	FNR	aldA	-
CpxR	efeU_1	+	CusR	cusB	+	DgsA	manY	-	FNR	ansB	+
CpxR	efeU_2	+	CusR	cusC	+	DgsA	manZ	-	FNR	arcA	+-
CpxR	fabZ	+	CusR	cusF	+	DgsA	ptsG	-	FNR	argK	+
CpxR	ftnB	+	CusR	cusR	+	DgsA	ptsH	-	FNR	aspA	+
CpxR	hha	+	CusR	cusS	+	DgsA	ptsI	-	FNR	bcsB	+
CpxR	hlpA	+	CynR	cynR	-	DhaR	dhaK	+	FNR	bcsZ	+
CpxR	lpxA	+	CynR	cynS	+	DhaR	dhaL	+	FNR	cadC	+
CpxR	lpxD	+	CynR	cynT	+	DhaR	dhaM	+	FNR	caiA	+
CpxR	mdtA	+	CynR	cynX	+	DhaR	dhaR	-	FNR	caiB	+
CpxR	mdtB	+	CysB	cbl	+	DicA	dicB	-	FNR	caiC	+
CpxR	mdtC	+	CysB	cysA	+	DicA	insD	-	FNR	caiD	+
CpxR	mdtD	+	CysB	cysB	-	DicA	intQ	-	FNR	caiE	+
CpxR	motA	-	CysB	cysC	+	DicA	ydfD	-	FNR	caiF	+
CpxR	motB	-	CysB	cysD	+	DicA	ydfE	-	FNR	caiT	+
CpxR	ompC	+	CysB	cysH	+	DnaA	aldA	-	FNR	ccmA	+
CpxR	ompF	-	CysB	cysI	+	DnaA	dnaA	-	FNR	ccmB	+
CpxR	ppiA	+	CysB	cysJ	+	DnaA	dnaN	-	FNR	ccmC	+
CpxR	ppiD	+	CysB	cysK	+	DnaA	guaA	-	FNR	ccmD	+
CpxR	psd	-	CysB	cysM	+	DnaA	guaB	-	FNR	ccmE	+
CpxR	rdoA	+	CysB	cysN	+	DnaA	nrdA	+	FNR	ccmF	+
CpxR	rpoE	-	CysB	cysP	+	DnaA	nrdB	+	FNR	ccmG	+
CpxR	rpoH	+	CysB	cysU	+	DnaA	polA	+	FNR	ccmH	+
CpxR	rseA	-	CysB	cysW	+	DnaA	recF	-	FNR	cheB	+
CpxR	rseB	-	CysB	hslJ	-	DnaA	rpoH	-	FNR	cheR	+

FNR	cheY	+	FNR	gcvT	+	FNR	nirC	+	FNR	scpC	+
FNR	cheZ	+	FNR	glpA	+	FNR	nirD	+	FNR	sdhA	-
FNR	cydA	+-	FNR	glpB	+	FNR	norV	-	FNR	sdhB	-
FNR	cydB	+-	FNR	glpC	+	FNR	norW	-	FNR	sdhC	-
FNR	cydC	+	FNR	glpQ	+	FNR	nrdD	+	FNR	sdhD	-
FNR	cydD	+	FNR	glpT	+	FNR	nrdG	+	FNR	sodA	-
FNR	cyoA	-	FNR	gltB	-	FNR	nrfA	+	FNR	ssuA	+
FNR	cyoB	-	FNR	gltD	-	FNR	nrfB	+	FNR	ssuB	+
FNR	cyoC	-	FNR	gltF	-	FNR	nrfC	+	FNR	ssuC	+
FNR	cyoD	-	FNR	hcp	+	FNR	nrfD	+	FNR	ssuD	+
FNR	cyoE	-	FNR	hcr	+	FNR	nrfE	+	FNR	ssuE	+
FNR	cysG	+	FNR	hemA	-	FNR	nrfF	+	FNR	sucA	-
FNR	dcuA	+	FNR	hlyE	+	FNR	nrfG	+	FNR	sucB	-
FNR	dcuB	+	FNR	hmp	-	FNR	nuoA	-	FNR	sucC	-
FNR	dcuC	+	FNR	hyfA	-	FNR	nuoB	-	FNR	sucD	-
FNR	dcuR	+	FNR	hyfB	-	FNR	nuoC	-	FNR	tap	+
FNR	dcuS	+	FNR	hyfC	-	FNR	nuoE	-	FNR	tar	+
FNR	dmsA	+	FNR	hyfD	-	FNR	nuoF	-	FNR	tdcA	+
FNR	dmsB	+	FNR	hyfE	-	FNR	nuoG	-	FNR	tdcB	+
FNR	dmsC	+	FNR	hyfF	-	FNR	nuoH	-	FNR	tdcC	+
FNR	dmsD	+	FNR	hyfG	-	FNR	nuoI	-	FNR	tdcD	+
FNR	dppA	-	FNR	hyfH	-	FNR	nuoJ	-	FNR	tdcE	+
FNR	dppB	-	FNR	hyfI	-	FNR	nuoK	-	FNR	tdcF	+
FNR	dppC	-	FNR	hyfJ	-	FNR	nuoL	-	FNR	tdcG	+
FNR	dppD	-	FNR	hyfR	-	FNR	nuoM	-	FNR	tpx	-
FNR	dppF	-	FNR	hypB	+	FNR	nuoN	-	FNR	trmD	-
FNR	emrK	+	FNR	hypC	+	FNR	ompW	+	FNR	ubiA	-
FNR	emrY	+	FNR	hypD	+	FNR	ompX	-	FNR	ubiC	-
FNR	entF	+	FNR	hypE	+	FNR	pdhR	+-	FNR	upp	+
FNR	fdhF	+	FNR	katG	+	FNR	pepT	+	FNR	uraA	+
FNR	fdnG	+-	FNR	lpd	+-	FNR	pflB	+	FNR	uxaA	+
FNR	fdnH	+-	FNR	malP	+	FNR	pheM	-	FNR	uxaC	+
FNR	fdnI	+-	FNR	malQ	+	FNR	phoU	+	FNR	xdhA	+
FNR	feoA	+	FNR	moaA	+	FNR	pitA	+	FNR	xdhB	+
FNR	feoB	+	FNR	moaB	+	FNR	prfA	-	FNR	xdhC	+
FNR	fepE	+	FNR	moaC	+	FNR	prmC	-	FNR	ybdZ	+
FNR	fes	+	FNR	moaD	+	FNR	pstA	+	FNR	ycaC	-
FNR	fhlA	+	FNR	moaE	+	FNR	pstB	+	FNR	ychO	-
FNR	fixA	+	FNR	moeA	-	FNR	pstC	+	FNR	yecR	+
FNR	fixB	+	FNR	moeB	-	FNR	pstS	+	FNR	yeiL	-
FNR	fixC	+	FNR	napA	+	FNR	purM	-	FNR	yfiD	+-
FNR	fixX	+	FNR	napB	+	FNR	purN	-	FNR	ygbA	-
FNR	fnr	-	FNR	napC	+	FNR	rimM	-	FNR	yhjA	+
FNR	focA	+	FNR	napD	+	FNR	rnpB	+	FNR	yjiD	+
FNR	focB	-	FNR	napF	+	FNR	rplB	+	FNR	ynfE	+
FNR	frdA	+	FNR	napG	+	FNR	rplC	+	FNR	ynfF	+
FNR	frdB	+	FNR	napH	+	FNR	rplD	+	FNR	ynfG	+
FNR	frdC	+	FNR	narG	+	FNR	rplM	-	FNR	ynfH	+
FNR	frdD	+	FNR	narH	+	FNR	rplP	+	FNR	yqjI	+
FNR	fumA	-	FNR	narI	+	FNR	rplS	-	FNR	ysgA	-
FNR	fumB	+	FNR	narJ	+	FNR	rplT	-	FNR	ytfE	-
FNR	gadA	-	FNR	narK	+	FNR	rplV	+	FabR	fabA	-
FNR	gadW	-	FNR	narL	-	FNR	rplW	+	FabR	fabB	-
FNR	gadX	-	FNR	narX	-	FNR	rpmC	+	FadR	fabA	+
FNR	gapC_1	-	FNR	ndh	-	FNR	rpsC	+	FadR	fabB	+
FNR	gapC_2	-	FNR	nikA	+	FNR	rpsI	-	FadR	fadA	-
FNR	garK	+	FNR	nikB	+	FNR	rpsJ	+	FadR	fadB	-
FNR	garL	+	FNR	nikC	+	FNR	rpsP	-	FadR	fadD	-
FNR	garP	+	FNR	nikD	+	FNR	rpsQ	+	FadR	fadE	-
FNR	garR	+	FNR	nikE	+	FNR	rpsS	+	FadR	fadI	-
FNR	gcvH	+	FNR	nikR	+	FNR	scpA	+	FadR	fadJ	-
FNR	gcvP	+	FNR	nirB	+	FNR	scpB	+	FadR	fadL	-

FadR	iclR	+	Fis	fumB	-	Fis	nrfG	-	Fis	tufB	+
FadR	uspA	-	Fis	glnA	+	Fis	nuoA	+	Fis	tyrT	+
FeaR	feaB	+	Fis	glnG	+	Fis	nuoB	+	Fis	tyrU	+
FhlA	fdhF	+	Fis	glnL	+	Fis	nuoC	+	Fis	tyrV	+
FhlA	fhIA	+	Fis	glnQ	-	Fis	nuoE	+	Fis	valT	+
FhlA	focB	+	Fis	glnU	+	Fis	nuoF	+	Fis	valU	+
FhlA	hycA	+	Fis	glnV	+	Fis	nuoG	+	Fis	valX	+
FhlA	hycB	+	Fis	glnW	+	Fis	nuoH	+	Fis	valY	+
FhlA	hycC	+	Fis	glnX	+	Fis	nuoI	+	Fis	xylF	-
FhlA	hycD	+	Fis	gltT	+	Fis	nuoJ	+	Fis	xylG	-
FhlA	hycE	+	Fis	gltU	+	Fis	nuoK	+	Fis	xylH	-
FhlA	hycF	+	Fis	gltV	+	Fis	nuoL	+	Fis	xylR	-
FhlA	hycG	+	Fis	gltW	+	Fis	nuoM	+	Fis	ygjG	?
FhlA	hycH	+	Fis	glyT	+	Fis	nuoN	+	Fis	yhbC	+
FhlA	hycI	+	Fis	glyU	+	Fis	nusA	+	Fis	yjcH	-
FhlA	hydN	+	Fis	guaA	+	Fis	osmE	-	FlhDC	ccmA	+
FhlA	hyfA	+	Fis	guaB	+	Fis	pdxA	+	FlhDC	ccmB	+
FhlA	hyfB	+	Fis	gyrA	-	Fis	pheU	+	FlhDC	ccmC	+
FhlA	hyfC	+	Fis	gyrB	-	Fis	pheV	+	FlhDC	ccmD	+
FhlA	hyfD	+	Fis	hisR	+	Fis	pnp	+	FlhDC	ccmE	+
FhlA	hyfE	+	Fis	hns	+	Fis	proK	+	FlhDC	ccmF	+
FhlA	hyfF	+	Fis	hupA	+	Fis	proL	+	FlhDC	ccmG	+
FhlA	hyfG	+	Fis	hupB	-	Fis	proM	+	FlhDC	ccmH	+
FhlA	hyfH	+	Fis	ileT	+	Fis	proP	+	FlhDC	flgA	+
FhlA	hyfI	+	Fis	ileU	+	Fis	ptsG	+-	FlhDC	flgB	+
FhlA	hyfJ	+	Fis	ileV	+	Fis	queA	+	FlhDC	flgC	+
FhlA	hyfR	+	Fis	infB	+	Fis	rbfA	+	FlhDC	flgD	+
FhlA	hypA	+	Fis	ksgA	+	Fis	rnpB	+-	FlhDC	flgE	+
FhlA	hypB	+	Fis	leuP	+	Fis	rpsO	+	FlhDC	flgF	+
FhlA	hypC	+	Fis	leuQ	+	Fis	rrfA	+	FlhDC	flgG	+
FhlA	hypD	+	Fis	leuT	+	Fis	rrfB	+	FlhDC	flgH	+
FhlA	hypE	+	Fis	leuV	+	Fis	rrfC	+	FlhDC	flgI	+
FhlA	hypF	+	Fis	leuW	+	Fis	rrfD	+	FlhDC	flgJ	+
Fis	acnB	-	Fis	leuX	+	Fis	rrfE	+	FlhDC	flgM	+
Fis	acs	-	Fis	lpd	+	Fis	rrfF	+	FlhDC	flgN	+
Fis	actP	-	Fis	lysT	+	Fis	rrfG	+	FlhDC	flhA	+
Fis	adhE	+	Fis	lysV	+	Fis	rrfH	+	FlhDC	flhB	+
Fis	alaT	+	Fis	lysW	+	Fis	rrlA	+	FlhDC	flhE	+
Fis	alaU	+	Fis	marA	+	Fis	rrlB	+	FlhDC	fliA	+
Fis	alaV	+	Fis	marB	+	Fis	rrlC	+	FlhDC	fliD	+
Fis	alaW	+	Fis	marR	+	Fis	rrlD	+	FlhDC	fliE	+
Fis	alaX	+	Fis	mazG	+	Fis	rrlE	+	FlhDC	fliF	+
Fis	aldB	-	Fis	mefT	+	Fis	rrlG	+	FlhDC	fliG	+
Fis	apaG	+	Fis	metU	+	Fis	rrlH	+	FlhDC	fliH	+
Fis	apaH	+	Fis	metY	+	Fis	rrsA	+	FlhDC	fliI	+
Fis	argU	+	Fis	mgIA	-	Fis	rrsB	+	FlhDC	fliJ	+
Fis	argW	+	Fis	mgIC	-	Fis	rrsC	+	FlhDC	fliK	+
Fis	argX	+	Fis	mtlA	-	Fis	rrsD	+	FlhDC	fliL	+
Fis	aspV	+	Fis	mtlD	-	Fis	rrsE	+	FlhDC	fliM	+
Fis	bglB	-	Fis	mtlR	-	Fis	rrsG	+	FlhDC	fliN	+
Fis	bglF	-	Fis	ndh	+-	Fis	rrsH	+	FlhDC	fliO	+
Fis	bglG	-	Fis	nirB	-	Fis	serT	+	FlhDC	fliP	+
Fis	chpA	+	Fis	nirC	-	Fis	serX	+	FlhDC	fliQ	+
Fis	chpR	+	Fis	nirD	-	Fis	sra	+	FlhDC	fliR	+
Fis	crp	-	Fis	nrdA	+	Fis	thrT	+	FlhDC	fliS	+
Fis	cysG	-	Fis	nrdB	+	Fis	thrU	+	FlhDC	fliT	+
Fis	deoA	+	Fis	nrfA	-	Fis	thrV	+	FlhDC	fliY	+
Fis	deoB	+	Fis	nrfB	-	Fis	thrW	+	FlhDC	fliZ	+
Fis	deoC	+	Fis	nrfC	-	Fis	topA	+-	FlhDC	glpA	+
Fis	deoD	+	Fis	nrfD	-	Fis	tpr	+	FlhDC	glpB	+
Fis	dusB	-	Fis	nrfE	-	Fis	trmA	+	FlhDC	glpC	+
Fis	fis	-	Fis	nrfF	-	Fis	truB	+	FlhDC	gltI	+

FlhDC	gltJ	+	FruR	pfkA	-	Fur	metJ	-	GadE	mdtF	+
FlhDC	gltK	+	FruR	pgk	-	Fur	mntH	-	GadE	purA	+
FlhDC	gltL	+	FruR	pps	+	Fur	nohA	-	GadE	rcsA	+
FlhDC	hydN	+	FruR	ptsH	+-	Fur	nrdE	-	GadE	yhiD	+
FlhDC	hypF	+	FruR	ptsI	+-	Fur	nrdF	-	GadW	gadA	-
FlhDC	mdh	-	FruR	pykF	-	Fur	nrdH	-	GadW	gadB	-
FlhDC	mglA	-	FruR	yahA	-	Fur	nrdI	-	GadW	gadC	-
FlhDC	mglB	-	FucR	fucA	+	Fur	ompF	+	GadW	gadE	+
FlhDC	mglC	-	FucR	fucI	+	Fur	purR	-	GadW	gadW	-
FlhDC	napA	+	FucR	fucK	+	Fur	rcnA	-	GadW	gadX	-
FlhDC	napB	+	FucR	fucO	+	Fur	rcnR	+	GadW	mdtE	+
FlhDC	napC	+	FucR	fucP	+	Fur	ryhB	-	GadW	mdtF	+
FlhDC	napD	+	FucR	fucR	+	Fur	sdhA	+	GadX	amtB	+
FlhDC	napF	+	FucR	fucU	+	Fur	sdhB	+	GadX	asnB	+
FlhDC	napG	+	Fur	Phantom Gene		Fur	sdhC	+	GadX	cadA	+
FlhDC	napH	+		+		Fur	sdhD	+	GadX	cadB	+
FlhDC	nrfA	+	Fur	cirA	-	Fur	sodA	-	GadX	gadA	+
FlhDC	nrfB	+	Fur	cyoA	-	Fur	sodB	+	GadX	gadB	+
FlhDC	nrfC	+	Fur	cyoB	-	Fur	sucA	+	GadX	gadC	+
FlhDC	nrfD	+	Fur	cyoC	-	Fur	sucB	+	GadX	gadE	+
FlhDC	nrfE	+	Fur	cyoD	-	Fur	sucC	+	GadX	gadX	+
FlhDC	nrfF	+	Fur	cyoE	-	Fur	sucD	+	GadX	glnK	+
FlhDC	nrfG	+	Fur	entA	-	Fur	sufA	-	GadX	hdeA	+
FlhDC	ppdA	+	Fur	entB	-	Fur	sufB	-	GadX	hdeB	+
FlhDC	ppdB	+	Fur	entC	-	Fur	sufC	-	GadX	hdeD	+
FlhDC	ppdC	+	Fur	entD	-	Fur	sufD	-	GadX	hns	+
FlhDC	recC	+	Fur	entE	-	Fur	sufE	-	GadX	lon	+
FlhDC	sroC	+	Fur	entF	-	Fur	sufS	-	GadX	mdtE	+
FlhDC	ycgR	+	Fur	entH	-	Fur	tfaQ	-	GadX	mdtF	+
FlhDC	yecR	+	Fur	entS	+-	Fur	tonB	+	GadX	rpoS	+
FlhDC	ygbK	+	Fur	exbB	-	Fur	ybdZ	-	GadX	ybaS	+
FlhDC	ygdB	+	Fur	exbD	-	Fur	ydfN	-	GadX	ybaT	+
FlhDC	yhjH	+	Fur	fecA	-	Fur	ygaC	-	GadX	yhiD	+
FruR	aceA	+	Fur	fecB	-	Fur	yhhY	-	GalR	galE	+-
FruR	aceB	+	Fur	fecC	-	Fur	yodA	+	GalR	galK	+-
FruR	aceK	+	Fur	fecD	-	GadE	cadA	+	GalR	galM	+-
FruR	acnA	+	Fur	fecE	-	GadE	cadB	+	GalR	galP	-
FruR	acnB	-	Fur	fecI	-	GadE	cyoA	+	GalR	galR	-
FruR	adhE	-	Fur	fecR	-	GadE	cyoB	+	GalR	galS	-
FruR	crr	+-	Fur	feoA	-	GadE	cyoC	+	GalR	galT	+-
FruR	cydA	+	Fur	feoB	-	GadE	cyoD	+	GalR	mglA	-
FruR	cydB	+	Fur	fepA	-	GadE	cyoE	+	GalR	mglB	-
FruR	cysG	-	Fur	fepB	-	GadE	fabZ	+	GalR	mglC	-
FruR	eda	-	Fur	fepC	-	GadE	fliC	+	GalS	galE	+-
FruR	edd	-	Fur	fepD	-	GadE	gadA	+	GalS	galK	+-
FruR	eno	-	Fur	fepE	-	GadE	gadB	+	GalS	galM	+-
FruR	epd	-	Fur	fepG	-	GadE	gadC	+	GalS	galP	-
FruR	fbaA	-	Fur	fes	-	GadE	gadE	+	GalS	galS	-
FruR	fruA	-	Fur	fhuA	-	GadE	gadW	+	GalS	galT	+-
FruR	fruB	-	Fur	fhuB	-	GadE	gadX	+	GalS	mglA	-
FruR	fruK	-	Fur	fhuC	-	GadE	gltB	+	GalS	mglB	-
FruR	gapA	-	Fur	fhuD	-	GadE	gltD	+	GalS	mglC	-
FruR	glk	-	Fur	fhuE	-	GadE	gltF	+	GatR	gatA	-
FruR	hypF	-	Fur	fhuF	-	GadE	gnd	+	GatR	gatB	-
FruR	icd	+	Fur	fiu	-	GadE	hdeA	+	GatR	gatC	-
FruR	mtlA	-	Fur	flhC	-	GadE	hdeB	+	GatR	gatD	-
FruR	mtlD	-	Fur	flhD	-	GadE	hdeD	+	GatR	gatY	-
FruR	mtlR	-	Fur	fumB	+	GadE	hlpA	+	GatR	gatZ	-
FruR	nirB	-	Fur	fur	-	GadE	lpxA	+	GcvA	gcvA	-
FruR	nirC	-	Fur	gpmA	-	GadE	lpxD	+	GcvA	gcvB	+
FruR	nirD	-	Fur	hmp	-	GadE	lrp	+	GcvA	gcvH	+-
FruR	pck	+	Fur	methH	-	GadE	mdtE	+	GcvA	gcvP	+-

GcvA	gcvT	+-	H-NS	cysA	-	H-NS	hisJ	+	HU	galM	-
GlcC	glcA	+	H-NS	cysG	-	H-NS	hisM	+	HU	galT	-
GlcC	glcB	+	H-NS	cysM	-	H-NS	hisP	+	HU	micF	+
GlcC	glcC	-	H-NS	cysP	-	H-NS	hisQ	+	HU	mtr	-
GlcC	glcD	+	H-NS	cysU	-	H-NS	hlyE	+-	HU	pgm	-
GlcC	glcE	+	H-NS	cysW	-	H-NS	hns	-	HU	seqA	-
GlcC	glcF	+	H-NS	degP	-	H-NS	ileU	-	HU	tyrP	-
GlcC	glcG	+	H-NS	entF	+	H-NS	ileV	-	HcaR	hcaB	+
GlpR	glpA	-	H-NS	fepE	+	H-NS	ilvH	-	HcaR	hcaC	+
GlpR	glpB	-	H-NS	fes	+	H-NS	ilvI	-	HcaR	hcaD	+
GlpR	glpC	-	H-NS	fimA	+	H-NS	lacA	-	HcaR	hcaE	+
GlpR	glpD	-	H-NS	fimB	-	H-NS	lacY	-	HcaR	hcaF	+
GlpR	glpF	-	H-NS	fimC	+	H-NS	lacZ	-	HcaR	hcaR	-
GlpR	glpK	-	H-NS	fimD	+	H-NS	micF	-	HdfR	flhC	-
GlpR	glpQ	-	H-NS	fimE	-	H-NS	mukB	+	HdfR	flhD	-
GlpR	glpT	-	H-NS	fimF	+	H-NS	mukE	+	HipB	hipA	-
GlpR	glpX	-	H-NS	fimG	+	H-NS	mukF	+	HipB	hipB	-
GntR	eda	-	H-NS	fimH	+	H-NS	nhaA	-	HyfR	focB	+
GntR	edd	-	H-NS	fimI	+	H-NS	nhaR	-	HyfR	hyfA	+
GntR	gntK	-	H-NS	flhC	+	H-NS	nirB	-	HyfR	hyfB	+
GntR	gntT	-	H-NS	flhD	+	H-NS	nirC	-	HyfR	hyfC	+
GntR	gntU	-	H-NS	fliA	+	H-NS	nirD	-	HyfR	hyfD	+
GntR	gntX	-	H-NS	fliC	+	H-NS	osmC	-	HyfR	hyfE	+
GntR	gntY	-	H-NS	fliY	+	H-NS	proV	-	HyfR	hyfF	+
GntR	idnD	-	H-NS	fliZ	+	H-NS	proW	-	HyfR	hyfG	+
GntR	idnK	-	H-NS	gabD	+	H-NS	proX	-	HyfR	hyfH	+
GntR	idnO	-	H-NS	gabP	+	H-NS	rcaA	-	HyfR	hyfI	+
GntR	idnR	-	H-NS	gabT	+	H-NS	relA	+	HyfR	hyfJ	+
GntR	idnT	-	H-NS	gadA	-	H-NS	rnpB	-	HyfR	hyfR	+
GutM	gutM	+	H-NS	gadW	-	H-NS	rrfB	-	IHF	aceA	+
GutM	gutQ	+	H-NS	gadX	-	H-NS	rrfC	-	IHF	aceB	+
GutM	srlA	+	H-NS	galE	-	H-NS	rrfD	-	IHF	aceK	+
GutM	srlB	+	H-NS	galK	-	H-NS	rrfF	-	IHF	acs	-?
GutM	srlD	+	H-NS	galM	-	H-NS	rrfG	-	IHF	actP	-?
GutM	srlE	+	H-NS	galT	-	H-NS	rrfH	-	IHF	adiA	+
GutM	srlR	+	H-NS	garK	-	H-NS	rrlB	-	IHF	amiA	-
GutR	gutM	-	H-NS	garL	-	H-NS	rrlC	-	IHF	atoA	+
GutR	gutQ	-	H-NS	garP	-	H-NS	rrlD	-	IHF	atoB	+
GutR	srlA	-	H-NS	garR	-	H-NS	rrlG	-	IHF	atoD	+
GutR	srlB	-	H-NS	gltT	-	H-NS	rrlH	-	IHF	atoE	+
GutR	srlD	-	H-NS	gluU	-	H-NS	rrsB	-	IHF	caiA	-
GutR	srlE	-	H-NS	gluW	-	H-NS	rrsC	-	IHF	caiB	-
GutR	srlR	-	H-NS	gspA	-	H-NS	rrsD	-	IHF	caiC	-
H-NS	adiA	-	H-NS	gspB	-	H-NS	rrsG	-	IHF	caiD	-
H-NS	alaU	-	H-NS	gspC	-	H-NS	rrsH	-	IHF	caiE	-
H-NS	alaV	-	H-NS	gspD	-	H-NS	smtA	+	IHF	caiT	-
H-NS	appY	-	H-NS	gspE	-	H-NS	sodB	-	IHF	carA	+-
H-NS	bglB	-	H-NS	gspF	-	H-NS	srlA	+	IHF	carB	+-
H-NS	bglF	-	H-NS	gspG	-	H-NS	srlB	+	IHF	cysG	-
H-NS	bglG	-	H-NS	gspH	-	H-NS	srlD	+	IHF	cysH	+
H-NS	bolA	-	H-NS	gspI	-	H-NS	srlE	+	IHF	cysI	+
H-NS	cadA	-	H-NS	gspJ	-	H-NS	srlR	+	IHF	cysJ	+
H-NS	cadB	-	H-NS	gspK	-	H-NS	stpA	-	IHF	dcuD	+
H-NS	caiF	-	H-NS	gspL	-	H-NS	thrV	-	IHF	dmsA	-
H-NS	chiA	-	H-NS	gspM	-	H-NS	ybdZ	+	IHF	dmsB	-
H-NS	chpA	+	H-NS	gspO	-	H-NS	yciE	-	IHF	dmsC	-
H-NS	chpR	+	H-NS	gutM	+	H-NS	yciF	-	IHF	dppA	+
H-NS	csiD	+	H-NS	gutQ	+	H-NS	yciG	-	IHF	dppB	+
H-NS	csiE	+	H-NS	hchA	-	H-NS	ygaF	+	IHF	dppC	+
H-NS	cspD	+	H-NS	hdeA	-	H-NS	yhiD	-	IHF	dppD	+
H-NS	cydA	-	H-NS	hdeB	-	HU	galE	-	IHF	dppF	+
H-NS	cydB	-	H-NS	hdeD	-	HU	galK	-	IHF	dps	+

IHF	dusB	+	IHF	ilvM	+-	IHF	pspG	+	IclR	aceB	-
IHF	ecpD	+	IHF	lyx	+	IHF	pstA	+	IclR	aceK	-
IHF	envZ	-	IHF	maoC	+	IHF	pstB	+	IclR	iclR	-
IHF	fhlA	+	IHF	micF	-	IHF	pstC	+	IdnR	gntK	-
IHF	fimA	+	IHF	mtr	-	IHF	pstS	+	IdnR	gntU	-
IHF	fimB	+	IHF	narG	+	IHF	rpoH	+	IdnR	idnD	+
IHF	fimC	+	IHF	narH	+	IHF	rtcA	+	IdnR	idnK	+
IHF	fimD	+	IHF	narI	+	IHF	rtcB	+	IdnR	idnO	+
IHF	fimF	+	IHF	narJ	+	IHF	sgbE	+	IdnR	idnR	+
IHF	fimG	+	IHF	narK	+	IHF	sgbH	+	IdnR	idnT	+
IHF	fimH	+	IHF	ndh	-	IHF	sgbU	+	IlvY	ilvC	+
IHF	fimI	+	IHF	nirB	-	IHF	sodA	-	IlvY	ilvY	-
IHF	fis	+	IHF	nirC	-	IHF	sodB	-	IscR	erpA	-
IHF	flhC	-	IHF	nirD	-	IHF	sra	+	IscR	gntY	-
IHF	flhD	-	IHF	nmpC	-	IHF	ssuA	+-	IscR	hyaA	-
IHF	focA	+	IHF	norV	+-	IHF	ssuB	+-	IscR	hyaB	-
IHF	folA	+	IHF	norW	+-	IHF	ssuC	+-	IscR	hyaC	-
IHF	gcd	+	IHF	nrfA	+-	IHF	ssuD	+-	IscR	hyaD	-
IHF	glcA	+	IHF	nrfB	+-	IHF	ssuE	+-	IscR	hyaE	-
IHF	glcB	+	IHF	nrfC	+-	IHF	sucA	-	IscR	hyaF	-
IHF	glcD	+	IHF	nrfD	+-	IHF	sucB	-	IscR	iscA	-
IHF	glcE	+	IHF	nrfE	+-	IHF	sucC	-	IscR	iscR	-
IHF	glcF	+	IHF	nrfF	+-	IHF	sucD	-	IscR	iscS	-
IHF	glcG	+	IHF	nrfG	+-	IHF	sufA	+	IscR	iscU	-
IHF	glnH	+	IHF	nuoA	-	IHF	sufB	+	IscR	napA	-
IHF	glnP	+	IHF	nuoB	-	IHF	sufC	+	IscR	napB	-
IHF	glnQ	+	IHF	nuoC	-	IHF	sufD	+	IscR	napC	-
IHF	glpQ	-	IHF	nuoE	-	IHF	sufE	+	IscR	napD	-
IHF	glpT	-	IHF	nuoF	-	IHF	sufS	+	IscR	napF	-
IHF	gltA	+	IHF	nuoG	-	IHF	tdcA	+	IscR	napG	-
IHF	gltB	+	IHF	nuoH	-	IHF	tdcB	+	IscR	napH	-
IHF	gltD	+	IHF	nuoI	-	IHF	tdcC	+	IscR	sufA	+
IHF	gltF	+	IHF	nuoJ	-	IHF	tdcD	+	IscR	sufB	+
IHF	hemA	+	IHF	nuoK	-	IHF	tdcE	+	IscR	sufC	+
IHF	hemF	-	IHF	nuoL	-	IHF	tdcF	+	IscR	sufD	+
IHF	hipA	+	IHF	nuoM	-	IHF	tdcG	+	IscR	sufE	+
IHF	hipB	+	IHF	nuoN	-	IHF	tyrP	-	IscR	sufS	+
IHF	hpt	-	IHF	ompC	-	IHF	ubiA	-	IscR	ydiU	+
IHF	htrE	+	IHF	ompF	+-	IHF	ubiC	-	KdgR	eda	-
IHF	hycA	+	IHF	ompR	-	IHF	ulaA	-	KdpE	kdpA	+
IHF	hycB	+	IHF	osmE	-	IHF	ulaB	-	KdpE	kdpB	+
IHF	hycC	+	IHF	osmY	-	IHF	ulaC	-	KdpE	kdpC	+
IHF	hycD	+	IHF	paaA	+	IHF	ulaD	-	KdpE	kdpF	+
IHF	hycE	+	IHF	paaB	+	IHF	ulaE	-	LacI	lacA	-
IHF	hycF	+	IHF	paaC	+	IHF	ulaF	-	LacI	lacY	-
IHF	hycG	+	IHF	paaD	+	IHF	ulaG	-	LacI	lacZ	-
IHF	hycH	+	IHF	paaE	+	IHF	uspA	+	LeuO	leuA	+
IHF	hycI	+	IHF	paaF	+	IHF	uspB	-	LeuO	leuB	+
IHF	hypA	+	IHF	paaG	+	IHF	yeiL	+	LeuO	leuC	+
IHF	hypB	+	IHF	paaH	+	IHF	ygjG	?	LeuO	leuD	+
IHF	hypC	+	IHF	paal	+	IHF	yiaJ	-	LeuO	leuL	+
IHF	hypD	+	IHF	paaJ	+	IHF	yiaK	+	LexA	ddlB	-
IHF	hypE	+	IHF	paaK	+	IHF	yiaL	+	LexA	dinF	-
IHF	ibpB	+	IHF	pflB	+	IHF	yiaM	+	LexA	dinG	-
IHF	ihfA	-	IHF	phoU	+	IHF	yiaN	+	LexA	dinQ	-
IHF	ihfB	-	IHF	prfA	+	IHF	yiaO	+	LexA	dnaG	-
IHF	ilvA	+-	IHF	prmC	+	IHF	yjbE	+	LexA	ftsA	-
IHF	ilvD	+-	IHF	pspA	+	IHF	yjbF	+	LexA	ftsI	-
IHF	ilvE	+-	IHF	pspB	+	IHF	yjbG	+	LexA	ftsK	-
IHF	ilvG_1	+-	IHF	pspC	+	IHF	yjbH	+	LexA	ftsL	-
IHF	ilvG_2	+-	IHF	pspD	+	IHF	yjcH	-?	LexA	ftsQ	-
IHF	ilvL	+-	IHF	pspE	+	IclR	aceA	-	LexA	ftsW	-

LexA	ftsZ	-	Lrp	gltB	+	Lrp	serA	+-	MetJ	metC	-
LexA	insK	-	Lrp	gltD	+	Lrp	serC	+	MetJ	metE	-
LexA	lexA	-	Lrp	gltF	+	Lrp	stpA	+	MetJ	metF	-
LexA	lpxC	-	Lrp	gltT	-	Lrp	tdh	+	MetJ	metI	-
LexA	molR_1	-	Lrp	gltU	-	Lrp	thrV	-	MetJ	metK	-
LexA	mraY	-	Lrp	gltV	-	Lrp	yeiL	+	MetJ	metL	-
LexA	murC	-	Lrp	gltW	-	Lrp	ygaF	+	MetJ	metN	-
LexA	murD	-	Lrp	ileT	-	LsrR	lsrA	-	MetJ	metQ	-
LexA	murE	-	Lrp	ileU	-	LsrR	lsrB	-	MetJ	metR	-
LexA	murF	-	Lrp	ileV	-	LsrR	lsrC	-	MetR	glyA	+
LexA	murG	-	Lrp	ilvA	-	LsrR	lsrD	-	MetR	hmp	+
LexA	phr	-	Lrp	ilvD	-	LsrR	lsrF	-	MetR	metA	+
LexA	polB	-	Lrp	ilvE	-	LsrR	lsrG	-	MetR	metE	+
LexA	recA	-	Lrp	ilvG_1	-	LysR	lysA	+	MetR	metH	+
LexA	recN	-	Lrp	ilvG_2	-	LysR	lysR	-	MetR	metR	-
LexA	recX	-	Lrp	ilvH	+	Mall	mall	-	MhpR	mhpA	+
LexA	rpoD	-	Lrp	ilvI	+	Mall	malX	-	MhpR	mhpB	+
LexA	rpsU	-	Lrp	ilvL	-	Mall	malY	-	MhpR	mhpC	+
LexA	ruvA	-	Lrp	ilvM	-	MalT	lamB	+	MhpR	mhpD	+
LexA	ruvB	-	Lrp	kbl	+	MalT	malE	+	MhpR	mhpE	+
LexA	ssb	-	Lrp	livF	-	MalT	malF	+	MhpR	mhpF	+
LexA	sula	-	Lrp	livG	-	MalT	malG	+	MngR	mngA	-
LexA	symE	-	Lrp	livH	-	MalT	malK	+	MngR	mngB	-
LexA	tisA	-	Lrp	livJ	-	MalT	malM	+	MngR	mngR	-
LexA	tisB	-	Lrp	livK	-	MalT	malP	+	MntR	mntH	-
LexA	umuC	-	Lrp	livM	-	MalT	malQ	+	Mode	ccmA	+
LexA	umuD	-	Lrp	lrp	-	MalT	malS	+	Mode	ccmB	+
LexA	uvrA	-	Lrp	lysU	-	MalT	malZ	+	Mode	ccmC	+
LexA	uvrB	-	Lrp	malT	+	MarA	acrA	+	Mode	ccmD	+
LexA	uvrC	-	Lrp	micF	-	MarA	acrB	+	Mode	ccmE	+
LexA	uvrD	-	Lrp	ompC	-	MarA	dctR	-	Mode	ccmF	+
LexA	uvrY	-	Lrp	ompF	+	MarA	fpr	+	Mode	ccmG	+
LexA	ydjM	-	Lrp	oppA	-	MarA	fumC	+	Mode	ccmH	+
LldR	lldD	-	Lrp	oppB	-	MarA	hdeA	-	Mode	deoA	-
LldR	lldP	-	Lrp	oppC	-	MarA	hdeB	-	Mode	deoB	-
LldR	lldR	-	Lrp	oppD	-	MarA	inaA	+	Mode	deoC	-
LrhA	fimE	+	Lrp	oppF	-	MarA	marA	+	Mode	deoD	-
LrhA	flhC	-	Lrp	osmC	+-	MarA	marB	+	Mode	dmsA	-
LrhA	flhD	-	Lrp	osmY	-	MarA	marR	+	Mode	dmsB	-
LrhA	lrhA	+	Lrp	rrfA	-	MarA	micF	+	Mode	dmsC	-
Lrp	aidB	-	Lrp	rrfB	-	MarA	nfo	+	Mode	hycA	+
Lrp	alaT	-	Lrp	rrfC	-	MarA	nfsB	+	Mode	hycB	+
Lrp	alaU	-	Lrp	rrfD	-	MarA	poxB	+	Mode	hycC	+
Lrp	alaV	-	Lrp	rrfE	-	MarA	pqiA	+	Mode	hycD	+
Lrp	aroA	+	Lrp	rrfF	-	MarA	pqiB	+	Mode	hycE	+
Lrp	csiD	+	Lrp	rrfG	-	MarA	purA	-	Mode	hycF	+
Lrp	dadA	+-	Lrp	rrfH	-	MarA	putA	+	Mode	hycG	+
Lrp	dadX	+-	Lrp	rrlA	-	MarA	rob	-	Mode	hycH	+
Lrp	fimA	+	Lrp	rrlB	-	MarA	slp	-	Mode	hycI	+
Lrp	fimC	+	Lrp	rrlC	-	MarA	sodA	+	Mode	moaA	+
Lrp	fimD	+	Lrp	rrlD	-	MarA	yhiD	-	Mode	moaB	+
Lrp	fimE	+	Lrp	rrlE	-	MarA	zwf	+	Mode	moaC	+
Lrp	fimF	+	Lrp	rrlG	-	MarR	marA	-	Mode	moaD	+
Lrp	fimG	+	Lrp	rrlH	-	MarR	marB	-	Mode	moaE	+
Lrp	fimH	+	Lrp	rrsA	-	MarR	marR	-	Mode	modA	-
Lrp	fimI	+	Lrp	rrsB	-	MelR	melA	+-	Mode	modB	-
Lrp	gabD	+	Lrp	rrsC	-	MelR	melB	+-	Mode	modC	-
Lrp	gabP	+	Lrp	rrsD	-	MelR	melR	+-	Mode	napA	+
Lrp	gabT	+	Lrp	rrsE	-	MetJ	ahpC	-	Mode	napB	+
Lrp	gevH	+	Lrp	rrsG	-	MetJ	ahpF	-	Mode	napC	+
Lrp	gevP	+	Lrp	rrsH	-	MetJ	metA	-	Mode	napD	+
Lrp	gevT	+	Lrp	sdaA	-	MetJ	metB	-	Mode	napF	+

ModE	napG	+	NarL	ccmA	-	NarL	nikE	-	NarP	napG	+-
ModE	napH	+	NarL	ccmB	-	NarL	nikR	-	NarP	napH	+-
ModE	narL	+	NarL	ccmC	-	NarL	nirB	+	NarP	nirB	+
ModE	narX	+	NarL	ccmD	-	NarL	nirC	+	NarP	nirC	+
ModE	oppA	-	NarL	ccmE	-	NarL	nirD	+	NarP	nirD	+
ModE	oppB	-	NarL	ccmF	-	NarL	norV	-	NarP	norV	-
ModE	oppC	-	NarL	ccmG	-	NarL	norW	-	NarP	norW	-
ModE	oppD	-	NarL	ccmH	-	NarL	nrfA	+-	NarP	nrfA	+
ModE	oppF	-	NarL	cydC	+	NarL	nrfB	+-	NarP	nrfB	+
MprA	emrA	-	NarL	cydD	+	NarL	nrfC	+-	NarP	nrfC	+
MprA	emrB	-	NarL	cysG	+	NarL	nrfD	+-	NarP	nrfD	+
MprA	mprA	-	NarL	dcuA	-	NarL	nrfE	+-	NarP	nrfE	+
MtlR	mtlA	-	NarL	dcuB	-	NarL	nrfF	+-	NarP	nrfF	+
MtlR	mtlD	-	NarL	dcuR	-	NarL	nrfG	+-	NarP	nrfG	+
MtlR	mtlR	-	NarL	dcuS	-	NarL	nuoA	+	NarP	yeaR	+
Nac	asnC	-	NarL	dmsA	-	NarL	nuoB	+	NarP	yoaG	+
Nac	codA	+	NarL	dmsB	-	NarL	nuoC	+	NarP	ytfE	+
Nac	codB	+	NarL	dmsC	-	NarL	nuoE	+	NhaR	nhaA	+
Nac	gabD	+	NarL	fdhF	-	NarL	nuoF	+	NhaR	nhaR	+
Nac	gabP	+	NarL	fdnG	+	NarL	nuoG	+	NhaR	osmC	+
Nac	gabT	+	NarL	fdnH	+	NarL	nuoH	+	NhaR	pgaA	+
Nac	gdhA	-	NarL	fdnI	+	NarL	nuoI	+	NhaR	pgaB	+
Nac	gltB	-	NarL	focA	-	NarL	nuoJ	+	NhaR	pgaC	+
Nac	gltD	-	NarL	frdA	-	NarL	nuoK	+	NhaR	pgaD	+
Nac	gltF	-	NarL	frdB	-	NarL	nuoL	+	NikR	nikA	-
Nac	mioC	-	NarL	frdC	-	NarL	nuoM	+	NikR	nikB	-
Nac	mnmG	-	NarL	frdD	-	NarL	nuoN	+	NikR	nikC	-
Nac	nac	-	NarL	fumB	-	NarL	pflB	-	NikR	nikD	-
Nac	nupC	+	NarL	hcp	+	NarL	torA	-	NikR	nikE	-
Nac	serA	-	NarL	hcr	+	NarL	torC	-	NikR	nikR	-
NadR	nadB	-	NarL	hyaA	-	NarL	torD	-	NorR	norR	-
NadR	pncB	-	NarL	hyaB	-	NarL	ubiA	-	NorR	norV	+
NagC	chbA	-	NarL	hyaC	-	NarL	ubiC	-	NorR	norW	+
NagC	chbB	-	NarL	hyaD	-	NarL	yeaR	+	NrdR	nrdA	-
NagC	chbC	-	NarL	hyaE	-	NarL	yoaG	+	NrdR	nrdB	-
NagC	chbF	-	NarL	hyaF	-	NarL	ytfE	+	NrdR	nrdD	-
NagC	chbG	-	NarL	hybA	-	NarP	ccmA	+-	NrdR	nrdE	-
NagC	chbR	-	NarL	hybB	-	NarP	ccmB	+-	NrdR	nrdF	-
NagC	fimB	+	NarL	hybC	-	NarP	ccmC	+-	NrdR	nrdG	-
NagC	glmS	+-	NarL	hybD	-	NarP	ccmD	+-	NrdR	nrdH	-
NagC	glmU	+-	NarL	hybE	-	NarP	ccmE	+-	NrdR	nrdI	-
NagC	manX	-	NarL	hybF	-	NarP	ccmF	+-	NsrR	hcp	-
NagC	manY	-	NarL	hybG	-	NarP	ccmG	+-	NsrR	hcr	-
NagC	manZ	-	NarL	hybO	-	NarP	ccmH	+-	NsrR	hmp	-
NagC	nagA	-	NarL	moeA	+	NarP	cysG	+	NsrR	nrfA	-
NagC	nagB	-	NarL	moeB	+	NarP	fdhF	+	NsrR	nrfB	-
NagC	nagC	-	NarL	napA	-	NarP	fdnG	-	NsrR	nrfC	-
NagC	nagD	-	NarL	napB	-	NarP	fdnH	-	NsrR	nrfD	-
NagC	nagE	-	NarL	napC	-	NarP	fdnI	-	NsrR	nrfE	-
NagC	nanC	-	NarL	napD	-	NarP	hcp	+	NsrR	nrfF	-
NagC	yjhT	-	NarL	napF	-	NarP	hcr	+	NsrR	nrfG	-
NanR	fimB	+	NarL	napG	-	NarP	hyaA	-	NsrR	tehA	-
NanR	nanA	-	NarL	napH	-	NarP	hyaB	-	NsrR	tehB	-
NanR	nanC	-	NarL	narG	+	NarP	hyaC	-	NsrR	yeaR	-
NanR	nanE	-	NarL	narH	+	NarP	hyaD	-	NsrR	ygbA	-
NanR	nanK	-	NarL	narI	+	NarP	hyaE	-	NsrR	yoaG	-
NanR	nanT	-	NarL	narJ	+	NarP	hyaF	-	NsrR	ytfE	-
NanR	yhcH	-	NarL	narK	+	NarP	napA	+-	NtrC	amtB	+
NanR	yjhT	-	NarL	nikA	-	NarP	napB	+-	NtrC	argT	+
NarL	adhE	-	NarL	nikB	-	NarP	napC	+-	NtrC	astA	+
NarL	aspA	-	NarL	nikC	-	NarP	napD	+-	NtrC	astB	+
NarL	caiF	-	NarL	nikD	-	NarP	napF	+-	NtrC	astC	+

NtrC	astD	+	OxyR	hemH	+	PhoB	phoU	+	PurR	gcvH	-
NtrC	astE	+	OxyR	katG	+	PhoB	pitB	-	PurR	gcvP	-
NtrC	cbl	+	OxyR	oxyR	-	PhoB	psiE	+	PurR	gcvT	-
NtrC	ddpA	+	OxyR	sufA	+	PhoB	psiF	+	PurR	glnB	-
NtrC	ddpB	+	OxyR	sufB	+	PhoB	pstA	+	PurR	glyA	-
NtrC	ddpC	+	OxyR	sufC	+	PhoB	pstB	+	PurR	guaA	-
NtrC	ddpD	+	OxyR	sufD	+	PhoB	pstC	+	PurR	guaB	-
NtrC	ddpF	+	OxyR	sufE	+	PhoB	pstS	+	PurR	hflD	-
NtrC	ddpX	+	OxyR	sufS	+	PhoB	ugpA	+-	PurR	prs	-
NtrC	glnA	+-	OxyR	trxC	+	PhoB	ugpB	+-	PurR	purA	-
NtrC	glnG	+-	OxyR	uof	+	PhoB	ugpC	+-	PurR	purB	-
NtrC	glnH	+-	OxyR	yhjA	+	PhoB	ugpE	+-	PurR	purC	-
NtrC	glnK	+	PaaX	maoC	-	PhoB	ugpQ	+-	PurR	purD	-
NtrC	glnL	+-	PaaX	paaA	-	PhoB	yibD	+	PurR	purE	-
NtrC	glnP	+-	PaaX	paaB	-	PhoP	acrA	-	PurR	purF	-
NtrC	glnQ	+-	PaaX	paaC	-	PhoP	acrB	-	PurR	purH	-
NtrC	hisJ	+	PaaX	paaD	-	PhoP	argD	-	PurR	purK	-
NtrC	hisM	+	PaaX	paaE	-	PhoP	borD	+	PurR	purL	-
NtrC	hisP	+	PaaX	paaF	-	PhoP	dcuD	-	PurR	purM	-
NtrC	hisQ	+	PaaX	paaG	-	PhoP	fadL	+	PurR	purN	-
NtrC	nac	+	PaaX	paaH	-	PhoP	hemL	+	PurR	purR	-
NtrC	potF	+	PaaX	paaI	-	PhoP	malS	+	PurR	pyrC	-
NtrC	potG	+	PaaX	paaJ	-	PhoP	metB	+	PurR	pyrD	-
NtrC	potH	+	PaaX	paaK	-	PhoP	metL	+	PurR	speA	-
NtrC	potI	+	PdhR	aceE	-	PhoP	mgrB	+	PurR	speB	-
NtrC	rutA	+	PdhR	aceF	-	PhoP	mgtA	+	PurR	ubiX	-
NtrC	rutB	+	PdhR	fecA	+	PhoP	nagA	+	PutA	putA	-
NtrC	rutC	+	PdhR	fecB	+	PhoP	pagP	+	QseB	flhC	+
NtrC	rutD	+	PdhR	fecC	+	PhoP	phoP	+-	QseB	flhD	+
NtrC	rutE	+	PdhR	fecD	+	PhoP	phoQ	+-	QseB	qseB	+
NtrC	rutF	+	PdhR	fecE	+	PhoP	purD	+	QseB	qseC	+
NtrC	rutG	+	PdhR	lldD	+	PhoP	purH	+	RbsR	rbsA	-
NtrC	yeaG	+	PdhR	lldP	+	PhoP	rstA	+	RbsR	rbsB	-
NtrC	yeaH	+	PdhR	lldR	+	PhoP	rstB	+	RbsR	rbsC	-
NtrC	ygjG	+	PdhR	lpd	-	PhoP	rutA	+	RbsR	rbsD	-
NtrC	yhdW	+	PdhR	pdhR	-	PhoP	rutB	+	RbsR	rbsK	-
NtrC	yhdX	+	PdhR	yfiD	-	PhoP	rutC	+	RbsR	rbsR	-
NtrC	yhdY	+	PepA	carA	-	PhoP	rutD	+	RcnR	rcnA	-
NtrC	yhdZ	+	PepA	carB	-	PhoP	rutE	+	RcsAB	bdm	+
OmpR	bola	-	PhoB	amn	+	PhoP	rutF	+	RcsAB	csgD	-
OmpR	csgD	+	PhoB	argP	+	PhoP	rutG	+	RcsAB	csgE	-
OmpR	csgE	+	PhoB	asr	+	PhoP	slyB	+-	RcsAB	csgF	-
OmpR	csgF	+	PhoB	eda	-	PhoP	treR	-	RcsAB	csgG	-
OmpR	csgG	+	PhoB	phnC	+	PhoP	ybjG	+	RcsAB	flhC	-
OmpR	fadL	-	PhoB	phnD	+	PhoP	yrbL	+	RcsAB	flhD	-
OmpR	flhC	-	PhoB	phnE	+	PrpR	prpB	+	RcsAB	ftsA	+
OmpR	flhD	-	PhoB	phnF	+	PrpR	prpC	+	RcsAB	ftsZ	+
OmpR	micF	+	PhoB	phnG	+	PrpR	prpD	+	RcsAB	osmB	+
OmpR	nmpC	-	PhoB	phnH	+	PrpR	prpE	+	RcsAB	osmC	+
OmpR	ompC	+	PhoB	phnI	+	PrpR	prpR	-	RcsAB	rcsA	+
OmpR	ompF	+-	PhoB	phnJ	+	PspF	pspA	+	RcsAB	sra	+
OmpR	omrA	+	PhoB	phnK	+	PspF	pspB	+	RcsAB	wcaA	+
OmpR	omrB	+	PhoB	phnL	+	PspF	pspC	+	RcsAB	wcaB	+
OmpR	sra	-	PhoB	phnM	+	PspF	pspD	+	RcsAB	wza	+
OmpR	tppB	+	PhoB	phnN	+	PspF	pspE	+	RcsAB	wzb	+
OxyR	ahpC	+	PhoB	phnO	+	PspF	pspF	-	RcsAB	wzc	+
OxyR	ahpF	+	PhoB	phnP	+	PspF	pspG	+	RcsAB	yjbE	+
OxyR	dps	+	PhoB	phoA	+	PurR	carA	-	RcsAB	yjbF	+
OxyR	flu	-	PhoB	phoB	+	PurR	carB	-	RcsAB	yjbG	+
OxyR	fur	+	PhoB	phoE	+	PurR	codA	-	RcsAB	yjbH	+
OxyR	gor	+	PhoB	phoH	+	PurR	codB	-	RhaR	rhaR	+
OxyR	grxA	+	PhoB	phoR	+	PurR	cvpA	-	RhaR	rhaS	+

RhaS	rhaA	+	SoxR	soxR	-	TorR	gadX	-	UlaR	ulaB	-
RhaS	rhaB	+	SoxR	soxS	+	TorR	hdeA	+	UlaR	ulaC	-
RhaS	rhaD	+	SoxS	acrA	+	TorR	hdeB	+	UlaR	ulaD	-
RhaS	rhaT	+	SoxS	acrB	+	TorR	tnaA	+	UlaR	ulaE	-
Rob	acrA	+	SoxS	fldA	+	TorR	tnaB	+	UlaR	ulaF	-
Rob	acrB	+	SoxS	fldB	+	TorR	tnaC	+	UlaR	ulaG	-
Rob	aslB	+	SoxS	fpr	+	TorR	torA	+	UxuR	gntP	-
Rob	fumC	+	SoxS	fumC	+	TorR	torC	+	UxuR	uidA	-
Rob	inaA	+	SoxS	fur	+	TorR	torD	+	UxuR	uidB	-
Rob	marA	+	SoxS	inaA	+	TorR	torR	-	UxuR	uidC	-
Rob	marB	+	SoxS	marA	+	TorR	yhiD	+	UxuR	uxuA	-
Rob	marR	+	SoxS	marB	+	TreR	treB	-	UxuR	uxuB	-
Rob	micF	+	SoxS	marR	+	TreR	treC	-	UxuR	uxuR	-
Rob	nfo	+	SoxS	micF	+	TrpR	aroH	-	XapR	xapA	+
Rob	sodA	+	SoxS	nfo	+	TrpR	aroL	-	XapR	xapB	+
Rob	ybiS	+	SoxS	nfsA	+	TrpR	aroM	-	XylR	xylA	+
Rob	yfhD	+	SoxS	poxB	+	TrpR	mtr	-	XylR	xylB	+
Rob	zwf	+	SoxS	pqiA	+	TrpR	trpA	-	XylR	xylF	+
RstA	asr	+	SoxS	pqiB	+	TrpR	trpB	-	XylR	xylG	+
RstA	csgD	-	SoxS	ribA	+	TrpR	trpC	-	XylR	xylH	+
RstA	csgE	-	SoxS	rimK	+	TrpR	trpD	-	XylR	xylR	+
RstA	csgF	-	SoxS	sodA	+	TrpR	trpE	-	YdeO	gadE	+
RstA	csgG	-	SoxS	soxS	-	TrpR	trpL	-	YdeO	mdtE	+
RstA	narG	+	SoxS	uof	+	TrpR	trpR	-	YdeO	mdtF	+
RstA	narH	+	SoxS	ybjC	+	TrpR	yaiA	-	YeiL	yeiL	+
RstA	narI	+	SoxS	ybjN	+	TyrR	aroF	-	YiaJ	lyx	-
RstA	narJ	+	SoxS	yodA	+	TyrR	aroG	-	YiaJ	sgbE	-
RstA	ompF	-	SoxS	zwf	+	TyrR	aroL	-	YiaJ	sgbH	-
RtcR	rtcA	+	TdcA	tdcA	+	TyrR	aroM	-	YiaJ	sgbU	-
RtcR	rtcB	+	TdcA	tdcB	+	TyrR	aroP	-	YiaJ	yiaK	-
SdiA	ftsA	-	TdcA	tdcC	+	TyrR	folA	+	YiaJ	yiaL	-
SdiA	ftsQ	+-	TdcA	tdcD	+	TyrR	mtr	+	YiaJ	yiaM	-
SdiA	ftsZ	-	TdcA	tdcE	+	TyrR	tyrA	-	YiaJ	yiaN	-
SgrR	setA	+	TdcA	tdcF	+	TyrR	tyrB	-	YiaJ	yiaO	-
SgrR	sgrR	-	TdcA	tdcG	+	TyrR	tyrP	+-	ZntR	zntA	+
SgrR	sgrS	+	TdcR	tdcA	+	TyrR	tyrR	-	ZraR	zraP	+
SgrR	sroA	-	TdcR	tdcB	+	TyrR	yaiA	-	ZraR	zraR	+
SgrR	tbpA	-	TdcR	tdcC	+	UhpA	uhpT	+	ZraR	zraS	+
SgrR	thiP	-	TdcR	tdcD	+	UidR	uidA	-	Zur	znuA	-
SgrR	thiQ	-	TdcR	tdcE	+	UidR	uidB	-	Zur	znuB	-
SgrR	yfdZ	+	TdcR	tdcF	+	UidR	uidC	-	Zur	znuC	-
SlyA	hlyE	+	TdcR	tdcG	+	UidR	uidR	-			
SoxR	fumC	+	TorR	gadA	-	UlaR	ulaA	-			

List S4. *S. cerevisiae* transcriptional regulatory network. In this tab delimited format, the regulator name is followed by its target. The data were obtained from various biochemical and genetic experiments (T. I. Lee *et al.*, *Science* **298**, 799, 2002, C. T. Harbison *et al.*, *Nature* **431**, 99, 2004, C. E. Horak *et al.*, *Genes Dev* **16**, 3017, 2002, V. V. Svetlov, T. G. Cooper, *Yeast* **11**, 1439, 1995).

YAL051W	YAL016W	YAL051W	YPL263C	YBL103C	YDR084C
YAL051W	YAL034WA	YAL051W	YPR148C	YBL103C	YDR127W
YAL051W	YAL035CA	YBL005W	YBL006C	YBL103C	YDR179C
YAL051W	YAL035W	YBL005W	YBR008C	YBL103C	YDR179WA
YAL051W	YAL036C	YBL005W	YDR011W	YBL103C	YDR210WD
YAL051W	YBL089W	YBL005W	YDR072C	YBL103C	YDR314C
YAL051W	YBR019C	YBL005W	YDR406W	YBL103C	YDR317W
YAL051W	YBR020W	YBL005W	YDR415C	YBL103C	YDR482C
YAL051W	YBR127C	YBL005W	YDR416W	YBL103C	YDR483W
YAL051W	YBR150C	YBL005W	YDR468C	YBL103C	YDR508C
YAL051W	YBR151W	YBL005W	YDR469W	YBL103C	YDR510W
YAL051W	YBR187W	YBL005W	YGR281W	YBL103C	YDR519W
YAL051W	YBR214W	YBL005W	YHR064C	YBL103C	YDR522C
YAL051W	YCR020CA	YBL005W	YJL219W	YBL103C	YDR540C
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YDR213W	YBR109C	YDR216W	YDR256C	YDR253C	YDR256C
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YDR213W	YBR159W	YDR216W	YFR007W	YDR253C	YDR545W
YDR213W	YCL002C	YDR216W	YFR044C	YDR253C	YEL072W
YDR213W	YCL006C	YDR216W	YFR045W	YDR253C	YER007CA
YDR213W	YCL007C	YDR216W	YGR098C	YDR253C	YER015W

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YDR501W	YER135C	YDR501W	YJR060W	YEL009C	YBL102W
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YDR501W	YER139C	YDR501W	YKL087C	YEL009C	YBR043C
YDR501W	YER140W	YDR501W	YKL108W	YEL009C	YBR046C
YDR501W	YER162C	YDR501W	YLL067C	YEL009C	YBR047W
YDR501W	YER179W	YDR501W	YLR035CA	YEL009C	YBR068C
YDR501W	YFL011W	YDR501W	YLR038C	YEL009C	YBR104W
YDR501W	YFL034CA	YDR501W	YLR089C	YEL009C	YBR112C
YDR501W	YFL034W	YDR501W	YLR090W	YEL009C	YBR114W
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YDR501W	YFR049W	YDR501W	YLR115W	YEL009C	YBR143C
YDR501W	YFR057W	YDR501W	YLR272C	YEL009C	YBR144C
YDR501W	YGL050W	YDR501W	YML132W	YEL009C	YBR145W
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YDR501W	YGL114W	YDR501W	YMR110C	YEL009C	YBR162C
YDR501W	YGL159W	YDR501W	YMR231W	YEL009C	YBR162WA
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YDR501W	YGL195W	YDR501W	YNL284CA	YEL009C	YBR249C
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YDR501W	YGR112W	YDR501W	YNR058W	YEL009C	YCR023C
YDR501W	YGR120C	YDR501W	YNR061C	YEL009C	YCR053W
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YDR501W	YHR136C	YDR501W	YPR047W	YEL009C	YDR244W
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YDR501W	YIL131C	YDR520C	YBR286W	YEL009C	YEL062W
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YER040W	YDL198C	YER040W	YJL173C	YER111C	YBR078W
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YER040W	YDR090C	YER040W	YKR040C	YER111C	YCR064C
YER040W	YDR210W	YER040W	YKR042W	YER111C	YCR065W
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YER040W	YGL254W	YER040W	YNR006W	YER111C	YDR508C
YER040W	YGL255W	YER040W	YNR018W	YER111C	YDR509W
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YER040W	YGR183C	YER040W	YOL058W	YER111C	YDR524CB
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YER040W	YHL016C	YER040W	YOL159C	YER111C	YDR527W
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YER040W	YHR030C	YER040W	YPL056C	YER111C	YER011W
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YER111C	YLR254C	YER111C	YPL256C	YER169W	YLR336C
YER111C	YLR255C	YER111C	YPL267W	YER169W	YLR338W
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YER111C	YLR256WA	YER111C	YPR013C	YER169W	YLR341W
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YER169W	YPL015C	YFL021W	YJR109C	YFL044C	YER022W
YER169W	YPL251W	YFL021W	YJR110W	YFL044C	YGR127W
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YER184C	YDR294C	YFL021W	YKR098C	YFL044C	YNL260C
YER184C	YIL035C	YFL021W	YKR099W	YFL044C	YPR056W
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YER184C	YIR025W	YFL021W	YLR047C	YFR034C	YBR093C
YER184C	YNL210W	YFL021W	YLR048W	YFR034C	YBR152W
YER184C	YNL211C	YFL021W	YLR054C	YFR034C	YBR296C
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YIL131C	YBR163W	YIL131C	YHR143W	YIL131C	YPL032C
YIL131C	YCL054W	YIL131C	YHR183W	YIL131C	YPL116W
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YIL131C	YPL139C	YIR018W	YCL033C	YIR018W	YFL022C
YIL131C	YPL140C	YIR018W	YCL036W	YIR018W	YFL045C
YIL131C	YPL141C	YIR018W	YCL037C	YIR018W	YFL059W
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YIL131C	YPL177C	YIR018W	YCL066W	YIR018W	YFL062W
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YIL131C	YPR075C	YIR018W	YCR032W	YIR018W	YFR022W
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YIL131C	YPR119W	YIR018W	YCR040W	YIR018W	YGL103W
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YIL131C	YPR195C	YIR018W	YCR042C	YIR018W	YGL153W
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YIR017C	YCR081W	YIR018W	YCR107W	YIR018W	YGR140W
YIR017C	YDL089W	YIR018W	YDL075W	YIR018W	YGR148C
YIR017C	YDL090C	YIR018W	YDL076C	YIR018W	YGR149W
YIR017C	YDL149W	YIR018W	YDL082W	YIR018W	YGR168C
YIR017C	YDL151C	YIR018W	YDL083C	YIR018W	YGR187C
YIR017C	YDR144C	YIR018W	YDL114W	YIR018W	YGR194C
YIR017C	YDR145W	YIR018W	YDL115C	YIR018W	YGR195W
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YIR017C	YGR188C	YIR018W	YDL160C	YIR018W	YHL048W
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YIR017C	YLR023C	YIR018W	YDR227W	YIR018W	YHR036W
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YNL167C	YOR319W	YNL216W	YER116C	YNL216W	YLR048W
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YNL216W	YBR093C	YNL216W	YGL103W	YNL216W	YLR448W
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YNL216W	YCR012W	YNL216W	YGR148C	YNL216W	YMR015C
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YNL216W	YDL133CA	YNL216W	YHR174W	YNL216W	YNL162W
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YPR065W	YGL236C	YPR065W	YMR136W	YPR104C	YBR117C
YPR065W	YGR091W	YPR065W	YMR149W	YPR104C	YBR118W
YPR065W	YGR124W	YPR065W	YMR150C	YPR104C	YBR126C
YPR065W	YGR146C	YPR065W	YMR151W	YPR104C	YBR181C
YPR065W	YGR221C	YPR065W	YMR152W	YPR104C	YBR188C
YPR065W	YGR222W	YPR065W	YMR239C	YPR104C	YBR189W
YPR065W	YGR255C	YPR065W	YMR315W	YPR104C	YBR190W
YPR065W	YGR256W	YPR065W	YMR319C	YPR104C	YBR191W
YPR065W	YHR007C	YPR065W	YNL036W	YPR104C	YBR286W
YPR065W	YHR042W	YPR065W	YNL037C	YPR104C	YCL036W
YPR065W	YHR048W	YPR065W	YNL097C	YPR104C	YCL037C
YPR065W	YHR091C	YPR065W	YNL134C	YPR104C	YDL060W
YPR065W	YHR185C	YPR065W	YNL288W	YPR104C	YDL061C
YPR065W	YHR193C	YPR065W	YNL337W	YPR104C	YDL075W
YPR065W	YHR194W	YPR065W	YNL338W	YPR104C	YDL076C
YPR065W	YIL014CA	YPR065W	YNL339C	YPR104C	YDL082W
YPR065W	YIL014W	YPR065W	YOL025W	YPR104C	YDL083C
YPR065W	YIL015CA	YPR065W	YOL026C	YPR104C	YDL130W
YPR065W	YIL056W	YPR065W	YOL077WA	YPR104C	YDL133CA
YPR065W	YIL099W	YPR065W	YOL078W	YPR104C	YDL133W
YPR065W	YIL101C	YPR065W	YOL080C	YPR104C	YDL134C
YPR065W	YIL111W	YPR065W	YOL121C	YPR104C	YDL136W
YPR065W	YIL118W	YPR065W	YOL146W	YPR104C	YDL184C
YPR065W	YIL119C	YPR065W	YOL147C	YPR104C	YDL191W
YPR065W	YIL134CA	YPR065W	YOL156W	YPR104C	YDR024W
YPR065W	YIL134W	YPR065W	YOL157C	YPR104C	YDR025W
YPR065W	YIL135C	YPR065W	YOR032C	YPR104C	YDR064W
YPR065W	YIR019C	YPR065W	YOR042W	YPR104C	YDR384C
YPR065W	YIR020C	YPR065W	YOR178C	YPR104C	YDR385W
YPR065W	YIR020WB	YPR065W	YOR223W	YPR104C	YDR418W
YPR065W	YIR021W	YPR065W	YOR236W	YPR104C	YDR447C

YPR104C	YDR448W	YPR104C	YHR021C	YPR104C	YLR367W
YPR104C	YDR449C	YPR104C	YHR021WA	YPR104C	YLR387C
YPR104C	YDR450W	YPR104C	YHR141C	YPR104C	YLR388W
YPR104C	YDR470C	YPR104C	YHR142W	YPR104C	YLR406C
YPR104C	YDR471W	YPR104C	YHR203C	YPR104C	YLR406CA
YPR104C	YDR472W	YPR104C	YHR204W	YPR104C	YLR407W
YPR104C	YDR500C	YPR104C	YIL018W	YPR104C	YLR441C
YPR104C	YDR501W	YPR104C	YIL053W	YPR104C	YLR447C
YPR104C	YEL007W	YPR104C	YIL054W	YPR104C	YLR448W
YPR104C	YEL008W	YPR104C	YIL055C	YPR104C	YML024W
YPR104C	YEL009C	YPR104C	YIL069C	YPR104C	YML025C
YPR104C	YEL017CA	YPR104C	YIL133C	YPR104C	YML026C
YPR104C	YEL017W	YPR104C	YIL148W	YPR104C	YML062C
YPR104C	YEL054C	YPR104C	YIL149C	YPR104C	YML063W
YPR104C	YER056CA	YPR104C	YJL134W	YPR104C	YML064C
YPR104C	YER074W	YPR104C	YJL135W	YPR104C	YML073C
YPR104C	YER088C	YPR104C	YJL136C	YPR104C	YMR013C
YPR104C	YER101C	YPR104C	YJL177W	YPR104C	YMR056C
YPR104C	YER102W	YPR104C	YJL178C	YPR104C	YMR064W
YPR104C	YER116C	YPR104C	YJL188C	YPR104C	YMR116C
YPR104C	YER117W	YPR104C	YJL189W	YPR104C	YMR135C
YPR104C	YER130C	YPR104C	YJL190C	YPR104C	YMR136W
YPR104C	YER131W	YPR104C	YJL191W	YPR104C	YMR142C
YPR104C	YFL034CA	YPR104C	YJL192C	YPR104C	YMR143W
YPR104C	YFL034W	YPR104C	YJL200C	YPR104C	YMR194W
YPR104C	YFR031CA	YPR104C	YJR104C	YPR104C	YMR195W
YPR104C	YFR032C	YPR104C	YJR105W	YPR104C	YMR229C
YPR104C	YFR032CA	YPR104C	YJR123W	YPR104C	YMR230W
YPR104C	YFR032CB	YPR104C	YJR145C	YPR104C	YMR242C
YPR104C	YGL030W	YPR104C	YJR146W	YPR104C	YMR242WA
YPR104C	YGL031C	YPR104C	YJR147W	YPR104C	YNL067W
YPR104C	YGL100W	YPR104C	YKL006CA	YPR104C	YNL067WB
YPR104C	YGL103W	YPR104C	YKL006W	YPR104C	YNL068C
YPR104C	YGL104C	YPR104C	YKL156W	YPR104C	YNL069C
YPR104C	YGL123W	YPR104C	YKL180W	YPR104C	YNL096C
YPR104C	YGL124C	YPR104C	YKR057W	YPR104C	YNL162W
YPR104C	YGL135W	YPR104C	YKR094C	YPR104C	YNL162WA
YPR104C	YGL136C	YPR104C	YKR095W	YPR104C	YNL163C
YPR104C	YGL147C	YPR104C	YLL006W	YPR104C	YNL178W
YPR104C	YGL188C	YPR104C	YLL007C	YPR104C	YNL180C
YPR104C	YGL188CA	YPR104C	YLL043W	YPR104C	YNL302C
YPR104C	YGL189C	YPR104C	YLL045C	YPR104C	YNR017W
YPR104C	YGR027C	YPR104C	YLR029C	YPR104C	YOL039W
YPR104C	YGR027WA	YPR104C	YLR030W	YPR104C	YOL040C
YPR104C	YGR027WB	YPR104C	YLR047C	YPR104C	YOL109W
YPR104C	YGR033C	YPR104C	YLR048W	YPR104C	YOL120C
YPR104C	YGR034W	YPR104C	YLR061W	YPR104C	YOL121C
YPR104C	YGR085C	YPR104C	YLR074C	YPR104C	YOL127W
YPR104C	YGR117C	YPR104C	YLR075W	YPR104C	YOL128C
YPR104C	YGR118W	YPR104C	YLR166C	YPR104C	YOR095C
YPR104C	YGR148C	YPR104C	YLR167W	YPR104C	YOR096W
YPR104C	YGR149W	YPR104C	YLR183C	YPR104C	YOR161C
YPR104C	YGR150C	YPR104C	YLR184W	YPR104C	YOR182C
YPR104C	YGR213C	YPR104C	YLR185W	YPR104C	YOR183W
YPR104C	YGR214W	YPR104C	YLR264W	YPR104C	YOR184W
YPR104C	YHL001W	YPR104C	YLR287CA	YPR104C	YOR234C
YPR104C	YHL015W	YPR104C	YLR325C	YPR104C	YOR235W
YPR104C	YHL015WA	YPR104C	YLR326W	YPR104C	YOR292C
YPR104C	YHL016C	YPR104C	YLR333C	YPR104C	YOR293W
YPR104C	YHL033C	YPR104C	YLR337C	YPR104C	YOR312C
YPR104C	YHR019C	YPR104C	YLR340W	YPR104C	YOR344C
YPR104C	YHR020W	YPR104C	YLR344W	YPR104C	YOR354C

YPR104C	YOR355W	YPR104C	YPR102C	YPR199C	YCR107W
YPR104C	YOR369C	YPR104C	YPR103W	YPR199C	YDR052C
YPR104C	YPL056C	YPR104C	YPR131C	YPR199C	YDR210WD
YPR104C	YPL079W	YPR104C	YPR132W	YPR199C	YDR317W
YPR104C	YPL080C	YPR196W	YDR543C	YPR199C	YER007CA
YPR104C	YPL081W	YPR196W	YER189W	YPR199C	YGR190C
YPR104C	YPL082C	YPR196W	YER190W	YPR199C	YHR195W
YPR104C	YPL090C	YPR196W	YNL337W	YPR199C	YJR044C
YPR104C	YPL131W	YPR199C	YAL017W	YPR199C	YLR022C
YPR104C	YPL143W	YPR199C	YAL018C	YPR199C	YLR082C
YPR104C	YPL198W	YPR199C	YAL062W	YPR199C	YLR397C
YPR104C	YPL199C	YPR199C	YBR040W	YPR199C	YML048WA
YPR104C	YPL249CA	YPR199C	YCR039C	YPR199C	YMR086CA
YPR104C	YPR042C	YPR199C	YCR040W	YPR199C	YMR087W
YPR104C	YPR043W	YPR199C	YCR041W	YPR199C	YMR135WA
YPR104C	YPR080W	YPR199C	YCR096C		
YPR199C	YMR257C				

List S5. Regulatory network based on grouping a subset of the genes in *E.coli* by operon. The top list (Assignment of regulators to operons) shows the regulator name is followed by its target (an operon). The operon assignment came from the regulonDB (<http://regulondb.ccg.unam.mx/>). Each target was replaced by its operon to construct the hierarchy. The bottom list (operon hierarchy) shows the placement of the operon, representing a transcription factor, into the hierarchy.

Assignment of regulators to operons

AcrR	acrAB	ArcA	hemA-prfA-prmC	BetI	betT
AcrR	acrR	ArcA	hyaABCDEF	BirA	bioA
Ada	ada-alkB	ArcA	hybOABCDEFG	BirA	bioBFCD
Ada	aidB	ArcA	icd	BolA	ampC
Ada	alkA	ArcA	lldPRD	BolA	dacC
AdiY	adiA	ArcA	mdh	CRP	aceBAK
AgaR	agaR	ArcA	moeAB	CRP	acnA
AgaR	agaS-kbaY-agaBCDI	ArcA	ndh	CRP	acnB
AgaR	kbaZ-agaVWA	ArcA	nlpD-rpoS	CRP	acs-yjch-actP
AlaS	alaS	ArcA	nuoABCEFGHIJKLMN	CRP	aer
AllR	allA	ArcA	oppABCDF	CRP	agp
AllR	allS	ArcA	pdhR-aceEF-lpd	CRP	aldA
AllR	gcl-hyi-glxR-ybbVW-allB-ybbY-glxK	ArcA	ptsG	CRP	aldB
AllS	allDC-ylbA	ArcA	rhaT	CRP	ansB
AlpA	slp-dctR	ArcA	rpsJ-rplCDWB-rpsS-rplV-rpsC-rplP-rpmC-rpsQ	CRP	araBAD
AlsR	rpiB	ArcA	rutABCDEFG	CRP	araC
AlsR	rpiR-alsBACE	ArcA	sdhCDAB--sucABCD	CRP	araE
AppY	appCB-yccB-appA	ArcA	sodA	CRP	araFGH
AppY	hyaABCDEF	ArcA	ssb	CRP	araJ
AraC	araBAD	ArcA	tpx	CRP	argG
AraC	araC	ArcA	treBC	CRP	aspA-dcuA
AraC	araE	ArcA	ubiCA	CRP	bglGFB
AraC	araFGH	ArcA	uvrA	CRP	caiF
AraC	araJ	ArcA	xylFGHR	CRP	caiTABCDE
ArcA	aceBAK	ArcA	ydeA	CRP	cdd
ArcA	ackA-pta	ArcA	yfiD	CRP	chbBCARFG
ArcA	acnA	ArgP	dnaAN-recF	CRP	cirA
ArcA	acnB	ArgP	nrdAB	CRP	cpdB
ArcA	aldA	ArgR	argA	CRP	crp
ArcA	appCB-yccB-appA	ArgR	argCBH	CRP	csGDEFG
ArcA	betIBA	ArgR	argD	CRP	csiD-lhgO-gabDTP
ArcA	betT	ArgR	argE	CRP	csiE
ArcA	cadBA	ArgR	argF	CRP	cstA
ArcA	caiTABCDE	ArgR	argG	CRP	cyaA
ArcA	cydAB	ArgR	argI	CRP	cyoABCDE
ArcA	cydDC	ArgR	argR	CRP	cytR
ArcA	cyoABCDE	ArgR	argT-hisJQMP	CRP	dadAX
ArcA	dctA	ArgR	artJ	CRP	dctA
ArcA	dcuB-fumB	ArgR	artPIQM	CRP	dcuB-fumB
ArcA	dcuC	ArgR	astCADBE	CRP	dcuSR
ArcA	fadBA	ArgR	carAB	CRP	deoCABD
ArcA	fadD	ArgR	gltBDF	CRP	dgsA-ynfK
ArcA	fadE	ArgR	metY-yhbC-nusA-infB-rbfA-truB-rpsO-pnp	CRP	dsdXA
ArcA	fadIJ	ArsR	arsRBC	CRP	dusB-fis
ArcA	fadL	AscG	ascFB	CRP	ebgAC
ArcA	fnr	AscG	ascG	CRP	entCEBAH
ArcA	focA-pflB	AsnC	asnA	CRP	epd-pgk-fbaA
ArcA	fumA	AsnC	asnC-mioC-mnmG-gidB	CRP	exuT
ArcA	fumC	AtoC	atoDAEB	CRP	fadD
ArcA	gadAXW	BaeR	acrD	CRP	fadL
ArcA	gatYZABCD	BaeR	mdtABCD-baeSR	CRP	feaR
ArcA	glcDEFGBA	BaeR	spy	CRP	fecABCDE
ArcA	glpABC	BaeR	ycaC	CRP	fepA-entD
ArcA	glpD	BetI	betIBA	CRP	fiu
ArcA	gltA			CRP	fixABCX
				CRP	fldA-uof-fur

CRP	flhDC	CRP	mpl	CRP	ychH
CRP	focA-pflB	CRP	mtlADR	CRP	yfiD
CRP	fucAO	CRP	mutY-yggX-mltC-nupG	CRP	yhfA
CRP	fucPIKUR	CRP	nagBACD	CRP	yiaJ
CRP	fumA	CRP	nagE	CRP	yiaKLMNO-lyxK-sgbHUE
CRP	gadAXW	CRP	nanATEK-yhcH	CRP	zraSR
CRP	gadBC	CRP	nanCM	CadC	cadBA
CRP	gadE-mdtEF	CRP	nirBDC-cysG	CadC	cadC
CRP	galETKM	CRP	nlpD-rpoS	CaiF	caiTABCDE
CRP	galP	CRP	nmpC	CaiF	fixABCX
CRP	galS	CRP	nrdAB	Cbl	ssuEADCB
CRP	gapA-yeaD	CRP	nupC	Cbl	tauABCD
CRP	gatYZABCD	CRP	ompA	CdaR	cdaR
CRP	gcd	CRP	ompF	CdaR	garD
CRP	gdhA	CRP	ompR-envZ	CdaR	garPLRK-rmpB
CRP	glcC	CRP	osmY	CdaR	gudPXD
CRP	glgCAP	CRP	oxyR	ChbR	chbBCARFG
CRP	glgS	CRP	paaABCDEFGHIJK	CpxR	acrD
CRP	glnALG	CRP	pdhR-aceEF-lpd	CpxR	aroG
CRP	glpABC	CRP	pncB	CpxR	bacA
CRP	glpD	CRP	ppiA	CpxR	bamA-hlpA-lpxD-fabZ-lpxAB-rnhB-dnaE
CRP	glpEGR	CRP	proP	CpxR	cpXP
CRP	glpFKX	CRP	prpBCDE	CpxR	cpXRA
CRP	glpTQ	CRP	prpR	CpxR	csgBAC
CRP	gltA	CRP	psiE	CpxR	csgDEFG
CRP	gltBDF	CRP	ptsG	CpxR	degP
CRP	gntP	CRP	ptsHI-crr	CpxR	efeU_1U_2
CRP	gntRKU	CRP	putP	CpxR	ftnB
CRP	gntT	CRP	rbsDACBKR	CpxR	mdtABCD-baeSR
CRP	gntX-nfuA	CRP	relA-chpRA-mazG	CpxR	motAB-cheAW
CRP	grpE	CRP	rhaBAD	CpxR	ompC
CRP	guaBA	CRP	rhaSR	CpxR	ompF
CRP	gyrA	CRP	rhaT	CpxR	ppiA
CRP	hlyE	CRP	rpoH	CpxR	ppiD
CRP	hpt	CRP	sdhCDAB--sucABCD	CpxR	psd-yjeP
CRP	hupA	CRP	serA	CpxR	rdoA-dsbA
CRP	hupB	CRP	serC-aroA	CpxR	rpoE-rseABC
CRP	hyfABCDEFGHIJR-focB	CRP	sodA	CpxR	rpoH
CRP	idnDOTR	CRP	sodB	CpxR	smpA
CRP	idnK	CRP	sohB	CpxR	spy
CRP	ivbL-ilvBN	CRP	speC	CpxR	tsr
CRP	kbaZ-agaVWA	CRP	spf	CpxR	ung
CRP	lacZYA	CRP	srlAEBD-gutM-srlR-gutQ	CpxR	xerD-dsbC-recJ-prfB-lysS
CRP	lsrACDBFG	CRP	tdcABCDEFGH	CpxR	ybaJ-hha
CRP	malEFG	CRP	tnaCAB	CpxR	yccA
CRP	malI	CRP	treBC	CpxR	ycfS
CRP	malK-lamB-malM	CRP	trxA	CpxR	ydeH
CRP	malS	CRP	tsx	CpxR	yebE
CRP	malT	CRP	ubiG	CpxR	yidQ
CRP	malXY	CRP	udp	CpxR	yqjAB
CRP	manXYZ	CRP	ugpBAECQ	CsgD	adrA
CRP	maoC	CRP	uhpT	CsgD	csgBAC
CRP	marRAB	CRP	uidABC	CsgD	csgDEFG
CRP	mdh	CRP	ulaABCDEFGH	CsgD	pepD
CRP	melAB	CRP	uxaB	CsiR	csiD-lhgO-gabDTP
CRP	melR	CRP	uxaCA	CspA	gyrA
CRP	metK	CRP	uxuAB	CspA	hns
CRP	metY-yhbC-nusA-infB-rbfA-truB-rpsO-pnp	CRP	uxuR	CueR	copA
CRP	mgIBAC	CRP	xseA	CueR	cueO
CRP	mhpABCDFE	CRP	xylAB	CueR	moaABCDE
CRP	modABC	CRP	xylFGHR	CusR	cusCFBA

CusR	cusRS	FNR	aldA	FNR	rplM-rpsI
CynR	cynR	FNR	ansB	FNR	rpsJ-rplCDWB-rpsS-rplV-rpsC-rplP-rpmC-rpsQ
CynR	cynTSX	FNR	arcA	FNR	rpsP-rimM-trmD-rplS
CysB	cbl	FNR	aspA-dcuA	FNR	scpA-argK-scpBC
CysB	cysB	FNR	bcsABZC	FNR	sdhCDAB--sucABCD
CysB	cysDNC	FNR	cadC	FNR	sodA
CysB	cysJIH	FNR	caiF	FNR	ssuEADCB
CysB	cysK	FNR	caiTABCDE	FNR	tar-tap-cherBYZ
CysB	cysPUWAM	FNR	cydAB	FNR	tdcABCDEFGF
CysB	hslJ	FNR	cydDC	FNR	thrS-infC-rpmI-rplT-pheMST-ihfA
CysB	ssuEADCB	FNR	cyoABCDE	FNR	tpx
CysB	tauABCD	FNR	dcuB-fumB	FNR	ubiCA
CytR	cdd	FNR	dcuC	FNR	upp-uraA
CytR	cytR	FNR	dcuSR	FNR	uxaCA
CytR	deoCABD	FNR	dmsABC	FNR	xdhABC
CytR	mutY-yggX-mltC-nupG	FNR	dppABCDF	FNR	ycaC
CytR	nupC	FNR	emrKY	FNR	ychO
CytR	ppiA	FNR	fdhF	FNR	yecR
CytR	rpoH	FNR	fdnGHI	FNR	yeiL
CytR	tsx	FNR	feoAB	FNR	yfiD
CytR	udp	FNR	fes-ybdZ-entF-fepE	FNR	ygbA
DcuR	dctA	FNR	fixABCX	FNR	yhjA
DcuR	dcuB-fumB	FNR	fnr	FNR	ynfEFGH-dmsD
DcuR	frdABCD	FNR	focA-pflB	FNR	yqjI
DeoR	deoCABD	FNR	frdABCD	FNR	ysgA
DeoR	mutY-yggX-mltC-nupG	FNR	fumA	FNR	ytfE
DeoR	tsx	FNR	gadAXW	FabR	fabA
DgsA	dgsA-ynfK	FNR	gapC_1C_2	FabR	fabB
DgsA	malT	FNR	garPLRK-rnpB	FadR	fabA
DgsA	manXYZ	FNR	gcvTHP	FadR	fabB
DgsA	ptsG	FNR	glpABC	FadR	fabA
DgsA	ptsHI-crr	FNR	glpTQ	FadR	fabB
DhaR	dhaKLM	FNR	gltBDF	FadR	fadBA
DhaR	dhaR	FNR	hcp-hcr	FadR	fadD
DicA	dicB-ydfDE-insD-intQ	FNR	hemA-prfA-prmC	FadR	fadE
DnaA	aldA	FNR	hlyE	FadR	fadIJ
DnaA	dnaAN-recF	FNR	hmp	FadR	fadL
DnaA	guaBA	FNR	hyfABCDEFGHJIJR-focB	FadR	icIR
DnaA	nrdAB	FNR	hypABCDE-fhlA	FadR	uspA
DnaA	polA	FNR	katG	FeaR	feaB
DnaA	rpoH	FNR	malPQ	FhIA	fdhF
DsdC	dsdC	FNR	moaABCDE	FhIA	hycABCDEFGHFI
DsdC	dsdXA	FNR	moeAB	FhIA	hydN-hypF
EbgR	ebgAC	FNR	napFDAGHBC-ccmABCDEFGH	FhIA	hyfABCDEFGHJIJR-focB
EnvY	moaABCDE	FNR	narGHJI	FhIA	hypABCDE-fhlA
EnvY	ompC	FNR	narK	Fis	acnB
EnvY	ompF	FNR	narXL	Fis	acs-yjcH-actP
EvgA	acrD	FNR	ndh	Fis	adhE
EvgA	emrKY	FNR	nikABCDEF	Fis	alaWX
EvgA	evgAS	FNR	nirBDC-cysG	Fis	aldB
EvgA	gadE-mdtEF	FNR	norVW	Fis	argU
ExuR	exuR	FNR	nrdDG	Fis	argW
ExuR	exuT	FNR	nrfABCDEFGF	Fis	argX-hisR-leuT-prom
ExuR	uxaB	FNR	nuoABCEFGHIJKLMN	Fis	aspV
ExuR	uxaCA	FNR	ompW	Fis	bdm-sra
ExuR	uxuAB	FNR	ompX	Fis	bglGFB
ExuR	uxuR	FNR	pdhR-aceEF-lpd	Fis	crp
FNR	ackA-pta	FNR	pepT	Fis	dcuB-fumB
FNR	acnA	FNR	pitA	Fis	deoCABD
FNR	acrEF	FNR	pstSCAB-phoU	Fis	dusB-fis
FNR	adhE	FNR	purMN	Fis	garPLRK-rnpB
FNR	aer			Fis	glnALG

Fis	glnHPQ	FlhDC	mdh	Fur	rcnR
Fis	glyU	FlhDC	mgIBAC	Fur	ryhB
Fis	guaBA	FlhDC	napFDAGHBC-	Fur	sdhCDAB--sucABCD
Fis	gyrA		ccmABCDEFGH	Fur	sodA
Fis	gyrB	FlhDC	nrfABCDEFG	Fur	sodB
Fis	hns	FlhDC	ppdAB-ygdB-ppdC-recC	Fur	sufABCDS
Fis	hupA	FlhDC	ycgR	Fur	tonB
Fis	hupB	FlhDC	yecR	Fur	ygaC
Fis	imp-surA-pdxA-ksgA-apaGH	FlhDC	ygbJK	Fur	yhhY
Fis	leuQPV	FlhDC	yhjH	GadE	bamA-hlpA-lpxD-fabZ-lpxAB-
Fis	leuX	FruR	aceBAK		rnhB-dnaE
Fis	lysT-valT-lysW	FruR	acnA	GadE	cadBA
Fis	marRAB	FruR	acnB	GadE	cyoABCDE
Fis	metT-leuW-glnUW-metU-glnVX	FruR	adhE	GadE	fliC
Fis	metY-yhbC-nusA-infB-rbfA-truB-	FruR	cydAB	GadE	gadAXW
rpsO-pnp		FruR	edd-eda	GadE	gadBC
Fis	mgIBAC	FruR	epd-pgk-fbaA	GadE	gadE-mdtEF
Fis	mtlADR	FruR	fruBKA	GadE	gltBDF
Fis	ndh	FruR	gapA-yeaD	GadE	gnd
Fis	nirBDC-cysG	FruR	glk	GadE	hdeAB-yhiD
Fis	nrdAB	FruR	hydN-hypF	GadE	hdeD
Fis	nrfABCDEFG	FruR	icd	GadE	lrp
Fis	nuoABCEFGHIJKLMN	FruR	mtlADR	GadE	purA
Fis	osmE	FruR	nirBDC-cysG	GadE	rcsA
Fis	pdhR-aceEF-lpd	FruR	pck	GadW	gadAXW
Fis	pheU	FruR	pfkA	GadW	gadBC
Fis	pheV	FruR	pps	GadW	gadE-mdtEF
Fis	proK	FruR	ptsHI-crr	GadX	asnB
Fis	proL	FruR	pykF	GadX	cadBA
Fis	proP	FruR	pyrG-eno	GadX	clpPX-lon
Fis	ptsG	FruR	yahA	GadX	gadAXW
Fis	queA	FucR	fucAO	GadX	gadBC
Fis	relA-chpRA-mazG	FucR	fucPIKUR	GadX	gadE-mdtEF
Fis	rrsA-ileT-alaT-rrlA-rrfA	Fur	cirA	GadX	glnK-amtB
Fis	rrsB-gltT-rrlB-rrfB	Fur	cyoABCDE	GadX	hdeAB-yhiD
Fis	rrsC-gltU-rrlC-rrfC	Fur	dcuB-fumB	GadX	hdeD
Fis	rrsD-ileU-alaU-rrlD-rrfD-thrV-	Fur	entCEBAH	GadX	hns
rrfF		Fur	entS	GadX	nlpD-rpoS
Fis	rrsE-gltV-rrlE-rrfE	Fur	exbBD	GadX	ybaST
Fis	rrsG-gltW-rrlG-rrfG	Fur	fecABCDE	GalR	galETKM
Fis	rrsH-ileV-alaV-rrlH-rrfH	Fur	fecIR	GalR	galP
Fis	serT	Fur	feoAB	GalR	galR
Fis	serX	Fur	fepA-entD	GalR	galS
Fis	thrU-tyrU-glyT-thrT-tufB	Fur	fepB	GalR	mgIBAC
Fis	thrW	Fur	fepDGC	GalS	galETKM
Fis	topA	Fur	fes-ybdZ-entF-fepE	GalS	galP
Fis	trmA	Fur	fhuACDB	GalS	galS
Fis	tyrTV-tpr	Fur	fhuE	GalS	mgIBAC
Fis	valUXY-lysV	Fur	fhuF	GatR	gatYZABCD
Fis	xyIFGHR	Fur	fiu	GcvA	gcvA
Fis	ygiG	Fur	fldA-uof-fur	GcvA	gcvB
FlhDC	flgAMN	Fur	flhDC	GcvA	gcvTHP
FlhDC	flgBCDEFGHIJ	Fur	gpmA	GlcC	glcC
FlhDC	flhBAE	Fur	hmp	GlcC	glcDEFGBA
FlhDC	fliAZY	Fur	metH	GlpR	glpABC
FlhDC	fliDST	Fur	metJ	GlpR	glpD
FlhDC	fliE	Fur	mntH	GlpR	glpFKX
FlhDC	fliFGHIJK	Fur	nohA-ydfN-tfaQ	GlpR	glpTQ
FlhDC	fliLMNOPQR	Fur	nrdHIEF	GntR	edd-eda
FlhDC	glpABC	Fur	ompF	GntR	gntRKU
FlhDC	gltI-sroC-gltJKL	Fur	purR	GntR	gntT
FlhDC	hydN-hypF	Fur	rcnA	GntR	gntX-nfuA

GntR	idnDOTR	HdfR	flhDC	IHF	ssuEADCB
GntR	idnK	HipB	hipBA	IHF	sufABCDEF
GutM	srlAEBD-gutM-srlR-gutQ	HyfR	hyfABCDEFGHIJR-focB	IHF	tdcABCDEFG
GutR	srlAEBD-gutM-srlR-gutQ	IHF	aceBAK	IHF	thrS-infC-rpmI-rpIT-pheMST-
H-NS	adiA	IHF	acs-yjcH-actP	ihfA	
H-NS	appY	IHF	adiA	IHF	tyrP
H-NS	argT-hisJQMP	IHF	amiA-hemF	IHF	ubiCA
H-NS	bglGFB	IHF	atoDAEB	IHF	ulaABCDEF
H-NS	bolA	IHF	bdm-sra	IHF	ulaG
H-NS	cadBA	IHF	caiTABCDE	IHF	uspA
H-NS	caiF	IHF	carAB	IHF	uspB
H-NS	chiA	IHF	cmk-rpsA-ihfB	IHF	yeiL
H-NS	csiD-lhgO-gabDTP	IHF	cysJIH	IHF	ygjG
H-NS	csiE	IHF	dcuD	IHF	yiaJ
H-NS	cspD	IHF	dmsABC	IHF	yiaKLMNO-lyxK-sgbHUE
H-NS	cydAB	IHF	dppABCDF	IHF	yjbEFGH
H-NS	cysPUWAM	IHF	dps	IclR	aceBAK
H-NS	degP	IHF	dsb-fis	IclR	iclR
H-NS	fes-ybdZ-entF-fepE	IHF	ecpD-htrE	IdnR	gntRKU
H-NS	fimAICDFGH	IHF	fimAICDFGH	IdnR	idnDOTR
H-NS	fimB	IHF	fimB	IdnR	idnK
H-NS	fimE	IHF	flhDC	IlvY	ilvC
H-NS	flhDC	IHF	focA-pflB	IlvY	ilvY
H-NS	fliAZY	IHF	folA	IscR	erpA
H-NS	fliC	IHF	gcd	IscR	hyaABCDEF
H-NS	gadAXW	IHF	glcDEFGBA	IscR	iscRSUA
H-NS	galETKM	IHF	glnHPQ	IscR	napFDAGHBC-ccmABCDEFGH
H-NS	garPLRK-rnpB	IHF	glpTQ	IscR	sufABCDEF
H-NS	gspAB	IHF	gltA	IscR	ydiU
H-NS	gspCDEFGHIJKLMO	IHF	gltBDF	KdgR	edd-eda
H-NS	hchA	IHF	hemA-prfA-prmC	KdpE	kdpFABC
H-NS	hdeAB-yhiD	IHF	hipBA	LacI	lacZYA
H-NS	hdeD	IHF	hpt	LeuO	leuLABCD
H-NS	hlyE	IHF	hycABCDEFGH	LexA	dinG
H-NS	hns	IHF	hypABCDE-fhlA	LexA	dinQ
H-NS	ilvIH	IHF	ibpAB	LexA	ftsK
H-NS	lacZYA	IHF	ilvLG_1G_2MEDA	LexA	insK
H-NS	micF	IHF	maoC	LexA	lexA-dinF
H-NS	nhaAR	IHF	micF	LexA	molR_1
H-NS	nirBDC-cysG	IHF	mtr	LexA	mraZW-ftsLI-murEF-mraY-
H-NS	osmC	IHF	narGHJI	LexA	murD-ftsW-murGC-ddIB-ftsQAZ-lpxC
H-NS	proVWX	IHF	narK	LexA	polB
H-NS	rcaA	IHF	ndh	LexA	recAX
H-NS	relA-chpRA-mazG	IHF	nirBDC-cysG	LexA	recN
H-NS	rrsB-gltT-rrlB-rrfB	IHF	nmpC	LexA	rpsU-dnaG-rpoD
H-NS	rrsC-gltU-rrlC-rrfC	IHF	norVW	LexA	ruvAB
H-NS	rrsD-ileU-alaU-rrlD-rrfD-thrV-rrfF	IHF	nrfABCDEFG	LexA	ssb
H-NS	rrsG-gltW-rrlG-rrfG	IHF	nuoABCEFGHIJKLMN	LexA	sulA
H-NS	rrsH-ileV-alaV-rrlH-rrfH	IHF	ompC	LexA	symE
H-NS	smtA-mukFEB	IHF	ompF	LexA	tisAB
H-NS	sodB	IHF	ompR-envZ	LexA	umuDC
H-NS	srlAEBD-gutM-srlR-gutQ	IHF	osmE	LexA	uvrA
H-NS	stpA	IHF	osmY	LexA	uvrB
H-NS	yciGFE	IHF	paaABCDEFGHIJK	LexA	uvrD
HU	galETKM	IHF	pspABCDE	LexA	uvrYC
HU	micF	IHF	pspG	LexA	ybgA-phr
HU	mtr	IHF	pstSCAB-phoU	LexA	ydjM
HU	seqA-pgm	IHF	rpoH	LldR	lldPRD
HU	tyrP	IHF	rtcBA	LrhA	fimE
HcaR	hcaEFCBD	IHF	sdhCDAB--sucABCD	LrhA	flhDC
HcaR	hcaR	IHF	sodA	LrhA	lrhA
			sodB	Lrp	aidB

Lrp	csiD-lhgO-gabDTP	MelR	melR	NarL	hcp-hcr
Lrp	dadAX	MetJ	ahpCF	NarL	hyaABCDE
Lrp	fimAICDFGH	MetJ	metA	NarL	hybOABCDEFG
Lrp	fimE	MetJ	metBL	NarL	moeAB
Lrp	gcvTHP	MetJ	metC	NarL	napFDAGHBC-ccmABCDEFGH
Lrp	gltBDF	MetJ	metE	NarL	narGHJI
Lrp	ilvIH	MetJ	metF	NarL	narK
Lrp	ilvLG_1G_2MEDA	MetJ	metK	NarL	nikABCDE
Lrp	kbl-tdh	MetJ	metNIQ	NarL	nirBDC-cysG
Lrp	livJ	MetJ	metR	NarL	norVW
Lrp	livKHMFG	MetR	glyA	NarL	nrfABCDEFG
Lrp	lrp	MetR	hmp	NarL	nuoABCEFGHIJKLMN
Lrp	lysU	MetR	metA	NarL	torCAD
Lrp	malT	MetR	metE	NarL	ubiCA
Lrp	micF	MetR	metH	NarL	yeaR-yoaG
Lrp	ompC	MetR	metR	NarL	ytfE
Lrp	ompF	MhpR	mhpABCDFE	NarP	fdhF
Lrp	oppABCDF	MngR	mngAB	NarP	fdnGHI
Lrp	osmC	MngR	mngR	NarP	hcp-hcr
Lrp	osmY	MntR	mntH	NarP	hyaABCDE
Lrp	rrsA-ileT-alaT-rrlA-rrfA	ModE	deoCABD	NarP	napFDAGHBC-ccmABCDEFGH
Lrp	rrsB-gltT-rrlB-rrfB	ModE	dmsABC	NarP	nirBDC-cysG
Lrp	rrsC-gltU-rrlC-rrfC	ModE	hycABCDEFGH	NarP	norVW
Lrp	rrsD-ileU-alaU-rrlD-rrfD-thrV-rrfF	ModE	moaABCDE	NarP	nrfABCDEFG
Lrp	rrsE-gltV-rrlE-rrfE	ModE	modABC	NarP	yeaR-yoaG
Lrp	rrsG-gltW-rrlG-rrfG	ModE	napFDAGHBC-ccmABCDEFGH	NarP	ytfE
Lrp	rrsH-ileV-alaV-rrlH-rrfH	ModE	narXL	NhaR	nhaAR
Lrp	sdaA	ModE	oppABCDF	NhaR	osmC
Lrp	serA	MprA	mprA-emrAB	NhaR	pgaABC
Lrp	serC-aroA	MtlR	mtlADR	NikR	nikABCDE
Lrp	stpA	Nac	asnC-mioC-mnmG-gidB	NorR	norR
Lrp	yeiL	Nac	codBA	NorR	norVW
LsrR	lsrACDBFG	Nac	csiD-lhgO-gabDTP	NrdR	nrdAB
LysR	lysA	Nac	gdhA	NrdR	nrdDG
LysR	lysR	Nac	gltBDF	NrdR	nrdHIEF
MalI	malI	Nac	nac	NsrR	hcp-hcr
MalI	malXY	Nac	nupC	NsrR	hmp
MalT	malEFG	Nac	serA	NsrR	nrfABCDEFG
MalT	malK-lamb-malM	NadR	nadB	NsrR	tehAB
MalT	malPQ	NadR	pncB	NsrR	yeaR-yoaG
MalT	malS	NagC	chbBCARFG	NsrR	ygbA
MalT	malZ	NagC	fimB	NsrR	ytfE
MarA	acrAB	NagC	glmUS	NtrC	argT-hisJQMP
MarA	fpr	NagC	manXYZ	NtrC	astCADBE
MarA	fumC	NagC	nagBACD	NtrC	cbl
MarA	hdeAB-yhiD	NagC	nagE	NtrC	ddpXABCDF
MarA	inaA	NagC	nanCM	NtrC	glnALG
MarA	marRAB	NanR	fimB	NtrC	glnHPQ
MarA	micF	NanR	nanATEK-yhcH	NtrC	glnK-amtB
MarA	nfo	NanR	nanCM	NtrC	nac
MarA	nfsB	NarL	adhE	NtrC	potFGHI
MarA	poxB-ltaE-ybjT	NarL	aspA-dcuA	NtrC	rutABCDEFG
MarA	pqiAB	NarL	caiF	NtrC	yeaGH
MarA	purA	NarL	cydDC	NtrC	ygjG
MarA	putA	NarL	dcuB-fumB	NtrC	yhdWXYZ
MarA	rob	NarL	dcuSR	OmpR	bdm-sra
MarA	slp-dctR	NarL	dmsABC	OmpR	bolA
MarA	sodA	NarL	fdhF	OmpR	bolA
MarA	zwf	NarL	fdnGHI	OmpR	csGDEFG
MarR	marRAB	NarL	focA-pflB	OmpR	fadL
MelR	melAB	NarL	frdABCD	OmpR	flhDC
				OmpR	micF
				OmpR	nmpC

OmpR	ompC	PspF	pspG	SoxR	soxR
OmpR	ompF	PurR	carAB	SoxR	soxS
OmpR	omrA	PurR	codBA	SoxS	acrAB
OmpR	omrB	PurR	cvpA-purF-ubiX	SoxS	fldA-uof-fur
OmpR	tppB	PurR	gcvTHP	SoxS	fldB
OxyR	ahpCF	PurR	glnB	SoxS	fpr
OxyR	dps	PurR	glyA	SoxS	fumC
OxyR	fldA-uof-fur	PurR	guaBA	SoxS	inaA
OxyR	flu	PurR	hflD-purB	SoxS	marRAB
OxyR	gor	PurR	lolB-ispE-prs	SoxS	micF
OxyR	grxA	PurR	purA	SoxS	nfo
OxyR	hemH	PurR	purC	SoxS	poxB-ltaE-ybjT
OxyR	katG	PurR	purEK	SoxS	pqiAB
OxyR	oxyR	PurR	purHD	SoxS	ribA
OxyR	sufABCDESE	PurR	purL	SoxS	sodA
OxyR	trxC	PurR	purMN	SoxS	soxS
OxyR	yhjA	PurR	purR	SoxS	ybjC-nfsA-rimK-ybjN
PaaX	maoC	PurR	pyrC	SoxS	zwf
PaaX	paaABCDEFGHIIJK	PurR	pyrD	TdcA	tdcABCDEFG
PdhR	fecABCDE	PurR	speAB	TdcR	tdcABCDEFG
PdhR	lldPRD	PutA	putA	TorR	gadAXW
PdhR	pdhR-aceEF-lpd	QseB	flhDC	TorR	hdeAB-yhiD
PdhR	yfiD	QseB	qseBC	TorR	tnaCAB
PepA	carAB	RbsR	rbsDACBKR	TorR	torCAD
PhoB	amn	RcnR	rcnA	TorR	torR
PhoB	argP	RcsAB	bdm-sra	TreR	treBC
PhoB	asr	RcsAB	csgDEFG	TrpR	aroH
PhoB	edd-eda	RcsAB	flhDC	TrpR	aroL-yaiA-aroM
PhoB	phnCDEFGHIJKLMNOP	RcsAB	mraZW-ftsLI-murEF- mraY-murD-ftsW-murGC-ddlB- ftsQAZ-lpxC	TrpR	mtr
PhoB	phoA-psiF	RcsAB	osmB	TrpR	trpLEDCBA
PhoB	phoBR	RcsAB	osmC	TrpR	trpR
PhoB	phoE	RcsAB	rcsA	TyrR	aroF-tyrA
PhoB	phoH	RcsAB	wza-wzb-wzc-wcaAB	TyrR	aroG
PhoB	pitB	RcsAB	yjbEFGH	TyrR	aroL-yaiA-aroM
PhoB	psiE	RhaR	rhaSR	TyrR	aroP
PhoB	pstSCAB-phoU	RhaS	rhaBAD	TyrR	folA
PhoB	ugpBAECQ	RhaS	rhaT	TyrR	mtr
PhoB	yibD	Rob	acrAB	TyrR	tyrB
PhoP	acrAB	Rob	aslB	TyrR	tyrP
PhoP	argD	Rob	fumC	TyrR	ycjXF-tyrR
PhoP	borD	Rob	inaA	UhpA	uhpT
PhoP	dcuD	Rob	marRAB	UidR	uidABC
PhoP	fadL	Rob	micF	UidR	uidR
PhoP	hemL	Rob	nfo	UlaR	ulaABCDEF
PhoP	malS	Rob	sodA	UlaR	ulaG
PhoP	metBL	Rob	ybiS	UxuR	gntP
PhoP	mgrB	Rob	zwf	UxuR	uidABC
PhoP	mgtA	RstA	asr	UxuR	uxuAB
PhoP	nagBACD	RstA	csgDEFG	UxuR	uxuR
PhoP	pagP	RstA	narGHJI	XapR	xapAB
PhoP	phoPQ	RstA	ompF	XylR	xylAB
PhoP	purHD	RstA	ompF	XylR	xylFGHR
PhoP	rstAB	RtcR	rtcBA	YdeO	gadE-mdtEF
PhoP	rutABCDEFG	SdiA	mraZW-ftsLI-murEF- mraY-murD-ftsW-murGC-ddlB- ftsQAZ-lpxC	YeiL	yeiL
PhoP	slyB	SgrR	sgrR-sroA-tbpA-thiPQ	YiaJ	yiaKLMNO-lyxK-sgbHUE
PhoP	treR	SgrR	sgrST-setA	ZntR	zntA
PhoP	ybjG	SgrR	yfdZ	ZraR	zraP
PhoP	yrbL	SlyA	hlyE	ZraR	zraSR
PrpR	prpBCDE	SoxR	fumC	Zur	znuA
PrpR	prpR			Zur	znuCB
PspF	pspABCDE				
PspF	pspF				

Operon hierarchy

AcrR = bottom
AgaR = bottom
AlaS = bottom
allS = bottom
AraC = bottom
ArgR = bottom
AscG = bottom
caiF = bottom
cytR = bottom
feaR = bottom
flhDC = bottom
galS = bottom
glcC = bottom
mall = bottom
malT = bottom
melR = bottom
oxyR = bottom
prpR = bottom
uxuR = bottom
yiaJ = bottom
CadC = bottom
CdaR = bottom
CynR = bottom
cbl = bottom
DhaR = bottom

DsdC = bottom
yeiL = bottom
iclR = bottom
purR = bottom
rcnR = bottom
GcvA = bottom
appY = bottom
bolA = bottom
HcaR = bottom
IivY = bottom
LysR = bottom
putA = bottom
rob = bottom
metR = bottom
MngR = bottom
Nac = bottom
NorR = bottom
argP = bottom
treR = bottom
PspF = bottom
soxS = bottom
TorR = bottom
TrpR = bottom
UidR = bottom
AllR = first
CRP = first

FNR = first
H-NS = first
NarL = first
Fur = first
HdfR = first
IHF = first
LrhA = first
OmpR = first
QseB = first
RcsAB = first
GalR = first
DgsA = first
Lrp = first
ExuR = first
CysB = first
NtrC = first
FadR = first
MarA = first
MetJ = first
PhoB = first
PhoP = first
SoxR = first
ArcA = two
Fis = two
GadE = two

List S6. Regulatory network based on specific conditions in *S. cerevisiae*. We created hierarchies representing the transcriptional networks active under four conditions: cell cycle, diauxic shift, DNA damage, and sporulation. The first list in each set shows the mapping of the regulators to their targets. The second list in each set shows the position of the regulator in the hierarchy.

Cell Cycle: Regulator to Target Mapping

YIR023W	YCL024W	YMR016C	YJR159W	YCR096C	YCR040W
YIR023W	YCL012W	YMR016C	YJR137C	YGL209W	YIL162W
YIR023W	YPL124W	YMR016C	YBR202W	YGL209W	YKL109W
YIR023W	YCL014W	YMR016C	YJR006W	YGL209W	YGL035C
YLR131C	YDL127W	YMR016C	YJL173C	YGL209W	YDR146C
YLR131C	YJL194W	YMR016C	YNL078W	YLR182W	YNL300W
YLR131C	YDL179W	YMR016C	YGL255W	YLR182W	YDR309C
YLR131C	YKL150W	YMR016C	YHR113W	YLR182W	YDL164C
YLR131C	YGR041W	YMR016C	YNR016C	YLR182W	YML027W
YLR131C	YGR044C	YGR044C	YPL256C	YLR182W	YDR507C
YLR131C	YKL185W	YIL101C	YPR119W	YLR182W	YJL074C
YLR131C	YOR140W	YIL101C	YAL040C	YLR182W	YNL289W
YLR131C	YER190W	YIL101C	YMR199W	YLR182W	YPL267W
YLR131C	YGL028C	YBR083W	YLR403W	YLR182W	YDL101C
YLR131C	YML007W	YOR140W	YIL162W	YLR182W	YHR061C
YLR131C	YJL078C	YKL185W	YNL289W	YLR182W	YDR113C
YLR131C	YLR286C	YJR060W	YIR017C	YLR182W	YJL187C
YLR131C	YBR158W	YJR060W	YIL126W	YLR182W	YPR120C
YLR131C	YLR079W	YJR060W	YBR049C	YLR182W	YDL018C
YLR131C	YFR017C	YJR060W	YPR167C	YLR182W	YMR179W
YDR448W	YIL162W	YJR060W	YNL103W	YLR182W	YMR076C
YML027W	YFR026C	YHR084W	YGL089C	YLR182W	YLR103C
YML027W	YKL052C	YHR084W	YDL127W	YLR182W	YJL092W
YML027W	YCR034W	YHR084W	YGR189C	YLR182W	YMR199W
YML027W	YLR050C	YHR084W	YHR086W	YLR182W	YLR286C
YML027W	YHR152W	YHR084W	YHR005C	YLR182W	YDL227C
YML027W	YIL106W	YHR084W	YBR083W	YLR182W	YOR373W
YML027W	YDL124W	YHR084W	YJL157C	YLR182W	YOR074C
YML027W	YGR109C	YHR084W	YPL187W	YLR182W	YJL194W
YML027W	YDR501W	YHR084W	YMR198W	YLR182W	YPL127C
YML027W	YLR381W	YHR084W	YDR179C	YLR182W	YKL161C
YML027W	YNL072W	YHR084W	YMR199W	YLR182W	YNL312W
YML027W	YHR151C	YNL199C	YOR140W	YLR182W	YHR154W
YML027W	YPL256C	YNL199C	YDR179C	YLR182W	YGR109C
YML027W	YKL042W	YIR017C	YPR167C	YLR182W	YKR013W
YML027W	YKL043W	YKL062W	YIL162W	YLR182W	YDR179C
YML027W	YLR281C	YKL062W	YER190W	YLR182W	YKL112W
YML027W	YFR027W	YKL062W	YIL050W	YLR182W	YPL256C
YML027W	YMR001C	YKL062W	YCL040W	YLR182W	YDL127W
YML027W	YNR067C	YKL062W	YPR104C	YLR182W	YER070W
YML027W	YFR034C	YDR463W	YCL024W	YLR182W	YER111C
YML027W	YFR017C	YDR463W	YDR179C	YLR182W	YHR153C
YOR344C	YHR006W	YGL013C	YGR281W	YLR182W	YIL026C
YOR344C	YER001W	YGL013C	YAL022C	YLR182W	YGR041W
YIL122W	YOR284W	YGL013C	YDR366C	YLR182W	YJL073W
YIL122W	YKL048C	YGL013C	YDR368W	YLR182W	YKL045W
YIL122W	YOL137W	YGL013C	YFR017C	YLR182W	YKL113C
YIL122W	YPR104C	YMR070W	YJR159W	YLR182W	YNL102W
YIL122W	YCR035C	YMR070W	YIL162W	YGL035C	YIL162W
YIL122W	YKR010C	YMR070W	YPR141C	YGL035C	YKL109W
YGL073W	YBL032W	YMR070W	YBR275C	YGL035C	YDR146C
YGL073W	YKL052C	YOL004W	YGR044C	YPL016W	YIL162W
YGL073W	YOR344C	YOL004W	YPL016W	YIL131C	YMR215W
YGL073W	YBR049C	YOL004W	YDR207C	YIL131C	YLR210W
YMR016C	YDL227C	YOL004W	YGL073W	YIL131C	YDR325W

YIL131C	YBR138C	YEL009C	YJR112W	YKL032C	YOR025W
YIL131C	YBR104W	YEL009C	YPR167C	YKL032C	YOR315W
YIL131C	YLR353W	YEL009C	YNL103W	YKL032C	YBR007C
YIL131C	YGR092W	YML007W	YJR110W	YDR146C	YDL227C
YIL131C	YIL158W	YFR034C	YNL027W	YDR146C	YGR189C
YIL131C	YJR092W	YFR034C	YJL051W	YDR146C	YJL194W
YIL131C	YCL063W	YFR034C	YJL173C	YDR146C	YDL179W
YIL131C	YDR324C	YFR034C	YPL133C	YDR146C	YIL050W
YIL131C	YDR179C	YBL021C	YML119W	YDR146C	YGR044C
YIL131C	YMR078C	YBL021C	YNR001C	YDR146C	YIL009W
YIL131C	YDR146C	YBL021C	YOR065W	YDR146C	YOR140W
YBR049C	YGL089C	YBL021C	YML091C	YDR146C	YKL185W
YBR049C	YML119W	YMR021C	YPR111W	YDR146C	YJL078C
YBR049C	YPR119W	YMR021C	YDR207C	YDR146C	YBR158W
YBR049C	YLL040C	YMR021C	YPL177C	YDR146C	YDR079W
YBR049C	YDL164C	YHR206W	YDR309C	YDR146C	YPL158C
YBR049C	YOL004W	YHR206W	YOR315W	YDR146C	YLR049C
YBR049C	YNL262W	YHR206W	YOR273C	YDR146C	YLR013W
YBR049C	YNL216W	YHR206W	YMR016C	YDR146C	YDL127W
YBR049C	YDR146C	YHR206W	YOR140W	YDR146C	YGR041W
YLR183C	YPR175W	YHR206W	YJR148W	YDR146C	YOR264W
YLR183C	YGR189C	YHR206W	YML007W	YDR146C	YER190W
YLR183C	YKL067W	YHR206W	YJL115W	YDR146C	YLR286C
YLR183C	YFR037C	YHR206W	YGR108W	YDR146C	YFR017C
YLR183C	YHR152W	YHR206W	YOR274W	YDR146C	YKL163W
YLR183C	YCL022C	YHR206W	YFR017C	YNL103W	YIR017C
YLR183C	YLR182W	YHR206W	YNL173C	YNL103W	YJL078C
YLR183C	YPR111W	YJL056C	YGL255W	YNL103W	YPR167C
YLR183C	YBR083W	YJL056C	YCR040W	YMR043W	YER069W
YLR183C	YER032W	YLR256W	YOR065W	YMR043W	YLR131C
YLR183C	YPR174C	YDR501W	YDL127W	YMR043W	YAR018C
YLR183C	YNR016C	YDR501W	YDL197C	YMR043W	YDR507C
YLR183C	YHR061C	YDR501W	YIL131C	YMR043W	YLR190W
YLR183C	YHR151C	YDR501W	YIL122W	YMR043W	YNL289W
YLR183C	YHR084W	YDR501W	YBR073W	YMR043W	YDR150W
YLR183C	YBL002W	YDR501W	YBR104W	YMR043W	YNL053W
YLR183C	YCL066W	YDR501W	YKL108W	YMR043W	YPL187W
YLR183C	YBR067C	YDR501W	YEL009C	YMR043W	YLR274W
YLR183C	YCL038C	YDR501W	YJR060W	YMR043W	YOR315W
YLR183C	YFR038W	YDR501W	YDR219C	YMR043W	YGL021W
YLR183C	YBL003C	YJL176C	YIL162W	YMR043W	YJL196C
YLR183C	YCL067C	YKR099W	YKR010C	YMR043W	YLR273C
YPL089C	YOR315W	YKR099W	YMR190C	YMR043W	YBR202W
YPL089C	YGR189C	YLR013W	YCL066W	YMR043W	YOR066W
YPL089C	YOR058C	YLR013W	YCR097W	YMR043W	YGL116W
YPL089C	YIL122W	YLR013W	YCR096C	YMR043W	YGR108W
YPL089C	YER001W	YLR013W	YCR040W	YMR043W	YDR146C
YDR207C	YGR044C	YLR013W	YCL067C	YMR043W	YNL058C
YDR207C	YPL153C	YER088C	YAR008W	YMR043W	YBR160W
YDR207C	YGL073W	YER088C	YBR156C	YMR043W	YGL089C
YDR207C	YHR152W	YER088C	YAR007C	YMR043W	YDR451C
YPL038W	YJR137C	YPL177C	YJR159W	YMR043W	YJL194W
YPL038W	YIR017C	YPR104C	YDR448W	YMR043W	YHR152W
YPL038W	YDR501W	YPR104C	YEL009C	YMR043W	YJL157C
YPL038W	YPR167C	YPR104C	YDR501W	YMR043W	YDR179C
YHR006W	YCR040W	YPR104C	YLR183C	YMR043W	YDR389W
YEL009C	YBR043C	YPR104C	YLR326W	YMR043W	YJL051W
YEL009C	YJR110W	YOL108C	YNR016C	YMR043W	YHR151C
YEL009C	YER069W	YOL108C	YDR146C	YMR043W	YER111C
YEL009C	YDL198C	YCR097W	YCL066W	YMR043W	YPR119W
YEL009C	YGL059W	YCR097W	YGR044C	YMR043W	YJR092W
YEL009C	YEL061C	YCR097W	YCR040W	YMR043W	YIL158W

YMR043W	YAL040C	YKL112W	YNL057W	YDL056W	YDL101C
YMR043W	YKL163W	YKL112W	YPR018W	YDL056W	YDR501W
YDR451C	YNL082W	YKL112W	YPR104C	YDL056W	YHR061C
YDR451C	YCR096C	YKL112W	YGR183C	YDL056W	YDR113C
YDR451C	YPL242C	YKL112W	YDR207C	YDL056W	YJL187C
YDR451C	YPR019W	YKL112W	YDL010W	YDL056W	YJL196C
YDR451C	YAR008W	YKL112W	YMR198W	YDL056W	YPR120C
YDR451C	YHR110W	YKL112W	YMR078C	YDL056W	YDL018C
YDR451C	YDL156W	YKL112W	YDR463W	YDL056W	YNL273W
YDR451C	YPL267W	YCL066W	YGL089C	YDL056W	YMR179W
YDR451C	YIL159W	YCL066W	YPL187W	YDL056W	YMR076C
YDR451C	YLL002W	YER111C	YNL300W	YDL056W	YLR103C
YDR451C	YGR108W	YER111C	YDR309C	YDL056W	YMR199W
YDR451C	YJL115W	YER111C	YGR189C	YDL056W	YDL003W
YDR451C	YAR007C	YER111C	YML027W	YDL056W	YFR017C
YDR451C	YKL165C	YER111C	YOR344C	YDL056W	YBR071W
YDR451C	YPL066W	YER111C	YDR507C	YDL056W	YOR074C
YJL089W	YBR268W	YER111C	YNL289W	YDL056W	YDR451C
YNL027W	YDL155W	YER111C	YMR016C	YDL056W	YJL194W
YNL216W	YCL066W	YER111C	YPL267W	YDL056W	YHR152W
YNL216W	YPL016W	YER111C	YLR256W	YDL056W	YNL312W
YNL216W	YDR448W	YER111C	YDR501W	YDL056W	YHR154W
YNL216W	YOR344C	YER111C	YHR061C	YDL056W	YGR109C
YNL216W	YLR326W	YER111C	YDR225W	YDL056W	YDR097C
YNL216W	YGL073W	YER111C	YJL187C	YDL056W	YBR070C
YNL216W	YOR317W	YER111C	YOR315W	YDL056W	YCR065W
YNL216W	YBR067C	YER111C	YPL124W	YDL056W	YKL112W
YNL216W	YJL089W	YER111C	YJL196C	YDL056W	YHR151C
YNL216W	YKL062W	YER111C	YMR179W	YDL056W	YPL256C
YNL216W	YER032W	YER111C	YDR224C	YDL056W	YER070W
YNL216W	YCR040W	YER111C	YJR148W	YDL056W	YER111C
YNL216W	YDR501W	YER111C	YMR199W	YDL056W	YHR153C
YNL216W	YCL067C	YER111C	YLR286C	YDL056W	YAR008W
YNL216W	YGR143W	YER111C	YER001W	YDL056W	YIL026C
YCR065W	YOR058C	YER111C	YFR017C	YDL056W	YJL073W
YCR065W	YBL023C	YER111C	YOR373W	YDL056W	YKL113C
YCR065W	YDL031W	YER111C	YDL227C	YDL056W	YNL102W
YCR065W	YBR007C	YER111C	YBR071W	YDL056W	YAR007C
YCR065W	YGL209W	YER111C	YMR070W	YKL043W	YDR309C
YCR065W	YOL014W	YER111C	YDR451C	YKL043W	YJR159W
YCR065W	YKL069W	YER111C	YJL194W	YKL043W	YPL177C
YCR065W	YBR231C	YER111C	YPL127C	YKL043W	YGR279C
YCR065W	YNR016C	YER111C	YKR013W	YKL043W	YHR005C
YCR065W	YDR277C	YER111C	YGR109C	YKL043W	YHL028W
YCR065W	YDR113C	YER111C	YGR152C	YKL043W	YBR157C
YCR065W	YLR228C	YER111C	YBR070C	YKL043W	YMR016C
YCR065W	YOR066W	YER111C	YCR065W	YKL043W	YGR140W
YCR065W	YBL032W	YER111C	YOL012C	YKL043W	YKL062W
YCR065W	YNL078W	YER111C	YPL256C	YKL043W	YKL109W
YCR065W	YMR198W	YER111C	YDL127W	YKL043W	YCR065W
YCR065W	YOR144C	YER111C	YOL019W	YKL043W	YBR158W
YCR065W	YAL040C	YER111C	YER070W	YGL237C	YNR001C
YCR065W	YEL061C	YER111C	YGR041W	YGL237C	YOR065W
YCR065W	YDR356W	YER111C	YPR119W	YGL237C	YGR183C
YKL112W	YJR137C	YDL056W	YDL164C	YGL237C	YML091C
YKL112W	YIR023W	YDL056W	YMR215W	YKL109W	YCL066W
YKL112W	YPL242C	YDL056W	YBL023C	YKL109W	YNR001C
YKL112W	YDL105W	YDL056W	YML027W	YKL109W	YLR395C
YKL112W	YHL028W	YDL056W	YDR507C	YKL109W	YOR065W
YKL112W	YNL312W	YDL056W	YNR009W	YKL109W	YDL181W
YKL112W	YJL176C	YDL056W	YJL074C	YKL109W	YGR183C
YKL112W	YEL017W	YDL056W	YNL289W	YKL109W	YML091C

YKL109W	YMR256C	YLR403W	YAL022C	YCL067C	YHR084W
YKL109W	YCR040W	YLR403W	YFR017C		
YKL109W	YCL067C	YCL067C	YGL089C		
YCR040W	YGL089C	YCL067C	YCL066W		
YCR040W	YPL187W	YCL067C	YGR044C		
YLR403W	YOR140W	YCL067C	YPL187W		

Cell Cycle-Specific Hierarchy

YBL021C = bottom	YMR070W = bottom	YPR104C = first
YER088C = bottom	YLR131C = first	YKL112W = first
YGL013C = bottom	YOL004W = first	YML027W = first
YGL237C = bottom	YDR207C = first	YDR501W = first
YIL101C = bottom	YCR097W = first	YOR344C = first
YKL032C = bottom	YDR146C = first	YIL122W = first
YKR099W = bottom	YCL067C = first	YGL073W = first
YGR044C = bottom	YNL199C = first	YBR049C = first
YKL185W = bottom	YHR206W = first	YBR083W = first
YOR140W = bottom	YLR403W = first	YHR084W = first
YML007W = bottom	YJR060W = first	YKL062W = first
YIR017C = bottom	YPL038W = first	YLR182W = first
YPL016W = bottom	YNL103W = first	YIL131C = first
YCR040W = bottom	YNL216W = first	YEL009C = first
YCL066W = bottom	YCR096C = first	YDR451C = first
YNL027W = bottom	YHR006W = first	YCR065W = first
YPL177C = bottom	YJL056C = first	YGL209W = two
YMR016C = bottom	YLR013W = first	YGL035C = two
YDR448W = bottom	YKL109W = first	YPL089C = two
YJL089W = bottom	YLR183C = first	YOL108C = two
YIR023W = bottom	YFR034C = first	YMR043W = two
YJL176C = bottom	YMR021C = first	YDL056W = two
YDR463W = bottom	YKL043W = first	
YLR256W = bottom	YER111C = first	

Diauxic Shift: Regulator to Target Mapping

YLR131C	YJL080C	YLR131C	YDR158W	YML027W	YDL210W
YLR131C	YJR145C	YLR131C	YFL022C	YML027W	YOR254C
YLR131C	YGR234W	YLR131C	YML007W	YML027W	YNL069C
YLR131C	YKL151C	YLR131C	YER126C	YML027W	YOL139C
YLR131C	YJL194W	YLR131C	YLR286C	YML027W	YKR073C
YLR131C	YER177W	YLR131C	YFR017C	YML027W	YCR031C
YLR131C	YER079W	YDR448W	YIL162W	YML027W	YOR377W
YLR131C	YDL179W	YDR448W	YJL153C	YML027W	YGR248W
YLR131C	YHR143W	YML027W	YDR514C	YML027W	YCL025C
YLR131C	YGL008C	YML027W	YOR358W	YML027W	YPL256C
YLR131C	YLR397C	YML027W	YHR208W	YML027W	YGR110W
YLR131C	YGR044C	YML027W	YKL091C	YML027W	YDL211C
YLR131C	YOR140W	YML027W	YJR003C	YML027W	YMR002W
YLR131C	YKL185W	YML027W	YBR290W	YML027W	YDL218W
YLR131C	YML008C	YML027W	YKR094C	YML027W	YBL075C
YLR131C	YGL028C	YML027W	YKL051W	YML027W	YBL031W
YLR131C	YLR079W	YML027W	YDR500C	YML027W	YPL143W
YLR131C	YBR158W	YML027W	YGR175C	YML027W	YPL118W
YLR131C	YHR053C	YML027W	YGL099W	YML027W	YIL062C
YLR131C	YML100W	YML027W	YKL080W	YML027W	YCR057C
YLR131C	YNL327W	YML027W	YGR124W	YML027W	YDR341C
YLR131C	YKL150W	YML027W	YPL226W	YML027W	YGR070W
YLR131C	YHR195W	YML027W	YGL187C	YML027W	YFR034C
YLR131C	YDR157W	YML027W	YCR034W	YML027W	YOR381W
YLR131C	YJR147W	YML027W	YNL149C	YML027W	YIL066C

YML027W	YDL091C	YIL122W	YOL020W	YGR044C	YPL256C
YML027W	YOR335C	YIL122W	YDR522C	YOR140W	YIL162W
YML027W	YGL162W	YIL122W	YDL083C	YBR240C	YJL204C
YML027W	YER102W	YIL122W	YDR255C	YDR216W	YIL160C
YML027W	YBR056W	YIL122W	YGL015C	YDR216W	YHL032C
YML027W	YPL119C	YIL122W	YGR123C	YDR216W	YAL054C
YML027W	YKR095W	YIL122W	YBR017C	YDR216W	YDR256C
YML027W	YPR074C	YIL122W	YKL057C	YJR060W	YKL192C
YML027W	YCL054W	YIL122W	YOL021C	YJR060W	YLR081W
YML027W	YDL051W	YIL122W	YKR025W	YJR060W	YKL191W
YML027W	YMR155W	YIL122W	YDL082W	YJR060W	YAL026C
YML027W	YDL124W	YIL122W	YBR285W	YJR060W	YBR049C
YML027W	YKR092C	YIL122W	YNL134C	YJR060W	YHR098C
YML027W	YOR357C	YIL122W	YIL035C	YJR060W	YLL009C
YML027W	YLR406C	YIL122W	YBR040W	YJR060W	YLR174W
YML027W	YOR389W	YIL122W	YPR104C	YJR060W	YBR222C
YML027W	YDL121C	YIL122W	YBR247C	YJR060W	YLL008W
YML027W	YDL208W	YIL122W	YLR107W	YJR060W	YLR303W
YML027W	YIL107C	YIL122W	YKR024C	YJR060W	YDR502C
YML027W	YDL052C	YIL122W	YDR011W	YJR060W	YBR051W
YML027W	YAR027W	YIL122W	YGR124W	YJR060W	YBR249C
YML027W	YAL035W	YER169W	YOR386W	YJR060W	YJL168C
YML027W	YBL050W	YER169W	YHL001W	YJR060W	YNL103W
YML027W	YJL151C	YER169W	YBL075C	YPL248C	YLR081W
YML027W	YLR384C	YGL073W	YPL240C	YPL248C	YPL034W
YML027W	YGR028W	YGL073W	YPR158W	YPL248C	YOR120W
YML027W	YFR017C	YGL073W	YBR072W	YPL248C	YMR105C
YML027W	YPL075W	YGL073W	YOR344C	YPL248C	YJR048W
YML027W	YPL093W	YGL073W	YKL152C	YPL248C	YBR017C
YML027W	YGR123C	YGL073W	YBL033C	YPL248C	YDR009W
YML027W	YGR043C	YGL073W	YLR216C	YPL248C	YBR189W
YML027W	YLR075W	YGL073W	YDL020C	YPL248C	YBR018C
YML027W	YAL036C	YGL073W	YAL003W	YPL248C	YPR202W
YML027W	YMR131C	YGL073W	YCL050C	YPL248C	YCL067C
YML027W	YPR155C	YGL073W	YNL007C	YOR032C	YDR522C
YML027W	YJR085C	YGL073W	YHR053C	YOR032C	YBR133C
YML027W	YER179W	YGL073W	YLL039C	YOR032C	YEL002C
YML027W	YIL136W	YGL073W	YFL014W	YNL199C	YKL060C
YML027W	YNL209W	YGL073W	YGR146C	YNL199C	YLR262C
YML027W	YLR272C	YGL073W	YDR171W	YNL199C	YBR196C
YML027W	YKL043W	YGL073W	YBR082C	YNL199C	YOL121C
YML027W	YMR146C	YGL073W	YML100W	YNL199C	YJL204C
YML027W	YGR076C	YGL073W	YKL051W	YNL199C	YOR140W
YML027W	YBR286W	YGL073W	YBR049C	YNL199C	YDL192W
YML027W	YNL100W	YGL073W	YNL134C	YNL199C	YDR003W
YML027W	YMR001C	YGL073W	YBL075C	YNL199C	YJL148W
YML027W	YLR022C	YGL073W	YDR157W	YBR182C	YNL115C
YML027W	YDR012W	YGL073W	YNL077W	YBR182C	YNL113W
YML027W	YNR067C	YGL073W	YDR158W	YBR182C	YNL236W
YHL027W	YJR094C	YGL073W	YDR011W	YBR182C	YLR300W
YHL027W	YAL067C	YGL073W	YLL026W	YBR182C	YGL259W
YOR344C	YHR174W	YGL073W	YBR051W	YBR182C	YGR282C
YOR344C	YJR124C	YGL073W	YGR142W	YBR182C	YKL185W
YOR344C	YAL060W	YBR083W	YLR403W	YBR182C	YOR140W
YOR344C	YDL084W	YIL101C	YPR119W	YBR182C	YDR418W
YOR344C	YDL121C	YIL101C	YAL012W	YBR182C	YEL040W
YOR344C	YPL212C	YIL101C	YMR199W	YBR182C	YKL096W
YOR344C	YGL153W	YGR044C	YJR094C	YBR182C	YBR183W
YOR344C	YEL003W	YGR044C	YDR144C	YBR182C	YHR193C
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YDR310C	YOR254C	YKL043W	YMR011W	YKL109W	YNR001C
YDR310C	YPR054W	YKL043W	YEL070W	YKL109W	YJR079W
YDR310C	YBR017C	YKL043W	YPL177C	YKL109W	YDR148C
YDR310C	YJR077C	YKL043W	YMR195W	YKL109W	YLR395C
YDR310C	YGR256W	YKL043W	YBR157C	YKL109W	YDL067C
YDR310C	YAL023C	YKL043W	YKL062W	YKL109W	YPR020W
YDR310C	YGL170C	YKL043W	YJL221C	YKL109W	YBR039W
YDL056W	YDR528W	YKL043W	YKL109W	YKL109W	YJR121W
YDL056W	YMR215W	YKL043W	YML131W	YKL109W	YNL052W
YDL056W	YBL023C	YKL043W	YHL024W	YKL109W	YDL230W
YDL056W	YML027W	YKL043W	YNL178W	YKL109W	YIL125W
YDL056W	YHL013C	YGL237C	YHR051W	YKL109W	YLR038C
YDL056W	YNR009W	YGL237C	YNR001C	YKL109W	YEL024W
YDL056W	YNL289W	YGL237C	YGL187C	YKL109W	YKL141W
YDL056W	YDL101C	YGL237C	YBL030C	YKL109W	YOR065W
YDL056W	YJL045W	YGL237C	YPL019C	YKL109W	YDL181W
YDL056W	YML100W	YGL237C	YGR234W	YKL109W	YCR039C
YDL056W	YLR367W	YGL237C	YDR148C	YKL109W	YLR294C
YDL056W	YJL196C	YGL237C	YDR377W	YKL109W	YCL067C
YDL056W	YLR300W	YGL237C	YDL230W	YKL109W	YHR193C
YDL056W	YPR120C	YGL237C	YIL125W	YKL109W	YJL166W
YDL056W	YKL142W	YGL237C	YKL148C	YOR028C	YDR505C
YDL056W	YDR500C	YGL237C	YBR243C	YOR028C	YDR343C
YDL056W	YHR195W	YGL237C	YKL141W	YOR028C	YBL030C
YDL056W	YHR149C	YGL237C	YPL018W	YOR028C	YBR054W
YDL056W	YOR248W	YGL237C	YOR065W	YOR028C	YLR081W
YDL056W	YDL003W	YGL237C	YML091C	YOR028C	YDR345C
YDL056W	YMR199W	YGL237C	YJR048W	YOR028C	YGL253W
YDL056W	YFR017C	YGL237C	YJL148W	YOR028C	YOR302W
YDL056W	YER079W	YGL237C	YJL166W	YOR028C	YHR128W
YDL056W	YJL194W	YMR182C	YPR202W	YOR028C	YJR003C
YDL056W	YNL274C	YMR182C	YNR030W	YOR028C	YMR246W
YDL056W	YLR397C	YMR182C	YJR161C	YOR028C	YOR019W
YDL056W	YNL312W	YMR280C	YLR174W	YOR028C	YMR081C
YDL056W	YCR065W	YMR280C	YJR095W	YOR028C	YJL031C
YDL056W	YKL112W	YMR280C	YAL054C	YOR028C	YGR182C
YDL056W	YGR110W	YMR280C	YLR377C	YOR028C	YKL044W
YDL056W	YPL256C	YMR280C	YKR097W	YOR028C	YBR157C
YDL056W	YER070W	YMR280C	YNL117W	YOR028C	YKL103C
YDL056W	YAR008W	YMR280C	YOL126C	YOR028C	YPR065W
YDL056W	YNL313C	YMR280C	YER065C	YOR028C	YLL061W
YDL056W	YPL081W	YMR280C	YKL217W	YOR028C	YML131W
YDL056W	YOR247W	YMR280C	YJL089W	YOR028C	YBL043W
YDL056W	YKL113C	YKL109W	YHR051W	YOR028C	YJL076W
YDL056W	YJL148W	YKL109W	YJR078W	YOR028C	YEL053C
YDL056W	YAR007C	YKL109W	YBL030C	YOR028C	YLR413W
YDL056W	YHR193C	YKL109W	YDR377W	YOR028C	YJR145C
YKL043W	YDR343C	YKL109W	YPR190C	YOR028C	YKR067W
YKL043W	YBL030C	YKL109W	YJR077C	YOR028C	YOR049C
YKL043W	YDL245C	YKL109W	YGL191W	YOR028C	YEL046C
YKL043W	YGR279C	YKL109W	YBL045C	YOR028C	YJL171C
YKL043W	YEL039C	YKL109W	YDR529C	YOR028C	YDR508C
YKL043W	YPL265W	YKL109W	YKL148C	YOR028C	YJR094C
YKL043W	YMR136W	YKL109W	YKL015W	YOR028C	YKR066C
YKL043W	YHL028W	YKL109W	YDR298C	YOR028C	YCL046W

YOR028C	YOR230W	YOR028C	YLL006W	YOR028C	YDL037C
YOR028C	YOR303W	YOR028C	YKL107W	YOR028C	YER044C
YOR028C	YPL165C	YOR028C	YPL061W	YOR028C	YNL178W
YOR028C	YDL169C	YOR028C	YGR238C	YOR028C	YOR381W
YOR028C	YIL118W	YOR028C	YJL221C	YCL067C	YOR212W
YOR028C	YHR049W	YOR028C	YJR147W	YCL067C	YGR044C
YOR028C	YOR178C	YOR028C	YDR077W	YCL067C	YLR452C
YOR028C	YCL025C	YOR028C	YIL119C	YCL067C	YHR084W
YOR028C	YOL151W	YOR028C	YNL087W		

Diauxic Shift-Specific Hierarchy

YAL051W = bottom	YPL075W = bottom	YML007W = first
YBL021C = bottom	YJR094C = bottom	YGL096W = first
YBR083W = bottom	YOR344C = bottom	YPL089C = first
YBR240C = bottom	YDL020C = bottom	YLR256W = first
YDR096W = bottom	YOR032C = bottom	YMR021C = first
YDR216W = bottom	YIL122W = bottom	YLR013W = first
YDR310C = bottom	YPR065W = bottom	YKL112W = first
YDR448W = bottom	YPL177C = bottom	YMR280C = first
YER088C = bottom	YCR096C = bottom	YBR049C = first
YER169W = bottom	YDR463W = bottom	YJR060W = first
YGL013C = bottom	YKL062W = bottom	YNL103W = first
YGL071W = bottom	YJL089W = bottom	YPL248C = first
YGL166W = bottom	YLR131C = first	YCL067C = first
YGL237C = bottom	YNL199C = first	YOL004W = first
YIL101C = bottom	YBR182C = first	YKL109W = first
YJL056C = bottom	YDR043C = first	YOL108C = first
YKL032C = bottom	YDR146C = first	YIR018W = first
YKL038W = bottom	YML027W = first	YCR097W = first
YKR034W = bottom	YHL027W = first	YGL209W = two
YMR182C = bottom	YGR044C = first	YGL035C = two
YPL038W = bottom	YFL031W = first	YEL009C = two
YPL230W = bottom	YKL043W = first	YMR043W = two
YOR140W = bottom	YOR028C = first	YDL056W = two
YFR034C = bottom	YGL073W = first	

DNA Damage: Regulator to Target Mapping

YHR124W	YOR313C	YLR131C	YOR140W	YLR131C	YER127W
YIR023W	YKR093W	YLR131C	YKL185W	YLR131C	YGR041W
YIR023W	YGR055W	YLR131C	YJL078C	YLR131C	YER081W
YIR023W	YCL018W	YLR131C	YBR158W	YLR131C	YDR157W
YIR023W	YPL265W	YLR131C	YPL024W	YLR131C	YER154W
YIR023W	YBR006W	YLR131C	YML100W	YLR131C	YJR147W
YIR023W	YJL212C	YLR131C	YNL241C	YLR131C	YER124C
YIR023W	YDL182W	YLR131C	YJR146W	YLR131C	YJR044C
YIR023W	YLR062C	YLR131C	YLR286C	YLR131C	YJR149W
YIR023W	YCL012W	YLR131C	YER152C	YLR131C	YML007W
YIR023W	YDR046C	YLR131C	YJR145C	YLR131C	YER126C
YIR023W	YOL126C	YLR131C	YOR138C	YDR448W	YIL162W
YIR023W	YPL123C	YLR131C	YDL179W	YOR358W	YOL091W
YIR023W	YIR029W	YLR131C	YER079W	YOR358W	YER174C
YIR023W	YCL025C	YLR131C	YJL194W	YOR358W	YDR042C
YIR023W	YGR019W	YLR131C	YHR143W	YOR358W	YPL207W
YIR023W	YLR063W	YLR131C	YLR397C	YOR344C	YJR124C
YLR131C	YER153C	YLR131C	YGL028C	YOR344C	YAL060W
YLR131C	YGR234W	YLR131C	YFL021W	YOR344C	YBR061C
YLR131C	YJL159W	YLR131C	YLR079W	YOR344C	YMR324C
YLR131C	YKL151C	YLR131C	YHR053C	YOR344C	YDR042C
YLR131C	YNR018W	YLR131C	YHR055C	YOR344C	YIR007W
YLR131C	YGR044C	YLR131C	YNL327W	YOR344C	YPL211W

YOR344C	YER001W	YGR044C	YLR367W	YPR065W	YHR007C
YOR344C	YAR073W	YGR044C	YER079W	YPR065W	YDR044W
YHL027W	YJR094C	YGR044C	YJL148W	YPR065W	YDR208W
YHL027W	YDR403W	YGR044C	YPL256C	YPR065W	YDR042C
YIL122W	YDL083C	YOR140W	YIL162W	YPR065W	YOR315W
YIL122W	YIL015W	YJR060W	YNL277W	YPR065W	YML056C
YIL122W	YGL015C	YJR060W	YJL167W	YPR065W	YML075C
YIL122W	YGR123C	YJR060W	YLR081W	YPR065W	YDR077W
YIL122W	YDR010C	YJR060W	YBR225W	YPR065W	YIL119C
YIL122W	YHL022C	YJR060W	YKL191W	YPR065W	YJL148W
YIL122W	YKL048C	YJR060W	YLR174W	YPR065W	YMR017W
YIL122W	YGR166W	YJR060W	YHR137W	YPR065W	YIL111W
YIL122W	YGR161C	YJR060W	YIL088C	YDR463W	YGR055W
YIL122W	YOL096C	YJR060W	YFR030W	YDR463W	YDR046C
YIL122W	YPL174C	YJR060W	YPR167C	YDR463W	YPL265W
YIL122W	YCR035C	YJR060W	YIR017C	YDR463W	YCL025C
YIL122W	YBR021W	YJR060W	YBR049C	YDR463W	YMR258C
YIL122W	YPR108W	YJR060W	YLL008W	YGL013C	YEL054C
YIL122W	YNL134C	YJR060W	YLR303W	YGL013C	YDL083C
YIL122W	YHR090C	YJR060W	YDR502C	YGL013C	YMR241W
YIL122W	YBR040W	YJR060W	YIL127C	YGL013C	YDL148C
YIL122W	YBR247C	YJR060W	YBR051W	YGL013C	YIL133C
YIL122W	YIL037C	YJR060W	YJR010W	YGL013C	YDR368W
YIL122W	YKR024C	YJR060W	YNL103W	YGL013C	YHR087W
YIL122W	YDR011W	YJR060W	YKL008C	YGL013C	YBR040W
YER169W	YOR386W	YPL248C	YCL066W	YGL013C	YBR008C
YER169W	YHL001W	YPL248C	YLR081W	YGL013C	YJR044C
YGL073W	YPL240C	YPL248C	YCR107W	YGL013C	YNL338W
YGL073W	YPR158W	YPL248C	YBR021W	YGL013C	YDR011W
YGL073W	YLL024C	YPL248C	YOR120W	YGL013C	YGR281W
YGL073W	YBR072W	YPL248C	YNL336W	YGL013C	YHR197W
YGL073W	YOR344C	YPL248C	YMR105C	YGL013C	YOL080C
YGL073W	YDR010C	YPL248C	YJR048W	YGL013C	YDR471W
YGL073W	YDR214W	YPL248C	YNL338W	YGL013C	YOR381W
YGL073W	YLR216C	YPL248C	YCL067C	YOL004W	YLR438W
YGL073W	YDL020C	YNL199C	YOR140W	YOL004W	YPL016W
YGL073W	YJL034W	YNL199C	YOR138C	YOL004W	YML054C
YGL073W	YNL007C	YNL199C	YJR044C	YOL004W	YMR108W
YGL073W	YLL039C	YNL199C	YDR042C	YOL004W	YGR088W
YGL073W	YHR053C	YNL199C	YER007CA	YOL004W	YIL015W
YGL073W	YFL014W	YIR017C	YJL148W	YOL004W	YGL073W
YGL073W	YGR146C	YIR017C	YFR030W	YOL004W	YGR264C
YGL073W	YMR251WA	YIR017C	YJR010W	YOL004W	YHL022C
YGL073W	YDR171W	YIR017C	YPR167C	YOL004W	YBR093C
YGL073W	YML100W	YKL062W	YIL162W	YOL004W	YGR044C
YGL073W	YHR055C	YKL062W	YMR170C	YOL004W	YHR014W
YGL073W	YJR046W	YKL062W	YGR088W	YOL004W	YHR018C
YGL073W	YBR049C	YKL062W	YDR180W	YCR096C	YCR040W
YGL073W	YNL134C	YKL062W	YFR053C	YCR096C	YCR039C
YGL073W	YGR211W	YKL062W	YDR074W	YGL209W	YIL162W
YGL073W	YDR157W	YKL062W	YHR087W	YGL209W	YPL248C
YGL073W	YBL032W	YKL062W	YMR105C	YGL209W	YMR011W
YGL073W	YNL064C	YKL062W	YLL026W	YGL209W	YEL070W
YGL073W	YDR011W	YKL062W	YBR126C	YGL209W	YDR345C
YGL073W	YLL026W	YKL062W	YML131W	YGL209W	YBR050C
YGL073W	YBR051W	YKL062W	YCL040W	YGL209W	YDR516C
YGL073W	YGR142W	YKL062W	YFL014W	YGL209W	YMR280C
YIL101C	YPR119W	YPR065W	YJR047C	YGL209W	YKL109W
YIL101C	YAL040C	YPR065W	YER007CA	YGL209W	YHR092C
YIL101C	YMR199W	YPR065W	YGL055W	YGL209W	YGL035C
YBR083W	YLR403W	YPR065W	YIL099W	YGL209W	YBR126C
YGR044C	YJR094C	YPR065W	YLR450W	YGL209W	YBR101C

YGL209W	YHR094C	YBR049C	YNR012W	YEL009C	YCL030C
YGL209W	YDR146C	YBR049C	YIR003W	YEL009C	YMR065W
YGL035C	YBR121C	YBR049C	YOR272W	YEL009C	YDR035W
YGL035C	YFR053C	YBR049C	YMR189W	YEL009C	YMR138W
YGL035C	YDR345C	YBR049C	YJL148W	YEL009C	YMR062C
YGL035C	YBR050C	YBR049C	YPR052C	YEL009C	YDL170W
YGL035C	YDR516C	YBR049C	YJL001W	YEL009C	YDL198C
YGL035C	YBR126C	YPL089C	YLR111W	YEL009C	YMR137C
YGL035C	YNR047W	YPL089C	YOR315W	YEL009C	YEL062W
YGL035C	YLR415C	YPL089C	YJL159W	YEL009C	YDR341C
YGL035C	YPL248C	YPL089C	YLR342W	YEL009C	YDR512C
YGL035C	YIL162W	YPL089C	YLR300W	YEL009C	YDL171C
YGL035C	YLR416C	YPL089C	YGL259W	YML007W	YML116W
YGL035C	YMR011W	YPL089C	YIL122W	YML007W	YGR234W
YGL035C	YEL070W	YPL089C	YMR014W	YML007W	YOR202W
YGL035C	YMR280C	YPL089C	YDR077W	YML007W	YLR108C
YGL035C	YKL109W	YPL089C	YKL096W	YML007W	YFL057C
YGL035C	YHR092C	YPL089C	YEL040W	YML007W	YDR074W
YGL035C	YBR101C	YPL089C	YKR103W	YML007W	YLR460C
YGL035C	YHR094C	YPL089C	YJL148W	YML007W	YNL134C
YGL035C	YDR146C	YPL089C	YGL158W	YML007W	YNL241C
YJR094C	YHR014W	YPL089C	YHL041W	YML007W	YHR179W
YJR094C	YDR523C	YPL089C	YER001W	YML007W	YDR011W
YJR094C	YHL022C	YPL038W	YNL277W	YML007W	YPR065W
YJR094C	YNL210W	YPL038W	YJR137C	YML007W	YJR109C
YPL016W	YIL162W	YPL038W	YIR017C	YML007W	YPL091W
YDL170W	YKL201C	YPL038W	YDR042C	YML007W	YOL119C
YDL170W	YNR068C	YPL038W	YLR180W	YML007W	YER079W
YDL170W	YBR006W	YPL038W	YMR194W	YML007W	YDR533C
YDL170W	YGR019W	YPL038W	YJL212C	YML007W	YDR010C
YPL230W	YIL111W	YPL038W	YEL072W	YML007W	YLL060C
YBR049C	YPL206C	YPL038W	YGL184C	YML007W	YDR453C
YBR049C	YNL113W	YPL038W	YDR501W	YML007W	YJL098W
YBR049C	YGR243W	YPL038W	YJL191W	YML007W	YDL020C
YBR049C	YEL012W	YPL038W	YPR167C	YML007W	YFL056C
YBR049C	YGR231C	YKL038W	YGL062W	YML007W	YGR209C
YBR049C	YIL108W	YKL038W	YHR092C	YML007W	YFL014W
YBR049C	YKL082C	YKL038W	YMR011W	YML007W	YLR074C
YBR049C	YPL182C	YKL038W	YDR345C	YML007W	YOL151W
YBR049C	YDR465C	YEL009C	YER069W	YML007W	YGR088W
YBR049C	YIL023C	YEL009C	YMR108W	YML007W	YJR104C
YBR049C	YOR117W	YEL009C	YJL088W	YML007W	YNL087W
YBR049C	YKL148C	YEL009C	YOR202W	YML007W	YER044C
YBR049C	YMR186W	YEL009C	YHR071W	YML007W	YLR109W
YBR049C	YPL180W	YEL009C	YHR018C	YML007W	YKR052C
YBR049C	YDR146C	YEL009C	YLR356W	YBL021C	YNR001C
YBR049C	YGL120C	YEL009C	YPR167C	YBL021C	YGL187C
YBR049C	YOL004W	YEL009C	YJL200C	YBL021C	YOR065W
YBR049C	YKL182W	YEL009C	YOR130C	YBL021C	YDL205C
YBR049C	YKR069W	YEL009C	YHR161C	YBL021C	YJR048W
YBR049C	YER156C	YEL009C	YJR025C	YBL021C	YNL009W
YBR049C	YNL111C	YEL009C	YMR195W	YBL021C	YPL207W
YBR049C	YAL054C	YEL009C	YDL182W	YBL021C	YML091C
YBR049C	YBR237W	YEL009C	YER073W	YBL021C	YDL230W
YBR049C	YBL058W	YEL009C	YOL058W	YBL021C	YER174C
YBR049C	YNL216W	YEL009C	YDR354W	YBL021C	YGR059W
YBR049C	YNL008C	YEL009C	YER052C	YBL021C	YKL148C
YBR049C	YFL023W	YEL009C	YJR109C	YBL021C	YHR001WA
YBR049C	YNL115C	YEL009C	YNL103W	YBL021C	YOR375C
YBR049C	YDR157W	YEL009C	YBR119W	YBL021C	YMR258C
YBR049C	YMR280C	YEL009C	YMR300C	YMR021C	YNL017C
YBR049C	YPR119W	YEL009C	YJR112W	YMR021C	YDR058C

YMR021C	YPR110C	YHR206W	YLR257W	YIR018W	YKL210W
YMR021C	YGR088W	YHR206W	YMR137C	YIR018W	YLR357W
YMR021C	YPR124W	YHR206W	YDR043C	YIR018W	YCL066W
YMR021C	YER145C	YHR206W	YKR044W	YIR018W	YLR272C
YMR021C	YOL152W	YHR206W	YDR157W	YIR018W	YIL133C
YMR021C	YLR213C	YHR206W	YJL116C	YIR018W	YDL115C
YMR021C	YPL177C	YHR206W	YML007W	YIR018W	YFL020C
YMR021C	YPR125W	YHR206W	YMR017W	YIR018W	YNL336W
YMR021C	YPR123C	YHR206W	YKR043C	YIR018W	YCR039C
YMR021C	YLR214W	YHR206W	YNL173C	YIR018W	YJR044C
YMR021C	YCR025C	YJL056C	YDR066C	YIR018W	YNL338W
YMR021C	YJL148W	YJL056C	YKL177W	YIR018W	YGR194C
YMR021C	YDR208W	YJL056C	YGL255W	YIR018W	YLR089C
YGL071W	YBR207W	YJL056C	YCR040W	YIR018W	YCR040W
YGL071W	YPL019C	YJL056C	YCR039C	YIR018W	YCL067C
YGL071W	YMR134W	YIR018W	YAR066W	YLR256W	YML054C
YGL071W	YDR523C	YIR018W	YML070W	YLR256W	YGR088W
YGL071W	YER145C	YIR018W	YER096W	YLR256W	YOR065W
YGL071W	YDR541C	YIR018W	YCL036W	YLR256W	YJR048W
YGL071W	YFR001W	YIR018W	YER139C	YLR256W	YHR007C
YGL071W	YHR171W	YIR018W	YHR203C	YLR256W	YML075C
YGL071W	YMR058W	YIR018W	YAR047C	YLR256W	YDR044W
YGL071W	YDR270W	YIR018W	YGR149W	YLR256W	YPR065W
YGL071W	YPL018W	YIR018W	YHR018C	YGL166W	YJR104C
YGL071W	YBR040W	YIR018W	YCL033C	YGL166W	YHR055C
YGL071W	YNL241C	YIR018W	YGR176W	YGL166W	YHR053C
YGL071W	YLR002C	YIR018W	YDR161W	YFL031W	YDR519W
YGL071W	YLR214W	YIR018W	YLR244C	YFL031W	YJR094C
YGL071W	YGR187C	YIR018W	YDR300C	YFL031W	YJL034W
YHR206W	YDR309C	YIR018W	YDR449C	YFL031W	YDR518W
YHR206W	YJR078W	YIR018W	YPL282C	YLR013W	YDL083C
YHR206W	YER011W	YIR018W	YLR460C	YLR013W	YCR096C
YHR206W	YMR304CA	YIR018W	YOR235W	YLR013W	YIR041W
YHR206W	YKR093W	YIR018W	YLL067C	YLR013W	YOL166C
YHR206W	YNR018W	YIR018W	YCL037C	YLR013W	YIL018W
YHR206W	YOR273C	YIR018W	YDR450W	YLR013W	YIR040C
YHR206W	YOR140W	YIR018W	YDL075W	YLR013W	YCL066W
YHR206W	YJR077C	YIR018W	YGR175C	YLR013W	YMR324C
YHR206W	YMR173W	YIR018W	YDR272W	YLR013W	YDL115C
YHR206W	YMR172CA	YIR018W	YAL060W	YLR013W	YNL336W
YHR206W	YMR305C	YIR018W	YHR103W	YLR013W	YCR039C
YHR206W	YPL024W	YIR018W	YKL019W	YLR013W	YNL338W
YHR206W	YGR249W	YIR018W	YEL074W	YLR013W	YCR097W
YHR206W	YLR111W	YIR018W	YBR101C	YLR013W	YEL074W
YHR206W	YMR251WA	YIR018W	YAR029W	YLR013W	YCR040W
YHR206W	YOR315W	YIR018W	YBL043W	YLR013W	YCL067C
YHR206W	YGR211W	YIR018W	YDR271C	YER088C	YAR007C
YHR206W	YKL142W	YIR018W	YGR295C	YCR093W	YOR202W
YHR206W	YMR173WA	YIR018W	YCR107W	YKR034W	YLR142W
YHR206W	YJR148W	YIR018W	YGL104C	YKR034W	YFL021W
YHR206W	YPR065W	YIR018W	YER095W	YKR034W	YKR039W
YHR206W	YGR108W	YIR018W	YDL083C	YKR034W	YOR348C
YHR206W	YNL014W	YIR018W	YDR204W	YKR034W	YIR029W
YHR206W	YPR151C	YIR018W	YCR031C	YKR034W	YHR037W
YHR206W	YOR138C	YIR018W	YIL018W	YKR034W	YBR006W
YHR206W	YDL030W	YIR018W	YKL218C	YKR034W	YGR019W
YHR206W	YOL048C	YIR018W	YAL054C	YKR034W	YOR375C
YHR206W	YER079W	YIR018W	YOR386W	YKR034W	YJL110C
YHR206W	YIL099W	YIR018W	YOR199W	YPL177C	YPL198W
YHR206W	YMR136W	YIR018W	YER094C	YPL177C	YKR093W
YHR206W	YLR397C	YIR018W	YFL021W	YPL177C	YDR042C
YHR206W	YMR138W	YIR018W	YMR142C	YPL177C	YIL099W

YPL177C	YGL001C	YMR043W	YJL196C	YCR065W	YOR134W
YPL177C	YEL040W	YMR043W	YDR461W	YCR065W	YCL057W
YPL177C	YDR077W	YMR043W	YGR108W	YCR065W	YBL071C
YPL177C	YIL119C	YMR043W	YGL116W	YCR065W	YNR054C
YPL177C	YMR017W	YMR043W	YJL160C	YCR065W	YDL215C
YPL177C	YBL043W	YMR043W	YDR146C	YCR065W	YGR288W
YCR097W	YCL066W	YMR043W	YNL058C	YCR065W	YMR202W
YCR097W	YGR044C	YMR043W	YNL277W	YCR065W	YNL338W
YCR097W	YHR052W	YMR043W	YDR451C	YCR065W	YOL059W
YCR097W	YCR040W	YMR043W	YJL194W	YCR065W	YLR089C
YCR097W	YCR039C	YMR043W	YGR048W	YCR065W	YOR226C
YOL108C	YJR073C	YMR043W	YNR044W	YCR065W	YHR140W
YOL108C	YLR133W	YMR043W	YJL157C	YCR065W	YIL091C
YOL108C	YJR104C	YMR043W	YEL040W	YCR065W	YIL164C
YOL108C	YER043C	YMR043W	YJL051W	YCR065W	YDR523C
YOL108C	YLR153C	YMR043W	YMR253C	YCR065W	YOL165C
YOL108C	YPR013C	YMR043W	YPR112C	YCR065W	YHL040C
YOL108C	YKL182W	YMR043W	YPR119W	YCR065W	YGR165W
YOL108C	YDR146C	YMR043W	YJR092W	YCR065W	YBR035C
YOL108C	YBR093C	YMR043W	YIL158W	YCR065W	YBR231C
YKL032C	YOR025W	YMR043W	YAL040C	YCR065W	YDL110C
YKL032C	YOR315W	YMR043W	YKL163W	YCR065W	YIR040C
YKL032C	YIL119C	YPL075W	YHR092C	YCR065W	YIR029W
YKL032C	YGR100W	YPL075W	YJL148W	YCR065W	YKL148C
YKL032C	YKL044W	YPL075W	YCL040W	YCR065W	YLR228C
YKL032C	YIL111W	YPL075W	YNL203C	YCR065W	YPL282C
YKL032C	YOR024W	YPL075W	YCL030C	YCR065W	YPR013C
YNL103W	YNL277W	YPL075W	YJR048W	YCR065W	YDL244W
YNL103W	YNL017C	YPL075W	YCR031C	YCR065W	YLR460C
YNL103W	YFR035C	YJL089W	YNL081C	YCR065W	YDR083W
YNL103W	YIR017C	YJL089W	YOL126C	YCR065W	YHR138C
YNL103W	YGR055W	YJL089W	YBR266C	YCR065W	YPL028W
YNL103W	YLR180W	YJL089W	YIL110W	YCR065W	YOL060C
YNL103W	YER091C	YDL020C	YGL048C	YCR065W	YBL032W
YNL103W	YLR092W	YDL020C	YOR259C	YCR065W	YGL123W
YNL103W	YJL212C	YDL020C	YOR117W	YCR065W	YNL012W
YNL103W	YIR018W	YDL020C	YDL007W	YCR065W	YOL119C
YNL103W	YLR303W	YCR065W	YGR287C	YCR065W	YMR250W
YNL103W	YGR060W	YCR065W	YIR041W	YCR065W	YJL155C
YNL103W	YNL031C	YCR065W	YOL014W	YCR065W	YHR109W
YNL103W	YFR030W	YCR065W	YPL171C	YCR065W	YDR287W
YNL103W	YNL030W	YCR065W	YNL079C	YCR065W	YNL013C
YNL103W	YJR010W	YCR065W	YGR149W	YCR065W	YIL096C
YNL103W	YJL078C	YCR065W	YDR161W	YCR065W	YGL156W
YNL103W	YPR167C	YCR065W	YGL161C	YCR065W	YGR166W
YMR043W	YER069W	YCR065W	YLL067C	YCR065W	YDL169C
YMR043W	YLR131C	YCR065W	YGL147C	YCR065W	YPR010C
YMR043W	YML052W	YCR065W	YDL025C	YCR065W	YDR277C
YMR043W	YJL159W	YCR065W	YNL134C	YCR065W	YOL151W
YMR043W	YIL015W	YCR065W	YNR071C	YCR065W	YMR324C
YMR043W	YGL032C	YCR065W	YDR039C	YCR065W	YLR272C
YMR043W	YDR507C	YCR065W	YHL024W	YCR065W	YOR227W
YMR043W	YLR190W	YCR065W	YHL010C	YCR065W	YGL033W
YMR043W	YNL298W	YCR065W	YNL112W	YCR065W	YPL170W
YMR043W	YNL053W	YCR065W	YPL280W	YCR065W	YNL078W
YMR043W	YNR063W	YCR065W	YGR251W	YCR065W	YIL119C
YMR043W	YPL187W	YCR065W	YGL209W	YCR065W	YAL040C
YMR043W	YDR403W	YCR065W	YLR205C	YCR065W	YIL111W
YMR043W	YKL164C	YCR065W	YJR156C	YKL112W	YJR137C
YMR043W	YGL021W	YCR065W	YPL056C	YKL112W	YIR023W
YMR043W	YOR315W	YCR065W	YHL039W	YKL112W	YDR361C
YMR043W	YDR042C	YCR065W	YGL158W	YKL112W	YKR029C

YKL112W	YLR222C	YKL112W	YKL029C	YDL056W	YER070W
YKL112W	YHL027W	YKL112W	YAL054C	YDL056W	YHR153C
YKL112W	YMR197C	YKL112W	YNL321W	YDL056W	YNL313C
YKL112W	YLR174W	YKL112W	YKL177W	YDL056W	YJR044C
YKL112W	YKL004W	YKL112W	YLR399C	YDL056W	YJL148W
YKL112W	YNR038W	YKL112W	YKL195W	YDL056W	YAR007C
YKL112W	YOR206W	YKL112W	YDR208W	YKL043W	YHR213W
YKL112W	YGR128C	YKL112W	YFL014W	YKL043W	YDR343C
YKL112W	YNL119W	YKL112W	YJR104C	YKL043W	YDR309C
YKL112W	YDR234W	YKL112W	YCL001W	YKL043W	YML116W
YKL112W	YHR161C	YKL112W	YDR027C	YKL043W	YGR251W
YKL112W	YLR400W	YKL112W	YHR077C	YKL043W	YHR005C
YKL112W	YMR092C	YKL112W	YKL008C	YKL043W	YIL099W
YKL112W	YCL064C	YCL066W	YPL187W	YKL043W	YMR015C
YKL112W	YOR207C	YCL066W	YIL099W	YKL043W	YPL265W
YKL112W	YDR046C	YDR310C	YHR185C	YKL043W	YMR136W
YKL112W	YOR145C	YDR310C	YJR078W	YKL043W	YHL028W
YKL112W	YDR463W	YDR310C	YDR523C	YKL043W	YCR098C
YKL112W	YOR309C	YDR310C	YJR077C	YKL043W	YKR102W
YKL112W	YKL182W	YDR310C	YGR059W	YKL043W	YJR094C
YKL112W	YOR210W	YDR310C	YDR403W	YKL043W	YMR138W
YKL112W	YHL028W	YDR310C	YOL102C	YKL043W	YEL040W
YKL112W	YDL105W	YDR310C	YGL170C	YKL043W	YCR065W
YKL112W	YPL012W	YDR310C	YOR314W	YKL043W	YBR158W
YKL112W	YNL312W	YDR310C	YDR042C	YKL043W	YGR249W
YKL112W	YIL018W	YDR310C	YJR025C	YKL043W	YMR011W
YKL112W	YOL077C	YDR310C	YOR313C	YKL043W	YMR137C
YKL112W	YGR059W	YDR310C	YDL028C	YKL043W	YEL070W
YKL112W	YNL036W	YDR310C	YKR033C	YKL043W	YPL177C
YKL112W	YNR046W	YDR310C	YGR258C	YKL043W	YMR020W
YKL112W	YDR384C	YDR310C	YCL049C	YKL043W	YPR013C
YKL112W	YML013CA	YDL056W	YDL102W	YKL043W	YMR195W
YKL112W	YPR110C	YDL056W	YDR263C	YKL043W	YDL214C
YKL112W	YBL039C	YDL056W	YML027W	YKL043W	YKL062W
YKL112W	YHR064C	YDL056W	YDR507C	YKL043W	YKL109W
YKL112W	YNL313C	YDL056W	YNR018W	YKL043W	YIL010W
YKL112W	YGR183C	YDL056W	YFL011W	YKL043W	YEL074W
YKL112W	YIR010W	YDL056W	YDL101C	YKL043W	YEL066W
YKL112W	YNL037C	YDL056W	YDR501W	YKL043W	YML131W
YKL112W	YKL143W	YDL056W	YJL045W	YKL043W	YIL012W
YKL112W	YIL160C	YDL056W	YML100W	YKL043W	YMR017W
YKL112W	YIL037C	YDL056W	YLR367W	YKL043W	YNL178W
YKL112W	YKL172W	YDL056W	YJL196C	YKL043W	YHL024W
YKL112W	YNL059C	YDL056W	YLR300W	YGL237C	YNR001C
YKL112W	YLR056W	YDL056W	YKL142W	YGL237C	YGL187C
YKL112W	YFR031CA	YDL056W	YMR199W	YGL237C	YPL019C
YKL112W	YKL144C	YDL056W	YOR074C	YGL237C	YGR234W
YKL112W	YKR081C	YDL056W	YER095W	YGL237C	YBR244W
YKL112W	YGR231C	YDL056W	YDR451C	YGL237C	YDL230W
YKL112W	YDR283C	YDL056W	YER079W	YGL237C	YER174C
YKL112W	YDR312W	YDL056W	YJL194W	YGL237C	YGR059W
YKL112W	YDR330W	YDL056W	YNL274C	YGL237C	YKL148C
YKL112W	YMR093W	YDL056W	YLR397C	YGL237C	YHR001WA
YKL112W	YOR117W	YDL056W	YNR044W	YGL237C	YOR375C
YKL112W	YHR090C	YDL056W	YPL056C	YGL237C	YOR154W
YKL112W	YCL004W	YDL056W	YNL312W	YGL237C	YPL018W
YKL112W	YLR293C	YDL056W	YPR075C	YGL237C	YOR065W
YKL112W	YKR056W	YDL056W	YER094C	YGL237C	YGR183C
YKL112W	YBR101C	YDL056W	YBR070C	YGL237C	YDL205C
YKL112W	YOR209C	YDL056W	YCR065W	YGL237C	YML091C
YKL112W	YMR297W	YDL056W	YKL112W	YGL237C	YPL207W
YKL112W	YOR056C	YDL056W	YPL256C	YGL237C	YJR048W

YGL237C	YJL148W	YOR028C	YKL103C	YOR028C	YDR077W
YMR280C	YLR174W	YOR028C	YER073W	YOR028C	YIL119C
YMR280C	YJR095W	YOR028C	YHR179W	YOR028C	YNL087W
YMR280C	YAL054C	YOR028C	YPR065W	YOR028C	YNL180C
YMR280C	YOL126C	YOR028C	YLL061W	YOR028C	YKR039W
YMR280C	YJL089W	YOR028C	YML131W	YOR028C	YER044C
YMR182C	YNL338W	YOR028C	YBL043W	YOR028C	YOL059W
YMR182C	YNL336W	YOR028C	YJL076W	YOR028C	YHL041W
YOR028C	YDR343C	YOR028C	YLR413W	YOR028C	YER028C
YOR028C	YLR081W	YOR028C	YJR145C	YOR028C	YNL178W
YOR028C	YML116W	YOR028C	YKR067W	YOR028C	YOR381W
YOR028C	YDR345C	YOR028C	YOR049C	YBR297W	YBR298C
YOR028C	YBR008C	YOR028C	YLR034C	YCR040W	YPL187W
YOR028C	YDR338C	YOR028C	YKL182W	YLR403W	YPL086C
YOR028C	YHR128W	YOR028C	YOL157C	YLR403W	YOR138C
YOR028C	YNL179C	YOR028C	YJR094C	YLR403W	YOR032C
YOR028C	YJR003C	YOR028C	YOR230W	YLR403W	YGL104C
YOR028C	YMR244CA	YOR028C	YBR070C	YLR403W	YNR018W
YOR028C	YMR246W	YOR028C	YDL169C	YLR403W	YNL241C
YOR028C	YDR300C	YOR028C	YJR132W	YLR403W	YOR140W
YOR028C	YGR249W	YOR028C	YHR049W	YLR403W	YJL068C
YOR028C	YGR180C	YOR028C	YCL025C	YLR403W	YDR039C
YOR028C	YLR228C	YOR028C	YJR061W	YLR403W	YOR117W
YOR028C	YOR315W	YOR028C	YOL151W	YCL067C	YCL066W
YOR028C	YDR042C	YOR028C	YPR124W	YCL067C	YGR044C
YOR028C	YKL044W	YOR028C	YGR238C	YCL067C	YIL015W
YOR028C	YJR146W	YOR028C	YPL061W	YCL067C	YPL187W
YOR028C	YOL060C	YOR028C	YJR147W		

DNA Damage-Specific Hierarchy

YBL021C = bottom	YDL020C = bottom	YJR060W = first
YBR297W = bottom	YIR017C = bottom	YPL038W = first
YCR093W = bottom	YCL066W = bottom	YNL103W = first
YDR310C = bottom	YPL016W = bottom	YPL248C = first
YDR448W = bottom	YCR040W = bottom	YIR018W = first
YER088C = bottom	YIL122W = bottom	YLR013W = first
YER169W = bottom	YDL170W = bottom	YCR097W = first
YGL013C = bottom	YPR065W = bottom	YCL067C = first
YGL071W = bottom	YPL177C = bottom	YOL004W = first
YGL166W = bottom	YIR023W = bottom	YCR096C = first
YGL237C = bottom	YDR463W = bottom	YJL056C = first
YHR124W = bottom	YKL062W = bottom	YPL089C = first
YIL101C = bottom	YJL089W = bottom	YEL009C = first
YKL032C = bottom	YLR131C = first	YLR256W = first
YKL038W = bottom	YNL199C = first	YMR021C = first
YKR034W = bottom	YHR206W = first	YKL112W = first
YMR182C = bottom	YLR403W = first	YMR280C = first
YOL108C = bottom	YHL027W = first	YBR049C = first
YOR358W = bottom	YGR044C = first	YCR065W = first
YPL075W = bottom	YFL031W = first	YBR083W = two
YPL230W = bottom	YKL043W = first	YGL209W = two
YOR140W = bottom	YOR028C = first	YGL035C = two
YJR094C = bottom	YGL073W = first	YMR043W = two
YOR344C = bottom	YML007W = first	YDL056W = two

Sporulation: Regulator to Target Mapping

YHR124W	YOR313C	YIR023W	YIR031C	YIR023W	YJL212C
YIR023W	YMR056C	YIR023W	YOL126C	YIR023W	YOL125W
YIR023W	YPL124W	YIR023W	YIR029W	YDR448W	YJL153C
YIR023W	YDR065W	YIR023W	YDR508C	YML027W	YHR185C

YML027W	YPL075W	YGR044C	YJR094C	YLR182W	YPR120C
YML027W	YIL139C	YKL185W	YIL099W	YLR182W	YJL074C
YML027W	YER095W	YJR060W	YDR438W	YLR182W	YNL312W
YML027W	YPL255W	YJR060W	YLR303W	YLR182W	YMR076C
YML027W	YDL049C	YJR060W	YBR250W	YLR182W	YPL267W
YML027W	YGL162W	YJR060W	YIR017C	YLR182W	YGR109C
YML027W	YOR358W	YJR060W	YFR030W	YLR182W	YJL092W
YML027W	YNL095C	YJR060W	YBR049C	YLR182W	YKL112W
YML027W	YPL119C	YJR060W	YJR010W	YLR182W	YGR110W
YML027W	YHR152W	YJR060W	YNL095C	YLR182W	YDR113C
YML027W	YHR208W	YJR060W	YNL103W	YJR094C	YMR133W
YML027W	YER179W	YHR084W	YBR083W	YJR094C	YDR522C
YML027W	YFR012W	YHR084W	YGL062W	YJR094C	YHR014W
YML027W	YGR109C	YHR084W	YIL037C	YJR094C	YDR523C
YML027W	YMR147W	YHR084W	YKL189W	YJR094C	YJL106W
YML027W	YHR151C	YHR084W	YKL096W	YJR094C	YHL022C
YML027W	YGR110W	YHR084W	YGL032C	YJR094C	YIL072W
YML027W	YIR042C	YHR084W	YOR077W	YGL035C	YMR280C
YML027W	YGL163C	YHR084W	YMR198W	YGL035C	YPL248C
YML027W	YKL042W	YPL248C	YCL066W	YGL035C	YKL109W
YML027W	YKL043W	YPL248C	YPL034W	YGL035C	YGL003C
YML027W	YFL003C	YPL248C	YCL067C	YGL035C	YDR516C
YML027W	YKR089C	YNL199C	YDR042C	YGL035C	YDR146C
YML027W	YMR001C	YIR017C	YFR030W	YBR049C	YDL186W
YML027W	YOR255W	YIR017C	YJR010W	YBR049C	YIL112W
YML027W	YAL062W	YOR032C	YDR522C	YBR049C	YOL004W
YML027W	YDR333C	YOR032C	YDR042C	YBR049C	YGR243W
YML027W	YFR034C	YBR182C	YKL185W	YBR049C	YMR188C
YML027W	YLL028W	YBR182C	YIR013C	YBR049C	YLL033W
YFL044C	YPL034W	YBR182C	YKL096W	YBR049C	YJR099W
YOR358W	YOL091W	YBR182C	YLR393W	YBR049C	YML119W
YOR358W	YDR522C	YBR182C	YLR394W	YBR049C	YMR280C
YOR358W	YBR168W	YAL051W	YDR256C	YBR049C	YAL054C
YOR358W	YDR042C	YKL062W	YGR088W	YBR049C	YKL104C
YOR358W	YLR220W	YKL062W	YDR180W	YBR049C	YNL171C
YOR358W	YLL027W	YKL062W	YAL062W	YBR049C	YNL216W
YHL027W	YJR094C	YKL062W	YPR104C	YBR049C	YDR146C
YHL027W	YAL067C	YDR463W	YGR225W	YPL089C	YKL096W
YHL027W	YDR403W	YDR463W	YDR508C	YPL089C	YIL122W
YHL027W	YJL106W	YOL004W	YLR438W	YPL089C	YGL158W
YHL027W	YDR402C	YOL004W	YGR044C	YDR207C	YLR438W
YHL027W	YIL072W	YOL004W	YDR207C	YDR207C	YMR133W
YOR344C	YGR225W	YOL004W	YHR014W	YDR207C	YDR522C
YOR344C	YDR042C	YOL004W	YPL111W	YDR207C	YGR088W
YOR344C	YBR148W	YOL004W	YGR088W	YDR207C	YDR285W
YOR344C	YGL230C	YOL004W	YJL153C	YDR207C	YOR351C
YIL122W	YDR522C	YOL004W	YJL106W	YDR207C	YJL153C
YIL122W	YGL015C	YOL004W	YDR256C	YDR207C	YDR256C
YIL122W	YLR393W	YOL004W	YGL073W	YDR207C	YGL073W
YIL122W	YBR285W	YOL004W	YHL022C	YDR207C	YHR152W
YIL122W	YGR099W	YOL004W	YIL072W	YDR207C	YHL022C
YIL122W	YHL022C	YGL209W	YMR280C	YDR207C	YLR263W
YIL122W	YPR104C	YGL209W	YPL248C	YDR207C	YER179W
YIL122W	YIL037C	YGL209W	YKL109W	YDR207C	YGR044C
YIL122W	YDR273W	YGL209W	YGL035C	YDR207C	YHR014W
YIL122W	YDR104C	YGL209W	YDR516C	YDR207C	YPL111W
YIL122W	YGR196C	YGL209W	YDR146C	YDR207C	YJR094C
YGL073W	YOR344C	YLR182W	YHR150W	YDR207C	YAL054C
YGL073W	YBR049C	YLR182W	YDR263C	YDR207C	YLR329W
YGL073W	YHR053C	YLR182W	YER095W	YDR207C	YDR403W
YBR083W	YOR077W	YLR182W	YHR153C	YDR207C	YJL106W
YBR083W	YLR403W	YLR182W	YML027W	YDR207C	YIL072W

YPL038W	YHR157W	YIR018W	YER180C	YDR146C	YAL018C
YPL038W	YDR522C	YIR018W	YPL209C	YDR146C	YJL160C
YPL038W	YJR137C	YIR018W	YDL114W	YNL103W	YIR018W
YPL038W	YIR017C	YIR018W	YOL024W	YNL103W	YLR303W
YPL038W	YDR042C	YIR018W	YAL054C	YNL103W	YIR017C
YPL038W	YJL060W	YIR018W	YJL106W	YNL103W	YFR030W
YPL038W	YJL212C	YIR018W	YCL066W	YNL103W	YJR010W
YKL038W	YGL062W	YIR018W	YKL100C	YNL103W	YER091C
YEL009C	YPL111W	YIR018W	YMR056C	YNL103W	YJL212C
YEL009C	YER055C	YIR018W	YLR290C	YMR043W	YER069W
YEL009C	YDL170W	YIR018W	YDL115C	YMR043W	YDR148C
YEL009C	YBR250W	YIR018W	YPL208W	YMR043W	YGL032C
YEL009C	YER069W	YIR018W	YDR371W	YMR043W	YHR152W
YEL009C	YOL058W	YIR018W	YFR032C	YMR043W	YPL111W
YEL009C	YJR109C	YIR018W	YCL067C	YMR043W	YKR066C
YEL009C	YEL061C	YIR018W	YLR043W	YMR043W	YLR274W
YEL009C	YDR508C	YLR256W	YGR088W	YMR043W	YDR403W
YEL009C	YNL103W	YGL166W	YHR053C	YMR043W	YHR151C
YML007W	YGR088W	YKR099W	YER055C	YMR043W	YML053C
YML007W	YKR066C	YKR099W	YMR188C	YMR043W	YLR084C
YML007W	YJR109C	YKR099W	YER091C	YMR043W	YDR042C
YFR034C	YJR099W	YFL031W	YJR094C	YMR043W	YMR253C
YFR034C	YIL037C	YLR013W	YCL066W	YMR043W	YDR147W
YFR034C	YER085C	YLR013W	YCR097W	YMR043W	YLR273C
YFR034C	YIL121W	YLR013W	YDL115C	YMR043W	YGR108W
YFR034C	YGR273C	YLR013W	YCL067C	YMR043W	YGL116W
YFR034C	YHR053C	YLR013W	YDL114W	YMR043W	YJL160C
YBL021C	YML119W	YOL089C	YKL062W	YMR043W	YDR146C
YBL021C	YDR148C	YOL089C	YDR042C	YPL075W	YNL203C
YBL021C	YGR059W	YOL089C	YDR317W	YJL089W	YOL126C
YBL021C	YLR220W	YER088C	YAR007C	YJL089W	YBR268W
YBL021C	YLL027W	YKR034W	YIR031C	YNL216W	YCL066W
YBL021C	YFR023W	YKR034W	YIR029W	YNL216W	YDL186W
YBL021C	YOR375C	YKR034W	YOR375C	YNL216W	YGL071W
YBL021C	YML091C	YPL177C	YFR005C	YNL216W	YIL121W
YMR021C	YGR088W	YPL177C	YDR042C	YNL216W	YDR448W
YMR021C	YIL112W	YPL177C	YIL099W	YNL216W	YOR344C
YMR021C	YPL177C	YPL177C	YBL043W	YNL216W	YER046W
YMR021C	YLR213C	YPL177C	YMR017W	YNL216W	YGL075C
YMR021C	YDR256C	YPR104C	YLR030W	YNL216W	YGL073W
YMR021C	YDR207C	YPR104C	YDR448W	YNL216W	YEL023C
YMR021C	YPR111W	YPR104C	YEL009C	YNL216W	YJL089W
YMR021C	YER146W	YPR104C	YOR355W	YNL216W	YOR100C
YGL071W	YDR523C	YOL108C	YJL153C	YNL216W	YKL062W
YGL071W	YPL034W	YOL108C	YDR147W	YNL216W	YOR365C
YGL071W	YMR056C	YOL108C	YDR146C	YNL216W	YOR338W
YGL071W	YAL018C	YCR097W	YCL066W	YNL216W	YCL067C
YGL071W	YHL012W	YCR097W	YDR103W	YKL112W	YDR326C
YJL056C	YML066C	YCR097W	YGR044C	YKL112W	YOR261C
YJL056C	YML065W	YCR097W	YKL107W	YKL112W	YJR137C
YHR206W	YIR031C	YCR097W	YGL230C	YKL112W	YDR285W
YHR206W	YIL099W	YKL032C	YOR025W	YKL112W	YIL031W
YHR206W	YAL062W	YKL032C	YDL247W	YKL112W	YIR023W
YHR206W	YGR108W	YKL032C	YLL033W	YKL112W	YHL027W
YHR206W	YML007W	YJL206C	YKR066C	YKL112W	YHL028W
YHR206W	YMR017W	YJL206C	YPL034W	YKL112W	YOL068C
YHR206W	YKL142W	YDR146C	YLR049C	YKL112W	YNL312W
YHR206W	YHL012W	YDR146C	YGR044C	YKL112W	YNL116W
YHR206W	YNL014W	YDR146C	YLR013W	YKL112W	YAL054C
YIR018W	YER095W	YDR146C	YKL185W	YKL112W	YNL117W
YIR018W	YDR370C	YDR146C	YLR012C	YKL112W	YGR059W
YIR018W	YER096W	YDR146C	YAL062W	YKL112W	YGL192W

YKL112W	YLR096W	YCR065W	YDR356W	YKL043W	YHL028W
YKL112W	YIL072W	YCR065W	YOR355W	YKL043W	YKL062W
YKL112W	YPR104C	YMR037C	YGR088W	YKL043W	YKL109W
YKL112W	YLL033W	YMR037C	YAL062W	YKL043W	YJR094C
YKL112W	YDR207C	YCL066W	YIL099W	YKL043W	YCR065W
YKL112W	YIL037C	YDL056W	YHR150W	YKL043W	YHL024W
YKL112W	YGR185C	YDL056W	YDR263C	YKL043W	YMR017W
YKL112W	YFL037W	YDL056W	YER095W	YGL237C	YDR148C
YKL112W	YMR198W	YDL056W	YML027W	YGL237C	YGR059W
YKL112W	YDL193W	YDL056W	YMR144W	YGL237C	YLR220W
YKL112W	YDR463W	YDL056W	YJL074C	YGL237C	YLL027W
YCR065W	YDR089W	YDL056W	YHR152W	YGL237C	YBR025C
YCR065W	YHR150W	YDL056W	YNL312W	YGL237C	YOR375C
YCR065W	YDR523C	YDL056W	YFL011W	YGL237C	YML091C
YCR065W	YGL209W	YDL056W	YGR109C	YMR280C	YAL054C
YCR065W	YNL013C	YDL056W	YCR065W	YMR280C	YNL117W
YCR065W	YBR231C	YDL056W	YKL112W	YMR280C	YOL126C
YCR065W	YMR172W	YDL056W	YHR151C	YMR280C	YJL089W
YCR065W	YJL106W	YDL056W	YDR113C	YKL109W	YCL066W
YCR065W	YIR029W	YDL056W	YGR110W	YKL109W	YDR148C
YCR065W	YGL158W	YDL056W	YJL045W	YKL109W	YGR059W
YCR065W	YIL144W	YDL056W	YHR153C	YKL109W	YCL067C
YCR065W	YNL128W	YDL056W	YPR120C	YKL109W	YOR375C
YCR065W	YDR113C	YDL056W	YKL142W	YKL109W	YML091C
YCR065W	YGL210W	YDL056W	YHL012W	YLR403W	YOR032C
YCR065W	YGL033W	YDL056W	YMR076C	YLR403W	YPL034W
YCR065W	YDL247W	YDL056W	YNL154C	YLR098C	YPR140W
YCR065W	YOR255W	YDL056W	YAL062W	YCL067C	YCL066W
YCR065W	YOR077W	YDL056W	YAR007C	YCL067C	YDR103W
YCR065W	YMR198W	YKL043W	YMR018W	YCL067C	YGR044C
YCR065W	YJR157W	YKL043W	YIL132C	YCL067C	YHR084W
YCR065W	YEL061C	YKL043W	YPL177C		
YCR065W	YHL024W	YKL043W	YIL099W		

Sporulation-Specific Hierarchy

YAL051W = bottom
 YBL021C = bottom
 YER088C = bottom
 YFL044C = bottom
 YGL166W = bottom
 YGL237C = bottom
 YHR124W = bottom
 YJL056C = bottom
 YJL206C = bottom
 YKL032C = bottom
 YKL038W = bottom
 YKR034W = bottom
 YKR099W = bottom
 YLR098C = bottom
 YLR256W = bottom
 YMR037C = bottom
 YNL199C = bottom
 YPL075W = bottom
 YOR358W = bottom
 YFR034C = bottom
 YJR094C = bottom
 YOR344C = bottom
 YIR017C = bottom
 YCL066W = bottom
 YKL185W = bottom

YPL177C = bottom
 YML007W = bottom
 YDR448W = bottom
 YGL071W = bottom
 YJL089W = bottom
 YIR023W = bottom
 YDR463W = bottom
 YOR032C = bottom
 YML027W = first
 YHL027W = first
 YGR044C = first
 YDR207C = first
 YFL031W = first
 YKL043W = first
 YGL073W = first
 YNL216W = first
 YJR060W = first
 YPL038W = first
 YNL103W = first
 YPL248C = first
 YIR018W = first
 YLR013W = first
 YCR097W = first
 YKL109W = first
 YCL067C = first

YBR182C = first
 YDR146C = first
 YMR021C = first
 YHR206W = first
 YPR104C = first
 YMR280C = first
 YKL112W = first
 YLR403W = first
 YBR049C = first
 YHR084W = first
 YKL062W = first
 YOL004W = first
 YEL009C = first
 YCR065W = first
 YIL122W = two
 YBR083W = two
 YGL209W = two
 YGL035C = two
 YLR182W = two
 YOL089C = two
 YOL108C = two
 YMR043W = two
 YDL056W = two
 YPL089C = three