

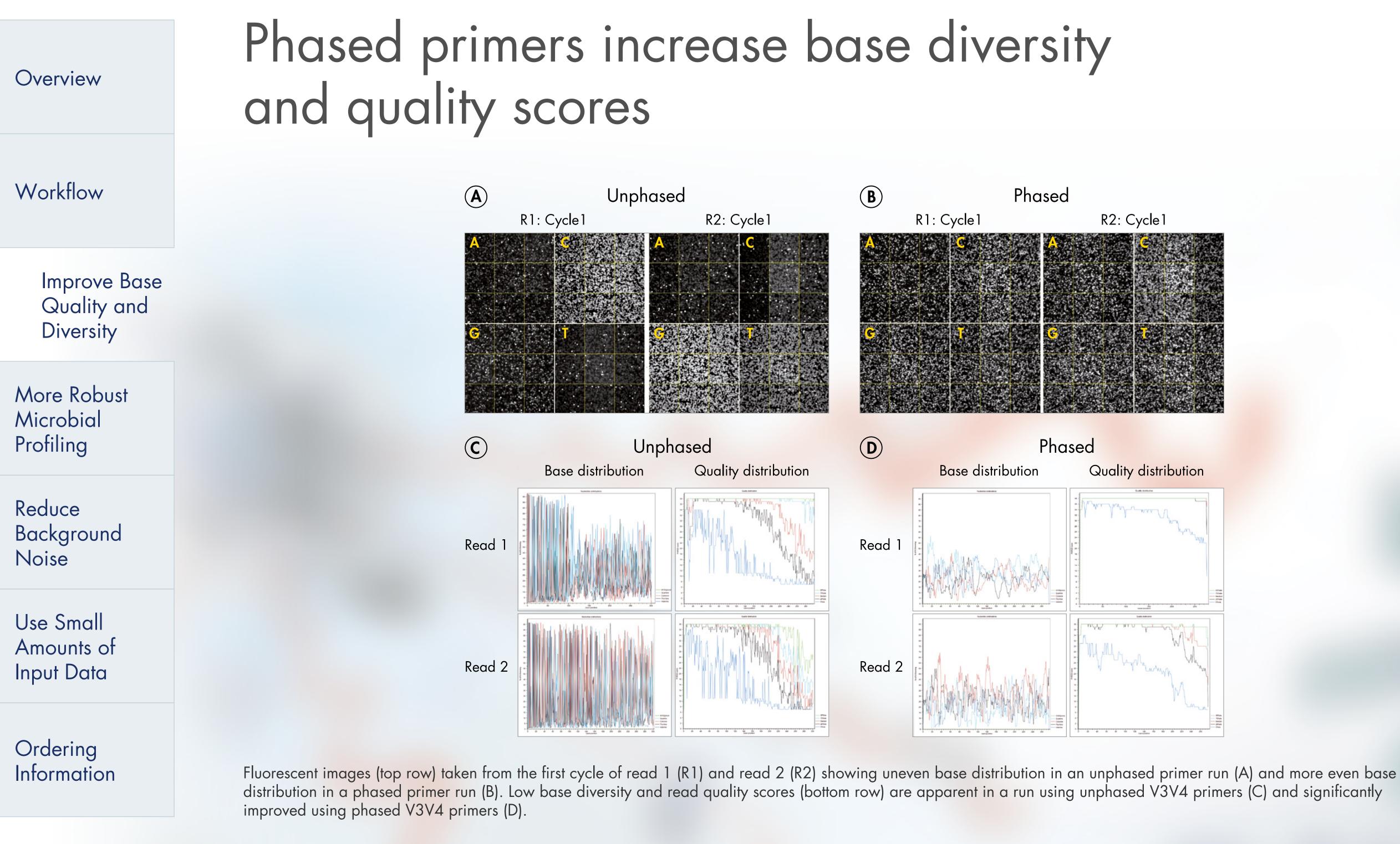
QIAseq[®] 16S/ITS Panels

2-stage PCR workflow for targeted enrichment of bacterial 16S rRNA gene and fungal ITS region

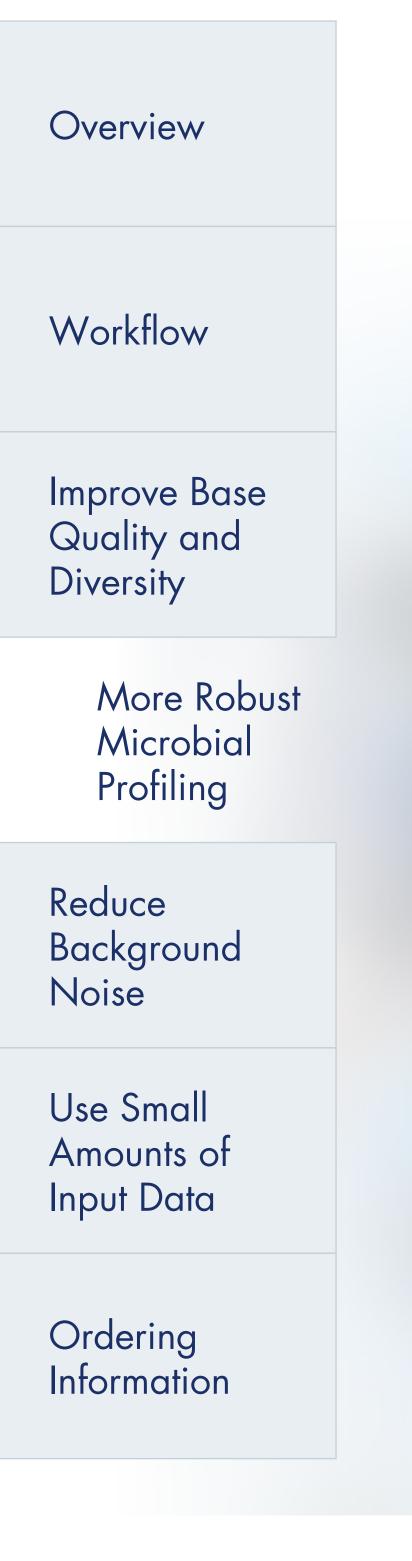
First PCR step incorporates a phased primer pool to enrich for conserved regions of the 16S gene and ITS regions

Second library amplification step introduces sample indices and ensures sufficient target is present for NGS

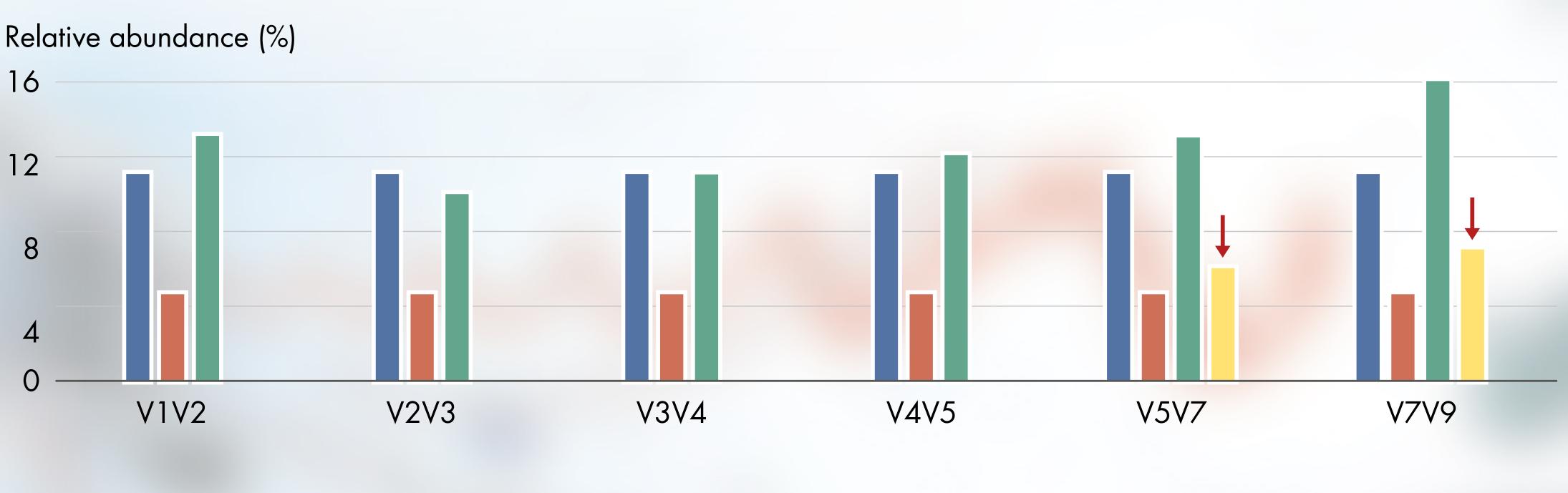








Screen a panel of variable regions to achieve more robust bacterial profiling compared to screening only individual variable regions



QIAseq 16S/ITS Panels were used to generate libraries from the ATCC[®] 20 Strain Even Mock Community. Demultiplexing of the variable regions was performed using the CLC Microbial Genomics Module and the QIAseq 16S/ITS Demultiplexer tool. Classification was performed for each of the variable regions at the species level using the SILVA database. Results are shown only for Streptococcus mutans. Only a subset of the variable regions (red arrows) can be used to classify S. mutans.

Sample to Insight

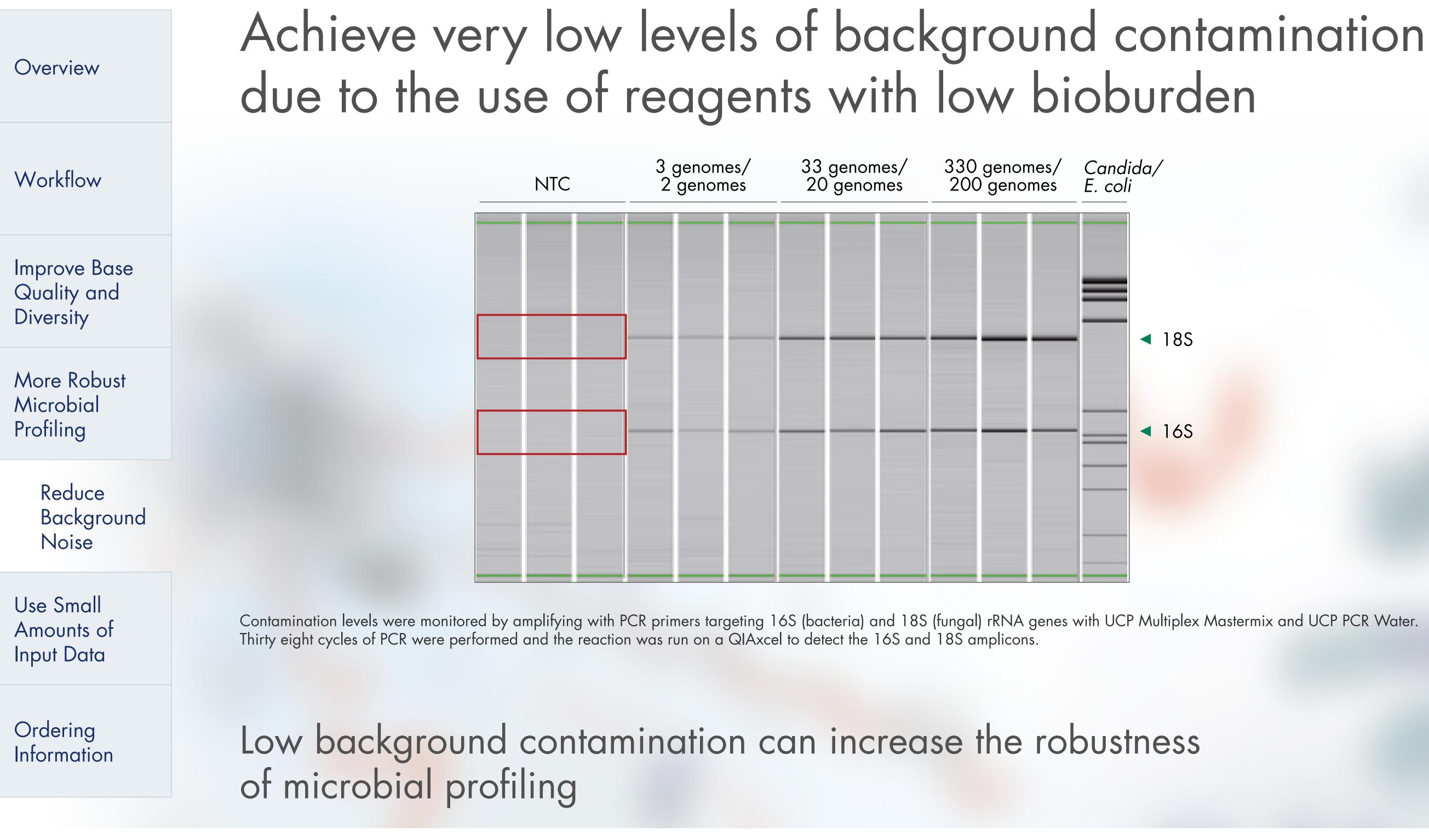
Expected (genus) Expected species Observed (genus) Observed species

Expanded screening yields more robust microbial profiles



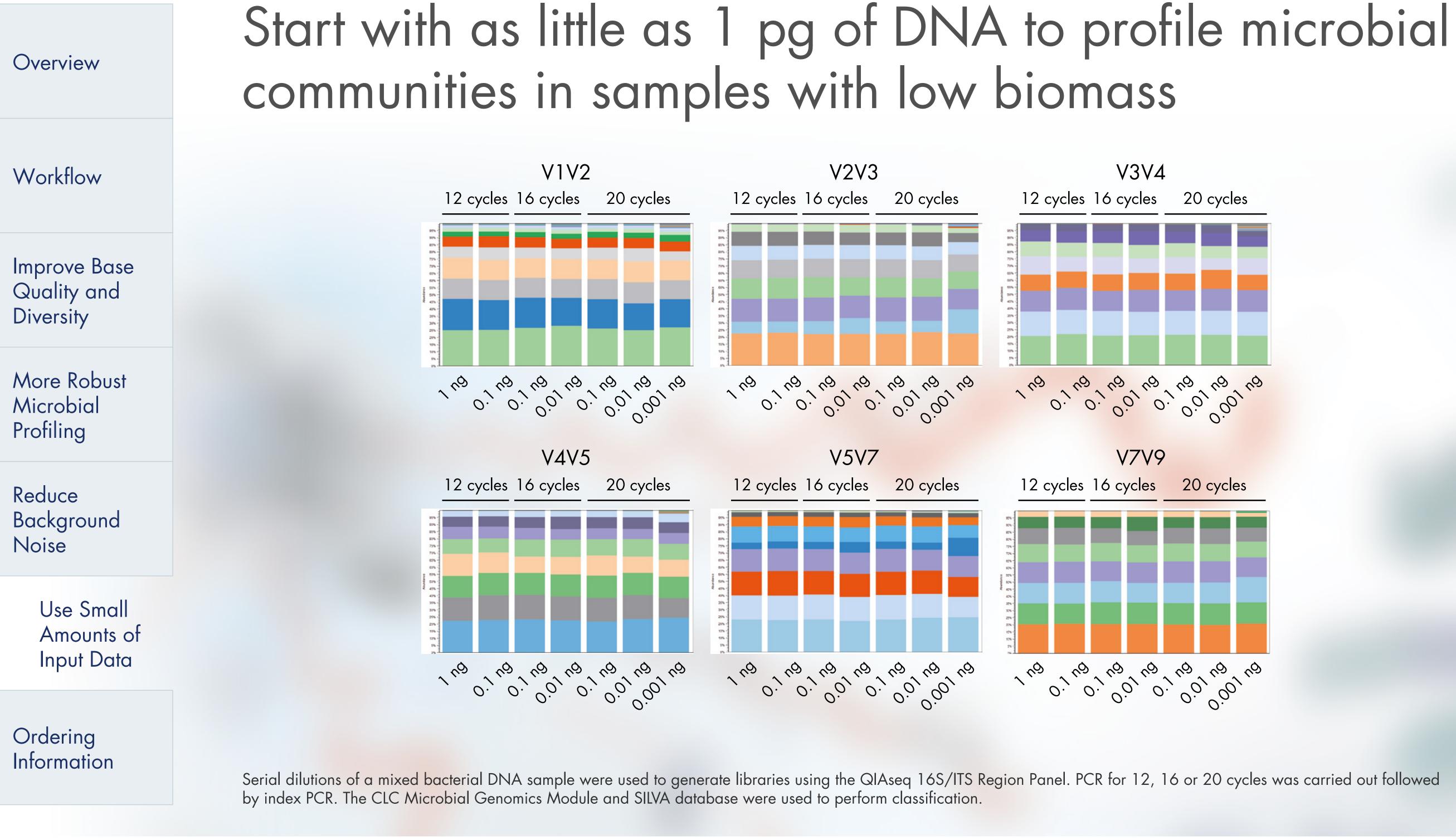






QIAseq[®] 16S/ITS Panels





QIAseq[®] 16S/ITS Panels



Overview	
Workflow	
Improve Base Quality and Diversity	
More Robust Microbial Profiling	
Reduce Background Noise	
Use Small Amounts of Input Data	
Ordering Information	

Ordering Information

Product	Descrip
QIAseq 16S/ITS Region Panel	For 24
(24)	specific
QIAseq 16S/ITS Region Panel	For 96
(96)	specific
QIAseq 16S/ITS Screening	For 24
Panel (24)	variabl
QIAseq 16S/ITS Screening	For 96
Panel (96)	variabl
Related Products	
QIAseq 16S/ITS 24-Index I	For ind
(96)	forms: o
QIAseq 16S/ITS 96-Index I	For ind
(384)	forms: o
	For 10

QIAseq 165/115 Smart Control

dexing up to 96 samples for 16S/ITS sequencing using Illumina platcontains library adapters for 384 samples For 10 samples: contains synthetic template that can be as positive control with QIAseq16S/ITS Panels

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.giagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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ption

samples: contains all reagents (except indexes) for sequencing either c variable regions of the 16S bacterial gene or the fungal ITS gene samples: contains all reagents (except indexes) for sequencing either c variable regions of the 16S bacterial gene or the fungal ITS gene

samples: contains all reagents (except indexes) for sequencing all le regions of the 16S bacterial gene and the fungal ITS gene

samples: contains all reagents (except indexes) for sequencing all le regions of the 16S bacterial gene and the fungal ITS gene

dexing up to 24 samples for 16S/ITS sequencing using Illumina platcontains library adapters for 96 samples



