

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' CCTACGGGNGGCWGCAG
805	5' GACTACHVGGGTATCTAATCC

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

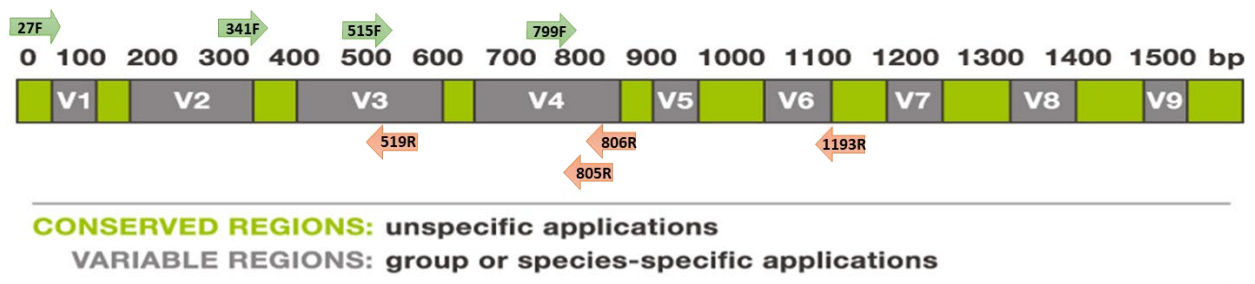
Name	Sequence
515	5' GTGCCAGCMGCCGCGGTAA
806	5' GGACTACHVGGGTWTCTAAT

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' AACMGGATTAGATACCKG
1193	5' ACGTCATCCCACTTCC



Fungal primers - ITS

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

Name	Sequence
fITS7	5' GTGARTCATCGAATCTTTG
ITS4	5' TCCTCCGCTTATTGATATGC

The primer pair ITS100 forward and ITS4 reverse, amplifies the internal transcribed spacer ITS1 and ITS2 regions.

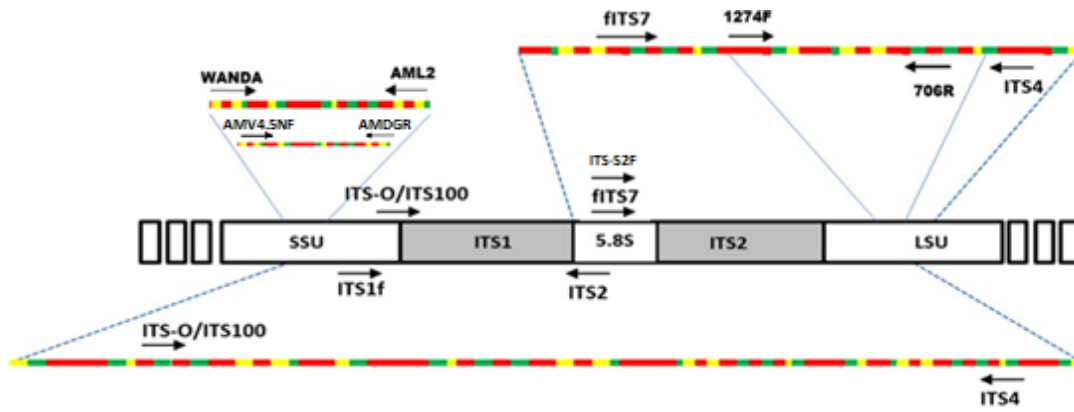
Name	Sequence
ITS100	5' GGAAGGATCATTACCACA
ITS4	5' TCCTCCGCTTATTGATATGC

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

Name	Sequence
ITS1	5' CTTGGTCATTTAGAGGAAGTAA
ITS2	5' GCTGCGTTCTTCATCGATGC

The primer pair ITS-S2F forward and ITS4 reverse, amplifies the 5.8S and ITS2 regions.

Name	Sequence
ITS-S2F	5' ATGCGATACTTGGTGTGAAT
ITS4	5' TCCTCCGCTTATTGATATGC



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' CAGCCGCGGTAATTCAGCT
AML2	5' GAACCCAAACACTTTGGTTTCC

The primer pair AMV4.5NF forward and AMDGR reverse, amplifies the AMF 18S rDNA and SSU gene regions.

Name	Sequence
AMV4.5NF	5' AAGCTCGTAGTTGAATTTTCG
AMDGR	5' CCCAACTATCCCTATTAATCAT

Plant ITS primer

The primer pair ITS-S2F forward and ITS4 reverse, amplifies the internal transcribed spacer ITS2 region.

Name	Sequence
ITS-S2F	5' ATGCGATACTTGGTGTGAAT
ITS4	5' TCCTCCGCTTATTGATATGC

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' GACCCGTCTTGAAACACGGA
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' GTACACACCGCCCGTC
18S (EukBr)	5' TGATCCTTCTGCAGGTTACCTAC