Enterobacteriaceae	Endosymbiont	Gammaproteobacteria	Proteobacteria	Bacteria		Essentiality Non-essential ■ Essential
En	E	Gà	Pre	Ba	dnaE ftsZ gltX gyrB ileS ligA pheS rplF	al
					dnsXXB dnsXXB dnsXXB dnsABCDESAB dnsASGASGAS dns	
					dxs engB fabG frr ftsA glyS murG nusG	
					rpIO rpIP rpIQ rpIX rpoD	
					rpsG rpsK rpsM serS tmk uppS alaS erpA fabZ	
					glnS holA infA ispE ispG ispH	
					lepB lgt loIE lspA lysS msbA murB murC nrdB	
					pheT prfA pyrG pyrH rimN rplB rplL rplN rplR	
					rpll rplV rpmD rpsH rpsL rpsN	
					rpsQ thrS tilS ybeY yeaZ gmk acpP acpS adk argS	
					asd asnS aspS bamD cca cysS dapA dapD dapE	
					det der dnaB dnaG dnaN dnaX dut eno	
					fabB fabI fbaA ffh fldA foIC foID ftsH ftsI	
					ftsW ftsY fusA gapA gcp glmM glmU	
					glyQ groL groS gyrA hemC hisS holB infCD ispo	
					metG metK mraY murA murD murE murl mviN	
					nusA nusB obg pgk ppa ppnK prs pth	
					rho ribA ribB ribE ribF ribH rpIC rpID	
					rpID rpIJ rpIS rpIU rpIW rpmA rpmB rpoH rpsA	
					rpsB rpsJ rpsR rpsS rpsU secA secY ssb	
					suhB tadA trmD tsf tyrS yidC yqgF dnaA hemE	
					IpxD IpxK rpmC thyA yjgQ accA accD cdsA	
					coaD era hemH ispB kdsB kdtA loIA lpxB lpxH	
					pgsA secE COG3 accB accC coaA coaBC	
					dnaC dnaT fabA fabD fabH folB folE ftsQ glmS	
					hemA hemB hemD hemG kdsA lexA	
					lolB lolE.1 lptA lptB lptD lptE lpxA lpxC mrdA mrdB	
					mreC mreD mukB mukE mukF murF nadD nadE	
					plsB plsC priA psd pssA rnpA rplY rpoC secD	
					secF topA ubiB ubiE yigP atpA folA	
					mnmA nrdA purB rplA rpsF rpsI	
					rpsO atpD aceE aceF ackA ahpC apaH aroA aroB	
					aroC aroE aroQ atpC atpE atpF atpG	
					atpH carA carB clpP clpX cls csrA	
					cyoB cyoEcyoE cysEF deaD dksA dnaK dnaA	
					dnaQ efp fploB glyd ggreA ggreA ggreA filKT	
					hisA hisB hisF hisG hisH	
					htpX iscA lepA lon lpdA metE miaA minC minD	
					mnmE mnmG nfuA nth nuoA nuoB nuoC nuoF	
					nuoG nuoH nuoJ nuoK nuoL nuoM nuoN orn	
					pepA pfkA pgi pgl pitA pnp prmC ptsH ptsl	
					purA purH pykA rbfA recD rlmE rlmN rluC	
					rluD rnc rne rnt rpe rpiA rpll rpmE	
					rpmF rpmG rpmH rpmI rpmJ rpsT rsmA rsmD rsmH	
					serC smpB sodB sucA surA tal	
					tpiA trpS truB trxB trxB tuf tusE ung yajC	
					yajC yajR ychF ychZ yggX yngN yibN yigF yoaE	
					yoaE yrbA zwf ubiG cmk folP	