**Table S8**.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Mapped sequence (log 10)** |  | **Mapped sequence removed tRNA and rRNA (log 10)** |
| **Kingdom** | **Phylum** | **Normal** | **Colorectal cancer** | **Ulcerative colitis**  |  | **Normal** | **Colorectal cancer** | **Ulcerative colitis**  |
| **Bacteria** | *Proteobacteria* | 4.62 | 4.69 | 4.59 |   | 4.22 | 4.29 | 4.22 |
| *Bacteroidetes* | 4.14 | 4.18 | 4.17 |  | 3.74 | 3.79 | 3.77 |
| *Firmicutes* | 3.76 | 3.84 | 3.77 |   | 3.66 | 3.75 | 3.68 |
| *Planctomycetes* | 3.63 | 3.63 | 3.62 |  | 2.29 | 2.28 | 2.26 |
| *Actinobacteria* | 3.42 | 3.49 | 3.44 |   | 3.27 | 3.34 | 3.28 |
| *Cyanobacteria* | 3.18 | 3.37 | 3.23 |  | 1.81 | 2.07 | 1.9 |
| *Acidobacteria* | 2.92 | 2.94 | 2.93 |   | 1.87 | 1.89 | 1.84 |
| *Verrucomicrobia* | 2.91 | 2.94 | 2.92 |  | 1.76 | 1.81 | 1.78 |
| *Synergistetes* | 2.67 | 2.71 | 2.69 |   | 2.64 | 2.68 | 2.66 |
| *Spirochaetes* | 2.55 | 2.62 | 2.63 |  | 2.31 | 2.38 | 2.39 |
| *Fusobacteria* | 2.51 | 2.55 | 2.52 |   | 2.48 | 2.51 | 2.48 |
| *Chloroflexi* | 2.37 | 2.45 | 2.44 |  |  |  |  |
| *Deferribacteres* | 2.23 | 2.31 | 2.3 |   |   |   |   |
| *Fibrobacteres* | 2.18 | 2.27 | 2.33 |  |  |  |  |
| *Deinococcus-Thermus* | 2.18 | 2.27 | 2.26 |   |   |   |   |
| *Elusimicrobia* | 2.15 | 2.21 | 2.16 |  |  |  |  |
| *Nitrospirae* | 2.16 | 2.18 | 2.17 |   |   |   |   |
| *Tenericutes* | 2.11 | 2.2 | 2.15 |  |  |  |  |
| *Gemmatimonadetes* | 2.01 | 2.09 | 2.1 |   | 1.69 | 1.79 | 1.8 |
| *Chlamydiae* | 1.9 | 1.95 | 1.99 |  | 1.42 | 1.47 | 1.53 |
| *Aquificae* | 1.88 | 1.95 | 1.95 |   |   |   |   |
| *Thermotogae* | 1.87 | 1.95 | 1.95 |  | 1.16 | 1.21 | 1.26 |
| *Chlorobi* | 1.86 | 1.94 | 1.94 |   |   |   |   |
| *Dictyoglomi* | 1.87 | 1.92 | 1.91 |  |  |  |  |
| *Armatimonadetes* | 1.87 | 1.88 | 1.9 |   |   |   |   |
| *Thermodesulfobacteria* | 1.48 | 1.6 | 1.58 |  |  |  |  |
| *Chrysiogenetes* | 1.08 | 1.14 | 1.07 |   |   |   |   |
| *Lentisphaerae* | 1.03 |   | 1.07 |   |   |   |   |
| **Archaea** | *Euryarchaeota* | 1.68 | 1.79 | 1.8 |   | 1.19 | 1.34 | 1.3 |
| *Crenarchaeota* |   | 1.33 | 1.16 |   |   |   |   |
| **Fungi** | *Ascomycota* | 5.16 | 5.13 | 5.13 |   | 4.72 | 4.7 | 4.69 |
| *Basidiomycota* | 4.3 | 4.27 | 4.29 |  | 3.68 | 3.65 | 3.67 |
| *Glomeromycota* | 3.95 | 3.96 | 3.95 |   | 2.51 | 2.5 | 2.54 |
| *Chytridiomycota* | 3.58 | 3.55 | 3.51 |  | 2.92 | 2.79 | 2.78 |
| *Blastocladiomycota* | 2.57 | 2.72 | 2.64 |   | 1.87 | 2.26 | 1.92 |
| *Neocallimastigomycota* | 2.32 | 2.32 | 2.52 |  | 1.08 | 1.18 | 1.12 |
| *Microsporidia* | 1.57 | 1.4 | 1.41 |   |   |   |   |