**Supplementary Table 1**. PCR conditions used for NGS

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| **Primers** | | | |
| **Gene name** | **Primer sequence (5’-3’)** | | **Reference** |
| 16S rRNA  V3-V4(NGS) | **F:** ACTCCTACGGGAGGCAGCAG | | [27] |
| **R:** GGACTACHVGGGTWTCTAAT | |
| **PCR reaction mix** | | | |
| **Component** | **Volume for one reaction** | | **Final concentration** |
| TransStart FastPfu Buffer (5×) | 4 μL | | 1x |
| dNTPs (2.5 mM) | 1 μL | | 0.125 mM |
| Forward Primer (5 μM) | 0.8 μL | | 0.2 μM |
| Reverse Primer (5 μM) | 0.8 μL | | 0.2 μM |
| FastPfu Polymerase | 0.4 μL | | NA |
| BSA | 0.8 μL | | NA |
| Template DNA | NA | | 10 ng |
| ddH2O | Up to 20 μL | | NA |
| Total | 20 μL | |  |
| **PCR reaction procedure** | | | |
| **Step** | **Cycle number** | **Temperature** | **Time** |
| DNA pre-denaturation | 1 | 95 ℃ | 3 min |
| denaturation | 29 | 95 ℃ | 30 s |
| Primer annealing | 53 ℃ | 30 s |
| Primer extension | 72 ℃ | 45 s |