

Table S3. RDP Library Compare results for 454 and clone libraries.

Bacterial order	CSM1235-gut	CSM1280-head-2	CSM1280-crop-2	CSM1280-midgut-2	CSM1280-hindgut-2
Rhizobiales	2.44E-02	4.70E-02	N/A	N/A	7.09E-01
Opitutales	8.00E-05	2.85E-01	N/A	7.58E-03	7.49E-02
Burkholderiales	1.08E-05	1.98E-01	N/A	1.93E-01	1.68E-01
Xanthomonadales	N/A	6.00E-14	9.94E-05	3.83E-03	6.00E-14
Campylobacteriales	N/A	3.82E-05	N/A	1.35E-02	4.78E-01
Flavobacteriales	N/A	9.74E-02	N/A	N/A	N/A
Alteromonadales	N/A	N/A	N/A	N/A	N/A
Sphingobacteriales	N/A	N/A	N/A	N/A	N/A
Oceanospirillales	N/A	N/A	N/A	N/A	N/A
Pseudomonadales	N/A	N/A	N/A	N/A	N/A
Actinobacteridae	3.68E-01	N/A	N/A	N/A	N/A
Lactobacillales	N/A	N/A	N/A	N/A	N/A
Entomoplasmatales	1.93E-06	N/A	N/A	N/A	N/A

P-values on the level of bacterial orders are given. Significantly differing ($p < 0.01$) orders in 454 libraries and Sanger sequenced clone libraries according to RDP library compare are indicated in boldface.

Table S3. Continued.

Bacterial order	CSM1280-wk-1	CSM1280-head-3	CSM1280-crop-3	CSM1280-midgut-3	CSM1280-hindgut-3
Rhizobiales	9.00E-04	4.70E-02	1.01E-02	5.16E-01	5.57E-01
Opitutales	1.60E-04	2.85E-01	4.98E-01	1.10E-01	2.14E-02
Burkholderiales	1.68E-02	1.98E-01	6.14E-03	4.77E-02	1.24E-02
Xanthomonadales	6.00E-14	6.00E-14	6.00E-14	1.51E-09	6.38E-03
Campylobacteriales	6.60E-01	3.82E-05	N/A	1.96E-01	1.07E-01
Flavobacteriales	N/A	9.74E-02	3.29E-02	N/A	7.92E-01
Alteromonadales	N/A	N/A	N/A	N/A	N/A
Sphingobacteriales	N/A	N/A	N/A	N/A	9.33E-02
Oceanospirillales	N/A	N/A	N/A	N/A	N/A
Pseudomonadales	N/A	N/A	N/A	N/A	N/A
Actinobacteridae	N/A	N/A	N/A	N/A	N/A
Lactobacillales	N/A	N/A	9.95E-01	N/A	3.03E-03
Entomoplasmatales	N/A	N/A	N/A	N/A	N/A

P-values on the level of bacterial orders are given. Significantly differing ($p < 0.01$) orders in 454 libraries and Sanger sequenced clone libraries according to RDP library compare are indicated in boldface.

Table S3. Continued.

Bacterial order	CSM1323-3 guts	CSM1323-3 heads	CSM1323 3 legs
Rhizobiales	N/A	N/A	N/A
Opitutales	6.26E-02	N/A	N/A
Burkholderiales	1.53E-01	N/A	N/A
Xanthomonadales	N/A	N/A	N/A
Campylobacteriales	N/A	N/A	N/A
Flavobacteriales	3.04E-05	N/A	N/A
Alteromonadales	N/A	N/A	N/A
Sphingobacteriales	N/A	N/A	N/A
Oceanospirillales	N/A	N/A	N/A
Pseudomonadales	N/A	N/A	N/A
Actinobacteridae	N/A	N/A	N/A
Lactobacillales	N/A	N/A	N/A
Entomoplasmatales	2.64E-01	6.21E-01	4.93E-01

P-values on the level of bacterial orders are given. Significantly differing ($p < 0.01$) orders in 454 libraries and Sanger sequenced clone libraries according to RDP library compare are indicated in boldface.