**Influence of low FODMAP and gluten-free diets on gut microbiota alternations and symptom severity in Iranian patients with irritable bowel syndrome; a clinical trial study**

Running title: Influence of low FODMAP & gluten-free on IBS gut microbiota

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| **Target taxon** | **Primer name** | **Primer sequence (5ꞌ-3ꞌ)** | **Amplicon length (bp)** | **Reference** |
| Eubacteria | UniF340UniR514 | ACTCCTACGGGAGGCAGCAGTATTACCGCGGCTGCTGGC | ~ 200 bp | [24] |
| Lactobacillus spp. | Lacto-FLacto-R | TGGATGCCTTGGCACTAGAAATCTCCGGATCAAAGCTTAC | ~ 89 bp | [25] |
| Bifidobacterium spp. | Bifid-FBifid-R | GGGATGCTGGTGTGGAAGAGTGCTCGCGTCCACTATCCAG | ~ 200 bp | [25] |
| Bacteroidetes | Bac960-FBac1100-R | GTTTAATTCGATGATACGCGTTAAGCCGACACCTCACG | ~ 137 bp | [26] |
| Firmicutes | Firm934-FFirm1060-R | GGAG**Y**ATGTGGTTTAATTCGAAGCAAGCTGACGACAACCATGCAC | ~ 129 bp | [26] |
| Actinobacteria | Actino-FActino-R | GCG**K**CCTATCAGCTTGTTGGTGCCGCCTACGAGC**Y**CTTTACGC | ~ 333 bp | [27] |
| Enterobacteriaceae | Enterob-FEnterob-R | CGTCGCAAGM**M**CAAAGAGTTACCGCGGCTGCTGGCAC | ~ 351 bp | [27] |
| Streptococcus spp. | Str1-FStr2-R | GTACAGTTGCTTCAGGACGTGTTCGATTTCRTCACGTTG | ~ 195 bp | [28] |
| Ruminococcus | Rflbr730FClep866mR§ | GGCGGCYT**R**CTGGGCTTTGCAGGTGGAT**W**ACTTATTGTGTTAA | ~ 157 bp | [29] |

Table S1. The taxon-specific primers used in this study.