Table S1: **A complete list of fossil specimens used in this study.**

|  |  |  |
| --- | --- | --- |
| **ID** | **Specimen Type** | **Location** |
| QM F57240 | M1, right | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57241 | M1, left, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57242 | M1, right | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57243 | M1, right | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57244 | M1, right, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57245 | M1, left | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57246 | Upper molar row, right, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57247 | M2, left, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57248 | M1 and M2, right, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57249 | M1 and M2, right, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57250 | M1 and M2, right | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57251 | M1 and M2, right | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57252 | M1 and M2, left | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57253 | Upper molar row, right, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57254 | M1, left | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57255 | M1, left, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57256 | M1 and M2, right, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57257 | M1 and M2, left, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57258 | M1 and M2, left, zygomatic plate | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57259 | Upper molar row, right, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57260 | Upper molar row, right | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57261 | M1, right | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57262 | Upper molar row, right | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57263 | M1 and M2, right | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57264 | M1, left, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57265 | M1, right, partial maxillary | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57283 | Upper molar row, left | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F39958 | Upper molar row, left | Rackham’s Roost Site, Riversleigh WHA, QLD |
| QM F57266 | M1, right | Site 5C, Floraville Station, QLD |
| QM F57267 | M1, left | Site 5C, Floraville Station, QLD |
| QM F57268 | M1, left | Site 5C, Floraville Station, QLD |
| QM F57269 | M1, left | Site 5C, Floraville Station, QLD |
| QM F57270 | M1, right | Site 5C, Floraville Station, QLD |
| QM F57271 | M1, left | Site 5C, Floraville Station, QLD |
| QM F57272 | M1, right | Site 5C, Floraville Station, QLD |
| QM F57273 | M2, left | Site 5C, Floraville Station, QLD |
| QM F57274 | M1, left | Site 5C, Floraville Station, QLD |
| QM F57275 | M1, left, partial maxillary | Site 5C, Floraville Station, QLD |
| QM F57276 | M1, left, zygomatic plate | Site 5C, Floraville Station, QLD |
| QM F57277 | M1, left | Site 5C, Floraville Station, QLD |
| QM F57278 | M1, right | Site 5C, Floraville Station, QLD |
| QM F57279 | M1, right | Site 5C, Floraville Station, QLD |
| QM F57280 | M1, right | Site 5C, Floraville Station, QLD |
| QM F57281 | M1, right | Site 5C, Floraville Station, QLD |
| QM F57282 | M1, left | Site 5C, Floraville Station, QLD |