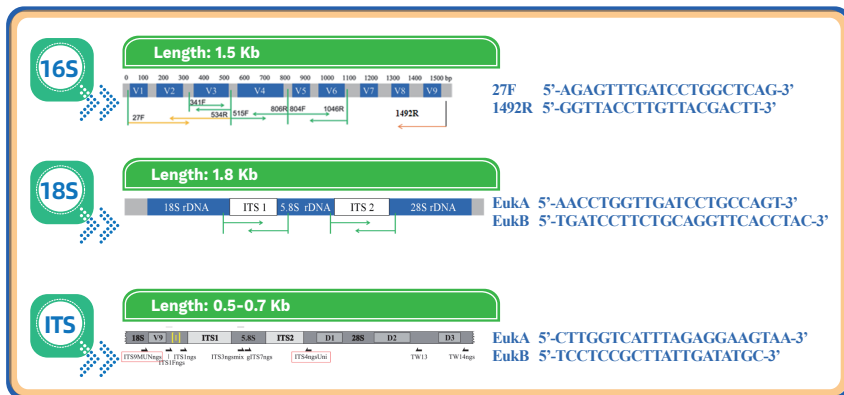


16S/18S/ITS Amplicon Sequencing

Product Introduction

GMKGENE has rich experience in microbial genome projects, and has more than 10,000 microbial amplicon sequencing projects every year, with over a decade of project experience accumulation, a high-level analysis team, comprehensive analysis content, and professional after-sales service. According to incomplete statistics, more than 500 SCI articles have been published, with the cumulative impact factors exceeding 2000.

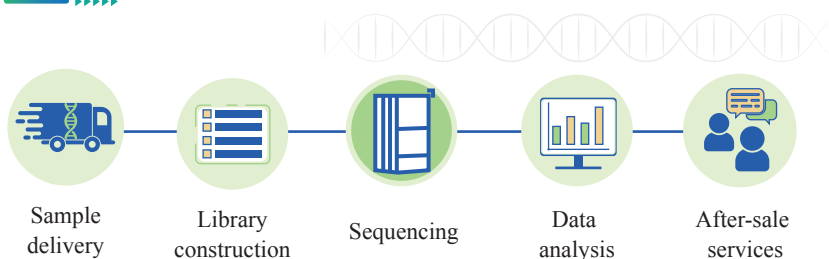
Technical Features



Bioinformation List

- ▶ OUT/ASV analysis
- ▶ Taxonomic annotation and relative abundance;
- ▶ Alpha diversity analysis
- ▶ Beta diversity analysis;
- ▶ Differential analysis between groups
- ▶ Correlation analysis
- ▶ 16S Functional genes prediction

Service Workflow



Service Advantages

- ▶ Isolation-free and rapid identification of microbial composition in environmental samples;
- ▶ High resolution in low-abundant components in environmental samples;
- ▶ **Dual platform to meet the needs of scientific research:** Illumina NovaSeq6000; PacBio Revio.
- ▶ Latest QIIME2 analyzing flow with diverse analyses in terms of database, annotation, OTU/ASV.
- ▶ BMKCloud facilitated data interpretation containing 40 personalized analyzing tools.

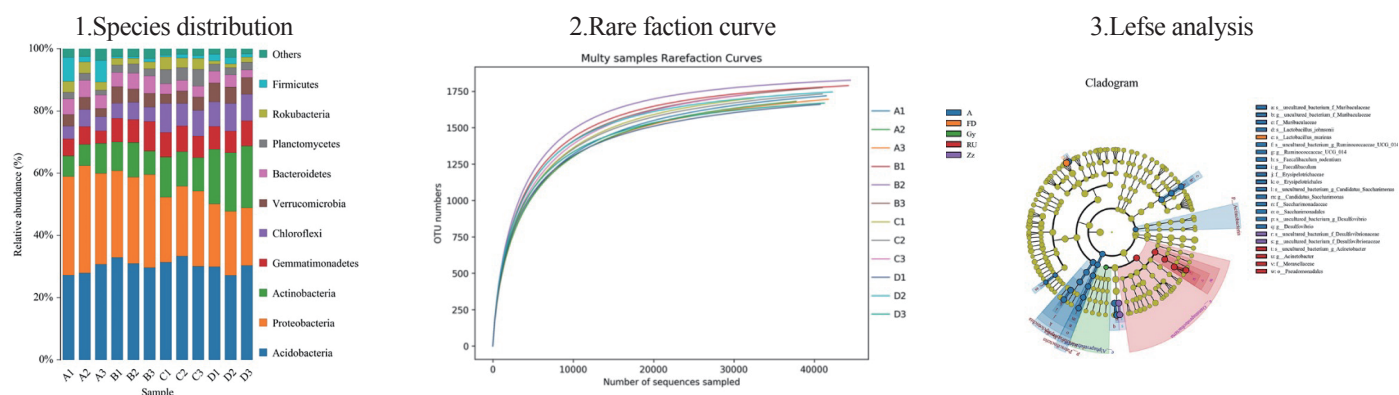
Service Specifications

Platform	Sequencing	Recommended data	Turnaround Time
Illumina	PE250	50 K/100 K/300 K Tags	25
PacBio Revio	HiFi	10 K/30 K/50 K Tags	23

Sample Requirements

Platform	Qubit Conc. (ng/μL)	Amount (μg)	Volume (μL)	OD260/280
Illumina	1	0.3	20	1.6-2.5
PacBio Revio	20	1	20	1.6-2.5

Demo Results



Featured Publications

Year	Journal	Paper	Article	DOI
2023	Microbiome	Gut microbiota-derived metabolites mediate the neuroprotective effect of melatonin in cognitive impairment induced by sleep deprivation	Disease treatment	10.1186/s40168-022-01452-3
2023	Journal of Hazardous Materials	Effects of co-modified biochar immobilized laccase on remediation and bacterial community of PAHs-contaminated soil	Environmental ecology	10.1016/j.jhazmat.2022.130372
2023	Chemical Engineering Journal	Complete removal of 4-fluorophenol using a novel optical fiber photocatalysis–biodegradation–ion-adsorption system	Ecological health	10.1016/j.cej.2023.142631



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