|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 5. Results of maximum likelihood analyses. Analyses are distinguished by combination of alignment and outgroup(s) used. Summary statistics shown are: the final log likelihood of each analysis; their AIC, AICc and BIC scores; the total number of free parameters in the analysis; the alignment size (total number of character traits); whether or not trees were able to be successfully rooted in the maximum likelihood tree search and bootstrap analyses; and whether or not bootstraps converged in the bootstopping test. | Bootstrap Convergence | Yes | -- | -- | No | No | -- | Yes |
| Bootstrap Trees Rooted | Not Rooted | -- | -- | Rooted | Rooted | -- | Rooted |
| Search Trees Rooted | Rooted | Rooted | -- | Rooted | Rooted | -- | Rooted |
| Alignment Size | 70 | 32 | -- | 18 | 32 | -- | 18 |
| Free Parameters (model + branch length) | 69 | 63 | -- | 63 | 63 | -- | 63 |
| BIC Score | 5382.711 | 1491.182 | -- | 1461.358 | 1472.443 | -- | 1446.798 |
| AICc Score | 14887.56 | 9462.841 | -- | 9469.264 | 9444.102 | -- | 9454.704 |
| AIC Score | 5227.564 | 1398.841 | -- | 1405.264 | 1380.102 | -- | 1390.704 |
| Final Log Likelihood | -2544.782 | -636.4203 | -- | -639.6321 | -627.0508 | -- | -632.3522 |
| Outgroup(s) Used | Zerg\_OG Tyranids\_OG Xenomorphs\_OG | Zerg\_OG | Zerg\_OG | Zerg\_OG | Protoss\_OG | Protoss\_OG | Protoss\_OG |
| Analysis Dataset | Concatenated Alignment | Physiological Alignment | Behavioral Alignment | Archetypal Alignment | Physiological Alignment | Behavioral Alignment | Archetypal Alignment |