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|  | **Two Epoch** | | | **One Epoch** |
| **Species** | Nu | Tau | Likelihood | Likelihood |
| A. finegoldii (GG) | 0.0536736 | 0.192409 | -51.2531 | -226.6443517359121 |
| A. finegoldii (Complete) | 0.590248 | 0.125047 | -191.163 |  |
| A. muciniphila (GG) | 0.412214 | 0.184787 | -35.0968 | -394.4640223844726 |
| A. muciniphila (Complete) | 0.330587 | 0.289674 | -79.9993 |  |
| A. onderdonkii (GG) | 0.00077792 | 0.00578665 | -35.7025 | -367.26556546208485 |
| A. onderdonkii (Complete) | 0.00111624 | 0.00564187 | -455.471 |  |
| A. putredinis (GG) | 9.61159 | 3.63098 | -36.1261 | -863.2523605907211 |
| A. putredinis (Complete) | 0.000971892 | 0.00682997 | -1868.5 |  |
| A. shahii (GG) | 18.7669 | 0.0499848 | -37.2099 | -92.12656956679211 |
| A. shahii (Complete) | 34.9209 | 172.577 | -64.8001 |  |
| B. bacterium (GG) | 0.685901 | 0.116485 | -47.2415 | -83.95198106999351 |
| B. bacterium (Complete) | 0.464414 | 0.0667457 | -78.0369 |  |
| B. caccae (GG) | 1.66655 | 0.0717302 | -32.5175 | -57.22309009287301 |
| B. caccae (Complete) | 296.16 | 709.811 | -63.3465 |  |
| B. cellulosilyticus (GG) | 2.66512 | 1.39504 | -35.0243 | -605.3428693350315 |
| B. cellulosilyticus (Complete) | 1.46129 | 0.475054 | -103.653 |  |
| B. fragilis (GG) | 2.92751 | 0.288772 | -35.0196 | -621.4516522293925 |
| B. fragilis (Complete) | 1.88251 | 0.195185 | -104.782 |  |
| B. intestinihominis (GG) | 0.540065 | 0.050769 | -47.1256 | -159.78453733334754 |
| B. intestinihominis (Complete) |  |  |  |  |
| B. ovatus (GG) | 3.52144 | 0.0446575 | -30.6202 | -57.29119777634651 |
| B. ovatus (Complete) | 0.000299311 | 8.73668e-06 | -693.599 |  |
| B. thetaiotaomicron (GG) | 0.0427133 | 0.22371 | -47.1437 | -79.68659050254428 |
| B. thetaiotaomicron (Complete) | 0.770457 | 0.0497167 | -208.589 |  |
| B. uniformis (GG) | 1.74006 | 1.18761 | -30.3353 | -66.4434523929051 |
| B. uniformis (Complete) | 394.013 | 837.865 | -91.9854 |  |
| B. vulgatus (GG) | 1.13481 | 0.0430459 | -33.5302 | -34.81032024811884 |
| B. vulgatus (Complete) | 0.895188 | 0.506591 | -63.9509 |  |
| B. xylanisolvens (GG) | 0.265088 | 0.876258 | -32.9757 | -37.87379244237218 |
| B. xylanisolvens (Complete) | 0.00115518 | 2.77695e-05 | -80.913 |  |
| D. invisus (GG) | 18.4977 | 0.0217412 | -37.1637 | -95.18332533145986 |
| D. invisus (Complete) | 0.00272822 | 0.0251103 | -98.4336 |  |
| E. eligens (GG) | 55.5916 | 115.696 | -36.5358 | -61.91821099785466 |
| E. eligens (Complete) | 0.00215738 | 0.015655 | -209.089 |  |
| E. rectale (GG) | 2.16442 | 1.87647 | -35.8725 | -238.73120577496502 |
| E. rectale (Complete) | 1.23419 | 0.238825 | -93.1012 |  |
| F. prausnitzii (GG) | 1.06848 | 0.243666 | -35.9031 | -40.18847936906059 |
| F. prausnitzii (Complete) | 184.624 | 578.327 | -216.439 |  |
| Oscillibacter sp. (GG) | 5.09949 | 0.0852462 | -36.7551 | -245.37306153640384 |
| Oscillibacter sp. (Complete) | 0.000286308 | 0.00292652 | -209.499 |  |
| O. splanchnicus (GG) | 2.43161 | 7.38277 | -31.8308 | -32.427532235250965 |
| O. splanchnicus (Complete) | 0.607248 | 0.0315866 | -65.1321 |  |
| P. copri (GG) | 4.4606 | 0.315347 | -78.4052 | -1494.2754772140547 |
| P. copri (Complete) | 27.1938 | 0.0600029 | -849.325 |  |
| P. distasonis (GG) | 0.807558 | 0.136155 | -41.1449 | -68.50672337859214 |
| P. distasonis (Complete) | 374.228 | 707.204 | -387.885 |  |
| P. merdae (GG) | 0.737274 | 0.391528 | -35.3025 | -73.68111715850773 |
| P. merdae (Complete) | 0.778422 | 0.0454067 | -167.828 |  |
| Phascolarcto. sp. (GG) | 2.57614 | 0.355933 | -34.4246 | -393.170544586656 |
| Phascolarcto. sp. (Complete) | 3.13313 | 0.0997377 | -159.181 |  |
| R. bicirculans (GG) | 377.278 | 307.728 | -38.5849 | -1650.5914319833837 |
| R. bicirculans (Complete) | 2.15694 | 0.448367 | -242.274 |  |
| R. bromii (GG) | 2.96492 | 1.46003 | -34.8367 | -658.0589498106256 |
| R. bromii (Complete) | 1.92731 | 0.279787 | -220.071 |  |