# Supplemental Table S2 – ANOVA results

One-way analysis of variance was used to test for differences between clades of living and extinct carnivorans in ankle gear ratio. Overall results were significant at *P* < 0.001. Post-hoc pairwise tests were performed using Tukey’s honestly significant difference test.

ANOVA Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | DF | SS | MSS | F-Ratio | P-Value |
| Model | 15 | 0.6621 | 0.0441 | 16.9977 | < 0.001 |
| Error | 196 | 0.5090 | 0.0026 |  |  |
| Total | 211 | 1.1711 |  |  |  |

Pairwise test results.

|  |
| --- |
| Significant pairwise tests (Tukey) |
| Amphicyonidae | Caninae |
| Amphicyonidae | Herpestidae |
| Barbourofelidae | Herpestidae |
| Borophaginae | Herpestidae |
| Borophaginae | Ursidae |
| Caninae | Mustelidae |
| Caninae | Mustelinae |
| Caninae | Ursidae |
| Felinae  | Amphicyonidae |
| Felinae  | Barbourofelidae |
| Felinae  | Borophaginae |
| Felinae  | Caninae |
| Felinae | Machairodontinae |
| Felinae | Mephitidae |
| Felinae | Mustelidae |
| Felinae | Mustelinae |
| Felinae | Pantherinae |
| Felinae | Procyonidae |
| Felinae | Ursidae |
| Felinae | Viverrinae |
| Herpestidae | Mephitidae |
| Herpestidae | Mustelidae |
| Herpestidae | Mustelinae |
| Herpestidae | Procyonidae |
| Herpestidae | Ursidae |
| Hyaenidae | Ursidae |
| Machairodontinae | Mustelidae |
| Machairodontinae | Mustelinae |
| Machairodontinae | Ursidae |
| Pantherinae | Ursidae |
| Procyonidae | Ursidae |
| Ursidae | Viverrinae |