**Additional file 1**

|  |  |  |
| --- | --- | --- |
|  |  | Number of OTUs |
| Sample ID | Read number after filtering | Reads ≥ 0.1% | Reads ≥ 1% |
|  | FROGS | DADA2 | FROGS | DADA2 | FROGS | DADA2 |
| rpoB-Mock1-rep1 | 13618 | 15290 | 33 | 23 | 14 | 12 |
| rpoB-Mock1-rep2 | 14068 | 15947 | 28 | 23 | 13 | 12 |
| rpoB-Mock1-rep3 | 14096 | 16034 | 29 | 25 | 13 | 12 |
| rpoB-Mock2-rep1 | 14924 | 17205 | 22 | 19 | 8 | 8 |
| rpoB-Mock2-rep2 | 15252 | 17720 | 17 | 17 | 7 | 7 |
| rpoB-Mock2-rep3 | 17694 | 20559 | 19 | 16 | 8 | 8 |
| rpoB-Mock3-rep1 | 15830 | 17829 | 25 | 23 | 15 | 15 |
| rpoB-Mock3-rep2 | 14006 | 15533 | 26 | 22 | 15 | 15 |
| rpoB-Mock3-rep3 | 14782 | 16648 | 28 | 22 | 15 | 15 |
| rpoB-Mock4-rep1 | 16320 | 18063 | 30 | 23 | 13 | 14 |
| rpoB-Mock4-rep2 | 14076 | 15504 | 26 | 23 | 14 | 14 |
| rpoB-Mock4-rep3 | 12504 | 13542 | 28 | 23 | 13 | 14 |
| rpoB-Mock5-rep1 | 15569 | 17229 | 25 | 21 | 13 | 13 |
| rpoB-Mock5-rep2 | 16380 | 18344 | 27 | 22 | 13 | 13 |
| rpoB-Mock5-rep3 | 15010 | 16516 | 26 | 24 | 13 | 13 |
| 16S-Mock1-rep1 | 24716 | 17521 | 31 | 32 | 9 | 14 |
| 16S-Mock1-rep2 | 18620 | 13528 | 43 | 36 | 15 | 20 |
| 16S-Mock1-rep3 | 18551 | 13669 | 39 | 38 | 16 | 21 |
| 16S-Mock2-rep1 | 23749 | 16390 | 32 | 31 | 8 | 12 |
| 16S-Mock2-rep2 | 16590 | 11603 | 31 | 27 | 8 | 12 |
| 16S-Mock2-rep3 | 23510 | 16376 | 33 | 32 | 8 | 13 |
| 16S-Mock3-rep1 | 12275 | 10567 | 49 | 39 | 18 | 23 |
| 16S-Mock3-rep2 | 13535 | 11431 | 48 | 40 | 18 | 24 |
| 16S-Mock3-rep3 | 19005 | 15662 | 44 | 46 | 18 | 23 |
| 16S-Mock4-rep1 | 14794 | 12624 | 37 | 37 | 15 | 20 |
| 16S-Mock4-rep2 | 15986 | 13391 | 39 | 43 | 15 | 19 |
| 16S-Mock4-rep3 | 17255 | 14214 | 40 | 41 | 16 | 19 |
| 16S-Mock5-rep1 | 16477 | 13729 | 38 | 34 | 15 | 19 |
| 16S-Mock5-rep2 | 17523 | 14371 | 34 | 36 | 15 | 19 |
| 16S-Mock5-rep3 | 13908 | 11565 | 36 | 32 | 16 | 19 |
|  |  |  |  |  |