

	Citrobacter	Salmonella	Escherichia	Klebsiella	Enterobacter	Essentiality	Essential	Non-essential
accA								
accB								
accC								
accD								
acpP								
acpS								
adk								
alaS								
argS								
asd								
asnS								
bamA								
bamD								
cca								
coaA								
coaD								
coaE								
cysS								
dapA								
dapB								
dapD								
dapE								
dfp								
dnaA								
dnaB								
dnaC								
dnaE								
dnaN								
dnaQ								
dnaT								
dut								
dxr								
dxs								
engB								
eno								
era								
erpA								
fabB								
fabD								
fabG								
fabI								
fabZ								
ffh								
fldA								
folC								
folE								
folK								
frf								
ftsA								
ftsH								
ftsI								
ftsQ								
ftsY								
ftsZ								
fusA								
gapA								
gcp								
glmM								
glmU								
glnS								
gltX								
glyQ								
glyS								
gmK								
groL								
groS								
gyrA								
gyrB								
hemA								
hemC								
hemE								
hemG								
hemH								
hisS								
holA								
holB								
ileS								
infB								
ispB								
ispF								
ispG								
kdtA								
lepB								
leuS								
lexA								
lgt								
ligA								
Int								
lolB								
lolC								
lolD								
lolE								
lptA								
lptB								
lpxA								
lpxB								
lpxC								
lpxD								
lpxH								
lpxK								
lspA								
lysS								
metG								
metK								
mraY								
mrdB								
mreC								
msbA								
mukB								
mukE								
mukF								
murA								
murB								
murC								
murD								
murE								
murF								
murG								
murI								
nadD								
nusG								
obg								
pgk								
pgsA								
pheS								
pheT								
plsB								
plsC								
ppa								
ppnK								
prfB								
proS								
prs								
psd								
pssA								
pth								
pyrG								
pyrH								
rho								
ribA								
ribB								
ribD								
ribE								
ribF								
ribH								
rimM								
rlpB								
rnpA								
rplB								
rplC								
rplD								
rplE								
rplF								
rplJ								
rplK								
rplL								
rplM								
rplN								
rplO								
rplP								
rplQ								
rplR								
rplS								
rplU								
rplV								
rplW								
rplX								
rplY								
rpmA								
rpmC								
rpoA								
rpoB								
rpoC								
rpoD								
rpoH								
rpsA								
rpsB								
rpsC								
rpsD								
rpsE								
rpsG								
rpsH								
rpsJ								
rpsK								
rpsL								
rpsM								
rpsN								
rpsP								
rpsQ								
rpsR								
rpsS								
rpsU								
secA								
secD								
secE								
secY								
serS								
thrS								
thyA								
tilS								
tmk								
trmD								
tsf								
ubiA								
ubiB								
ubiD								
ubiE								
uppS								
valS								
ybeY								
yeaZ								
yidC								
yjeE								
yigP								
yigQ								
yqgF								
dnaG								
fabA								
fabH								
hemD								
infC								
ispH								
kdsA								
lptD								
mviN								
nadE								
rpmB								
rpmH								
secF								
def								
dicA								
dnaK								
fnt								
folB								
folD								
ftsB								
ftsL								
ftsW								
hemB								
infA								
map								
nusB								
rplT								
rpsF								
rpsT								
ssb								
tadA								
dapF								
hemL								
rsgA								
ubiG								
ispD								
kdsB								
priA								
rpmD								
ci								
lipA								
lpdA								
rpmI								
yadF								
yciM								
glmS								
topA								
gpsA								
minE								
orn								
ubiX								
holD								
trpS								
kdtX								
rnc								
grpE								
aspS								
der								
fbaA								