

Supplementary Table S1.

The abundances of DNRA bacteria based on *nrfA* gene quantification (Primer 6F/5R)

	Qualified tags	Chimeras	Effective tags
C1	448912	12303	436609
C3	1196456	36741	1159715
C5	263778	16607	247171
C8	141824	4343	137481
C11	258689	10950	247739
C13	139730	8824	130906
C15	80407	6234	74173
C16	272758	3040	269718
C17	174853	16737	158116

The abundances of DNRA bacteria based on *nrfA* gene quantification (Primer 6F/4R)

	Qualified tags	Chimeras	Effective tags
C1	590263	33	590230
C3	482256	98	482158
C5	339795	169	339626
C8	532520	187	532333
C11	520037	425	519612
C13	9	0	9
C15	344623	315	344308
C16	488368	0	488368
C17	210657	102	210555

Supplementary Table S2.

Number of operational taxonomic units (OTUs) (Primer 6F/5R)

	Number of tags	Number of OTUs
C1	436512	4645
C3	1159341	8709
C5	247087	5786
C8	137312	2686
C11	247703	4626
C13	130823	5336
C15	74132	3686
C16	269523	2541
C17	158045	5643

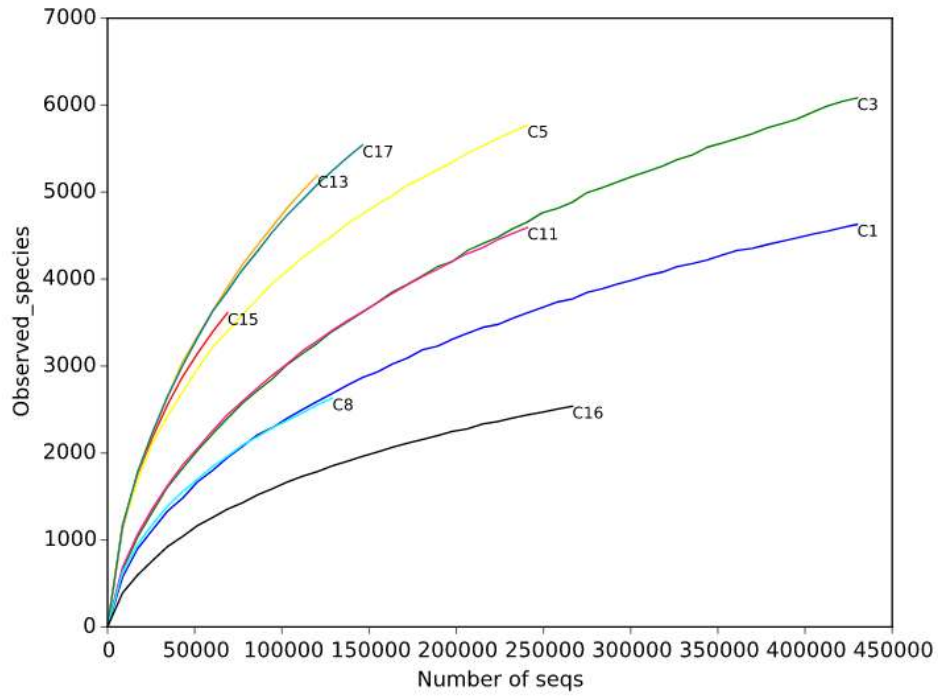
Number of operational taxonomic units (OTUs) (Primer 6F/4R)

	Number of tags	Number of OTUs
C1	590211	178
C3	482149	164
C5	339594	301
C8	532309	198
C11	519587	154
C15	344290	100
C16	488354	55
C17	210529	88

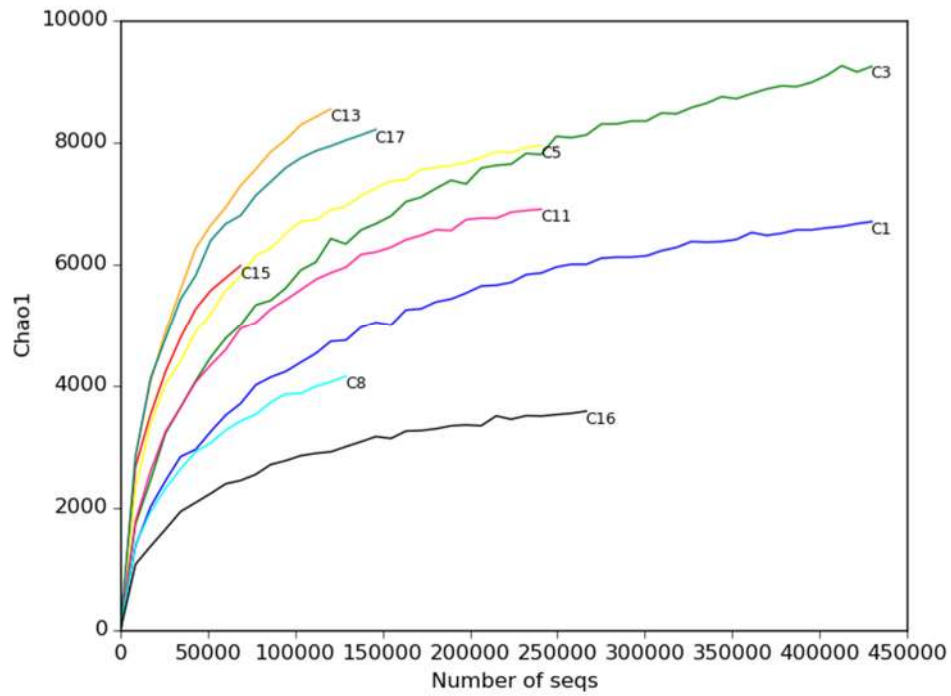
Supplementary Table S3. The classification Results of modified OTUs.

	C1	C3	C5	C8	C11	C13	C15	C16	C17
Phylum	295476	654268	80092	107515	45871	38809	15811	246996	28540
Class	290334	642141	74728	105802	44791	36426	14606	246654	27883
Order	289363	636388	73322	100192	44007	31492	13029	243313	19378
Family	288944	636387	68936	100126	43991	31450	12999	243289	19314
Genus	12466	25989	5957	5888	2898	4201	1444	3564	2253
Species	8064	22529	2989	2958	2356	1722	889	2689	1009

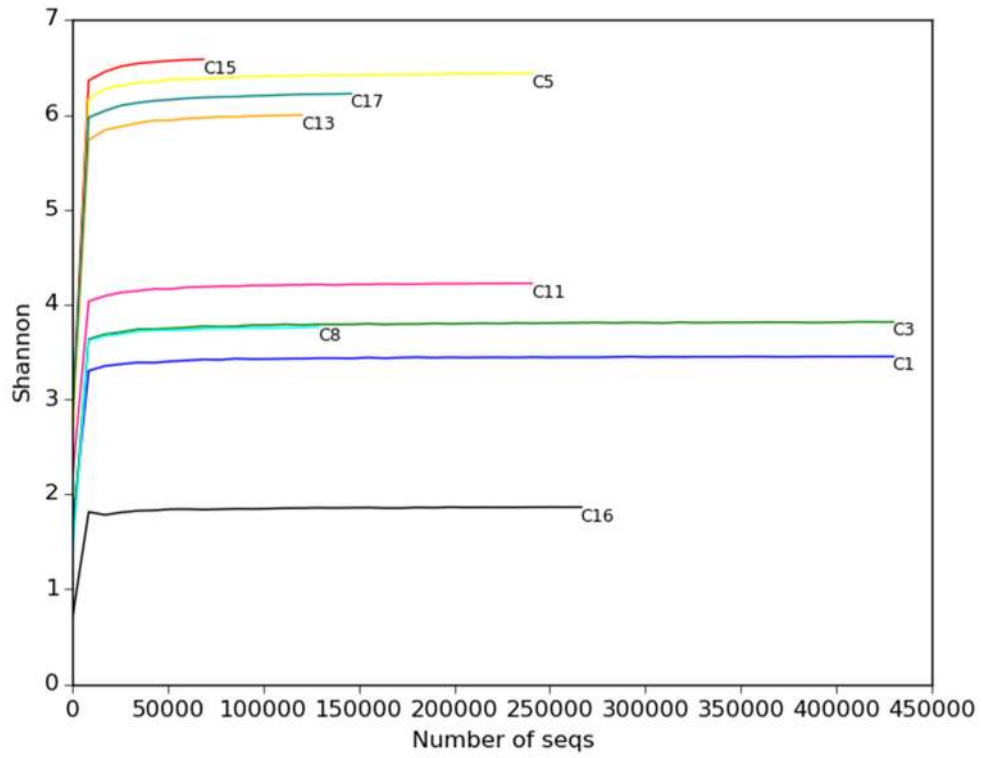
Supplementary Figure



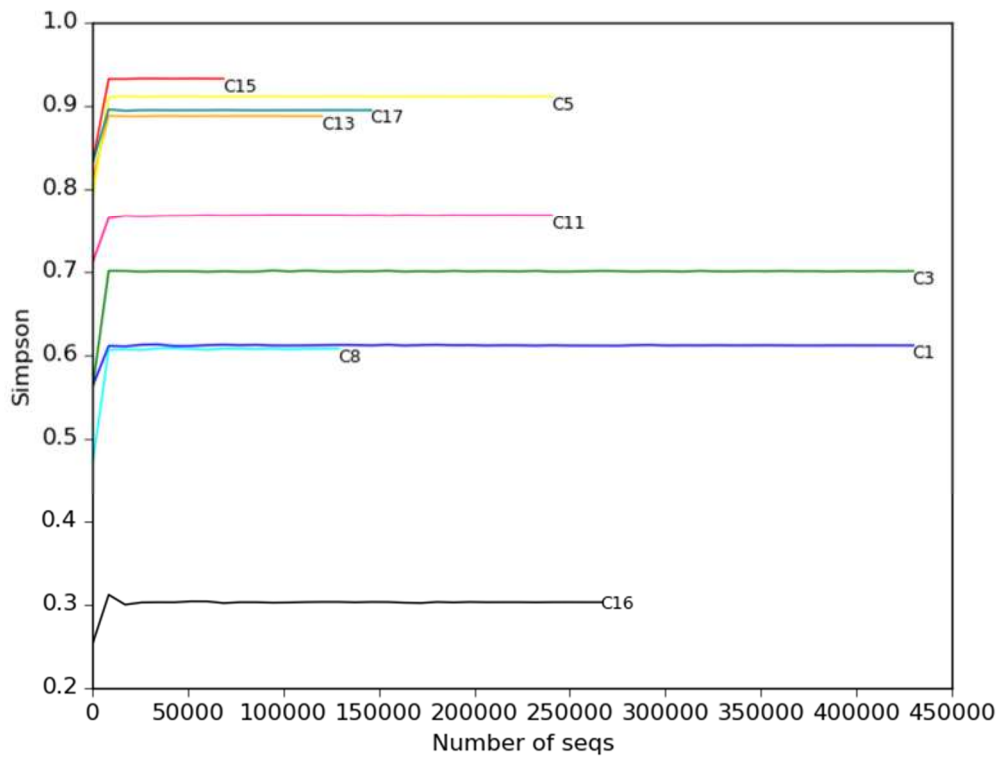
Supplementary Figure S1-a. Rarefaction Curves



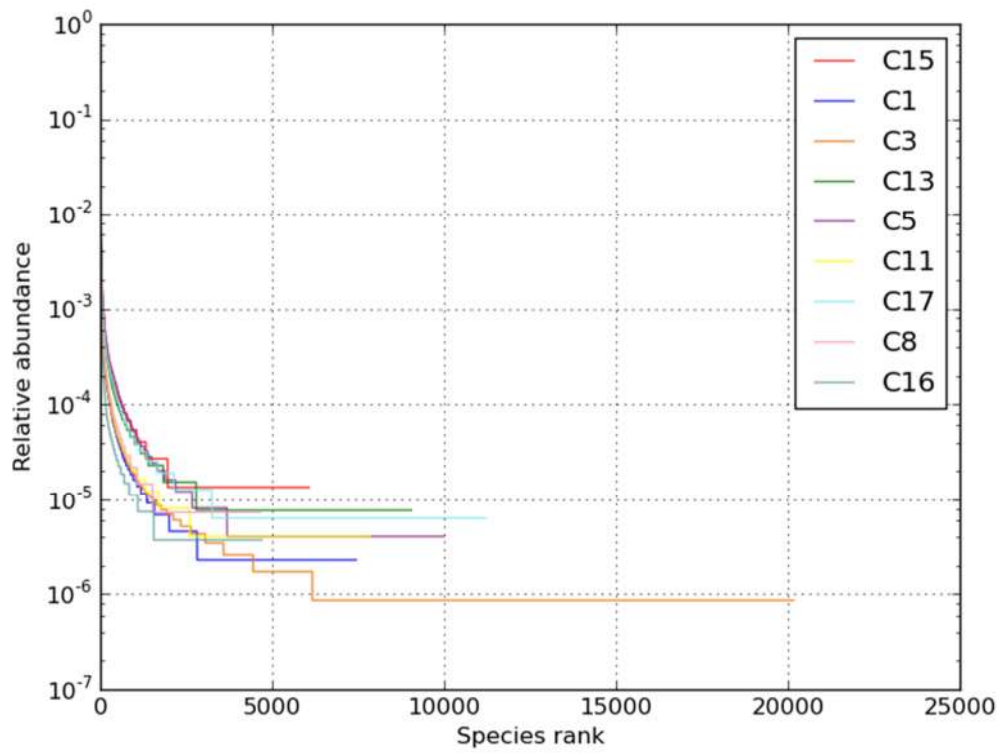
Supplementary Figure S1-b. Chao 1 Curves



Supplementary Figure S1-c. Shannon Curves



Supplementary Figure S1-d. Simpson Curves



Supplementary Figure S1-e. Rank abundance Curves