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| **Table S1. Core microbiome OTUs detected in all n-RFI bulls.1** |
| Phylum  | Class | Order | Family  | Genus | Species |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* |  |  |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Paraprevotellaceae* | CF231 |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Porphyromonadaceae* | *Paludibacter* |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* | *ruminicola* |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |  |
| *Bacteroidetes* | *Bacteroidia* | *Bacteroidales* | *Prevotellaceae* | *Prevotella* |  |
| *Firmicutes* | *Clostridia* | *Clostridiales* | *Clostridiaceae* |  |  |
| *Firmicutes* | *Clostridia* | *Clostridiales* | *Ruminococcaceae* | *Ruminococcus* |  |
| *Firmicutes* | *Clostridia* | *Clostridiales* | *Ruminococcaceae* |  |  |
| *Firmicutes* | *Clostridia* | *Clostridiales* | *Ruminococcaceae* |  |  |
| *Firmicutes* | *Clostridia* | *Clostridiales* | *Ruminococcaceae* |  |  |
| *Firmicutes* | *Clostridia* | *Clostridiales* | *Ruminococcaceae* |  |  |
| *Firmicutes* | *Clostridia* | *Clostridiales* | *Veillonellaceae* | *Succiniclasticum* |  |
| *Firmicutes* | *Clostridia* | *Clostridiales* |  |  |  |
| *Lentisphaerae* | *Lentisphaeria* | *Victivallales* | *Victivallaceae* |  |  |
| *Lentisphaerae* | *Lentisphaeria* | *Victivallales* | *Victivallaceae* |  |  |
| *Lentisphaerae* | *Lentisphaeria* | *Victivallales* | *Victivallaceae* |  |  |
| *Proteobacteria* | *Alphaproteobacteria* |  |  |  |  |

1OTUs = operational taxonomic units; taxonomic classification is given at the greatest taxonomic resolution based on RDP bootstrap score > 0.8.