

Additional file 1 a– Global regulators and their regulated genes

Global Regulators	Regulation	Metabolic Pathway Genes
Crp/Cya	+	<i>aceEF, acnAB, acs, focA, fumA, fur, gltA, malT, manXYZ, mdh, mlc, pckA, pflB, pgk, ptsG, sdhCDAB, sucABCD</i>
	–	<i>cyaA, lpdA, rpoS</i>
Cra	+	<i>aceBAK, acnA, cydB, icdA, pckA, pgk, ppsA</i>
	–	<i>acnB, adhE, eda, edd, pfkA, pykF, zwf</i>
ArcA/B	+	<i>cydAB, focA, pflB</i>
	–	<i>aceBAK, aceEF, acnAB, cyoABCDE, fumAC, gltA, icdA, lpdA, mdh, nuoABCEFGHIJKLMN, pdhR, sodA, sdhCDAB, sucABCD</i>
Fnr	+	<i>acs, focA, frdABCD, pflB, yfiD</i>
	–	<i>acnA, cyoABCDE, cydAB, fumA, fnr, icdA, ndh, nuoABCEFGHIJKLMN, sdhCDAB, sucABCD</i>
Mlc	–	<i>crr, ptsG, ptsHI, manXYZ, malT</i>
FadR	+	<i>iclR</i>
	–	

IclR	—	<i>aceBAK, acs</i>
SoxR/S	+	<i>acnA, sodA, zwf, fumC, fur</i>
	—	
RpoS	+	<i>acnA, acs, adhE, fumC, gadAB, talA, tktB, poxB, osmC</i>
	—	<i>ompF</i>
Fur	+	
	—	<i>entABCDE, sodA</i>
PdhR	+	
	—	<i>aceEF, lpdA</i>