**Description of Additional Supplementary Files**

File Name: Supplementary Data 1  
Description: Primer Sequences

File Name: Supplementary Data 2  
Description: Differential Gene Expression (adipose tissue)

File Name: Supplementary Data 3  
Description: String Network Analysis (adipose tissue)

File Name: Supplementary Data 4  
Description: Gene Set Enrichment Analysis (adipose tissue)

File Name: Supplementary Data 5  
Description: DESeq results (microbiome)