

Supplementary Materials

Table S1. Metagenomes tested in this study and public available in MG RAST (<https://www.mg-rast.org/mgmain.html?mgpage=project&project=mgp86824>)

Sample label	bp	sequences	Metagenome label
1219	54,582,749	217,601	mgm4812086.3
1220	76,051,480	303,464	mgm4812079.3
1221	72,263,133	287,660	mgm4812177.3
1222	54,053,113	215,643	mgm4812045.3
1223	80,284,302	319,782	mgm4812049.3
1224	78,561,406	312,883	mgm4812053.3
1225	79,693,005	317,113	mgm4812081.3
1226	53,724,400	214,007	mgm4812083.3
1227	49,724,685	198,070	mgm4812048.3
1228	64,473,179	256,577	mgm4812059.3
1229	51,665,276	205,228	mgm4812050.3
1230	42,675,635	170,108	mgm4812044.3
1242	86,757,566	346,729	mgm4812062.3
1243	96,247,085	383,719	mgm4812078.3
1244	56,018,916	222,027	mgm4812054.3
1245	80,789,817	319,353	mgm4812052.3
1246	66,560,311	263,419	mgm4812061.3
1247	43,365,315	172,287	mgm4812046.3
1248	59,009,757	234,748	mgm4812066.3
1249	70,583,430	279,333	mgm4812072.3
1250	63,668,221	253,542	mgm4812070.3
1251	66,341,443	262,634	mgm4812085.3
1252	72,347,591	286,151	mgm4812076.3
1254	117,782,154	466,310	mgm4812056.3
1255	108,061,449	426,310	mgm4812064.3
1256	45,755,379	183,853	mgm4812047.3
1257	77,232,314	306,259	mgm4812055.3