

## **Description of Additional Supplementary Files**

### **File name: Supplementary Data 1**

**Description:** Summary of Mycoplasma genomes for comparative genomics.

### **File name: Supplementary Data 2**

**Description:** Summary of RAST annotation of Mycoplasma genomes.

### **File name: Supplementary Data 3**

**Description:** Summary of gene clusters in pangenome, including concatenated protein sequences.

### **File name: Supplementary Data 4**

**Description:** Summary of Enrichment Analysis of KEGG annotations between intestinal and non-intestinal related Mycoplasma.