|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Supplemental Table 2.** Taxa significantly associated with TGFβ2 (FDR adjusted p-value<0.05). Taxa are ordered by direction of association (red: negative, blue: positive) and significance, within family. | | | | | | |
| **OTU** | **Estimate\*** | **FDR Adjusted p-value** | **Phylum** | **Order** | **Family** | **Genus** |
| ***Actinomycetaceae*** |  |  |  |  |  |  |
| New.ReferenceOTU416 | -3.08 | 9.8E-47 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Actinomyces* |
| New.CleanUp.ReferenceOTU100190 | -11.66 | 2.0E-03 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Actinomyces* |
| New.CleanUp.ReferenceOTU42009 | -1.51 | 2.9E-03 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Varibaculum* |
| New.CleanUp.ReferenceOTU65485 | -5.30 | 3.6E-03 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Varibaculum* |
| 16513 | -2.08 | 1.0E-02 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Actinomyces* |
| New.CleanUp.ReferenceOTU144182 | -1.51 | 1.6E-02 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Varibaculum* |
| 257909 | 1.50 | 6.4E-89 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Trueperella* |
| 4314545 | 2.42 | 9.1E-32 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Actinobaculum* |
| New.ReferenceOTU786 | 7.09 | 4.1E-27 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Actinomyces* |
| 12562 | 2.27 | 3.4E-08 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Actinomyces* |
| New.CleanUp.ReferenceOTU59256 | 2.42 | 7.8E-07 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Actinomyces* |
| New.CleanUp.ReferenceOTU18523 | 2.42 | 8.2E-05 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Actinomyces* |
| New.CleanUp.ReferenceOTU28301 | 2.42 | 3.4E-03 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Actinomyces* |
| New.CleanUp.ReferenceOTU1365 | 2.42 | 1.4E-02 | *Actinobacteria* | *Actinomycetales* | *Actinomycetaceae* | *Actinomyces* |
| ***Bacteroidaceae*** |  |  |  |  |  |  |
| 4232045 | -1.73 | 6.8E-06 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 187178 | -3.81 | 1.2E-04 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.ReferenceOTU697 | -1.43 | 3.2E-04 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 1906635 | -1.10 | 6.1E-04 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 182874 | -2.93 | 5.4E-03 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.ReferenceOTU813 | -0.60 | 5.9E-03 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.CleanUp.ReferenceOTU112390 | -1.51 | 9.4E-03 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.CleanUp.ReferenceOTU83540 | -1.51 | 9.4E-03 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.ReferenceOTU1137 | -1.14 | 1.4E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.ReferenceOTU1084 | -0.98 | 2.8E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 2920309 | -1.97 | 3.6E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.CleanUp.ReferenceOTU112496 | -1.14 | 4.3E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.ReferenceOTU1414 | 3.46 | 9.7E-19 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 4020502 | 0.14 | 3.9E-16 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 3562626 | 0.32 | 2.6E-11 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 4301298 | 3.34 | 6.5E-08 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 580629 | 5.45 | 6.0E-07 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.CleanUp.ReferenceOTU24650 | 1.12 | 2.1E-06 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.ReferenceOTU881 | 1.65 | 1.5E-04 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 2876801 | 1.95 | 1.2E-03 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 4407515 | 2.99 | 2.0E-03 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 3507744 | 0.89 | 2.3E-03 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.ReferenceOTU997 | 1.50 | 1.0E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 301578 | 1.65 | 1.4E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.CleanUp.ReferenceOTU7416 | 2.63 | 2.1E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 2740953 | 0.32 | 2.3E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 4447950 | 2.44 | 2.4E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| New.CleanUp.ReferenceOTU118202 | 1.22 | 3.2E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| 4346677 | 2.80 | 4.7E-02 | *Bacteroidetes* | *Bacteroidales* | *Bacteroidaceae* | *Bacteroides* |
| ***Bifidobacteriaceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU46971 | -1.41 | 4.2E-06 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU165305 | -0.88 | 1.9E-04 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU15460 | -1.54 | 7.9E-04 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU145338 | -0.76 | 1.5E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| 292521 | -1.81 | 2.4E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.ReferenceOTU1021 | -1.06 | 2.9E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU77625 | -1.13 | 6.9E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU82478 | -2.23 | 1.2E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| 1136387 | -0.98 | 1.3E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Alloscardovia* |
| New.CleanUp.ReferenceOTU1320 | -1.53 | 3.5E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| 72820 | 0.03 | 0.0E+00 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.ReferenceOTU627 | 3.67 | 3.7E-06 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Unclassified* |
| New.ReferenceOTU1145 | 1.93 | 1.1E-04 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU27416 | 2.46 | 1.5E-04 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU45552 | 1.61 | 2.5E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU190161 | 2.19 | 2.9E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.ReferenceOTU698 | 27.32 | 3.0E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU42822 | 0.93 | 3.3E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU62395 | 1.71 | 4.7E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU159767 | 2.36 | 5.5E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU178736 | 3.74 | 6.6E-03 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.ReferenceOTU932 | 1.98 | 1.2E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU81457 | 3.50 | 1.4E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU143286 | 1.26 | 2.3E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| 825808 | 1.13 | 2.3E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU45003 | 3.86 | 2.4E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Unclassified* |
| New.ReferenceOTU1017 | 0.92 | 2.7E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| New.CleanUp.ReferenceOTU94721 | 2.42 | 2.8E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| 471180 | 2.95 | 4.6E-02 | *Actinobacteria* | *Bifidobacteriales* | *Bifidobacteriaceae* | *Bifidobacterium* |
| ***Clostridiaceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU23591 | -1.23 | 8.6E-10 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 300662 | -3.29 | 7.3E-09 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU19503 | -1.83 | 1.8E-07 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU21999 | -1.83 | 4.1E-07 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU62265 | -1.17 | 7.3E-06 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.ReferenceOTU469 | -1.41 | 2.4E-05 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU69841 | -1.83 | 2.4E-05 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 4352349 | -2.54 | 4.4E-05 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.ReferenceOTU826 | -1.40 | 4.7E-05 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU23439 | -1.83 | 1.2E-04 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 81682 | -1.83 | 2.6E-04 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.ReferenceOTU886 | -4.12 | 3.7E-04 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU166249 | -2.23 | 7.8E-04 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| 302932 | -1.18 | 8.9E-04 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *SMB53* |
| New.CleanUp.ReferenceOTU37091 | -1.83 | 1.2E-03 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU45337 | -1.77 | 1.9E-03 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU152176 | -1.83 | 2.7E-03 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU69367 | -1.83 | 2.7E-03 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 2366384 | -1.04 | 5.5E-03 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU45834 | -1.83 | 5.8E-03 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU186855 | -1.83 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU60328 | -1.83 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU48125 | -1.24 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.ReferenceOTU422 | -1.23 | 1.3E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *SMB53* |
| New.ReferenceOTU952 | -2.43 | 1.9E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU23234 | -1.79 | 2.0E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| 4407305 | -1.89 | 2.2E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 1024529 | -1.02 | 2.3E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 4383953 | -1.05 | 2.3E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 195185 | -1.83 | 2.4E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU80972 | -1.83 | 2.4E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 2190939 | -1.06 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.ReferenceOTU637 | -0.81 | 2.9E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU82565 | -1.77 | 3.8E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 166896 | -3.60 | 4.0E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU164953 | -1.00 | 4.1E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| 3576174 | -1.31 | 4.7E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.ReferenceOTU1387 | -1.75 | 4.8E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU55716 | -1.55 | 4.9E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU39475 | 1.52 | 4.9E-10 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| 4452633 | 1.79 | 1.3E-08 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.ReferenceOTU426 | 1.31 | 2.0E-07 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU11720 | 1.67 | 4.1E-07 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.ReferenceOTU262 | 0.43 | 1.1E-06 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU61626 | 1.40 | 3.6E-04 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU148771 | 1.03 | 7.9E-03 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.ReferenceOTU486 | 0.45 | 1.0E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.ReferenceOTU1097 | 0.88 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU68859 | 2.19 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *SMB53* |
| New.CleanUp.ReferenceOTU96720 | 7.34 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU74103 | 0.62 | 1.3E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.ReferenceOTU645 | 3.72 | 1.3E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *SMB53* |
| New.CleanUp.ReferenceOTU62517 | 2.42 | 1.4E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU112923 | 0.66 | 1.4E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| 312070 | 1.19 | 1.9E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *SMB53* |
| New.CleanUp.ReferenceOTU190878 | 8.27 | 2.2E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *SMB53* |
| New.CleanUp.ReferenceOTU56313 | 3.22 | 2.4E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *SMB53* |
| New.CleanUp.ReferenceOTU164478 | 1.77 | 2.5E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU127250 | 1.21 | 2.5E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU19700 | 2.58 | 2.6E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU103396 | 2.42 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU103829 | 2.42 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU184275 | 2.42 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 1147925 | 1.11 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Unclassified* |
| 523589 | 27.00 | 3.7E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| 198209 | 0.43 | 3.9E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *SMB53* |
| 4452634 | 0.84 | 4.1E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| New.CleanUp.ReferenceOTU101573 | 1.30 | 4.6E-02 | *Firmicutes* | *Clostridiales* | *Clostridiaceae* | *Clostridium* |
| ***Coriobacteriaceae*** |  |  |  |  |  |  |
| New.ReferenceOTU615 | -1.77 | 1.2E-04 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Eggerthella* |
| New.ReferenceOTU605 | -2.53 | 2.1E-04 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Eggerthella* |
| New.CleanUp.ReferenceOTU185353 | -1.23 | 1.3E-02 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Eggerthella* |
| 2985051 | -1.18 | 1.5E-02 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU155979 | -3.12 | 3.1E-02 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Eggerthella* |
| New.CleanUp.ReferenceOTU134132 | -2.42 | 4.6E-02 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Eggerthella* |
| 175508 | 1.61 | 9.4E-94 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Unclassified* |
| 1124877 | 0.45 | 6.9E-45 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Atopobium* |
| 4332878 | 0.26 | 2.3E-15 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Slackia* |
| 4481613 | 2.46 | 6.7E-07 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Collinsella* |
| New.ReferenceOTU217 | 0.26 | 1.2E-06 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Collinsella* |
| New.ReferenceOTU385 | 0.94 | 2.6E-03 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Collinsella* |
| New.CleanUp.ReferenceOTU168523 | 1.04 | 3.2E-03 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Collinsella* |
| 4397092 | 0.84 | 5.7E-03 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU127691 | 1.61 | 1.1E-02 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Unclassified* |
| New.ReferenceOTU525 | 2.45 | 1.1E-02 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Collinsella* |
| New.CleanUp.ReferenceOTU101157 | 1.04 | 2.5E-02 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Collinsella* |
| New.CleanUp.ReferenceOTU169433 | 5.98 | 3.1E-02 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Collinsella* |
| New.CleanUp.ReferenceOTU192254 | 1.38 | 3.5E-02 | *Actinobacteria* | *Coriobacteriales* | *Coriobacteriaceae* | *Atopobium* |
| ***Corynebacteriaceae*** |  |  |  |  |  |  |
| 917561 | -1.51 | 5.8E-21 | *Actinobacteria* | *Actinomycetales* | *Corynebacteriaceae* | *Corynebacterium* |
| 1082607 | -1.70 | 5.0E-11 | *Actinobacteria* | *Actinomycetales* | *Corynebacteriaceae* | *Corynebacterium* |
| 495067 | -2.28 | 8.1E-03 | *Actinobacteria* | *Actinomycetales* | *Corynebacteriaceae* | *Corynebacterium* |
| 4327286 | 0.26 | 3.4E-09 | *Actinobacteria* | *Actinomycetales* | *Corynebacteriaceae* | *Corynebacterium* |
| 4404731 | 1.81 | 1.7E-06 | *Actinobacteria* | *Actinomycetales* | *Corynebacteriaceae* | *Corynebacterium* |
| New.CleanUp.ReferenceOTU167010 | 2.95 | 2.6E-05 | *Actinobacteria* | *Actinomycetales* | *Corynebacteriaceae* | *Corynebacterium* |
| 113265 | 2.14 | 6.1E-04 | *Actinobacteria* | *Actinomycetales* | *Corynebacteriaceae* | *Corynebacterium* |
| 650615 | 2.64 | 2.8E-02 | *Actinobacteria* | *Actinomycetales* | *Corynebacteriaceae* | *Corynebacterium* |
| 1062356 | 0.66 | 2.9E-02 | *Actinobacteria* | *Actinomycetales* | *Corynebacteriaceae* | *Corynebacterium* |
| 650171 | 0.66 | 4.9E-02 | *Actinobacteria* | *Actinomycetales* | *Corynebacteriaceae* | *Corynebacterium* |
| ***Dermabacteraceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU124305 | -1.13 | 9.3E-04 | *Actinobacteria* | *Actinomycetales* | *Dermabacteraceae* | *Dermabacter* |
| ***Desulfovibrionaceae*** |  |  |  |  |  |  |
| 359872 | -2.48 | 1.1E-02 | *Proteobacteria* | *Desulfovibrionales* | *Desulfovibrionaceae* | *Bilophila* |
| ***Enterobacteriaceae*** |  |  |  |  |  |  |
| 538000 | -2.18 | 8.4E-15 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| 797229 | -2.12 | 2.8E-11 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| 4416113 | -2.26 | 2.6E-10 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Serratia* |
| New.CleanUp.ReferenceOTU20947 | -1.83 | 9.3E-07 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU74950 | -1.83 | 2.4E-05 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU23956 | -1.68 | 1.2E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU186489 | -1.83 | 1.2E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU136191 | -1.42 | 2.1E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU144868 | -0.83 | 3.9E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU113601 | -1.12 | 5.7E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU158902 | -1.83 | 5.8E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| 148003 | -2.74 | 5.8E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| 632346 | -1.13 | 6.9E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Erwinia* |
| 9819 | -0.80 | 8.1E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| 4456892 | -1.51 | 9.4E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Yersinia* |
| 274754 | -2.00 | 1.1E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Yersinia* |
| 4397471 | -1.59 | 1.3E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU57380 | -2.87 | 1.5E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.ReferenceOTU1099 | -1.04 | 1.5E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| 541517 | -2.53 | 1.8E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU30937 | -1.83 | 2.4E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU36144 | -1.83 | 2.4E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU19085 | -3.52 | 3.0E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU63165 | -0.91 | 3.2E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU40885 | -1.68 | 3.4E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.ReferenceOTU277 | -0.40 | 4.0E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.ReferenceOTU739 | -0.80 | 4.2E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU187284 | -1.13 | 4.5E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU83116 | -3.12 | 4.6E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.ReferenceOTU519 | 2.50 | 4.7E-10 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU134498 | 1.21 | 5.4E-09 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU11855 | 2.42 | 3.7E-06 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU119126 | 2.42 | 1.8E-05 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU68512 | 0.84 | 4.2E-05 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.ReferenceOTU140 | 1.50 | 6.3E-04 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| 235024 | 1.29 | 1.3E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.ReferenceOTU403 | 1.14 | 2.2E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| 299267 | 0.68 | 4.0E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.ReferenceOTU546 | 1.72 | 5.1E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU119495 | 1.04 | 5.5E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU74182 | 1.21 | 6.7E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU6369 | 1.45 | 6.9E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU61234 | 0.93 | 8.2E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU133617 | 0.93 | 8.8E-03 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| 3610691 | 1.86 | 2.5E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Proteus* |
| New.ReferenceOTU1003 | 1.20 | 2.6E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU143268 | 2.42 | 2.8E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU8921 | 2.42 | 2.8E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Salmonella* |
| New.ReferenceOTU1434 | 1.61 | 3.0E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Salmonella* |
| New.CleanUp.ReferenceOTU34948 | 0.97 | 3.5E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.ReferenceOTU169 | 1.33 | 3.6E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| 1119540 | 0.97 | 3.6E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU151275 | 3.81 | 3.8E-02 | *Proteobacteria* | *Enterobacteriales* | *Enterobacteriaceae* | *Unclassified* |
| ***Enterococcaceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU41721 | -3.64 | 2.9E-06 | *Firmicutes* | *Lactobacillales* | *Enterococcaceae* | *Unclassified* |
| 138389 | -0.68 | 4.3E-02 | *Firmicutes* | *Lactobacillales* | *Enterococcaceae* | *Enterococcus* |
| New.CleanUp.ReferenceOTU73736 | -1.23 | 4.6E-02 | *Firmicutes* | *Lactobacillales* | *Enterococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU145335 | 2.71 | 2.5E-02 | *Firmicutes* | *Lactobacillales* | *Enterococcaceae* | *Unclassified* |
| 4453060 | 0.77 | 2.9E-02 | *Firmicutes* | *Lactobacillales* | *Enterococcaceae* | *Enterococcus* |
| ***Erysipelotrichaceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU37858 | -0.70 | 2.9E-02 | *Firmicutes* | *Erysipelotrichales* | *Erysipelotrichaceae* | *[Eubacterium]* |
| 368486 | 0.26 | 1.3E-117 | *Firmicutes* | *Erysipelotrichales* | *Erysipelotrichaceae* | *[Eubacterium]* |
| New.CleanUp.ReferenceOTU192134 | 1.18 | 4.0E-04 | *Firmicutes* | *Erysipelotrichales* | *Erysipelotrichaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU48512 | 0.98 | 6.5E-04 | *Firmicutes* | *Erysipelotrichales* | *Erysipelotrichaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU103831 | 3.77 | 1.8E-03 | *Firmicutes* | *Erysipelotrichales* | *Erysipelotrichaceae* | *Unclassified* |
| 4396877 | 2.15 | 2.5E-03 | *Firmicutes* | *Erysipelotrichales* | *Erysipelotrichaceae* | *[Eubacterium]* |
| New.ReferenceOTU555 | 0.34 | 3.6E-03 | *Firmicutes* | *Erysipelotrichales* | *Erysipelotrichaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU33696 | 0.43 | 1.2E-02 | *Firmicutes* | *Erysipelotrichales* | *Erysipelotrichaceae* | *Unclassified* |
| 360238 | 0.07 | 2.4E-02 | *Firmicutes* | *Erysipelotrichales* | *Erysipelotrichaceae* | *Unclassified* |
| New.ReferenceOTU1286 | 1.28 | 4.4E-02 | *Firmicutes* | *Erysipelotrichales* | *Erysipelotrichaceae* | *Unclassified* |
| ***Fusobacteriaceae*** |  |  |  |  |  |  |
| 4405869 | 1.66 | 1.0E-109 | *Fusobacteria* | *Fusobacteriales* | *Fusobacteriaceae* | *Fusobacterium* |
| 4466659 | 1.72 | 7.8E-06 | *Fusobacteria* | *Fusobacteriales* | *Fusobacteriaceae* | *Fusobacterium* |
| New.CleanUp.ReferenceOTU81918 | 1.72 | 4.6E-04 | *Fusobacteria* | *Fusobacteriales* | *Fusobacteriaceae* | *Fusobacterium* |
| ***Lachnospiraceae*** |  |  |  |  |  |  |
| 4008606 | -2.23 | 0.0E+00 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 156357 | -1.83 | 1.9E-56 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU117189 | -1.83 | 6.8E-34 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 289927 | -2.23 | 6.1E-12 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 4193317 | -2.23 | 4.6E-08 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 4377715 | -0.27 | 1.5E-06 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Epulopiscium* |
| New.ReferenceOTU107 | -1.74 | 8.9E-05 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 177175 | -4.79 | 1.0E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| New.CleanUp.ReferenceOTU52711 | -1.83 | 1.2E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 175650 | -0.48 | 1.8E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| New.CleanUp.ReferenceOTU143295 | -1.83 | 2.6E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 193221 | -1.40 | 3.4E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 320055 | -2.23 | 7.8E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Dorea* |
| New.CleanUp.ReferenceOTU128786 | -1.51 | 2.9E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 4416025 | -1.63 | 3.6E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| New.ReferenceOTU1498 | -0.90 | 7.3E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 4469576 | -1.73 | 8.2E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU183002 | -0.58 | 9.8E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| 179472 | -1.51 | 1.1E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| 316781 | -2.23 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU138743 | -2.23 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Epulopiscium* |
| New.CleanUp.ReferenceOTU25817 | -1.83 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 4094866 | -2.36 | 1.5E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.ReferenceOTU215 | -1.26 | 1.7E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 3926480 | -1.60 | 1.9E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| New.ReferenceOTU968 | -0.84 | 1.9E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 392887 | -2.52 | 2.2E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| 306299 | -1.35 | 2.3E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 182289 | -1.90 | 2.4E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Coprococcus* |
| 194053 | -1.83 | 2.4E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| New.ReferenceOTU225 | -1.80 | 2.5E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.ReferenceOTU552 | -3.78 | 2.5E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Coprococcus* |
| 4183249 | -0.72 | 2.7E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| New.ReferenceOTU1153 | -0.36 | 3.4E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 189651 | -0.90 | 3.7E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 184729 | -0.69 | 4.9E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 2500766 | 2.42 | 0.0E+00 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 316728 | 2.41 | 0.0E+00 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 1146349 | 0.43 | 1.3E-248 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Epulopiscium* |
| 181003 | 0.51 | 4.3E-88 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 192676 | 0.47 | 1.6E-44 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 290762 | 0.26 | 9.4E-26 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU100055 | 2.42 | 3.1E-17 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 356138 | 0.20 | 1.3E-15 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 296487 | 2.42 | 8.5E-15 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| 185411 | 2.59 | 1.6E-13 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| 179319 | 0.43 | 5.8E-13 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Dorea* |
| 326390 | 2.42 | 2.7E-11 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.ReferenceOTU251 | 1.50 | 2.8E-11 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 191361 | 1.23 | 1.4E-10 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 179400 | 3.87 | 2.9E-09 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 192308 | 1.10 | 7.6E-09 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 4472551 | 1.80 | 1.1E-08 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| 192711 | 4.35 | 2.1E-07 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 180312 | 1.72 | 2.7E-07 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| 4307265 | 2.45 | 1.2E-06 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.ReferenceOTU1066 | 2.78 | 4.5E-06 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 188008 | 2.97 | 8.5E-06 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 181485 | 1.72 | 1.8E-05 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| 193174 | 8.18 | 3.6E-05 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 325295 | 2.42 | 3.9E-05 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| 4396688 | 3.96 | 4.6E-05 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 186955 | 1.64 | 4.7E-05 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 4308841 | 0.21 | 6.4E-05 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU185072 | 1.64 | 2.1E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 185232 | 1.40 | 3.9E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 189679 | 1.89 | 5.8E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 2762219 | 2.52 | 6.9E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 196333 | 2.42 | 7.9E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| 4350477 | 2.03 | 8.7E-04 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 177515 | 1.59 | 1.0E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| 183970 | 0.91 | 1.2E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 4449427 | 3.17 | 1.2E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 2986828 | 3.10 | 1.4E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 1751298 | 1.24 | 1.9E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| New.CleanUp.ReferenceOTU168277 | 2.34 | 2.2E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU173357 | 1.72 | 2.3E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU130793 | 65.90 | 2.4E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 192461 | 1.97 | 2.9E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 289734 | 1.47 | 3.3E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| New.CleanUp.ReferenceOTU69288 | 2.42 | 3.4E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 2235671 | 2.83 | 3.9E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| 193863 | 2.90 | 6.2E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 179508 | 3.31 | 7.6E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 192444 | 0.98 | 8.7E-03 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 179657 | 1.58 | 1.1E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| New.CleanUp.ReferenceOTU103035 | 1.72 | 1.1E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| 175261 | 0.93 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU11565 | 2.42 | 1.4E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 180171 | 1.85 | 1.4E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| New.ReferenceOTU1320 | 12.04 | 1.9E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| 183698 | 1.52 | 2.0E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 180801 | 0.26 | 2.0E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 176297 | 1.72 | 2.3E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| New.CleanUp.ReferenceOTU117462 | 0.26 | 2.4E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *[Ruminococcus]* |
| 187035 | 3.58 | 2.5E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| 4378683 | 2.01 | 2.7E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU184878 | 2.41 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| 183419 | 2.42 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| 177520 | 1.47 | 3.0E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| 259772 | 2.20 | 3.1E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Coprococcus* |
| 186896 | 4.24 | 3.1E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| New.CleanUp.ReferenceOTU59611 | 1.00 | 3.1E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Epulopiscium* |
| 337246 | 3.76 | 3.2E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Blautia* |
| 180874 | 0.94 | 3.5E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Roseburia* |
| 186255 | 1.45 | 4.9E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU183329 | 0.43 | 4.9E-02 | *Firmicutes* | *Clostridiales* | *Lachnospiraceae* | *Epulopiscium* |
| ***Lactobacillaceae*** |  |  |  |  |  |  |
| 288521 | -0.44 | 8.8E-173 | *Firmicutes* | *Lactobacillales* | *Lactobacillaceae* | *Lactobacillus* |
| 130864 | -0.89 | 1.5E-04 | *Firmicutes* | *Lactobacillales* | *Lactobacillaceae* | *Lactobacillus* |
| 593376 | 2.42 | 2.1E-224 | *Firmicutes* | *Lactobacillales* | *Lactobacillaceae* | *Lactobacillus* |
| New.CleanUp.ReferenceOTU86137 | 2.42 | 8.2E-05 | *Firmicutes* | *Lactobacillales* | *Lactobacillaceae* | *Lactobacillus* |
| New.CleanUp.ReferenceOTU31664 | 1.46 | 7.3E-03 | *Firmicutes* | *Lactobacillales* | *Lactobacillaceae* | *Unclassified* |
| New.ReferenceOTU198 | 1.61 | 1.1E-02 | *Firmicutes* | *Lactobacillales* | *Lactobacillaceae* | *Lactobacillus* |
| New.CleanUp.ReferenceOTU4458 | 2.42 | 2.8E-02 | *Firmicutes* | *Lactobacillales* | *Lactobacillaceae* | *Lactobacillus* |
| New.CleanUp.ReferenceOTU62600 | 1.40 | 4.6E-02 | *Firmicutes* | *Lactobacillales* | *Lactobacillaceae* | *Lactobacillus* |
| ***Micrococcaceae*** |  |  |  |  |  |  |
| 929901 | -0.38 | 2.9E-02 | *Actinobacteria* | *Actinomycetales* | *Micrococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU139242 | 3.68 | 1.6E-02 | *Actinobacteria* | *Actinomycetales* | *Micrococcaceae* | *Rothia* |
| ***Moraxellaceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU129679 | 4.28 | 8.3E-13 | *Proteobacteria* | *Pseudomonadales* | *Moraxellaceae* | *Acinetobacter* |
| New.CleanUp.ReferenceOTU136018 | 0.84 | 1.1E-09 | *Proteobacteria* | *Pseudomonadales* | *Moraxellaceae* | *Acinetobacter* |
| New.CleanUp.ReferenceOTU44099 | 0.84 | 1.5E-06 | *Proteobacteria* | *Pseudomonadales* | *Moraxellaceae* | *Acinetobacter* |
| 552922 | 3.33 | 1.7E-03 | *Proteobacteria* | *Pseudomonadales* | *Moraxellaceae* | *Acinetobacter* |
| 219151 | 2.27 | 4.1E-03 | *Proteobacteria* | *Pseudomonadales* | *Moraxellaceae* | *Acinetobacter* |
| New.ReferenceOTU200 | 1.72 | 9.2E-03 | *Proteobacteria* | *Pseudomonadales* | *Moraxellaceae* | *Acinetobacter* |
| 584176 | 2.22 | 1.4E-02 | *Proteobacteria* | *Pseudomonadales* | *Moraxellaceae* | *Acinetobacter* |
| 4376233 | 0.84 | 1.5E-02 | *Proteobacteria* | *Pseudomonadales* | *Moraxellaceae* | *Acinetobacter* |
| ***Neisseriaceae*** |  |  |  |  |  |  |
| 6367 | -1.51 | 5.8E-21 | *Proteobacteria* | *Neisseriales* | *Neisseriaceae* | *Microvirgula* |
| New.CleanUp.ReferenceOTU124851 | -1.13 | 4.5E-02 | *Proteobacteria* | *Neisseriales* | *Neisseriaceae* | *Neisseria* |
| 87506 | 1.72 | 1.1E-02 | *Proteobacteria* | *Neisseriales* | *Neisseriaceae* | *Unclassified* |
| ***[Odoribacteraceae]*** |  |  |  |  |  |  |
| 4472721 | 0.44 | 2.0E-25 | *Bacteroidetes* | *Bacteroidales* | *[Odoribacteraceae]* | *Odoribacter* |
| ***p-2534-18B5*** |  |  |  |  |  |  |
| 293970 | -8.66 | 7.0E-05 | *Bacteroidetes* | *Bacteroidales* | *p-2534-18B5* | *Unclassified* |
| ***Pasteurellaceae*** |  |  |  |  |  |  |
| 891034 | -2.23 | 1.3E-14 | *Proteobacteria* | *Pasteurellales* | *Pasteurellaceae* | *Aggregatibacter* |
| New.CleanUp.ReferenceOTU191999 | -1.14 | 8.5E-04 | *Proteobacteria* | *Pasteurellales* | *Pasteurellaceae* | *Unclassified* |
| 4406393 | 0.84 | 6.4E-09 | *Proteobacteria* | *Pasteurellales* | *Pasteurellaceae* | *Haemophilus* |
| 4469359 | 1.25 | 4.2E-02 | *Proteobacteria* | *Pasteurellales* | *Pasteurellaceae* | *Haemophilus* |
| ***Peptococcaceae*** |  |  |  |  |  |  |
| 339685 | 0.26 | 1.4E-88 | *Firmicutes* | *Clostridiales* | *Peptococcaceae* | *Peptococcus* |
| ***Porphyromonadaceae*** |  |  |  |  |  |  |
| 4365130 | -1.55 | 1.3E-03 | *Bacteroidetes* | *Bacteroidales* | *Porphyromonadaceae* | *Parabacteroides* |
| 4372003 | 0.26 | 1.6E-06 | *Bacteroidetes* | *Bacteroidales* | *Porphyromonadaceae* | *Parabacteroides* |
| New.CleanUp.ReferenceOTU41057 | 1.61 | 1.2E-03 | *Bacteroidetes* | *Bacteroidales* | *Porphyromonadaceae* | *Parabacteroides* |
| 2309802 | 2.34 | 3.3E-03 | *Bacteroidetes* | *Bacteroidales* | *Porphyromonadaceae* | *Parabacteroides* |
| New.ReferenceOTU191 | 0.74 | 1.3E-02 | *Bacteroidetes* | *Bacteroidales* | *Porphyromonadaceae* | *Parabacteroides* |
| 4329571 | 2.02 | 3.3E-02 | *Bacteroidetes* | *Bacteroidales* | *Porphyromonadaceae* | *Parabacteroides* |
| ***Prevotellaceae*** |  |  |  |  |  |  |
| 4324245 | -6.83 | 3.9E-03 | *Bacteroidetes* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |
| 174831 | 1.61 | 2.8E-85 | *Bacteroidetes* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |
| 196296 | 1.61 | 4.2E-17 | *Bacteroidetes* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |
| 180825 | 4.05 | 2.7E-13 | *Bacteroidetes* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |
| 326482 | 2.78 | 7.2E-05 | *Bacteroidetes* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |
| 189083 | 1.61 | 2.3E-04 | *Bacteroidetes* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |
| 856235 | 5.50 | 6.9E-03 | *Bacteroidetes* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |
| New.CleanUp.ReferenceOTU107510 | 1.61 | 2.4E-02 | *Bacteroidetes* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |
| ***Propionibacteriaceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU54352 | -1.26 | 4.0E-02 | *Actinobacteria* | *Actinomycetales* | *Propionibacteriaceae* | *Propionibacterium* |
| ***Pseudomonadaceae*** |  |  |  |  |  |  |
| 225088 | -0.64 | 2.9E-02 | *Proteobacteria* | *Pseudomonadales* | *Pseudomonadaceae* | *Unclassified* |
| 845178 | 1.11 | 1.6E-44 | *Proteobacteria* | *Pseudomonadales* | *Pseudomonadaceae* | *Unclassified* |
| 4451011 | 0.43 | 3.9E-02 | *Proteobacteria* | *Pseudomonadales* | *Pseudomonadaceae* | *Unclassified* |
| ***Ruminococcaceae*** |  |  |  |  |  |  |
| 175922 | -1.23 | 2.4E-30 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Oscillospira* |
| New.CleanUp.ReferenceOTU172120 | -1.23 | 1.3E-02 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| 4390330 | 0.31 | 1.9E-86 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Ruminococcus* |
| 470117 | 2.42 | 1.5E-72 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Ruminococcus* |
| 4466275 | 2.42 | 1.4E-34 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU179678 | 2.42 | 7.4E-28 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| 174147 | 3.63 | 4.8E-23 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Ruminococcus* |
| New.CleanUp.ReferenceOTU173081 | 2.42 | 5.0E-13 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| 2979308 | 0.26 | 4.9E-10 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Ruminococcus* |
| 110562 | 1.50 | 8.4E-09 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.ReferenceOTU681 | 0.60 | 2.2E-08 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU131324 | 2.26 | 1.2E-06 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| 4427459 | 1.50 | 2.8E-05 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.ReferenceOTU844 | 2.42 | 8.2E-05 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.ReferenceOTU228 | 2.42 | 1.7E-04 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU102087 | 2.42 | 1.7E-03 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU29176 | 1.04 | 5.8E-03 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Faecalibacterium* |
| New.CleanUp.ReferenceOTU45004 | 2.42 | 7.1E-03 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU156545 | 2.19 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU158507 | 2.42 | 1.4E-02 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU27777 | 2.42 | 1.4E-02 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU129226 | 1.61 | 2.4E-02 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Oscillospira* |
| New.CleanUp.ReferenceOTU181805 | 1.02 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU133697 | 2.42 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Ruminococcaceae* | *Unclassified* |
| ***S24-7*** |  |  |  |  |  |  |
| 1044419 | -4.68 | 9.8E-04 | *Bacteroidetes* | *Bacteroidales* | *S24-7* | *Unclassified* |
| 343038 | 7.00 | 2.1E-04 | *Bacteroidetes* | *Bacteroidales* | *S24-7* | *Unclassified* |
| ***Sphingomonadaceae*** |  |  |  |  |  |  |
| 1143645 | 4.96 | 4.7E-03 | *Proteobacteria* | *Sphingomonadales* | *Sphingomonadaceae* | *Sphingomonas* |
| ***Staphylococcaceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU113989 | -1.46 | 6.4E-05 | *Firmicutes* | *Bacillales* | *Staphylococcaceae* | *Staphylococcus* |
| 1055132 | -1.27 | 3.0E-02 | *Firmicutes* | *Bacillales* | *Staphylococcaceae* | *Staphylococcus* |
| 928538 | -0.82 | 3.7E-02 | *Firmicutes* | *Bacillales* | *Staphylococcaceae* | *Staphylococcus* |
| 1995363 | -0.85 | 4.3E-02 | *Firmicutes* | *Bacillales* | *Staphylococcaceae* | *Staphylococcus* |
| 3385021 | -1.13 | 4.3E-02 | *Firmicutes* | *Bacillales* | *Staphylococcaceae* | *Staphylococcus* |
| ***Streptococcaceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU162541 | -1.52 | 5.0E-05 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| 237444 | -3.14 | 3.9E-04 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.CleanUp.ReferenceOTU78977 | -1.51 | 8.5E-04 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.CleanUp.ReferenceOTU84115 | -2.52 | 2.3E-03 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.CleanUp.ReferenceOTU122194 | -0.84 | 7.1E-03 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.ReferenceOTU162 | 7.87 | 1.4E-04 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Lactococcus* |
| New.CleanUp.ReferenceOTU33452 | 3.31 | 3.0E-04 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Unclassified* |
| 1100972 | 3.49 | 9.5E-04 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Lactococcus* |
| New.ReferenceOTU1242 | 2.98 | 1.4E-03 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| 544419 | 3.12 | 2.9E-03 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Lactococcus* |
| 294794 | 2.06 | 3.6E-03 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.ReferenceOTU1382 | 4.07 | 3.9E-03 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.ReferenceOTU945 | 1.42 | 4.3E-03 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.ReferenceOTU334 | 2.42 | 7.1E-03 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| 3244896 | 2.73 | 8.8E-03 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.CleanUp.ReferenceOTU194535 | 0.66 | 9.0E-03 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU45120 | 0.84 | 1.1E-02 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| 936798 | 1.46 | 1.3E-02 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.ReferenceOTU172 | 2.95 | 1.5E-02 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Lactococcus* |
| New.CleanUp.ReferenceOTU101274 | 0.26 | 2.0E-02 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Lactococcus* |
| New.CleanUp.ReferenceOTU75106 | 2.42 | 2.8E-02 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| 1059655 | 2.86 | 3.4E-02 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.CleanUp.ReferenceOTU122917 | 2.00 | 3.8E-02 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Lactococcus* |
| New.CleanUp.ReferenceOTU84312 | 1.83 | 4.0E-02 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| New.CleanUp.ReferenceOTU176482 | 3.69 | 4.6E-02 | *Firmicutes* | *Lactobacillales* | *Streptococcaceae* | *Streptococcus* |
| ***[Tissierellaceae]*** |  |  |  |  |  |  |
| 4397098 | -1.13 | 3.0E-02 | *Firmicutes* | *Clostridiales* | *[Tissierellaceae]* | *Peptoniphilus* |
| New.CleanUp.ReferenceOTU54633 | 1.37 | 1.9E-02 | *Firmicutes* | *Clostridiales* | *[Tissierellaceae]* | *Anaerococcus* |
| ***Veillonellaceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU183131 | -199.77 | 7.9E-57 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| New.ReferenceOTU218 | -0.47 | 1.1E-46 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.CleanUp.ReferenceOTU118592 | -3.08 | 5.5E-17 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.ReferenceOTU51 | -1.51 | 8.5E-11 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU54121 | -1.62 | 1.4E-08 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU139438 | -1.23 | 6.7E-08 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Phascolarctobacterium* |
| New.CleanUp.ReferenceOTU35437 | -1.23 | 4.6E-07 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Phascolarctobacterium* |
| New.CleanUp.ReferenceOTU152915 | -3.08 | 4.6E-05 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU154523 | -3.08 | 4.6E-05 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| 3128077 | -0.25 | 7.2E-05 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.CleanUp.ReferenceOTU145724 | -1.71 | 4.1E-04 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU96186 | -1.51 | 8.5E-04 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| 4318284 | -2.46 | 5.6E-03 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Dialister* |
| New.CleanUp.ReferenceOTU6784 | -1.51 | 9.4E-03 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.ReferenceOTU1502 | -1.50 | 1.0E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.CleanUp.ReferenceOTU192158 | -1.23 | 2.9E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Phascolarctobacterium* |
| 3138798 | -2.89 | 3.4E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Phascolarctobacterium* |
| New.CleanUp.ReferenceOTU88976 | -0.79 | 4.0E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.ReferenceOTU455 | 0.58 | 9.3E-83 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| 215040 | 1.72 | 7.4E-10 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Dialister* |
| 173744 | 2.95 | 3.5E-09 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.CleanUp.ReferenceOTU95711 | 1.50 | 1.9E-08 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.ReferenceOTU612 | 0.45 | 8.0E-08 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.CleanUp.ReferenceOTU191866 | 1.50 | 9.7E-08 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.CleanUp.ReferenceOTU169261 | 1.72 | 6.3E-07 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| 2829179 | 6.33 | 6.7E-06 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Acidaminococcus* |
| New.ReferenceOTU1380 | 0.66 | 1.3E-05 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.CleanUp.ReferenceOTU49826 | 1.50 | 6.2E-05 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.ReferenceOTU1067 | 2.48 | 3.6E-04 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| New.ReferenceOTU611 | 2.19 | 4.8E-04 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU85625 | 1.23 | 5.6E-04 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.CleanUp.ReferenceOTU127887 | 1.50 | 6.3E-04 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| 3827235 | 0.45 | 1.1E-03 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.CleanUp.ReferenceOTU29709 | 2.26 | 5.1E-03 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| 4410265 | 7.46 | 6.2E-03 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.CleanUp.ReferenceOTU59773 | 0.45 | 9.7E-03 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.CleanUp.ReferenceOTU31133 | 1.72 | 1.1E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU64925 | 1.61 | 1.1E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| 124906 | 2.61 | 1.3E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| 4435402 | 0.45 | 1.3E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.CleanUp.ReferenceOTU152 | 0.66 | 1.4E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.CleanUp.ReferenceOTU23153 | 6.34 | 1.5E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.CleanUp.ReferenceOTU129621 | 1.72 | 2.3E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU143528 | 1.61 | 2.4E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.CleanUp.ReferenceOTU71084 | 0.66 | 2.4E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| 3801267 | 0.81 | 2.5E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| 4425368 | 2.75 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.ReferenceOTU1150 | 1.27 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.CleanUp.ReferenceOTU59585 | 2.42 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| 86428 | 2.10 | 3.4E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| New.ReferenceOTU689 | 1.42 | 3.5E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.CleanUp.ReferenceOTU179873 | 1.81 | 3.7E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| New.CleanUp.ReferenceOTU184941 | 0.45 | 4.4E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Megasphaera* |
| New.CleanUp.ReferenceOTU105514 | 0.69 | 4.4E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Veillonella* |
| 511378 | 1.15 | 4.6E-02 | *Firmicutes* | *Clostridiales* | *Veillonellaceae* | *Unclassified* |
| ***Verrucomicrobiaceae*** |  |  |  |  |  |  |
| 593043 | 0.26 | 1.3E-02 | *Verrucomicrobia* | *Verrucomicrobiales* | *Verrucomicrobiaceae* | *Akkermansia* |
| New.ReferenceOTU751 | 2.48 | 1.5E-02 | *Verrucomicrobia* | *Verrucomicrobiales* | *Verrucomicrobiaceae* | *Akkermansia* |
| 588471 | 3.13 | 2.0E-02 | *Verrucomicrobia* | *Verrucomicrobiales* | *Verrucomicrobiaceae* | *Akkermansia* |
| ***Xanthomonadaceae*** |  |  |  |  |  |  |
| New.CleanUp.ReferenceOTU184585 | 1.12 | 7.0E-09 | *Proteobacteria* | *Xanthomonadales* | *Xanthomonadaceae* | *Stenotrophomonas* |
| New.CleanUp.ReferenceOTU64383 | 2.10 | 7.2E-09 | *Proteobacteria* | *Xanthomonadales* | *Xanthomonadaceae* | *Stenotrophomonas* |
| 219439 | 2.50 | 1.3E-03 | *Proteobacteria* | *Xanthomonadales* | *Xanthomonadaceae* | *Stenotrophomonas* |
| New.CleanUp.ReferenceOTU179663 | 1.12 | 1.8E-03 | *Proteobacteria* | *Xanthomonadales* | *Xanthomonadaceae* | *Stenotrophomonas* |
| 537062 | 3.94 | 2.1E-03 | *Proteobacteria* | *Xanthomonadales* | *Xanthomonadaceae* | *Stenotrophomonas* |
| 4430952 | 4.86 | 2.8E-02 | *Proteobacteria* | *Xanthomonadales* | *Xanthomonadaceae* | *Stenotrophomonas* |
| ***Unclassified*** |  |  |  |  |  |  |
| New.ReferenceOTU1102 | -1.13 | 3.3E-69 | *Actinobacteria* | *Actinomycetales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU149154 | -1.23 | 5.9E-23 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU40838 | -1.23 | 3.8E-15 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1479 | -1.23 | 6.5E-12 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| 1126230 | -1.13 | 2.3E-10 | *Actinobacteria* | *Actinomycetales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU27684 | -1.23 | 1.4E-09 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1086 | -1.23 | 1.8E-07 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU176429 | -1.51 | 2.1E-07 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1463 | -1.23 | 2.9E-07 | *Firmicutes* | *Lactobacillales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU22495 | -2.23 | 3.3E-07 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU175292 | -1.51 | 1.5E-06 | *Actinobacteria* | *Actinomycetales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU176493 | -1.51 | 2.9E-06 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| 344394 | -1.23 | 8.3E-06 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU38253 | -1.83 | 2.4E-05 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU24008 | -1.67 | 6.3E-05 | *Proteobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU48750 | -1.23 | 8.8E-05 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU97 | -1.23 | 8.8E-05 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU604 | -1.64 | 2.0E-04 | *Actinobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU890 | -1.94 | 2.3E-04 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU27187 | -1.83 | 2.6E-04 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU887 | -5.20 | 2.8E-04 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU8218 | -1.04 | 3.7E-04 | *Actinobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU166791 | -4.62 | 4.5E-04 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU22515 | -1.51 | 4.5E-04 | *Actinobacteria* | *Actinomycetales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU114846 | -1.16 | 4.6E-04 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU128917 | -2.23 | 7.8E-04 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU191862 | -3.34 | 1.3E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU778 | -0.35 | 1.5E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU145911 | -2.23 | 2.0E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1171 | -1.30 | 2.8E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU11207 | -0.76 | 2.8E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU13193 | -1.51 | 2.9E-03 | *Actinobacteria* | *Actinomycetales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU36898 | -1.23 | 3.5E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU42 | -5.34 | 3.5E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU57420 | -2.50 | 3.7E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU150372 | -2.23 | 4.9E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU160461 | -2.16 | 5.6E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| 195143 | -1.83 | 5.8E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU130750 | -1.83 | 5.8E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| 881857 | -1.04 | 6.5E-03 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU165307 | -0.37 | 7.3E-03 | *Firmicutes* | *Lactobacillales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1284 | -1.88 | 7.6E-03 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU115436 | -3.08 | 7.7E-03 | *Actinobacteria* | *Actinomycetales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1248 | -1.38 | 7.8E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU18639 | -1.23 | 8.5E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU4701 | -2.75 | 8.7E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU122708 | -5.59 | 8.8E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU6323 | -7.72 | 9.0E-03 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU562 | -1.52 | 9.2E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU82522 | -1.14 | 9.4E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU35014 | -2.23 | 1.1E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU194420 | -1.57 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU128001 | -2.23 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU144997 | -2.23 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU30677 | -2.23 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU80537 | -2.23 | 1.2E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| 1036749 | -3.00 | 1.2E-02 | *Firmicutes* | *Gemellales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU122273 | -1.83 | 1.2E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU143502 | -4.18 | 1.2E-02 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU8739 | -1.13 | 1.4E-02 | *Actinobacteria* | *Actinomycetales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1389 | -1.04 | 1.5E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU7678 | -1.11 | 1.5E-02 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU121993 | -1.51 | 1.6E-02 | *Actinobacteria* | *Actinomycetales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU26875 | -1.51 | 1.6E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| 2148365 | -4.21 | 1.7E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU193717 | -1.23 | 2.0E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU904 | -2.37 | 2.1E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU79438 | -1.13 | 2.1E-02 | *Actinobacteria* | *Actinomycetales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1264 | -0.99 | 2.3E-02 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU163944 | -1.83 | 2.4E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU106972 | -1.16 | 2.6E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU177274 | -1.08 | 2.8E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU127681 | -0.93 | 2.9E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1158 | -1.18 | 2.9E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1268 | -0.90 | 3.5E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU35365 | -2.67 | 3.6E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU145628 | -0.45 | 3.8E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1182 | -0.68 | 4.2E-02 | *Actinobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU151497 | -1.13 | 4.5E-02 | *Actinobacteria* | *Actinomycetales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU91882 | -1.67 | 4.5E-02 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU4335 | -1.23 | 4.6E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU985 | 2.42 | 6.3E-40 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU12026 | 1.30 | 1.5E-34 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU763 | 1.78 | 1.5E-24 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU180652 | 2.42 | 3.3E-22 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU44138 | 2.42 | 4.3E-20 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU176786 | 2.42 | 3.8E-15 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU46848 | 2.42 | 1.1E-12 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1069 | 0.35 | 4.0E-12 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU440 | 1.55 | 6.1E-12 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU175874 | 2.42 | 1.2E-11 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU522 | 2.42 | 5.9E-11 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU125723 | 2.42 | 2.9E-10 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU189132 | 1.61 | 9.8E-10 | *Bacteroidetes* | *Bacteroidales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1407 | 2.51 | 1.4E-08 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU53908 | 2.42 | 1.5E-08 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU94145 | 2.42 | 3.3E-08 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU608 | 1.50 | 9.7E-08 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU165714 | 1.12 | 3.1E-07 | *Proteobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU102659 | 2.42 | 1.7E-06 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU126665 | 2.42 | 3.7E-06 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU89821 | 1.61 | 4.0E-06 | *Firmicutes* | *Lactobacillales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU135559 | 1.72 | 7.8E-06 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU163681 | 1.72 | 7.8E-06 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU109153 | 2.42 | 1.8E-05 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU182436 | 2.42 | 1.8E-05 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU33405 | 2.42 | 1.8E-05 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU312 | 1.72 | 1.8E-05 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU23603 | 1.61 | 2.1E-05 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1034 | 0.19 | 2.3E-05 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU130129 | 1.27 | 2.8E-05 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU101256 | 2.42 | 3.9E-05 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU435 | 1.14 | 5.1E-05 | *Actinobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU12206 | 2.42 | 8.2E-05 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU157211 | 2.42 | 8.2E-05 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU65669 | 1.61 | 1.1E-04 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU568 | 4.93 | 1.1E-04 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU431 | 1.81 | 1.6E-04 | *Bacteroidetes* | *Bacteroidales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU153056 | 2.42 | 1.7E-04 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU42641 | 2.42 | 1.7E-04 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU79515 | 2.42 | 1.7E-04 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU8094 | 2.42 | 1.7E-04 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1229 | 1.04 | 3.6E-04 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU115029 | 2.42 | 3.7E-04 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU4076 | 2.42 | 3.7E-04 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU49 | 1.72 | 4.6E-04 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1183 | 1.84 | 6.9E-04 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU18650 | 2.42 | 7.9E-04 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1154 | 2.42 | 7.9E-04 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU133917 | 0.95 | 8.7E-04 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1215 | 4.81 | 8.8E-04 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1437 | 0.20 | 1.0E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU139157 | 2.42 | 1.7E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU67958 | 2.42 | 1.7E-03 | *Firmicutes* | *Lactobacillales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU82667 | 2.42 | 1.7E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU22134 | 1.40 | 1.8E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU5094 | 1.72 | 2.3E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU63107 | 1.72 | 2.3E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU88098 | 1.72 | 2.3E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU94401 | 1.72 | 2.3E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU155702 | 2.41 | 3.4E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU130448 | 2.42 | 3.4E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU38739 | 2.42 | 3.4E-03 | *Firmicutes* | *Lactobacillales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU39245 | 2.42 | 3.4E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU86367 | 2.42 | 3.4E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1393 | 2.15 | 4.2E-03 | *Proteobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU139435 | 1.66 | 5.3E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU116878 | 1.61 | 5.5E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU590 | 1.23 | 6.2E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU10144 | 2.42 | 7.1E-03 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU109610 | 2.42 | 7.1E-03 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU44213 | 2.42 | 7.1E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU95250 | 2.42 | 7.1E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU106 | 0.17 | 8.0E-03 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1243 | 1.94 | 8.8E-03 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| 606927 | 1.60 | 1.0E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU102285 | 1.72 | 1.1E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| 4473975 | 1.61 | 1.1E-02 | *Firmicutes* | *Lactobacillales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU191536 | 1.61 | 1.1E-02 | *Firmicutes* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU12728 | 2.42 | 1.4E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU129399 | 2.42 | 1.4E-02 | *Actinobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU15277 | 2.42 | 1.4E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU117904 | 1.33 | 1.4E-02 | *Proteobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU33321 | 1.62 | 1.7E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU1291 | 1.94 | 2.1E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU179932 | 6.26 | 2.3E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU123538 | 1.72 | 2.3E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU292 | 0.45 | 2.4E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU22702 | 3.46 | 2.5E-02 | *Proteobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU100142 | 2.42 | 2.8E-02 | *Actinobacteria* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU122687 | 2.42 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU4037 | 2.42 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU73354 | 2.42 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU97623 | 2.42 | 2.8E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU137978 | 0.73 | 2.9E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU154317 | 0.42 | 3.1E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU10001 | 2.50 | 3.8E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.ReferenceOTU181 | 2.74 | 4.2E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU5290 | 1.04 | 4.2E-02 | *Unclassified* | *Unclassified* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU128118 | 1.89 | 4.4E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| New.CleanUp.ReferenceOTU121918 | 2.76 | 4.4E-02 | *Firmicutes* | *Lactobacillales* | *Unclassified* | *Unclassified* |
| 303326 | 1.05 | 4.9E-02 | *Firmicutes* | *Clostridiales* | *Unclassified* | *Unclassified* |
| \**Zero-inflated negative binomial or standard negative binomial regression coefficient, interpreted as the change in the log mean OTU abundance for a 1-unit increase in log(TGFβ2).* | | | | | | |