

Supporting Material

Table S1. List of sequences used in multi-locus gene sequence assembly using unassembled Illumina sequenced fragments.

Strain	Locus	NCBI GI No. or Accession No.
1F_211	atpA	157285228
1F_230	atpA	157285228
FF_85	atpA	157285228
FF_167	atpA	157285118
FF_93	atpA	157285118
FS_144	atpA	157285118
FS_238	atpA	157285118
1S_45	atpA	157285224
FF_238	atpA	157285022
5S_168	atpA	157285018
ZF_211	atpA	157285172
1C10	atpA	208659521
FF_50	atpA	208659521
ZF_29	atpA	208659521
ZF_55	atpA	208659521
9CS118	atpA	157285082
9ZB36	atpA	157285082
9ZD137	atpA	157285082
ZF_129	atpA	157285082
0407CG136	atpA	157285212
0407ZB19	atpA	157285212
0407ZC148	atpA	157285212
ZS_139	atpA	157285212
ZS_61	atpA	157285212
9CS106	atpA	157285174
9ZC13	atpA	157285174
9ZC40	atpA	157285174
9ZC77	atpA	157285174
ZF_91	atpA	157285174
5S_149	atpA	157285180
1F_155	atpA	179184105
1F_187	atpA	179184105
FF_500	atpA	179184105
ZS_17	atpA	179184105
1F_157	atpA	157285054
1S_206	atpA	157285054
FF_6	atpA	157285054
ZF_90	atpA	157285054
1S_124	atpA	157285054
1S_130	atpA	157285054
FF_238	gyrB	56409827

9CS118	gyrB	GU379148
9ZB36	gyrB	GU379148
9ZD137	gyrB	GU379148
ZF_129	gyrB	GU379148
0407CG136	gyrB	GU378456
0407ZB19	gyrB	GU378456
0407ZC148	gyrB	GU378456
ZS_139	gyrB	GU378456
9ZC13	gyrB	GU378470
9ZC40	gyrB	GU378470
9ZC77	gyrB	GU378470
5S_149	gyrB	82940537
1F_155	gyrB	82940539
1F_187	gyrB	82940539
5F_79	gyrB	82940539
FF_500	gyrB	82940539
ZS_17	gyrB	82940539
1S_206	gyrB	GU378459
1S_206	gyrB	GU378468
ZF_90	gyrB	33186728
1S_124	gyrB	33186728
1S_130	gyrB	33186728
0407CG136	pryH	195927663
0407ZB19	pryH	195927663
0407ZC148	pryH	195927663
ZS_139	pryH	195927663
ZS_61	pryH	195927663
5S_168	pyrH	156251952
ZF_211	pyrH	164608665
1C10	pyrH	195982676
FF_50	pyrH	195982676
ZF_29	pyrH	195982676
ZF_55	pyrH	195982676
9CS106	pyrH	195927655
9ZC13	pyrH	195927655
9ZC40	pyrH	195927655
9ZC77	pyrH	195927655
ZF_91	pyrH	195927655
1F_155	pyrH	195927657
1F_187	pyrH	195927657
FF_500	pyrH	195927657
ZS_17	pyrH	195927657
1F_157	pyrH	195927663
1S_206	pyrH	195927663
FF_6	pyrH	195927663
ZF_90	pyrH	195927663
1S_124	pyrH	195927663

1S_130	pyrH	195927663
FF_162	recA	223635952
FF_33	recA	223635952
FF_454	recA	223635952
1F_211	recA	58415330
1F_230	recA	58415330
FF_85	recA	58415330
FF_238	recA	157100332
5S_168	recA	GU380042
ZF_211	recA	GU380214
9CS118	recA	GU380087
9ZB36	recA	GU380087
9ZD137	recA	GU380087
ZF_129	recA	GU380087
0407CG136	recA	GU378551
0407ZB19	recA	GU378551
0407ZC148	recA	GU378551
ZS_61	recA	GU378551
9ZC13	recA	GU378553
9ZC40	recA	GU378553
ZF_91	recA	GU378553
1F_155	recA	58415533
1F_187	recA	58415533
FF_500	recA	58415533
ZS_17	recA	58415533
1S_206	recA	58415653
FF_6	recA	58415653
ZF_90	recA	58415653
1S_124	recA	58415653
1S_130	recA	58415653
FF_162	topA	117956862
FF_33	topA	117956862
FF_454	topA	117956862
1F_211	topA	133754885
1F_230	topA	133754885
FF_85	topA	133754885
FF_167	topA	117956926
FF_93	topA	117956926
FS_144	topA	117956926
FS_238	topA	117956926
1S_45	topA	117956946
FF_238	topA	117956852
5S_168	topA	117956902
ZF_211	topA	117956878
9CS118	topA	94482744
9ZB36	topA	94482744
9ZD137	topA	94482744

ZF_129	topA	94482744
0407CG136	topA	94482744
0407ZB19	topA	94482744
0407ZC148	topA	94482744
ZS_139	topA	94482744
ZS_61	topA	94482744
9CS106	topA	94482728
9ZC13	topA	94482728
9ZC40	topA	94482728
9ZC77	topA	94482728
ZF_91	topA	94482728
5S_149	topA	94482736
1F_155	topA	118577652
1F_187	topA	118577652
FF_500	topA	118577652
ZS_17	topA	118577652
1F_157	topA	94482744
1S_206	topA	94482744
FF_6	topA	94482744
ZF_90	topA	94482744
1S_124	topA	94482744
1S_130	topA	94482744

Table S2. NCBI GI numbers for *V. breoganii* sequences used in this analysis, which were not included in previously published *Vibrio* taxonomic analysis.

NCBI GI No.	Strain Name	Gene
179183868	CECT 7222	atpA
179183905	LMG 24484	atpA
179183937	C 5.5	atpA
179184888	CECT 7222	recA
179185171	C 5.5	recA
179185203	LMG 24484	recA
195982676	RD 15.11	pyrH
195982678	CMJ 13.7	pyrH
195982680	VB 16.3	pyrH
195982682	C 5.5	pyrH
195982684	RD2 G5	pyrH
208659519	C 4.15	atpA
208659521	CMJ 13.7	atpA
208659523	RD2B2	atpA
208659525	VB 16.3	atpA
208659527	C 4.15	recA
208659529	CMJ 13.7	recA
208659531	RD2B2	recA
208659533	VB 16.3	recA

Table S3. Pairwise P values from UniFrac analysis.

	Fract-2006	Invert-2007	Particle-2007
Fract-2006		0.43	0.73
Invert-2007			0.34
Particle-2007			