

Analyses of energy metabolism and stress defence provide insights into *Campylobacter concisus* growth and pathogenicity

Table S7: Query genes and proteins from *C. jejuni* subsp. *jejuni* NCTC 11168, *E. coli* strain K-12 MG1655, and *C. jejuni* subsp. *jejuni* strain 81116 used to identify genes and proteins for amino acid use in *C. concisus*

Gene name	Locus tag	Function	Reference
<i>sdaA</i>	<i>cj1624c</i>	serine dehydratase converts serine to pyruvate	1
<i>sdaC</i>	<i>cj1625c</i>	transports serine	1
<i>putA</i>	<i>cj1503c</i>	proline dehydrogenase converts proline to S-1-pyrroline carboxylate	2
<i>putP</i>	<i>cj1502c</i>	transports proline	2
<i>dcuA</i>	<i>cj0088</i>	uptake of fumarate and aspartate	3
<i>dcuB</i>	<i>cj0671</i>	uptake of fumarate and aspartate, succinate efflux	3
<i>dctA</i>	<i>cj1192</i>	uptake of fumarate, aspartate and succinate	3
<i>aspA</i>	<i>cj0087</i>	aspartate ammonia lyase converts aspartate to fumarate and ammonia	4
<i>aspB</i>	<i>cj0762c</i>	aspartate:glutamate transaminase converts glutamate and oxaloacetate to 2-oxoglutarate and aspartate	4
<i>ansB</i>	<i>cj0029</i>	asparaginase deaminates asparagine to aspartate	5
	<i>cj0919c</i>	ABC-type amino-acid transporter permease	6
	<i>cj0920c</i>	ABC-type amino-acid transporter permease	6
<i>peb1a</i>	<i>cj0921c</i>	aspartate/glutamate-binding protein of ABC transporter	6
<i>pebC</i>	<i>cj0922c</i>	ABC-type amino-acid transporter ATP-binding protein	6
<i>paqP</i>	<i>cj0467</i>	ABC-type glutamate transporter permease	7
<i>paqQ</i>	<i>cj0468</i>	ABC-type glutamate transporter ATP-binding protein	7
<i>gdhA</i>	<i>b1761</i>	glutamate dehydrogenase converts glutamate to 2-oxoglutarate	8
<i>livJ</i>	<i>CJJ81176_1038</i>	periplasmic binding protein for branched chain amino acid transport	9
<i>livK</i>	<i>CJJ81176_1037</i>	periplasmic binding protein for branched chain amino acid transport	9
<i>livH</i>	<i>CJJ81176_1036</i>	inner membrane permease for branched chain amino acid transport	9
<i>livM</i>	<i>CJJ81176_1035</i>	inner membrane permease for branched chain amino acid transport	9
<i>livG</i>	<i>CJJ81176_1034</i>	cytoplasmic ATPase for branched chain amino acid transport	9
<i>livF</i>	<i>CJJ81176_1033</i>	cytoplasmic ATPase for branched chain amino acid transport	9