



NGS facility metagenomic primer list

Metagenomic primer sets

Bacterial primers -16S

The primer pair 341 forward and 805 reverse, amplifies the V3-V4 regions of the 16S gene.

Name Sequence

341 5' CCTACGGGNGGCWGCGAG

805 5' GACTACHVGGGTATCTAATCC

The primer pair 515 forward and 806 reverse, amplifies the V4 region of the 16S gene.

Name Sequence

515 5' GTGCCAGCMGCCGCGTAA

806 5' GGACTACHVGGWTCTAAT

The primer pair 27 forward and 519 reverse, amplifies the V1-V2-V3 regions of the 16S gene.

Name Sequence

27 5' AGAGTTTGATCMTGGCTCAG

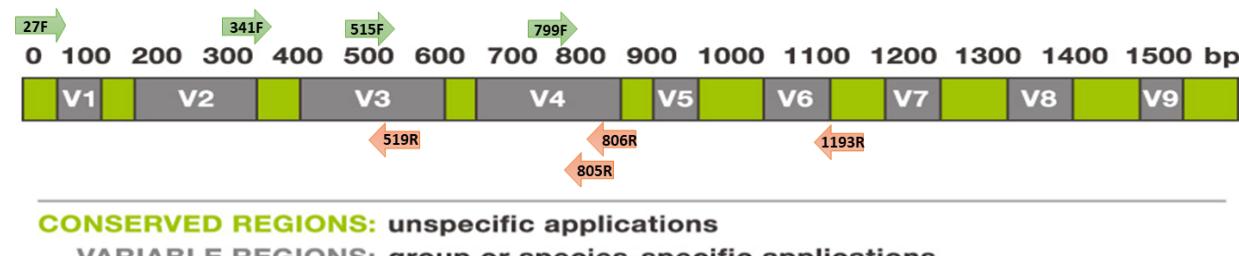
519 5' GWATTACCGCGGCKGCTG

The primer pair 799 forward and 1193 reverse, amplifies the V5-V6-V7 regions of the 16S gene.

Name Sequence

799 5' AACMGGATTAGATAACCKG

1193 5' ACGTCATCCCCACCTTCC



Fungal primers - ITS

The primer pair fITS7 forward and ITS4 reverse, amplifies the internal transcribed spacer ITS2 region.

Name Sequence

fITS7 5' GTGARTCATCGAATCTTG

ITS4 5' TCCTCCGCTTATTGATATGC

The primer pair ITS1oo forward and ITS4 reverse, amplifies the internal transcribed spacer ITS1 and ITS2 regions.

Name Sequence

ITS1oo 5' GGAAGGATCATTACCACA

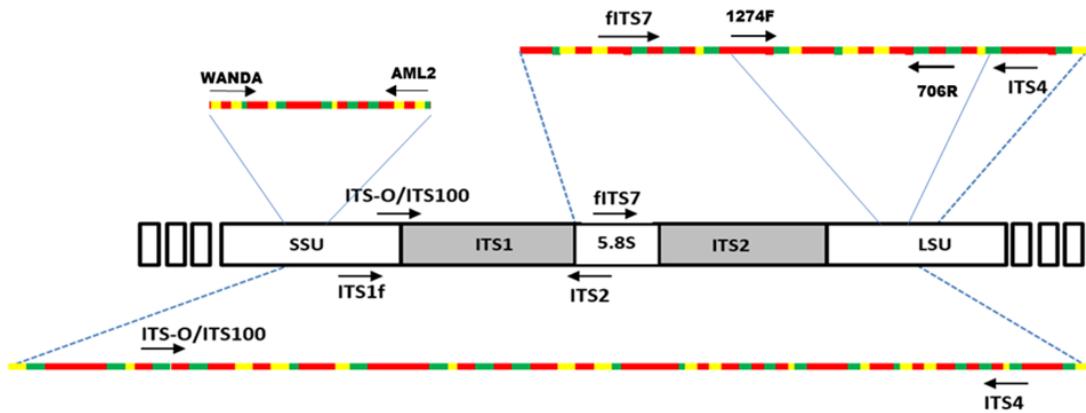
ITS4 5' TCCTCCGCTTATTGATATGC

The primer pair ITS1 forward and ITS2 reverse, amplifies the internal transcribed spacer ITS1 region.

Name Sequence

ITS1 5' CTTGGTCATTTAGAGGAAGTAA

ITS2 5' GCTGCGTTCTCATCGATGC



Arbuscular mycorrhizal fungi (AMF) primers

The primer pair WANDA forward and AML2 reverse, amplifies the AMF NS31 (18S gene) and SSU gene regions.

Name Sequence

WANDA	5' CAGCCGCGGTAAATTCCAGCT
AML2	5' GAACCCAAACACTTGGTTCC

Eukaryote primers - 28S

The primer pair 1274 forward and 706 reverse, amplifies the D3-D5 region of the large subunit of the 28S gene.

Name Sequence

28S (1274)	5' GACCCGTCTGAAACACGGA
28S (706)	5' GCCAGTTCTGCTTACC

Protist primers - 18S

The primer pair Euk_1391 forward and EukBr reverse, amplifies the V9 region of the small subunit of the 18S gene.

Name Sequence

18S (Euk_1391)	5' GTACACACCGCCCCGTC
18S (EukBr)	5' TGATCCTCTGCAGGTTCACCTAC