

Supplemental tabel 2. Comparison of gene expression for amino acid metabolism between bacteroids and free-living cells

ORF	Gene annotation	clone	Intensity of sigA normalized signal			Ratio	
			Bacteroid	Free TY	Free B- (+C)	B/F(TY)	B/F(B-)
mlr6209	Histidine decarboxylase	RLB04931	5.71	0.01	0.03	519	197
mlr6283	L-Proline 3-hydroxylase	RLB21690	27.06	0.15	0.12	185	235
mlr6130	L-Threonine aldolase	RLB05168	2.58	0.04	0.02	73	109
mlr5971	L-Lysine 2,3-aminomutase	RLB21047	29.34	0.29	0.34	100	86
mll6211	Alanine racemase	RLB18566	75.27	0.81	0.49	93	154
mlr5923	Lysine:N6-hydroxylase	RLB19159	9.30	0.16	0.09	59	100
mlr6114	Serine hydroxymethyltransferase	RLB15002	7.36	0.16	0.10	47	75
mlr5971	L-Lysine 2,3-aminomutase	RLB05022	7.65	0.26	0.12	29	66
mlr5883	Aspartate transaminase	RLB24892	4.73	0.18	0.12	26	41
mlr9371	Alanine racemase	RLB06943	8.67	0.32	0.22	27	39
mlr6210	Glutamine synthetase III	RLB04931	5.71	0.01	0.03	519	197
mlr5943	L-2,4-Diaminobutyric acid transaminase	RLB13370	88.90	0.40	0.32	223	274
Total counts of all spots			3772.17	2624.54	2435.36		

Free TY, free-living cells grown in TY medium; Free B-(+C), free-living cells grown in B- minimal medium with carbon source (mannitol); B/F(TY) and B/F(B-) indicate ratios of bacteroid signal to signal of free-living cells grown in TY and B- minimal medium with carbon source (mannitol), respectively.