Supplementary Figure 1. Phylogenetic tree of Unief90_A0A139TME1 homologues and the genomic analysis of *Akkermansia muciniphila* strain YL44. (**A**) Phylogenetic tree of Uniref90_A0A139TME1 homologues, built with the sequences from NCBI non-redundant protein with cut off of 40% identity and 70% coverage. Stick in red indicates the Uniref90_A0A139TME1 itself. (**B**) The genes flanking OGA gene in the genome of *A.muciniphila* strain YL44. (**C-H**) The GC content (**C**), GC3s content (**D**), CAI (**E**), CBI (**F**), Fop (**G**) and ENC value (**H**) of all genes encoding by *Akkermansia muciniphila* strain YL44. (**I**) Lineage probability index (LPI) score histogram for proteins encoded in the *A.muciniphila* strain YL44.

