

## 16S V4 515FB/ 806RB

515FB (GTGYCAGCMGCCGCGGTAA) Forward PCR

ID

16S-V4\_515FB

806RB (GGACTACNVGGGTWTCTAAT) Reverse St.

Well Info	ID
A1	16S-V4_806RB_1
A2	16S-V4_806RB_2
A3	16S-V4_806RB_3
A4	16S-V4_806RB_4
A5	16S-V4_806RB_5
A6	16S-V4_806RB_6
A7	16S-V4_806RB_7
A8	16S-V4_806RB_8
A9	16S-V4_806RB_9
A10	16S-V4_806RB_10
A11	16S-V4_806RB_11
A12	16S-V4_806RB_12
B1	16S-V4_806RB_13
B2	16S-V4_806RB_14
B3	16S-V4_806RB_15
B4	16S-V4_806RB_16
B5	16S-V4_806RB_17
B6	16S-V4_806RB_18
B7	16S-V4_806RB_19
B8	16S-V4_806RB_20
B9	16S-V4_806RB_21
B10	16S-V4_806RB_22
B11	16S-V4_806RB_23
B12	16S-V4_806RB_24
C1	16S-V4_806RB_25
C2	16S-V4_806RB_26

C3	16S-V4_806RB_27
C4	16S-V4_806RB_28
C5	16S-V4_806RB_29
C6	16S-V4_806RB_30
C7	16S-V4_806RB_31
C8	16S-V4_806RB_32
C9	16S-V4_806RB_33
C10	16S-V4_806RB_34
C11	16S-V4_806RB_35
C12	16S-V4_806RB_36
D1	16S-V4_806RB_37
D2	16S-V4_806RB_38
D3	16S-V4_806RB_39
D4	16S-V4_806RB_40
D5	16S-V4_806RB_41
D6	16S-V4_806RB_42
D7	16S-V4_806RB_43
D8	16S-V4_806RB_44
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D12	16S-V4_806RB_48
E1	16S-V4_806RB_49
E2	16S-V4_806RB_50
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E5	16S-V4_806RB_53
E6	16S-V4_806RB_54
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E8	16S-V4_806RB_56
E9	16S-V4_806RB_57
E10	16S-V4_806RB_58
E11	16S-V4_806RB_59
E12	16S-V4_806RB_60

F1	16S-V4_806RB_61
F2	16S-V4_806RB_62
F3	16S-V4_806RB_63
F4	16S-V4_806RB_64
F5	16S-V4_806RB_65
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F9	16S-V4_806RB_69
F10	16S-V4_806RB_70
F11	16S-V4_806RB_71
F12	16S-V4_806RB_72
G1	16S-V4_806RB_73
G2	16S-V4_806RB_74
G3	16S-V4_806RB_75
G4	16S-V4_806RB_76
G5	16S-V4_806RB_77
G6	16S-V4_806RB_78
G7	16S-V4_806RB_79
G8	16S-V4_806RB_80
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G10	16S-V4_806RB_82
G11	16S-V4_806RB_83
G12	16S-V4_806RB_84
H1	16S-V4_806RB_85
H2	16S-V4_806RB_86
H3	16S-V4_806RB_87
H4	16S-V4_806RB_88
H5	16S-V4_806RB_89
H6	16S-V4_806RB_90
H7	16S-V4_806RB_91
H8	16S-V4_806RB_92
H9	16S-V4_806RB_93
H10	16S-V4_806RB_94

H11	16S-V4_806RB_95
H12	16S-V4_806RB_96

primer sequence:

Sequence

AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACA CGACGCTCTTCCGATCT NNNNNGTGYCAGCMGCCGCGGTAA

aggered Primer List (96 i7 index barcodes):

Sequence	i7 Index
CAAGCAGAAGACGGCATAACGAGAT TTACCGACGAGT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT GGACTACNVGGGTWTCTAAT	TTACCGACGAGT
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CAAGCAGAAGACGGCATAACGAGAT TCGCATGGATAC GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT ACGGACTACNVGGGTWTCTAAT	TCGCATGGATAC
CAAGCAGAAGACGGCATAACGAGAT AGCGAACCTGTT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT CTAGGACTACNVGGGTWTCTAAT	AGCGAACCTGTT
CAAGCAGAAGACGGCATAACGAGAT AGCTTCGACAGT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT GGACTACNVGGGTWTCTAAT	AGCTTCGACAGT
CAAGCAGAAGACGGCATAACGAGAT GTCAGCCGTTAA GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT TGGACTACNVGGGTWTCTAAT	GTCAGCCGTTAA
CAAGCAGAAGACGGCATAACGAGAT TCCAGATAGCGT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT ACGGACTACNVGGGTWTCTAAT	TCCAGATAGCGT
CAAGCAGAAGACGGCATAACGAGAT GAGAGTCCACTT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT CTAGGACTACNVGGGTWTCTAAT	GAGAGTCCACTT
CAAGCAGAAGACGGCATAACGAGAT GCTCACAATGTG GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT GGACTACNVGGGTWTCTAAT	GCTCACAATGTG
CAAGCAGAAGACGGCATAACGAGAT TTGACGACATCG GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT TGGACTACNVGGGTWTCTAAT	TTGACGACATCG
CAAGCAGAAGACGGCATAACGAGAT CTTAGAACGTGC GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT ACGGACTACNVGGGTWTCTAAT	CTTAGAACGTGC
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CAAGCAGAAGACGGCATAACGAGAT CACGATGGTCAT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT TGGACTACNVGGGTWTCTAAT	CACGATGGTCAT

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CAAGCAGAAGACGGCATAACGAGAT CGTGCACAATTG GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT CTAGGACTACNVGGGTWTCTAAT	CGTGCACAATTG
CAAGCAGAAGACGGCATAACGAGAT TGTAACGCCGAT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT GGACTACNVGGGTWTCTAAT	TGTAACGCCGAT
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CAAGCAGAAGACGGCATAACGAGAT CCGTCAAGATGT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT ACGGACTACNVGGGTWCTAAT	CCGTCAAGATGT
CAAGCAGAAGACGGCATAACGAGAT TAGTAGCACCTG GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT CTAGGACTACNVGGGTWCTAAT	TAGTAGCACCTG



## 16S V4-V5 515F-Y/ 926R

515F-Y (5' GTGYCAGCMGCCGCGGTAA) Forward

ID

16S-V4-V5\_515F-Y

926R (5' CCGYCAATTYMTTRAGTTT) Reverse S

Well Info	ID
A1	16S-V4-V5_926R_1
A2	16S-V4-V5_926R_2
A3	16S-V4-V5_926R_3
A4	16S-V4-V5_926R_4
A5	16S-V4-V5_926R_5
A6	16S-V4-V5_926R_6
A7	16S-V4-V5_926R_7
A8	16S-V4-V5_926R_8
A9	16S-V4-V5_926R_9
A10	16S-V4-V5_926R_10
A11	16S-V4-V5_926R_11
A12	16S-V4-V5_926R_12
B1	16S-V4-V5_926R_13
B2	16S-V4-V5_926R_14
B3	16S-V4-V5_926R_15
B4	16S-V4-V5_926R_16
B5	16S-V4-V5_926R_17
B6	16S-V4-V5_926R_18
B7	16S-V4-V5_926R_19
B8	16S-V4-V5_926R_20
B9	16S-V4-V5_926R_21
B10	16S-V4-V5_926R_22
B11	16S-V4-V5_926R_23
B12	16S-V4-V5_926R_24
C1	16S-V4-V5_926R_25
C2	16S-V4-V5_926R_26
C3	16S-V4-V5_926R_27
C4	16S-V4-V5_926R_28
C5	16S-V4-V5_926R_29
C6	16S-V4-V5_926R_30
C7	16S-V4-V5_926R_31
C8	16S-V4-V5_926R_32
C9	16S-V4-V5_926R_33
C10	16S-V4-V5_926R_34
C11	16S-V4-V5_926R_35
C12	16S-V4-V5_926R_36
D1	16S-V4-V5_926R_37
D2	16S-V4-V5_926R_38
D3	16S-V4-V5_926R_39

D4	16S-V4-V5_926R_40
D5	16S-V4-V5_926R_41
D6	16S-V4-V5_926R_42
D7	16S-V4-V5_926R_43
D8	16S-V4-V5_926R_44
D9	16S-V4-V5_926R_45
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F10	16S-V4-V5_926R_70
F11	16S-V4-V5_926R_71
F12	16S-V4-V5_926R_72
G1	16S-V4-V5_926R_73
G2	16S-V4-V5_926R_74
G3	16S-V4-V5_926R_75
G4	16S-V4-V5_926R_76
G5	16S-V4-V5_926R_77
G6	16S-V4-V5_926R_78
G7	16S-V4-V5_926R_79
G8	16S-V4-V5_926R_80
G9	16S-V4-V5_926R_81
G10	16S-V4-V5_926R_82
G11	16S-V4-V5_926R_83
G12	16S-V4-V5_926R_84
H1	16S-V4-V5_926R_85
H2	16S-V4-V5_926R_86

H3	16S-V4-V5_926R_87
H4	16S-V4-V5_926R_88
H5	16S-V4-V5_926R_89
H6	16S-V4-V5_926R_90
H7	16S-V4-V5_926R_91
H8	16S-V4-V5_926R_92
H9	16S-V4-V5_926R_93
H10	16S-V4-V5_926R_94
H11	16S-V4-V5_926R_95
H12	16S-V4-V5_926R_96

**Primer :**

**Sequence**

AATGATACGGCGACCACCGAGATCTACAC TCTTTCCCTACA CGACGCTCTCCGATCT NNNNNGTGYCAGCMGCCGCGGTAA

**taggered Primer List (96 i7 index barcodes):**

**Sequence**

CAAGCAGAAGACGGCATAACGAGAT TTACCGACGAGT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT CCGYCAATTYMTTTRAGTTT
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CAAGCAGAAGACGGCATAACGAGAT TCGCATGGATAC GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT ACCCGYCAATTYMTTTRAGTTT
CAAGCAGAAGACGGCATAACGAGAT AGCGAACCTGTT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT CTACCGYCAATTYMTTTRAGTTT
CAAGCAGAAGACGGCATAACGAGAT AGCTTCGACAGT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT CCGYCAATTYMTTTRAGTTT
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CAAGCAGAAGACGGCATAACGAGAT	GCACCTGTTGAA	GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT	CCGYCAATTYMTTTRAGTTT
CAAGCAGAAGACGGCATAACGAGAT	CTCATGGTAGCA	GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT	TCCGYCAATTYMTTTRAGTTT
CAAGCAGAAGACGGCATAACGAGAT	ACTAGTTGGACC	GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT	ACCCGYCAATTYMTTTRAGTTT
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CAAGCAGAAGACGGCATAACGAGAT	ATGCGAGACTTC	GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT	TCCGYCAATTYMTTTRAGTTT
CAAGCAGAAGACGGCATAACGAGAT	CCGTCAAGATGT	GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT	ACCCGYCAATTYMTTTRAGTTT
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i7 Index
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AGCGAACCTGTT
AGCTTCGACAGT
GTCAGCCGTAA
TCCAGATAGCGT
GAGAGTCCACTT
GCTCACAATGTG
TTGACGACATCG
CTTAGAACGTGC
CGGTTACATAG
CGATAGGCCTTA
GCTATATCCAGG
GTCTTCAGCAAG
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TCAGCTGACTAG
TAAGTCGGCCTA
GCTCCTTAGAAG
ATGGCCTGACTA
TTGCAAGTACCG
CCTAGTAAGCTG
CTAGGATCACTG
TATGAACGTCCG
CTTGTGCGACAA
CACGATGGTCAT
ACGTGCCTTAGA
TGAACTAGCGTC
TATTCAGCGGAC
TAATCGGTGCCA
GCGTCCATGAAT
CGTAAGATGCCT
CTGTTACAGCGA
ACGATCATCTGG
GTAACGGCTCTA
CCATGCTTAGAG
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ATAAGGTCGCCT

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CCAGAAGTGTTT
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GTGAGTCATAAC
TGGTCCTACAAG
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CTCTGAGGTAAC
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ACGCAATGTCTG
GCTCGAAGATTC
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TAGAGCTGCCAT
GGTAACCTCTGA
GACTTCATGCCA
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GCACCTGTTGAA
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GCGGACTATTCA
ATCGCTTAAGGC
TCAGGACGTATC
GCATTACTGGAC
GCTATGGAACTC
GATTGTGCAACC
AGCCTCATGATG
AACTCCTGTGGA
TAGAAGGCTCCT
GACTAGTCAGCT
GGATACTCGCAT



CCGACATTGTAG
TCGTGACGCTAA
GGCCTATAAGTC
GTAGCACTCATG
CTAAGACGTCGT
CGTGACAATTG
TGTAACGCCGAT
ATGCGAGACTTC
CCGTCAAGATGT
TAGTAGCACCTG

## 18S V4

18S-V4 (5' CCAGCASCYGCCGTAATCC) Forward

ID
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18S-V4\_Fwd

18S-V4 (5' ACTTTCGTTCTTGATYRA) Reverse S

Well Info	ID
A1	18S-V4_Rev_1
A2	18S-V4_Rev_2
A3	18S-V4_Rev_3
A4	18S-V4_Rev_4
A5	18S-V4_Rev_5
A6	18S-V4_Rev_6
A7	18S-V4_Rev_7
A8	18S-V4_Rev_8
A9	18S-V4_Rev_9
A10	18S-V4_Rev_10
A11	18S-V4_Rev_11
A12	18S-V4_Rev_12
B1	18S-V4_Rev_13
B2	18S-V4_Rev_14
B3	18S-V4_Rev_15
B4	18S-V4_Rev_16
B5	18S-V4_Rev_17
B6	18S-V4_Rev_18
B7	18S-V4_Rev_19
B8	18S-V4_Rev_20
B9	18S-V4_Rev_21
B10	18S-V4_Rev_22
B11	18S-V4_Rev_23
B12	18S-V4_Rev_24
C1	18S-V4_Rev_25
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C4	18S-V4_Rev_28
C5	18S-V4_Rev_29
C6	18S-V4_Rev_30
C7	18S-V4_Rev_31
C8	18S-V4_Rev_32
C9	18S-V4_Rev_33
C10	18S-V4_Rev_34
C11	18S-V4_Rev_35
C12	18S-V4_Rev_36
D1	18S-V4_Rev_37
D2	18S-V4_Rev_38
D3	18S-V4_Rev_39

D4	18S-V4_Rev_40
D5	18S-V4_Rev_41
D6	18S-V4_Rev_42
D7	18S-V4_Rev_43
D8	18S-V4_Rev_44
D9	18S-V4_Rev_45
D10	18S-V4_Rev_46
D11	18S-V4_Rev_47
D12	18S-V4_Rev_48
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F9	18S-V4_Rev_69
F10	18S-V4_Rev_70
F11	18S-V4_Rev_71
F12	18S-V4_Rev_72
G1	18S-V4_Rev_73
G2	18S-V4_Rev_74
G3	18S-V4_Rev_75
G4	18S-V4_Rev_76
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G11	18S-V4_Rev_83
G12	18S-V4_Rev_84
H1	18S-V4_Rev_85
H2	18S-V4_Rev_86

H3	18S-V4_Rev_87
H4	18S-V4_Rev_88
H5	18S-V4_Rev_89
H6	18S-V4_Rev_90
H7	18S-V4_Rev_91
H8	18S-V4_Rev_92
H9	18S-V4_Rev_93
H10	18S-V4_Rev_94
H11	18S-V4_Rev_95
H12	18S-V4_Rev_96

Primer:

Sequence

AATGATACGGGACCACCGAGATCTACAC TCTTTCCTACA CGACGCTCTCCGATCT NNNNCCAGCASCYCGGGTAATCC

taggered Primer List (96 i7 index barcodes):

Sequence

CAAGCAGAAGACGGCATAACGAGAT TTACCGACGAGT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT ACTTTCGTTCTTGATYRA
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CAAGCAGAAGACGGCATAACGAGAT TCGCATGGATAC GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT GTACTTTCGTTCTTGATYRA
CAAGCAGAAGACGGCATAACGAGAT AGCGAACCTGTT GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT CGTACTTTCGTTCTTGATYRA
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# ITS | ITS9 | ITS4

ITS9 (5' GAACGCAGCRAAI | GYGA) Forward Pri

ID
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ITS9\_Fwd

ITS4 (5' TCCTCCGCTTATTGATATGC) Reverse S

Well Info	ID
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A3	ITS4_Rev_3
A4	ITS4_Rev_4
A5	ITS4_Rev_5
A6	ITS4_Rev_6
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A8	ITS4_Rev_8
A9	ITS4_Rev_9
A10	ITS4_Rev_10
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A12	ITS4_Rev_12
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H12	ITS4_Rev_96

mr :

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