WSU NGS Facility Metagenomic Primer Sets

# Bacterial Primers (16S)

## 341 Forward and 805 Reverse

**amplifying 16S variable regions v3 and v4**

341F – 5’ CCTACGGGNGGCWGCAG

805R – 5’ GACTACHVGGGTATCTAATCC

## 27 Forward and 519 Reverse

**amplifying 16S variable regions v1 and v2**

27F – 5’ AGAGTTTGATCMTGGCTCAG

519R – 5’ GWATTACCGCGGCKGCTG

## 515 Forward and 806 Reverse

**amplifying 16S variable region v4**

515F – 5’ GTGCCAGCMGCCGCGGTAA

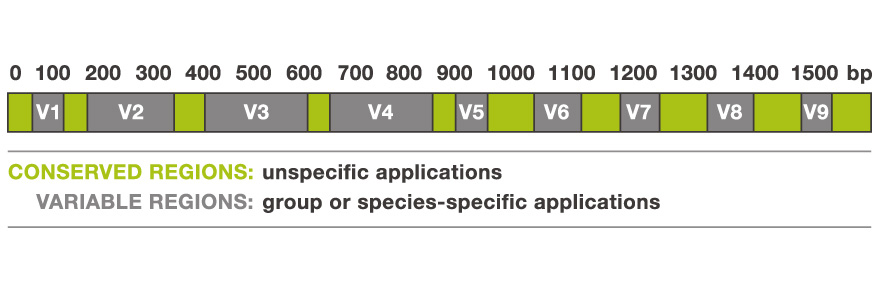
806R – 5’ GGACTACHVGGGTWTCTAAT

## 799 Forward and 1193 Reverse

**amplifying 16S variable region v4 and v5**

799F – 5’ AACMGGATTAGATACCCKG

1193R – 5’ ACGTCATCCCCACCTTCC



# Fungal Primers (ITS)

## fITS7 Forward and ITS4 Reverse

**amplifying ITS2**

fITS7 – 5’ GTGARTCATCGAATCTTTG

ITS4 – 5’ TCCTCCGCTTATTGATATGC

## ITS1oo Forward and ITS4 Reverse

**amplifying ITS1 and 2**

ITS1oo FWD – 5’ GGAAGGATCATTACCACA

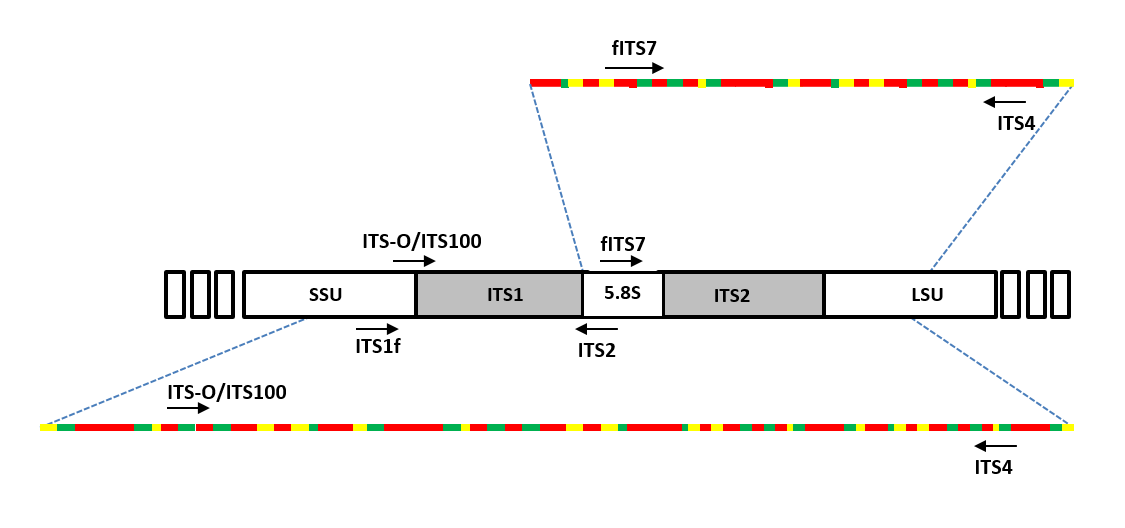
ITS4 – 5’ TCCTCCGCTTATTGATATGC

## ITS1f Forward and ITS2 Reverse

**amplifying ITS1**

ITS1f – 5’CTTGGTCATTTAGAGGAAGTAA

ITS2 – 5’ GCTGCGTTCTTCATCGATGC



# Protist Primers (18S)

## 18S forward (Euk\_1391f forward primer) and 18S (EukBr reverse primer) reverse

amplifying SSU rRNA gene V9 hypervariable region

* 18Sf (Euk\_1391f) – 5’ GTACACACCGCCCGTC
* 18Sr (EukBr reverse) – 5’ TGATCCTTCTGCAGGTTCACCTAC