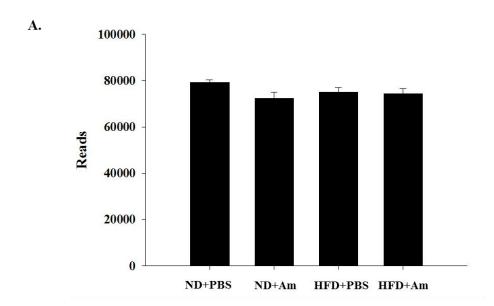
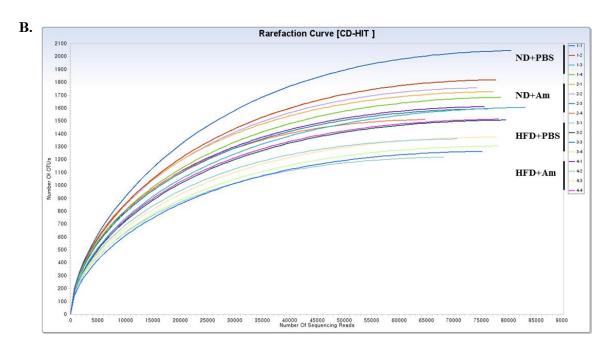
1 Supplemental Material

- 2 Figure S1. A. Valid reads B. Rarefaction analysis of MiSeq sequencing reads of the
- 3 **16S rRNA gene in the different samples.** ND + PBS, 10% fat diet with phosphate
- 4 buffered saline (PBS); ND + Am, 10% fat diet with Akkermansia muciniphila (Am); HFD
- 5 + PBS, 45% fat diet with PBS; and HFD + Am, 45% fat diet with Am.





- 8 Figure S2. A. Composition of gut microbiome in ND+PBS (black closed circle),
- 9 ND+Am (black open circle), HFD+PBS (gray closed circle), and HFD+Am (gray open
- 10 circle) B. Composition of gut microbiome in phylum level. C. Composition of gut
- microbiome in genus level. ND + PBS, 10% fat diet with phosphate buffered saline (PBS);
- 12 ND + Am, 10% fat diet with Akkermansia muciniphila (Am); HFD + PBS, 45% fat diet
- 13 with PBS; and HFD + Am, 45% fat diet with Am.

