

Table S1: Number of the read retention and sequence decontamination.

| Sample | Input | Primer remove | Quality filter | DenoisedF | DenoisedR | Merged | Chimera remove | Length trim | Decontaminated reads | Percent retained | Final % of reads |
|---------|--------|------------------|-------------------|-----------|-----------|--------|-------------------|----------------|-------------------------|---------------------|---------------------|
| 01 | 146032 | 146011 | 126074 | 125920 | 125926 | 123833 | 123243 | 123123 | 123123 | 100.00 | 84.31 |
| 02 | 121155 | 121129 | 105719 | 105598 | 105520 | 103775 | 103366 | 103143 | 103132 | 99.99 | 85.12 |
| 03 | 131888 | 131489 | 115908 | 115782 | 115749 | 114170 | 113671 | 113529 | 113529 | 100.00 | 86.08 |
| 04-05 | 144142 | 144109 | 124385 | 123796 | 123816 | 120118 | 119639 | 119189 | 119030 | 99.87 | 82.58 |
| 06 | 222761 | 222756 | 195332 | 195034 | 195046 | 194118 | 190250 | 190146 | 190144 | 100.00 | 85.36 |
| 07 | 113986 | 113400 | 95391 | 94974 | 94847 | 85837 | 85470 | 76784 | 76734 | 99.93 | 67.32 |
| 08 | 195373 | 195332 | 165480 | 164280 | 164969 | 158680 | 157365 | 156531 | 156531 | 100.00 | 80.12 |
| 09 | 106494 | 106142 | 92015 | 91465 | 91529 | 88405 | 87916 | 86065 | 86065 | 100.00 | 80.82 |
| 10 | 124493 | 124422 | 104819 | 104293 | 104341 | 101754 | 101204 | 97881 | 97746 | 99.86 | 78.52 |
| 11 | 198895 | 198864 | 171957 | 171183 | 171198 | 165199 | 162917 | 161419 | 161382 | 99.98 | 81.14 |
| Control | 123 | 83 | 15 | 10 | 10 | 10 | 10 | 10 | 10 | - | 8.13 |