**Supplemental data 2**

List of synapomorphies distributed on the strict consensus tree of the unconstrained analysis (ACCTRAN and DELTRAN optimizations)

Heuristic search settings:

Optimality criterion = parsimony

Character-status summary:

Of 426 total characters:

66 characters are of type 'ord' (Wagner)

360 characters are of type 'unord'

All characters have equal weight

18 characters are parsimony-uninformative

Number of parsimony-informative characters = 408

Gaps are treated as "missing"

Multistate taxa interpreted as uncertainty

Starting tree(s) obtained via stepwise addition

Addition sequence: random

Number of replicates = 100

Starting seed = 370901396

Number of trees held at each step during stepwise addition = 1

Branch-swapping algorithm: tree-bisection-reconnection (TBR)

Steepest descent option not in effect

Initial 'MaxTrees' setting = 100 (will be auto-increased by 100)

Branches collapsed (creating polytomies) if maximum branch length is zero

'MulTrees' option in effect

Topological constraints not enforced

Trees are unrooted

Heuristic search completed

Total number of rearrangements tried = 91993124

Score of best tree(s) found = 3392

Number of trees retained = 7

Time used = 43 sec (CPU time = 42.06 sec)

Tree description:

Unrooted tree(s) rooted using outgroup method

Optimality criterion = parsimony

Character-status summary:

Of 426 total characters:

66 characters are of type 'ord' (Wagner)

360 characters are of type 'unord'

All characters have equal weight

18 characters are parsimony-uninformative

Number of parsimony-informative characters = 408

Gaps are treated as "missing"

Multistate taxa interpreted as uncertainty

Character-state optimization: Accelerated transformation (ACCTRAN)

**Strict consensus tree** (rooted using default outgroup)

Tree length = 3676

Consistency index (CI) = 0.1662

Homoplasy index (HI) = 0.8338

CI excluding uninformative characters = 0.1619

HI excluding uninformative characters = 0.8381

Retention index (RI) = 0.4531

Rescaled consistency index (RC) = 0.0753

**LIST OF SYNAPOMORPHIES, OPT=ACCTRAN**

/------------------------------------------------------------- Vincelestes

| /-------- Deltatheridium

+---------------------------------------------------74 /---- Mayulestes

| \--73---- Pucadelphys

124 /---- Eomaia

| /---------------------------------------------------75---- Prokennalestes

| | /----------------------------------------------------- Cimolestes

\-123 | /------------------------------------------------- Zhelestes

| | | /-------- Maelestes

\-122 | /-----------------------------------77 /---- Kennalestes

| | | \--76---- Asioryctes

| | | /---- Kulbeckia

\-121 | /-----------------------------------78---- Zalambdalestes

| | | /------------------------------------- Leptictis

| | | +------------------------------------- Protungulatum

| | | +------------------------------------- Diacodexis

| | | +------------------------------------- Pleuraspidotheri

\-120 | | /---- Azygonyx

| | +-------------------------------85---- Trogosus

| | | /---- Dichobune

| | +-------------------------------88---- Acotherulum

| | | /---- Maiorana

| | +-------------------------------91---- Baioconodon

| | | /---- Arctocyonides

| | +-------------------------------92---- Arctocyon

\-119 | /---- Orycteropus

| +------------------------------107---- Rhynchocyon

| | /-------- Vulpavus

| +---------------------------87 /---- Miacis

| | \--86---- Cynodictis

| | /-------- Hyopsodus

| +---------------------------90 /---- Meniscotherium

| | \--89---- Phenacodus

| | /-------- Miguelsoria

| +--------------------------117 /---- Proterotherium

| | \-116---- Macrauchenia

| | /---- Chaetophractus

\-118 /-113---- Dasypus

+--------------------------115 /---- Bradypus

| \-114---- Tamandua

| /-------------------- Didelphodus

| | /---- Bemalambda

+---------------84 /----------82---- Harpyodus

| \--83 /------------ Alcidedorbignya

| \--81 /-------- Pantolambda

| \--80 /---- Coryphodon

| \--79---- Carodnia

| /---- Trigonostylops

| /---------111---- Astrapotherium

| | /------------ Colbertia

+------------------112 +------------ Plesiotypotheriu

| | +------------ Protypotherium

| \-110------------ Adinotherium

| +------------ Notostylops

| | /-------- Pyrotherium

| \-109 /---- Procavia

| \-108---- Moeritherium

| /------------ Eoryctes

| /------------------105 /-------- Solenodon

| | \-104 /---- Potamogale

| | \-103---- Tenrec

\-106 /---------------------------- Blarina

| | /------------------------ Erinaceus

\--102 | /-------------------- Ptilocercus

\-101 | /-------- Plesiadapis

\-100 /------94 /---- Northarctus

| | \--93---- Adapis

\--99 /---- Tribosphenomys

| /------95---- Paramys

\--98 /-------- Mimotona

\--97 /---- Rhombomylus

\--96---- Gomphos

Apomorphy lists:

Branch Character Steps CI Change

-------------------------------------------------------------------------------

node\_124 --> Vincelestes 3 (Postcanine loc) 2 0.150 1 ==> 3

8 (Upper incisors) 1 0.208 0 --> 1

28 (Upper canine ) 1 0.125 1 ==> 0

33 (Premolars) 1 0.188 2 ==> 3

38 (Shape of the ) 1 0.125 0 ==> 1

50 (Ult upper pre) 1 0.167 0 ==> 1

71 (Molar cusp fo) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 0

73 (Upper molar s) 1 0.188 1 ==> 0

78 (Stylar cusp A) 1 0.250 0 ==> 2

81 (Stylar cusp D) 1 0.200 0 --> 1

82 (Stylar cusp E) 1 0.222 2 ==> 0

83 ((Pre)paracing) 1 0.167 2 ==> 0

84 (Deep ectoflex) 1 0.200 0 --> 2

85 (Metacone size) 1 0.133 0 --> 1

88 (Preparacrista) 1 0.167 0 --> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

95 (Postprotocris) 1 0.154 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

101 (Protocone) 1 1.000 2 ==> 1

111 (Last upper m) 1 0.333 1 ==> 0

123 (Talonid) 1 0.333 1 ==> 0

125 (Trigonid hei) 1 0.100 0 ==> 1

126 (Trigonid to ) 1 0.200 1 ==> 0

129 (Hypoconulid ) 1 0.167 1 ==> 0

130 (Entoconid) 1 0.111 1 ==> 0

137 (Anteriormost) 2 0.120 1 ==> 3

139 (Depth of man) 1 0.100 0 ==> 1

147 (Labial mandi) 1 0.333 0 --> 1

152 (Angular proc) 1 0.200 0 --> 2

155 (Condylar pro) 1 0.143 0 --> 1

157 (Condyle posi) 1 0.087 1 ==> 2

159 (Mandibular s) 1 0.118 1 ==> 0

165 (Premaxilla, ) 1 0.333 1 ==> 0

168 (Paracanine f) 1 0.333 0 --> 2

179 (Nasal forami) 1 0.200 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 0

231 (Optic forame) 1 1.000 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 2

243 (Anterior lam) 1 0.500 1 ==> 0

244 (Squama of sq) 1 1.000 1 ==> 0

246 (Choanae) 1 0.091 1 ==> 0

249 (Pterygopalat) 1 1.000 1 ==> 0

257 (Exit for max) 1 0.500 1 ==> 0

258 (Number of ma) 1 0.500 1 ==> 0

264 (Position of ) 1 1.000 1 ==> 0

270 (Postglenoid ) 1 0.133 1 ==> 0

271 (Postglenoid ) 1 0.143 1 ==> 0

275 (Suprameatal ) 1 0.111 1 ==> 0

291 (Coiling of c) 1 1.000 1 ==> 0

292 (Pars cochlea) 1 1.000 1 ==> 0

293 (Promontorium) 1 0.071 1 ==> 0

299 (Prootic cana) 1 1.000 2 ==> 0

300 (Lateral flan) 1 1.000 1 ==> 0

340 (Roof of exte) 1 0.500 1 ==> 0

347 (Wall separat) 1 0.250 2 ==> 1

349 (Subarcuate f) 2 0.105 0 ==> 2

353 (Mastoid fora) 1 0.125 1 ==> 0

355 (Dorsal margi) 1 0.500 1 ==> 0

358 (Atlas neural) 1 0.500 1 ==> 0

362 (Axis anterio) 1 0.286 0 ==> 2

364 (C7 (or last)) 1 0.333 1 ==> 0

374 (Greater tube) 1 0.111 1 ==> 0

380 (Ulnar articu) 1 1.000 1 ==> 0

381 (Radial artic) 1 1.000 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 0

403 (Astragalus, ) 1 0.214 1 ==> 0

409 (Astragalar m) 1 0.091 1 ==> 0

411 (Astragalar h) 1 0.200 1 ==> 0

node\_124 --> node\_74 25 (Staggered low) 1 1.000 0 ==> 1

52 (p1 orientatio) 1 0.500 0 --> 1

66 (Molars) 1 0.667 1 ==> 0

74 (Metastylar an) 1 0.158 0 ==> 1

84 (Deep ectoflex) 1 0.200 0 --> 1

92 (Postmetacrist) 1 0.125 0 --> 1

98 (Paraconule) 1 0.105 0 --> 2

117 (Paraconid on) 1 0.077 0 ==> 1

138 (Posteriormos) 1 0.111 2 ==> 3

148 (Condyloid cr) 1 0.100 1 ==> 0

150 (Lower jaw an) 1 1.000 0 ==> 1

152 (Angular proc) 1 0.200 0 --> 3

156 (Condyle shap) 1 0.133 0 ==> 1

162 ("Coronoid" f) 1 0.500 0 --> 1

168 (Paracanine f) 1 0.333 0 --> 1

184 (Facial proce) 1 0.067 0 --> 1

186 (Lacrimal for) 1 0.125 1 ==> 0

191 (Premaxilla, ) 1 0.143 0 ==> 1

233 (Orbitospheno) 1 0.182 0 --> 2

235 (Orbitotempor) 1 0.125 0 --> 1

245 (Foramina for) 1 0.333 0 --> 2

250 (Midline cres) 1 0.100 1 --> 0

259 (Foramen oval) 1 0.600 0 --> 1

260 (Foramen oval) 1 0.182 0 --> 1

266 (Glenoid foss) 1 0.364 0 ==> 1

279 (Cavum epipte) 1 0.200 0 --> 1

285 (Course of in) 1 0.143 0 --> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

307 (Medial proce) 1 0.250 0 --> 1

309 (Epitympanic ) 1 0.250 0 --> 1

315 (Foramen for ) 1 0.143 0 ==> 2

317 (Ascending ca) 1 0.286 0 ==> 2

323 (Mastoid proc) 1 0.133 0 --> 1

328 (Inferior pet) 1 0.300 0 --> 1

330 (Jugular fora) 1 0.111 0 ==> 1

333 (Hypoglossal ) 1 0.143 0 --> 1

346 (Position of ) 1 0.667 0 ==> 1

357 (Atlantal for) 1 0.200 0 --> 1

370 (Infraspinous) 1 0.333 0 --> 1

371 (Suprascapula) 1 0.200 0 --> 1

376 (Supinator ri) 1 0.071 0 --> 1

392 (Greater troc) 1 0.083 1 --> 2

407 (Sustentacula) 1 0.083 0 --> 1

421 (Calcaneal pl) 1 0.143 0 --> 1

node\_74 --> Deltatheridium 8 (Upper incisors) 1 0.208 0 --> 1

54 (p1-p2 diastem) 1 0.083 0 ==> 1

93 (Postmetacrist) 1 0.500 1 ==> 0

116 (Paraconid he) 1 0.250 1 ==> 2

203 (Posterior ed) 1 0.118 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 0

219 (Maxilla in t) 1 0.111 0 ==> 1

283 (Medial flang) 1 0.125 0 --> 1

301 (Bony shelf l) 1 0.095 1 ==> 0

node\_74 --> node\_73 9 (Lower incisors) 1 0.190 1 ==> 0

35 (P1 procumbenc) 1 0.250 0 ==> 1

36 (P1 roots) 1 0.154 0 --> 1

78 (Stylar cusp A) 1 0.250 0 ==> 1

80 (Stylar cusp C) 1 0.091 0 ==> 1

81 (Stylar cusp D) 1 0.200 0 --> 1

85 (Metacone size) 2 0.133 0 ==> 2

86 (Metacone posi) 1 0.143 1 ==> 2

87 (Paracone and ) 1 0.143 0 ==> 1

102 (Protocone an) 1 0.091 0 ==> 1

103 (Procumbent p) 1 0.125 0 ==> 1

111 (Last upper m) 1 0.333 1 --> 2

118 (Mesiolingual) 1 0.333 0 ==> 1

120 (Trigonid con) 1 0.105 0 --> 1

122 (Protocristid) 1 0.083 0 ==> 1

124 (Cristid obli) 1 0.190 0 --> 2

127 (Talonid widt) 1 0.125 0 --> 1

128 (Hypoconulid) 1 0.125 1 ==> 3

134 (Labial postc) 1 0.077 0 ==> 1

149 (Posterior sh) 1 1.000 0 ==> 1

155 (Condylar pro) 1 0.143 0 --> 1

166 (Premaxilla, ) 1 0.222 0 --> 1

170 (Exit(s) of i) 1 0.400 0 --> 1

196 (Anterior ext) 1 0.143 1 ==> 0

197 (Palatal expa) 1 0.118 1 ==> 0

198 (Postpalatine) 1 0.071 0 --> 1

199 (Posterior na) 1 0.083 0 ==> 1

216 (Groove conne) 1 0.091 0 --> 1

269 (Glenoid proc) 1 1.000 0 ==> 1

287 (Deep groove ) 1 1.000 0 ==> 1

329 (Jugular fora) 1 0.111 0 ==> 1

350 (Internal aco) 1 0.125 0 --> 1

416 (Ectal (post ) 1 0.154 0 --> 1

node\_73 --> Mayulestes 11 (Upper incisor) 1 0.176 0 ==> 1

70 (Size (area) o) 1 0.105 1 ==> 2

169 (Paracanine f) 1 0.500 0 ==> 1

184 (Facial proce) 1 0.067 1 --> 0

245 (Foramina for) 1 0.333 2 --> 1

298 (Prootic cana) 1 0.250 0 ==> 1

308 (Hypotympanic) 1 0.214 0 ==> 1

360 (Axis) 1 0.500 0 ==> 1

375 (Deltopectora) 1 0.083 0 ==> 1

389 (Epipubic bon) 1 0.500 0 ==> 1

397 (Patellar fac) 1 0.154 0 --> 1

node\_73 --> Pucadelphys 79 (Stylar cusp B) 1 0.182 1 ==> 2

83 ((Pre)paracing) 1 0.167 2 ==> 1

91 (Centrocrista) 1 0.143 0 ==> 1

92 (Postmetacrist) 1 0.125 1 --> 0

97 (Labial edges ) 1 0.087 1 ==> 2

105 (Protocone he) 1 0.250 0 ==> 1

116 (Paraconid he) 1 0.250 1 ==> 0

121 (Protoconid h) 1 0.167 0 ==> 1

124 (Cristid obli) 1 0.190 2 --> 3

127 (Talonid widt) 1 0.125 1 ==> 2

130 (Entoconid) 1 0.111 1 ==> 2

180 (Fronto-maxil) 1 0.500 0 ==> 1

209 (Zygomatic ar) 1 0.125 0 ==> 1

213 (Molar roots ) 1 0.083 0 ==> 1

224 (Foramen for ) 1 0.100 0 --> 1

318 (Stapedius fo) 1 0.250 0 ==> 1

323 (Mastoid proc) 1 0.133 1 --> 0

422 (Tuber calcis) 1 0.125 0 ==> 1

node\_124 --> node\_123 4 (Upper diastema) 1 0.125 0 --> 1

33 (Premolars) 1 0.188 2 ==> 1

34 (Tall, trencha) 1 0.250 0 ==> 1

39 (Penult upper ) 1 0.125 0 ==> 1

44 (Ult upper pre) 1 0.182 0 ==> 1

46 (Ult upper pre) 1 0.167 0 ==> 1

60 (Ult lower pre) 1 0.069 0 --> 1

97 (Labial edges ) 1 0.087 1 ==> 0

98 (Paraconule) 1 0.105 0 --> 1

111 (Last upper m) 1 0.333 1 --> 2

116 (Paraconid he) 1 0.250 1 --> 0

120 (Trigonid con) 1 0.105 0 --> 1

126 (Trigonid to ) 1 0.200 1 ==> 2

127 (Talonid widt) 1 0.125 0 --> 1

157 (Condyle posi) 1 0.087 1 ==> 0

170 (Exit(s) of i) 1 0.400 0 --> 1

182 (Preorbital l) 1 0.083 0 ==> 1

187 (Lacrimal for) 1 0.167 0 --> 1

192 (Incisive for) 1 0.091 1 --> 0

198 (Postpalatine) 1 0.071 0 --> 1

201 (Minor palati) 1 0.500 0 --> 1

209 (Zygomatic ar) 1 0.125 0 ==> 1

212 (Shape of zyg) 1 0.111 1 --> 0

213 (Molar roots ) 1 0.083 0 --> 1

214 (Palatine rea) 1 0.067 0 --> 1

216 (Groove conne) 1 0.091 0 --> 1

224 (Foramen for ) 1 0.100 0 --> 1

233 (Orbitospheno) 1 0.182 0 --> 1

239 (Frontopariet) 1 0.118 0 --> 1

245 (Foramina for) 1 0.333 0 --> 1

253 (Ectopterygoi) 1 0.200 0 --> 2

259 (Foramen oval) 1 0.600 0 --> 3

263 (Posterior bo) 1 0.100 0 --> 1

268 (Glenoid proc) 1 0.182 0 --> 1

277 (Posttympanic) 1 0.200 0 --> 1

279 (Cavum epipte) 1 0.200 0 --> 3

283 (Medial flang) 1 0.125 0 --> 1

310 (Epitympanic ) 1 0.250 0 ==> 1

316 (Foramen for ) 1 0.333 0 --> 1

320 (Stapedial fo) 1 0.333 1 ==> 0

331 (Hypoglossal ) 1 0.222 0 --> 1

336 (Ectotympanic) 1 0.200 0 --> 1

344 (Dorsum sella) 1 0.250 0 --> 1

350 (Internal aco) 1 0.125 0 --> 1

361 (Axis with ex) 1 0.333 0 --> 1

368 (Sacral verte) 2 0.143 0 --> 2

387 (Centrale) 1 0.143 0 --> 1

393 (Size of less) 1 0.100 0 ==> 1

394 (Third trocha) 1 0.167 0 --> 1

397 (Patellar fac) 1 0.154 0 --> 1

398 (Ossified pat) 1 1.000 0 ==> 1

404 (Astragalus, ) 1 0.500 0 --> 1

408 (Astragalar s) 1 0.143 0 --> 1

410 (Astragalar n) 1 0.133 0 ==> 1

416 (Ectal (post ) 2 0.154 0 --> 2

418 (Calcaneal su) 1 1.000 0 ==> 1

425 (Proportions ) 1 0.095 0 --> 1

node\_123 --> node\_75 3 (Postcanine loc) 1 0.150 1 ==> 0

9 (Lower incisors) 1 0.190 1 ==> 0

33 (Premolars) 1 0.188 1 ==> 0

36 (P1 roots) 1 0.154 0 --> 1

37 (P1 posterior ) 1 0.083 0 --> 1

57 (Penult lower ) 1 0.083 0 --> 1

77 (Preparastyle) 1 0.333 0 --> 1

90 (Preparacrista) 1 1.000 1 --> 0

93 (Postmetacrist) 1 0.500 1 --> 0

99 (Metaconule) 1 0.095 2 ==> 1

138 (Posteriormos) 1 0.111 2 ==> 1

142 (Coronoid pro) 1 0.077 0 ==> 1

145 (Portion of t) 1 0.200 0 ==> 1

147 (Labial mandi) 1 0.333 0 --> 1

161 ("Meckel's" s) 1 1.000 1 ==> 0

164 (Mandibular f) 1 1.000 1 ==> 0

299 (Prootic cana) 1 1.000 2 --> 1

301 (Bony shelf l) 1 0.095 1 --> 0

309 (Epitympanic ) 1 0.250 0 --> 1

node\_75 --> Eomaia 54 (p1-p2 diastem) 1 0.083 0 ==> 1

112 (Last upper m) 1 0.200 0 ==> 1

116 (Paraconid he) 1 0.250 0 --> 1

129 (Hypoconulid ) 1 0.167 1 ==> 0

137 (Anteriormost) 1 0.120 1 ==> 2

159 (Mandibular s) 1 0.118 1 ==> 0

node\_75 --> Prokennalestes 30 (Lower canine ) 1 0.250 1 ==> 0

81 (Stylar cusp D) 1 0.200 0 --> 1

82 (Stylar cusp E) 1 0.222 2 ==> 0

node\_123 --> node\_122 20 (Lower anterio) 1 0.077 0 --> 1

24 (Lower post. i) 1 0.067 0 --> 1

43 (Penult upper ) 1 0.300 1 --> 2

45 (Ult upper pre) 1 0.100 0 --> 1

55 (p c size (onl) 1 1.000 0 --> 1

79 (Stylar cusp B) 1 0.182 1 ==> 0

88 (Preparacrista) 1 0.167 0 --> 1

89 (Orientation o) 1 0.100 0 ==> 1

100 (Internal con) 1 0.100 0 ==> 1

103 (Procumbent p) 1 0.125 0 --> 1

105 (Protocone he) 1 0.250 0 ==> 1

106 (Precingulum ) 1 0.111 0 --> 1

124 (Cristid obli) 1 0.190 0 ==> 1

130 (Entoconid) 1 0.111 1 ==> 2

162 ("Coronoid" f) 1 0.500 0 --> 1

163 (Mandibular f) 1 0.150 0 ==> 1

169 (Paracanine f) 1 0.500 0 ==> 1

184 (Facial proce) 1 0.067 0 --> 1

276 (Entoglenoid ) 1 0.133 0 --> 2

285 (Course of in) 1 0.143 0 --> 1

315 (Foramen for ) 1 0.143 0 --> 1

328 (Inferior pet) 1 0.300 0 --> 1

365 (Thoracic ver) 1 0.167 0 --> 1

399 (Articulation) 1 0.500 1 --> 0

412 (Facet on ast) 1 0.067 0 --> 1

node\_122 --> node\_121 47 (Ult upper pre) 1 0.071 0 ==> 1

48 (Ult upper pre) 1 0.091 0 ==> 1

60 (Ult lower pre) 1 0.069 1 --> 0

61 (Ult lower pre) 1 0.154 0 --> 2

62 (Ultimate lowe) 1 0.143 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 2

73 (Upper molar s) 1 0.188 1 ==> 2

74 (Metastylar an) 1 0.158 0 --> 2

76 (Length of the) 1 0.333 1 ==> 2

84 (Deep ectoflex) 1 0.200 0 --> 2

87 (Paracone and ) 1 0.143 0 --> 1

92 (Postmetacrist) 1 0.125 0 --> 2

107 (Postcingulum) 1 0.143 0 --> 2

121 (Protoconid h) 1 0.167 0 ==> 1

122 (Protocristid) 1 0.083 0 ==> 1

125 (Trigonid hei) 1 0.100 0 --> 1

127 (Talonid widt) 1 0.125 1 --> 2

node\_121 --> Zhelestes 3 (Postcanine loc) 1 0.150 1 ==> 0

33 (Premolars) 1 0.188 1 ==> 0

43 (Penult upper ) 1 0.300 2 --> 1

52 (p1 orientatio) 1 0.500 0 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 1

75 (Upper first m) 1 0.200 0 ==> 1

77 (Preparastyle) 1 0.333 0 ==> 1

78 (Stylar cusp A) 1 0.250 0 ==> 1

102 (Protocone an) 1 0.091 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 3

129 (Hypoconulid ) 1 0.167 1 ==> 0

134 (Labial postc) 1 0.077 0 ==> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

303 (tegmen tympa) 1 0.167 0 ==> 1

node\_121 --> node\_120 28 (Upper canine ) 1 0.125 1 --> 0

46 (Ult upper pre) 1 0.167 1 ==> 2

56 (p c roots (on) 1 1.000 0 --> 1

103 (Procumbent p) 1 0.125 1 --> 0

104 (Protocone la) 1 0.111 0 --> 1

120 (Trigonid con) 1 0.105 1 ==> 2

155 (Condylar pro) 1 0.143 0 --> 1

157 (Condyle posi) 2 0.087 0 ==> 2

290 (Stapedial ra) 1 0.167 0 ==> 1

298 (Prootic cana) 1 0.250 0 --> 1

317 (Ascending ca) 1 0.286 0 ==> 1

324 (Posterior bo) 1 0.250 0 ==> 1

325 (Crista inter) 1 0.500 0 --> 1

326 ("Tympanic pr) 1 0.133 0 ==> 1

348 (Crista petro) 1 0.077 0 --> 1

node\_120 --> node\_77 4 (Upper diastema) 1 0.125 1 --> 0

18 (Ultimate uppe) 1 0.400 0 --> 1

54 (p1-p2 diastem) 1 0.083 0 ==> 1

61 (Ult lower pre) 1 0.154 2 --> 0

64 (Length of ult) 1 0.143 0 ==> 1

84 (Deep ectoflex) 1 0.200 2 --> 0

87 (Paracone and ) 1 0.143 1 --> 0

92 (Postmetacrist) 1 0.125 2 --> 0

125 (Trigonid hei) 1 0.100 1 --> 0

127 (Talonid widt) 1 0.125 2 --> 1

145 (Portion of t) 1 0.200 0 ==> 1

185 (Lacrimal tub) 1 0.083 0 --> 1

238 (Frontal leng) 1 0.118 1 ==> 0

251 (Entopterygoi) 1 0.143 1 --> 2

314 (Fossa incudi) 1 0.500 0 ==> 1

332 (Hypoglossal ) 1 0.125 0 ==> 1

340 (Roof of exte) 1 0.500 1 ==> 0

352 (Posttemporal) 1 0.250 0 --> 1

357 (Atlantal for) 1 0.200 0 --> 1

379 (Supratrochle) 1 0.111 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 0

node\_77 --> Maelestes 3 (Postcanine loc) 1 0.150 1 ==> 0

33 (Premolars) 1 0.188 1 ==> 0

40 (Penult upper ) 1 0.154 0 ==> 1

53 (First lower p) 1 0.125 0 ==> 1

62 (Ultimate lowe) 1 0.143 1 ==> 0

75 (Upper first m) 1 0.200 0 ==> 1

83 ((Pre)paracing) 1 0.167 2 ==> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

98 (Paraconule) 1 0.105 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

103 (Procumbent p) 1 0.125 0 --> 1

104 (Protocone la) 1 0.111 1 --> 0

107 (Postcingulum) 1 0.143 2 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 2

131 (Postcristid ) 1 0.167 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 2

138 (Posteriormos) 1 0.111 2 ==> 3

147 (Labial mandi) 1 0.333 0 ==> 1

187 (Lacrimal for) 1 0.167 1 --> 0

194 (Palatal vacu) 1 0.500 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 2

204 (Zygomatic pr) 1 0.200 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 0

212 (Shape of zyg) 1 0.111 0 --> 1

217 (Sphenopalati) 1 0.222 0 ==> 1

252 (Midline rod-) 1 0.333 0 ==> 1

265 (Glenoid foss) 1 0.143 0 ==> 1

276 (Entoglenoid ) 1 0.133 2 --> 0

285 (Course of in) 1 0.143 1 --> 0

298 (Prootic cana) 1 0.250 1 --> 0

301 (Bony shelf l) 1 0.095 1 ==> 0

327 ("Tympanic pr) 1 0.500 0 --> 1

358 (Atlas neural) 1 0.500 1 ==> 0

node\_77 --> node\_76 20 (Lower anterio) 1 0.077 1 --> 0

24 (Lower post. i) 1 0.067 1 --> 0

30 (Lower canine ) 1 0.250 1 ==> 0

36 (P1 roots) 1 0.154 0 ==> 1

73 (Upper molar s) 1 0.188 2 ==> 1

121 (Protoconid h) 1 0.167 1 ==> 0

130 (Entoconid) 1 0.111 2 ==> 1

155 (Condylar pro) 1 0.143 1 --> 0

214 (Palatine rea) 1 0.067 1 --> 0

227 (Postorbital ) 1 0.071 1 ==> 2

239 (Frontopariet) 1 0.118 1 --> 0

272 (Postglenoid ) 1 0.286 0 ==> 1

311 (Fossa incudi) 1 0.125 0 --> 1

323 (Mastoid proc) 1 0.133 0 ==> 2

333 (Hypoglossal ) 1 0.143 0 --> 1

351 (Posttemporal) 1 0.091 0 ==> 1

362 (Axis anterio) 1 0.286 0 --> 1

node\_76 --> Kennalestes 77 (Preparastyle) 1 0.333 0 ==> 1

79 (Stylar cusp B) 1 0.182 0 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

157 (Condyle posi) 2 0.087 2 ==> 0

node\_76 --> Asioryctes 9 (Lower incisors) 1 0.190 1 ==> 0

39 (Penult upper ) 1 0.125 1 ==> 2

45 (Ult upper pre) 1 0.100 1 ==> 2

47 (Ult upper pre) 1 0.071 1 ==> 0

48 (Ult upper pre) 1 0.091 1 ==> 0

57 (Penult lower ) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 0 --> 1

74 (Metastylar an) 1 0.158 2 --> 0

76 (Length of the) 1 0.333 2 ==> 1

106 (Precingulum ) 1 0.111 1 --> 0

107 (Postcingulum) 1 0.143 2 --> 0

137 (Anteriormost) 1 0.120 1 ==> 0

138 (Posteriormos) 1 0.111 2 ==> 1

184 (Facial proce) 1 0.067 1 --> 0

207 (Maxillary-ju) 1 0.100 0 ==> 1

251 (Entopterygoi) 1 0.143 2 --> 1

node\_120 --> node\_119 8 (Upper incisors) 2 0.208 0 ==> 2

29 (Lower canine) 1 0.118 0 --> 1

45 (Ult upper pre) 1 0.100 1 --> 0

60 (Ult lower pre) 1 0.069 0 --> 1

68 (Size (area) o) 1 0.087 0 --> 1

74 (Metastylar an) 1 0.158 2 --> 0

106 (Precingulum ) 1 0.111 1 --> 0

223 (Ethmoid fora) 1 0.111 0 ==> 1

243 (Anterior lam) 1 0.500 1 --> 2

260 (Foramen oval) 1 0.182 0 --> 2

268 (Glenoid proc) 1 0.182 1 --> 2

297 (Tympanic ape) 1 0.231 0 ==> 1

337 (Ant crus ect) 1 0.250 0 ==> 1

349 (Subarcuate f) 1 0.105 0 --> 1

359 (Atlas neural) 1 0.500 0 --> 1

370 (Infraspinous) 1 0.333 0 ==> 1

371 (Suprascapula) 1 0.200 0 ==> 1

403 (Astragalus, ) 1 0.214 1 ==> 2

404 (Astragalus, ) 1 0.500 1 ==> 2

409 (Astragalar m) 1 0.091 1 --> 0

422 (Tuber calcis) 1 0.125 0 ==> 1

424 (Orientation ) 1 0.125 0 ==> 1

node\_119 --> node\_78 10 (Upper anterio) 1 0.111 0 --> 1

11 (Upper incisor) 1 0.176 0 --> 1

12 (Anteriormost ) 1 0.200 0 --> 1

13 (Anteriormost ) 1 0.182 0 --> 2

18 (Ultimate uppe) 1 0.400 0 ==> 2

19 (Lower anterio) 1 0.182 0 ==> 1

21 (Lower anterio) 1 0.200 0 --> 1

22 (Lower anterio) 1 0.231 0 ==> 1

23 (Lower anterio) 1 0.200 0 ==> 1

26 (Shape of inci) 1 0.200 1 --> 2

31 (Lower canine ) 1 0.143 0 --> 1

36 (P1 roots) 1 0.154 0 ==> 1

39 (Penult upper ) 1 0.125 1 ==> 2

40 (Penult upper ) 1 0.154 0 --> 1

41 (Penult upper ) 1 0.100 0 ==> 1

47 (Ult upper pre) 1 0.071 1 ==> 0

48 (Ult upper pre) 1 0.091 1 ==> 0

69 (Size (area) o) 1 0.118 1 --> 0

70 (Size (area) o) 1 0.105 1 --> 0

107 (Postcingulum) 1 0.143 2 --> 0

128 (Hypoconulid) 1 0.125 1 --> 2

138 (Posteriormos) 1 0.111 2 ==> 1

142 (Coronoid pro) 1 0.077 0 --> 1

184 (Facial proce) 1 0.067 1 --> 0

187 (Lacrimal for) 1 0.167 1 --> 0

189 (Translacrima) 1 1.000 0 ==> 1

212 (Shape of zyg) 1 0.111 0 --> 1

217 (Sphenopalati) 1 0.222 0 --> 2

220 (Frontal and ) 1 0.091 0 --> 1

221 (Orbital proc) 1 0.125 0 --> 1

236 (Frontal/alis) 1 0.167 0 --> 1

252 (Midline rod-) 1 0.333 0 --> 1

272 (Postglenoid ) 1 0.286 0 --> 1

313 (Fossa incudi) 1 0.500 0 --> 1

323 (Mastoid proc) 1 0.133 0 --> 2

327 ("Tympanic pr) 1 0.500 0 --> 1

331 (Hypoglossal ) 1 0.222 1 --> 0

345 (Post clinoid) 1 1.000 0 --> 1

361 (Axis with ex) 1 0.333 1 --> 0

363 (Cervical inf) 1 0.143 0 --> 1

390 (Articular su) 1 0.083 0 --> 1

402 (Depth of tro) 1 0.333 0 --> 1

412 (Facet on ast) 1 0.067 1 --> 0

413 (Astragalar c) 1 0.118 0 --> 1

415 (Calcaneal wi) 1 0.111 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 3

423 (Calcaneal fa) 1 0.091 0 --> 1

424 (Orientation ) 1 0.125 1 --> 2

node\_78 --> Kulbeckia 9 (Lower incisors) 1 0.190 1 ==> 0

29 (Lower canine) 1 0.118 1 --> 0

30 (Lower canine ) 1 0.250 1 ==> 0

63 (Ult lower pre) 1 0.105 0 ==> 1

65 (Ultimate lowe) 1 0.091 0 ==> 1

97 (Labial edges ) 1 0.087 0 ==> 1

130 (Entoconid) 1 0.111 2 ==> 1

146 (Anteroventra) 1 0.125 0 ==> 1

204 (Zygomatic pr) 1 0.200 0 ==> 1

301 (Bony shelf l) 1 0.095 1 ==> 0

311 (Fossa incudi) 1 0.125 0 ==> 1

node\_78 --> Zalambdalestes 22 (Lower anterio) 1 0.231 1 ==> 2

45 (Ult upper pre) 1 0.100 0 --> 1

50 (Ult upper pre) 1 0.167 0 ==> 1

68 (Size (area) o) 1 0.087 1 --> 0

83 ((Pre)paracing) 1 0.167 2 ==> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

98 (Paraconule) 1 0.105 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

117 (Paraconid on) 1 0.077 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 3

128 (Hypoconulid) 1 0.125 2 --> 3

131 (Postcristid ) 1 0.167 0 ==> 1

178 (Nasofrontal ) 1 0.143 0 ==> 1

203 (Posterior ed) 1 0.118 0 ==> 1

224 (Foramen for ) 1 0.100 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 0

314 (Fossa incudi) 1 0.500 0 ==> 1

node\_119 --> node\_118 4 (Upper diastema) 1 0.125 1 --> 3

20 (Lower anterio) 1 0.077 1 --> 0

24 (Lower post. i) 1 0.067 1 --> 0

28 (Upper canine ) 1 0.125 0 --> 1

34 (Tall, trencha) 1 0.250 1 ==> 2

38 (Shape of the ) 1 0.125 0 ==> 1

44 (Ult upper pre) 1 0.182 1 ==> 2

53 (First lower p) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 2 ==> 1

85 (Metacone size) 1 0.133 0 ==> 1

100 (Internal con) 1 0.100 1 ==> 0

102 (Protocone an) 1 0.091 0 ==> 1

106 (Precingulum ) 1 0.111 0 --> 2

122 (Protocristid) 1 0.083 1 ==> 0

129 (Hypoconulid ) 1 0.167 1 ==> 0

148 (Condyloid cr) 1 0.100 1 ==> 0

152 (Angular proc) 1 0.200 0 ==> 2

154 (Anteroposter) 1 0.077 1 ==> 0

163 (Mandibular f) 1 0.150 1 --> 2

166 (Premaxilla, ) 1 0.222 0 ==> 1

177 (Naso-frontal) 1 0.083 0 ==> 1

180 (Fronto-maxil) 1 0.500 0 ==> 1

191 (Premaxilla, ) 1 0.143 0 ==> 1

200 (Minor palati) 1 0.222 0 ==> 1

201 (Minor palati) 1 0.500 1 --> 0

209 (Zygomatic ar) 1 0.125 1 ==> 0

213 (Molar roots ) 1 0.083 1 --> 0

215 (Lacrimal con) 1 0.091 0 ==> 1

216 (Groove conne) 1 0.091 1 --> 0

233 (Orbitospheno) 1 0.182 1 --> 0

237 (Sphenorbital) 1 0.091 0 ==> 1

241 (Nuchal crest) 1 0.100 0 --> 1

248 (Pterygoids c) 1 0.167 0 ==> 1

250 (Midline cres) 1 0.100 1 ==> 0

253 (Ectopterygoi) 1 0.200 2 ==> 1

257 (Exit for max) 1 0.500 1 ==> 2

259 (Foramen oval) 1 0.600 3 ==> 2

261 (Alisphenoid ) 1 0.100 0 ==> 1

270 (Postglenoid ) 1 0.133 1 ==> 2

275 (Suprameatal ) 1 0.111 1 ==> 0

276 (Entoglenoid ) 1 0.133 2 --> 1

277 (Posttympanic) 1 0.200 1 --> 0

278 (Carotid fora) 1 1.000 0 ==> 1

279 (Cavum epipte) 1 0.200 3 --> 1

283 (Medial flang) 1 0.125 1 ==> 0

285 (Course of in) 1 0.143 1 --> 0

293 (Promontorium) 1 0.071 1 --> 0

309 (Epitympanic ) 1 0.250 0 --> 1

315 (Foramen for ) 1 0.143 1 --> 0

325 (Crista inter) 1 0.500 1 --> 0

329 (Jugular fora) 1 0.111 0 ==> 1

336 (Ectotympanic) 1 0.200 1 ==> 2

360 (Axis) 1 0.500 0 ==> 1

375 (Deltopectora) 1 0.083 0 --> 1

389 (Epipubic bon) 1 0.500 0 ==> 1

405 (Radius of cu) 1 0.067 0 --> 1

421 (Calcaneal pl) 1 0.143 0 ==> 1

node\_118 --> Leptictis 8 (Upper incisors) 1 0.208 2 ==> 3

10 (Upper anterio) 1 0.111 0 ==> 1

26 (Shape of inci) 1 0.200 1 ==> 2

34 (Tall, trencha) 1 0.250 2 ==> 1

36 (P1 roots) 1 0.154 0 ==> 1

37 (P1 posterior ) 1 0.083 0 ==> 1

38 (Shape of the ) 1 0.125 1 ==> 0

40 (Penult upper ) 1 0.154 0 ==> 1

41 (Penult upper ) 1 0.100 0 ==> 1

45 (Ult upper pre) 1 0.100 0 ==> 2

49 (Ult upper pre) 1 0.200 0 ==> 1

63 (Ult lower pre) 2 0.105 0 ==> 2

65 (Ultimate lowe) 1 0.091 0 ==> 1

68 (Size (area) o) 1 0.087 1 ==> 0

69 (Size (area) o) 1 0.118 1 ==> 2

72 (Upper molar s) 1 0.095 1 ==> 2

78 (Stylar cusp A) 1 0.250 0 ==> 2

85 (Metacone size) 1 0.133 1 ==> 0

89 (Orientation o) 1 0.100 1 ==> 0

97 (Labial edges ) 1 0.087 0 ==> 1

98 (Paraconule) 1 0.105 1 ==> 2

100 (Internal con) 1 0.100 0 ==> 1

102 (Protocone an) 1 0.091 1 ==> 0

103 (Procumbent p) 1 0.125 0 ==> 1

106 (Precingulum ) 1 0.111 2 ==> 1

122 (Protocristid) 1 0.083 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 3

129 (Hypoconulid ) 1 0.167 0 ==> 1

142 (Coronoid pro) 1 0.077 0 ==> 1

148 (Condyloid cr) 1 0.100 0 ==> 1

152 (Angular proc) 1 0.200 2 ==> 0

156 (Condyle shap) 1 0.133 0 ==> 1

163 (Mandibular f) 1 0.150 2 --> 1

166 (Premaxilla, ) 1 0.222 1 ==> 0

171 (Infraorbital) 2 0.111 0 ==> 2

172 (Infraorbital) 1 0.167 0 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

174 (Shape ratio ) 1 0.200 0 ==> 1

178 (Nasofrontal ) 1 0.143 0 ==> 1

196 (Anterior ext) 1 0.143 1 ==> 2

199 (Posterior na) 1 0.083 0 ==> 1

200 (Minor palati) 1 0.222 1 ==> 0

207 (Maxillary-ju) 1 0.100 0 ==> 1

209 (Zygomatic ar) 1 0.125 0 ==> 1

223 (Ethmoid fora) 1 0.111 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 2

232 (Optic forame) 1 0.167 0 ==> 1

234 (Suboptic for) 1 0.125 0 ==> 1

236 (Frontal/alis) 1 0.167 0 ==> 1

237 (Sphenorbital) 1 0.091 1 ==> 0

239 (Frontopariet) 1 0.118 1 ==> 0

240 (Temporal lin) 1 0.167 0 ==> 1

241 (Nuchal crest) 1 0.100 1 --> 0

242 (Nuchal crest) 1 0.154 1 ==> 0

247 (Vomer contac) 1 0.143 0 ==> 1

251 (Entopterygoi) 1 0.143 1 ==> 2

256 (Transverse c) 1 0.500 0 ==> 1

260 (Foramen oval) 1 0.182 2 ==> 0

265 (Glenoid foss) 1 0.143 0 ==> 1

275 (Suprameatal ) 1 0.111 0 ==> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

293 (Promontorium) 1 0.071 0 --> 1

297 (Tympanic ape) 1 0.231 1 ==> 2

304 (Tensor tympa) 1 0.125 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

308 (Hypotympanic) 1 0.214 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==> 1

323 (Mastoid proc) 1 0.133 0 ==> 2

326 ("Tympanic pr) 1 0.133 1 ==> 0

330 (Jugular fora) 1 0.111 0 ==> 1

336 (Ectotympanic) 1 0.200 2 ==> 0

341 (Entotympanic) 1 0.200 0 ==> 1

349 (Subarcuate f) 1 0.105 1 ==> 0

351 (Posttemporal) 1 0.091 0 ==> 1

365 (Thoracic ver) 1 0.167 1 ==> 0

372 (Acromion) 1 0.250 0 ==> 1

373 (Metacromion) 1 0.125 0 ==> 1

374 (Greater tube) 1 0.111 1 ==> 0

375 (Deltopectora) 1 0.083 1 --> 0

379 (Supratrochle) 1 0.111 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

397 (Patellar fac) 1 0.154 1 ==> 2

401 (Tibia and fi) 1 0.111 0 ==> 1

405 (Radius of cu) 1 0.067 1 ==> 0

410 (Astragalar n) 1 0.133 1 ==> 2

412 (Facet on ast) 1 0.067 1 --> 0

413 (Astragalar c) 1 0.118 0 ==> 2

423 (Calcaneal fa) 1 0.091 0 ==> 1

424 (Orientation ) 1 0.125 1 ==> 2

node\_118 --> node\_84 13 (Anteriormost ) 1 0.182 0 --> 4

29 (Lower canine) 1 0.118 1 ==> 0

32 (Canines diver) 1 0.250 0 ==> 1

41 (Penult upper ) 1 0.100 0 ==> 1

46 (Ult upper pre) 1 0.167 2 --> 1

62 (Ultimate lowe) 1 0.143 1 ==> 0

70 (Size (area) o) 1 0.105 1 --> 2

73 (Upper molar s) 1 0.188 2 --> 1

79 (Stylar cusp B) 1 0.182 0 --> 1

84 (Deep ectoflex) 1 0.200 2 ==> 1

85 (Metacone size) 1 0.133 1 ==> 0

88 (Preparacrista) 1 0.167 1 ==> 0

89 (Orientation o) 1 0.100 1 ==> 0

92 (Postmetacrist) 1 0.125 2 --> 0

96 (Postvallum sh) 1 0.182 1 ==> 0

97 (Labial edges ) 1 0.087 0 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

125 (Trigonid hei) 1 0.100 1 --> 0

127 (Talonid widt) 1 0.125 2 ==> 1

130 (Entoconid) 1 0.111 2 ==> 1

131 (Postcristid ) 1 0.167 0 ==> 1

137 (Anteriormost) 1 0.120 1 --> 0

138 (Posteriormos) 1 0.111 2 --> 1

140 (Space betwee) 1 0.111 1 ==> 0

157 (Condyle posi) 1 0.087 2 --> 1

158 (Mandibular s) 1 0.200 0 --> 1

160 (Mandibular s) 1 0.143 0 --> 1

168 (Paracanine f) 1 0.333 0 --> 1

177 (Naso-frontal) 1 0.083 1 --> 0

207 (Maxillary-ju) 1 0.100 0 --> 1

212 (Shape of zyg) 1 0.111 0 --> 1

233 (Orbitospheno) 1 0.182 0 --> 1

238 (Frontal leng) 1 0.118 1 --> 0

242 (Nuchal crest) 1 0.154 1 --> 0

243 (Anterior lam) 1 0.500 2 ==> 1

273 (Postglenoid ) 1 0.333 0 --> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

282 (Basicochlear) 1 0.111 0 --> 1

301 (Bony shelf l) 1 0.095 1 --> 0

333 (Hypoglossal ) 1 0.143 0 --> 1

338 (Anterior cru) 1 0.250 0 --> 1

368 (Sacral verte) 1 0.143 2 --> 1

376 (Supinator ri) 1 0.071 0 --> 1

383 (Central proc) 1 0.143 0 --> 1

387 (Centrale) 1 0.143 1 --> 0

390 (Articular su) 1 0.083 0 --> 1

403 (Astragalus, ) 1 0.214 2 --> 1

422 (Tuber calcis) 1 0.125 1 --> 0

node\_84 --> Didelphodus 44 (Ult upper pre) 1 0.182 2 ==> 1

46 (Ult upper pre) 1 0.167 1 --> 3

47 (Ult upper pre) 1 0.071 1 ==> 0

48 (Ult upper pre) 1 0.091 1 ==> 0

54 (p1-p2 diastem) 1 0.083 0 ==> 1

61 (Ult lower pre) 1 0.154 2 ==> 0

68 (Size (area) o) 1 0.087 1 ==> 0

74 (Metastylar an) 1 0.158 0 ==> 2

95 (Postprotocris) 1 0.154 1 ==> 0

105 (Protocone he) 1 0.250 1 ==> 0

106 (Precingulum ) 1 0.111 2 ==> 0

107 (Postcingulum) 1 0.143 2 ==> 0

124 (Cristid obli) 1 0.190 1 ==> 2

126 (Trigonid to ) 1 0.200 2 ==> 1

163 (Mandibular f) 1 0.150 2 --> 1

326 ("Tympanic pr) 1 0.133 1 ==> 0

350 (Internal aco) 1 0.125 1 ==> 0

node\_84 --> node\_83 39 (Penult upper ) 1 0.125 1 ==> 2

51 (Double V-shap) 1 0.500 0 ==> 1

57 (Penult lower ) 1 0.083 0 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 2

69 (Size (area) o) 1 0.118 1 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 2

78 (Stylar cusp A) 1 0.250 0 ==> 1

91 (Centrocrista) 1 0.143 0 --> 1

92 (Postmetacrist) 1 0.125 0 --> 1

97 (Labial edges ) 1 0.087 1 --> 2

99 (Metaconule) 1 0.095 2 ==> 0

139 (Depth of man) 1 0.100 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 2

237 (Sphenorbital) 1 0.091 1 --> 0

293 (Promontorium) 1 0.071 0 --> 1

297 (Tympanic ape) 1 0.231 1 --> 2

349 (Subarcuate f) 1 0.105 1 --> 2

node\_83 --> node\_81 10 (Upper anterio) 1 0.111 0 ==> 1

12 (Anteriormost ) 1 0.200 0 ==> 4

60 (Ult lower pre) 1 0.069 1 ==> 2

63 (Ult lower pre) 1 0.105 0 ==> 1

65 (Ultimate lowe) 1 0.091 0 ==> 1

67 (Size (area) o) 1 0.154 1 --> 2

73 (Upper molar s) 1 0.188 1 --> 2

96 (Postvallum sh) 1 0.182 0 ==> 2

125 (Trigonid hei) 1 0.100 0 --> 1

134 (Labial postc) 1 0.077 0 ==> 1

143 (Angle betwee) 1 0.133 0 ==> 1

159 (Mandibular s) 1 0.118 1 --> 2

166 (Premaxilla, ) 1 0.222 1 ==> 0

209 (Zygomatic ar) 1 0.125 0 --> 1

226 (Supraorbital) 1 0.091 0 --> 1

227 (Postorbital ) 1 0.071 1 ==> 2

305 (Area occupie) 1 0.111 0 ==> 1

393 (Size of less) 1 0.100 1 ==> 0

node\_81 --> Alcidedorbignya 47 (Ult upper pre) 1 0.071 1 ==> 0

97 (Labial edges ) 1 0.087 2 --> 1

98 (Paraconule) 1 0.105 1 ==> 2

126 (Trigonid to ) 1 0.200 2 ==> 1

143 (Angle betwee) 1 0.133 1 ==> 2

146 (Anteroventra) 1 0.125 0 ==> 1

152 (Angular proc) 1 0.200 2 ==> 1

179 (Nasal forami) 1 0.200 1 ==> 0

184 (Facial proce) 1 0.067 1 ==> 0

187 (Lacrimal for) 1 0.167 1 ==> 0

213 (Molar roots ) 1 0.083 0 --> 1

263 (Posterior bo) 1 0.100 1 ==> 0

293 (Promontorium) 1 0.071 1 --> 0

336 (Ectotympanic) 1 0.200 2 ==> 0

365 (Thoracic ver) 1 0.167 1 ==> 0

368 (Sacral verte) 1 0.143 1 --> 2

375 (Deltopectora) 1 0.083 1 --> 0

392 (Greater troc) 1 0.083 1 ==> 2

416 (Ectal (post ) 2 0.154 2 ==> 0

425 (Proportions ) 1 0.095 1 ==> 0

node\_81 --> node\_80 80 (Stylar cusp C) 1 0.091 0 --> 1

84 (Deep ectoflex) 1 0.200 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 2

138 (Posteriormos) 1 0.111 1 ==> 0

168 (Paracanine f) 1 0.333 1 --> 2

241 (Nuchal crest) 1 0.100 1 --> 0

242 (Nuchal crest) 1 0.154 0 --> 1

301 (Bony shelf l) 1 0.095 0 --> 1

303 (tegmen tympa) 1 0.167 0 --> 1

313 (Fossa incudi) 1 0.500 0 --> 3

366 (Number of lu) 1 0.167 0 --> 1

396 (Distal femur) 1 0.125 0 --> 1

409 (Astragalar m) 1 0.091 0 ==> 1

425 (Proportions ) 1 0.095 1 ==> 2

node\_80 --> Pantolambda 11 (Upper incisor) 1 0.176 0 ==> 3

12 (Anteriormost ) 1 0.200 4 ==> 2

13 (Anteriormost ) 1 0.182 4 ==> 2

67 (Size (area) o) 1 0.154 2 --> 1

69 (Size (area) o) 1 0.118 2 ==> 1

70 (Size (area) o) 1 0.105 2 ==> 1

99 (Metaconule) 1 0.095 0 ==> 1

100 (Internal con) 1 0.100 0 ==> 1

129 (Hypoconulid ) 1 0.167 0 ==> 1

159 (Mandibular s) 1 0.118 2 --> 1

191 (Premaxilla, ) 1 0.143 1 ==> 0

353 (Mastoid fora) 1 0.125 1 ==> 0

374 (Greater tube) 1 0.111 1 ==> 0

420 (Calcaneal an) 1 0.273 1 ==> 0

424 (Orientation ) 1 0.125 1 ==> 0

node\_80 --> node\_79 4 (Upper diastema) 1 0.125 3 ==> 1

14 (Anteriormost ) 1 0.250 0 --> 1

20 (Lower anterio) 1 0.077 0 ==> 1

24 (Lower post. i) 1 0.067 0 ==> 1

85 (Metacone size) 2 0.133 0 --> 2

86 (Metacone posi) 1 0.143 1 --> 2

88 (Preparacrista) 1 0.167 0 --> 1

91 (Centrocrista) 1 0.143 1 --> 2

107 (Postcingulum) 1 0.143 2 --> 1

119 (Paracristid) 1 0.111 0 --> 1

124 (Cristid obli) 1 0.190 1 --> 3

137 (Anteriormost) 1 0.120 0 --> 1

167 (Posterodorsa) 1 0.125 0 --> 1

168 (Paracanine f) 1 0.333 2 --> 3

209 (Zygomatic ar) 1 0.125 1 --> 0

226 (Supraorbital) 1 0.091 1 --> 0

238 (Frontal leng) 1 0.118 0 --> 1

239 (Frontopariet) 1 0.118 1 --> 0

240 (Temporal lin) 1 0.167 0 --> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

387 (Centrale) 1 0.143 0 --> 1

410 (Astragalar n) 1 0.133 1 ==> 0

417 (Overlap betw) 1 0.250 1 ==> 2

node\_79 --> Coryphodon 72 (Upper molar s) 1 0.095 1 ==> 0

109 (Pre- and pos) 1 0.143 0 ==> 1

127 (Talonid widt) 1 0.125 1 ==> 2

145 (Portion of t) 1 0.200 0 ==> 1

156 (Condyle shap) 1 0.133 0 ==> 1

359 (Atlas neural) 1 0.500 1 ==> 0

391 (Fovea for li) 1 0.182 0 ==> 1

411 (Astragalar h) 1 0.200 1 ==> 0

416 (Ectal (post ) 1 0.154 2 ==> 1

422 (Tuber calcis) 1 0.125 0 ==> 1

423 (Calcaneal fa) 1 0.091 0 ==> 1

node\_79 --> Carodnia 41 (Penult upper ) 1 0.100 1 ==> 0

51 (Double V-shap) 1 0.500 1 ==> 0

57 (Penult lower ) 1 0.083 1 ==> 0

58 (Penult lower ) 1 0.167 2 ==> 1

60 (Ult lower pre) 2 0.069 2 ==> 0

63 (Ult lower pre) 1 0.105 1 ==> 0

64 (Length of ult) 1 0.143 0 ==> 1

68 (Size (area) o) 1 0.087 1 ==> 2

80 (Stylar cusp C) 1 0.091 1 --> 0

107 (Postcingulum) 1 0.143 1 --> 3

115 (Paraconid) 1 0.125 0 ==> 1

122 (Protocristid) 1 0.083 0 ==> 1

128 (Hypoconulid) 1 0.125 2 ==> 0

130 (Entoconid) 1 0.111 1 ==> 2

143 (Angle betwee) 1 0.133 1 ==> 2

146 (Anteroventra) 1 0.125 0 ==> 1

153 (Angular proc) 1 0.091 0 ==> 1

157 (Condyle posi) 1 0.087 1 ==> 2

203 (Posterior ed) 1 0.118 0 ==> 1

382 (Radius artic) 1 0.200 0 ==> 1

396 (Distal femur) 1 0.125 1 --> 0

397 (Patellar fac) 1 0.154 1 ==> 0

403 (Astragalus, ) 1 0.214 1 ==> 2

404 (Astragalus, ) 1 0.500 2 ==> 1

405 (Radius of cu) 1 0.067 1 ==> 0

407 (Sustentacula) 1 0.083 0 ==> 1

412 (Facet on ast) 1 0.067 1 ==> 0

413 (Astragalar c) 1 0.118 0 ==> 2

421 (Calcaneal pl) 1 0.143 1 ==> 2

node\_83 --> node\_82 79 (Stylar cusp B) 1 0.182 1 --> 0

83 ((Pre)paracing) 1 0.167 2 ==> 0

87 (Paracone and ) 1 0.143 1 ==> 0

91 (Centrocrista) 1 0.143 1 --> 2

95 (Postprotocris) 1 0.154 1 ==> 2

98 (Paraconule) 1 0.105 1 --> 0

104 (Protocone la) 1 0.111 1 ==> 0

119 (Paracristid) 1 0.111 0 --> 1

154 (Anteroposter) 1 0.077 0 --> 1

156 (Condyle shap) 1 0.133 0 --> 1

157 (Condyle posi) 1 0.087 1 --> 0

182 (Preorbital l) 1 0.083 1 --> 0

227 (Postorbital ) 1 0.071 1 ==> 0

254 (Ectopterygoi) 1 0.200 0 --> 1

270 (Postglenoid ) 1 0.133 2 --> 1

355 (Dorsal margi) 1 0.500 1 --> 0

407 (Sustentacula) 1 0.083 0 --> 1

408 (Astragalar s) 1 0.143 1 --> 0

424 (Orientation ) 1 0.125 1 --> 2

node\_82 --> Bemalambda 68 (Size (area) o) 1 0.087 1 ==> 2

72 (Upper molar s) 1 0.095 1 ==> 2

86 (Metacone posi) 1 0.143 1 ==> 0

102 (Protocone an) 1 0.091 1 ==> 0

109 (Pre- and pos) 1 0.143 0 ==> 1

node\_82 --> Harpyodus 74 (Metastylar an) 1 0.158 0 ==> 1

106 (Precingulum ) 1 0.111 2 ==> 1

107 (Postcingulum) 1 0.143 2 ==> 1

108 (Hypocone on ) 1 0.125 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 0

212 (Shape of zyg) 1 0.111 1 --> 0

246 (Choanae) 1 0.091 1 ==> 0

node\_118 --> node\_85 3 (Postcanine loc) 1 0.150 1 ==> 2

4 (Upper diastema) 1 0.125 3 --> 0

7 (Incisor shape) 1 0.333 0 ==> 1

8 (Upper incisors) 1 0.208 2 ==> 3

10 (Upper anterio) 1 0.111 0 ==> 1

11 (Upper incisor) 1 0.176 0 ==> 1

12 (Anteriormost ) 1 0.200 0 --> 1

13 (Anteriormost ) 1 0.182 0 ==> 1

17 (Enamel distri) 1 0.143 0 ==> 1

19 (Lower anterio) 1 0.182 0 --> 1

20 (Lower anterio) 1 0.077 0 ==> 1

23 (Lower anterio) 1 0.200 0 ==> 1

24 (Lower post. i) 1 0.067 0 ==> 1

26 (Shape of inci) 1 0.200 1 ==> 2

27 (Upper canine) 1 0.111 0 ==> 1

33 (Premolars) 1 0.188 1 ==> 2

45 (Ult upper pre) 1 0.100 0 ==> 1

46 (Ult upper pre) 1 0.167 2 ==> 1

60 (Ult lower pre) 1 0.069 1 ==> 2

63 (Ult lower pre) 2 0.105 0 --> 2

76 (Length of the) 1 0.333 2 ==> 1

79 (Stylar cusp B) 1 0.182 0 --> 1

88 (Preparacrista) 1 0.167 1 ==> 0

89 (Orientation o) 1 0.100 1 ==> 0

92 (Postmetacrist) 1 0.125 2 ==> 0

95 (Postprotocris) 1 0.154 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 0

98 (Paraconule) 1 0.105 1 ==> 0

100 (Internal con) 1 0.100 0 --> 1

104 (Protocone la) 1 0.111 1 ==> 0

106 (Precingulum ) 1 0.111 2 --> 0

107 (Postcingulum) 1 0.143 2 ==> 1

108 (Hypocone on ) 1 0.125 0 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

127 (Talonid widt) 1 0.125 2 ==> 1

131 (Postcristid ) 1 0.167 0 ==> 1

139 (Depth of man) 1 0.100 0 ==> 1

140 (Space betwee) 1 0.111 1 --> 0

144 (Coronoid cre) 1 0.118 1 ==> 2

154 (Anteroposter) 1 0.077 0 ==> 1

160 (Mandibular s) 1 0.143 0 ==> 1

163 (Mandibular f) 1 0.150 2 --> 3

186 (Lacrimal for) 1 0.125 1 ==> 0

192 (Incisive for) 1 0.091 0 --> 1

196 (Anterior ext) 1 0.143 1 --> 0

207 (Maxillary-ju) 1 0.100 0 --> 1

212 (Shape of zyg) 1 0.111 0 ==> 1

217 (Sphenopalati) 1 0.222 0 --> 2

223 (Ethmoid fora) 1 0.111 1 --> 0

236 (Frontal/alis) 1 0.167 0 --> 1

238 (Frontal leng) 1 0.118 1 ==> 0

250 (Midline cres) 1 0.100 0 --> 1

263 (Posterior bo) 1 0.100 1 ==> 0

279 (Cavum epipte) 1 0.200 1 --> 3

297 (Tympanic ape) 1 0.231 1 --> 2

301 (Bony shelf l) 1 0.095 1 --> 2

302 (Tegmen tympa) 1 0.167 0 --> 1

315 (Foramen for ) 1 0.143 0 --> 1

339 (Elongate oss) 1 0.125 0 ==> 1

376 (Supinator ri) 1 0.071 0 --> 1

383 (Central proc) 1 0.143 0 --> 1

385 (Radius artic) 1 0.111 0 --> 1

387 (Centrale) 1 0.143 1 ==> 0

390 (Articular su) 1 0.083 0 --> 1

391 (Fovea for li) 1 0.182 0 --> 1

393 (Size of less) 1 0.100 1 --> 0

403 (Astragalus, ) 1 0.214 2 --> 1

408 (Astragalar s) 1 0.143 1 --> 0

414 (Posterior tr) 1 0.500 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 2

425 (Proportions ) 1 0.095 1 --> 0

node\_85 --> Azygonyx 19 (Lower anterio) 1 0.182 1 --> 2

53 (First lower p) 1 0.125 1 ==> 0

59 (Penult lower ) 1 0.250 0 ==> 1

71 (Molar cusp fo) 1 0.125 0 ==> 2

74 (Metastylar an) 1 0.158 0 ==> 1

84 (Deep ectoflex) 1 0.200 2 ==> 0

106 (Precingulum ) 1 0.111 0 --> 1

124 (Cristid obli) 1 0.190 1 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 0

137 (Anteriormost) 1 0.120 1 ==> 0

182 (Preorbital l) 1 0.083 1 ==> 0

187 (Lacrimal for) 1 0.167 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 2

232 (Optic forame) 1 0.167 0 ==> 1

237 (Sphenorbital) 1 0.091 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 0

265 (Glenoid foss) 1 0.143 0 ==> 1

273 (Postglenoid ) 1 0.333 0 ==> 1

node\_85 --> Trogosus 9 (Lower incisors) 1 0.190 1 ==> 2

12 (Anteriormost ) 1 0.200 1 --> 2

16 (Upper anterio) 1 0.250 0 ==> 1

21 (Lower anterio) 1 0.200 0 ==> 1

22 (Lower anterio) 2 0.231 0 ==> 2

39 (Penult upper ) 1 0.125 1 ==> 2

47 (Ult upper pre) 1 0.071 1 ==> 0

48 (Ult upper pre) 1 0.091 1 ==> 0

57 (Penult lower ) 1 0.083 0 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 2

62 (Ultimate lowe) 1 0.143 1 ==> 0

67 (Size (area) o) 1 0.154 1 ==> 2

68 (Size (area) o) 1 0.087 1 ==> 2

70 (Size (area) o) 1 0.105 1 ==> 2

83 ((Pre)paracing) 1 0.167 2 ==> 0

86 (Metacone posi) 1 0.143 1 ==> 0

87 (Paracone and ) 1 0.143 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

116 (Paraconid he) 1 0.250 0 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 2

130 (Entoconid) 1 0.111 2 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 2

138 (Posteriormos) 1 0.111 2 ==> 3

143 (Angle betwee) 1 0.133 0 ==> 1

148 (Condyloid cr) 1 0.100 0 ==> 1

157 (Condyle posi) 1 0.087 2 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 2

204 (Zygomatic pr) 1 0.200 0 ==> 1

215 (Lacrimal con) 1 0.091 1 ==> 0

239 (Frontopariet) 1 0.118 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 2

267 (Glenoid foss) 1 0.125 0 ==> 1

271 (Postglenoid ) 1 0.143 1 ==> 0

331 (Hypoglossal ) 1 0.222 1 ==> 2

334 (Paroccipital) 1 0.167 0 ==> 1

node\_118 --> Protungulatum 29 (Lower canine) 1 0.118 1 ==> 0

41 (Penult upper ) 1 0.100 0 ==> 1

46 (Ult upper pre) 1 0.167 2 ==> 1

57 (Penult lower ) 1 0.083 0 ==> 1

61 (Ult lower pre) 1 0.154 2 ==> 1

62 (Ultimate lowe) 1 0.143 1 ==> 0

65 (Ultimate lowe) 1 0.091 0 ==> 1

67 (Size (area) o) 1 0.154 1 ==> 2

69 (Size (area) o) 1 0.118 1 ==> 2

70 (Size (area) o) 1 0.105 1 ==> 2

72 (Upper molar s) 1 0.095 1 ==> 2

74 (Metastylar an) 1 0.158 0 ==> 1

86 (Metacone posi) 1 0.143 1 ==> 2

89 (Orientation o) 1 0.100 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 2

99 (Metaconule) 1 0.095 2 ==> 1

104 (Protocone la) 1 0.111 1 ==> 2

120 (Trigonid con) 1 0.105 2 ==> 1

127 (Talonid widt) 1 0.125 2 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 3

129 (Hypoconulid ) 1 0.167 0 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

148 (Condyloid cr) 1 0.100 0 ==> 1

152 (Angular proc) 1 0.200 2 ==> 1

163 (Mandibular f) 1 0.150 2 --> 1

293 (Promontorium) 1 0.071 0 --> 1

297 (Tympanic ape) 1 0.231 1 ==> 2

309 (Epitympanic ) 1 0.250 1 ==> 2

311 (Fossa incudi) 1 0.125 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==>

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323 (Mastoid proc) 1 0.133 0 ==> 2

348 (Crista petro) 1 0.077 1 --> 0

349 (Subarcuate f) 1 0.105 1 ==> 0

351 (Posttemporal) 1 0.091 0 ==> 1

417 (Overlap betw) 1 0.250 1 ==> 2

425 (Proportions ) 1 0.095 1 ==> 2

node\_118 --> node\_87 4 (Upper diastema) 1 0.125 3 --> 0

29 (Lower canine) 1 0.118 1 ==> 0

34 (Tall, trencha) 1 0.250 2 ==> 0

35 (P1 procumbenc) 1 0.250 0 --> 1

37 (P1 posterior ) 1 0.083 0 --> 1

38 (Shape of the ) 1 0.125 1 ==> 0

39 (Penult upper ) 1 0.125 1 ==> 0

44 (Ult upper pre) 1 0.182 2 ==> 1

45 (Ult upper pre) 1 0.100 0 ==> 2

46 (Ult upper pre) 1 0.167 2 ==> 3

47 (Ult upper pre) 1 0.071 1 --> 0

48 (Ult upper pre) 1 0.091 1 ==> 0

60 (Ult lower pre) 1 0.069 1 --> 0

61 (Ult lower pre) 1 0.154 2 ==> 0

62 (Ultimate lowe) 1 0.143 1 ==> 0

67 (Size (area) o) 1 0.154 1 ==> 0

68 (Size (area) o) 1 0.087 1 ==> 0

69 (Size (area) o) 1 0.118 1 ==> 0

70 (Size (area) o) 1 0.105 1 ==> 0

72 (Upper molar s) 1 0.095 1 ==> 2

78 (Stylar cusp A) 1 0.250 0 ==> 2

98 (Paraconule) 1 0.105 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

106 (Precingulum ) 1 0.111 2 --> 1

107 (Postcingulum) 1 0.143 2 ==> 1

109 (Pre- and pos) 1 0.143 0 ==> 1

116 (Paraconid he) 1 0.250 0 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

129 (Hypoconulid ) 1 0.167 0 ==> 3

130 (Entoconid) 1 0.111 2 ==> 1

138 (Posteriormos) 1 0.111 2 --> 1

152 (Angular proc) 1 0.200 2 ==> 0

154 (Anteroposter) 1 0.077 0 ==> 1

156 (Condyle shap) 1 0.133 0 ==> 1

157 (Condyle posi) 1 0.087 2 ==> 1

163 (Mandibular f) 1 0.150 2 --> 1

168 (Paracanine f) 1 0.333 0 ==> 3

169 (Paracanine f) 1 0.500 1 --> 2

171 (Infraorbital) 1 0.111 0 ==> 1

173 (Nasal) 2 0.133 0 ==> 2

182 (Preorbital l) 1 0.083 1 ==> 0

185 (Lacrimal tub) 1 0.083 0 ==> 1

196 (Anterior ext) 1 0.143 1 --> 2

197 (Palatal expa) 1 0.118 1 --> 0

198 (Postpalatine) 1 0.071 1 --> 0

199 (Posterior na) 1 0.083 0 --> 1

203 (Posterior ed) 1 0.118 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 ==> 1

209 (Zygomatic ar) 1 0.125 0 --> 1

210 (Orientation ) 1 0.143 1 ==> 0

212 (Shape of zyg) 1 0.111 0 ==> 1

213 (Molar roots ) 1 0.083 0 --> 1

214 (Palatine rea) 1 0.067 1 --> 0

215 (Lacrimal con) 1 0.091 1 --> 0

216 (Groove conne) 1 0.091 0 --> 1

225 (Position of ) 1 0.333 1 --> 0

227 (Postorbital ) 1 0.071 1 ==> 0

230 (Dorsal proce) 1 0.167 0 ==> 1

235 (Orbitotempor) 1 0.125 0 ==> 1

237 (Sphenorbital) 1 0.091 1 --> 0

254 (Ectopterygoi) 1 0.200 0 --> 1

262 (Posterior op) 1 0.143 0 ==> 1

266 (Glenoid foss) 1 0.364 0 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 1

276 (Entoglenoid ) 1 0.133 1 --> 0

277 (Posttympanic) 1 0.200 0 ==> 1

279 (Cavum epipte) 1 0.200 1 --> 3

295 (Promontorium) 1 0.111 0 ==> 1

301 (Bony shelf l) 1 0.095 1 --> 2

304 (Tensor tympa) 1 0.125 0 ==> 1

308 (Hypotympanic) 1 0.214 0 ==> 2

315 (Foramen for ) 1 0.143 0 --> 1

316 (Foramen for ) 1 0.333 1 --> 0

334 (Paroccipital) 1 0.167 0 ==> 2

344 (Dorsum sella) 1 0.250 1 --> 0

349 (Subarcuate f) 1 0.105 1 --> 0

350 (Internal aco) 1 0.125 1 --> 0

351 (Posttemporal) 1 0.091 0 --> 1

368 (Sacral verte) 1 0.143 2 --> 1

375 (Deltopectora) 1 0.083 1 --> 0

387 (Centrale) 1 0.143 1 --> 0

390 (Articular su) 1 0.083 0 --> 1

392 (Greater troc) 1 0.083 1 --> 2

405 (Radius of cu) 1 0.067 1 --> 0

410 (Astragalar n) 1 0.133 1 --> 2

412 (Facet on ast) 1 0.067 1 --> 0

413 (Astragalar c) 1 0.118 0 ==> 1

420 (Calcaneal an) 1 0.273 1 --> 2

421 (Calcaneal pl) 1 0.143 1 --> 0

423 (Calcaneal fa) 1 0.091 0 ==> 1

425 (Proportions ) 1 0.095 1 --> 0

node\_87 --> Vulpavus 54 (p1-p2 diastem) 1 0.083 0 ==> 1

326 ("Tympanic pr) 1 0.133 1 ==> 0

node\_87 --> node\_86 43 (Penult upper ) 1 0.300 2 ==> 1

89 (Orientation o) 1 0.100 1 ==> 0

104 (Protocone la) 1 0.111 1 ==> 0

120 (Trigonid con) 1 0.105 2 ==> 1

121 (Protoconid h) 1 0.167 1 ==> 0

126 (Trigonid to ) 1 0.200 2 ==> 1

127 (Talonid widt) 1 0.125 2 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 2

157 (Condyle posi) 1 0.087 1 ==> 0

248 (Pterygoids c) 1 0.167 1 --> 0

305 (Area occupie) 1 0.111 0 ==> 1

node\_86 --> Miacis 50 (Ult upper pre) 1 0.167 0 ==> 1

60 (Ult lower pre) 1 0.069 0 --> 1

85 (Metacone size) 1 0.133 1 ==> 0

86 (Metacone posi) 1 0.143 1 ==> 0

106 (Precingulum ) 1 0.111 1 -->

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127 (Talonid widt) 1 0.125 1 ==> 0

204 (Zygomatic pr) 1 0.200 0 ==> 1

247 (Vomer contac) 1 0.143 0 ==> 1

276 (Entoglenoid ) 1 0.133 0 --> 1

307 (Medial proce) 1 0.250 0 ==> 1

308 (Hypotympanic) 1 0.214 2 ==> 1

331 (Hypoglossal ) 1 0.222 1 ==> 0

node\_86 --> Cynodictis 3 (Postcanine loc) 1 0.150 1 ==> 2

4 (Upper diastema) 1 0.125 0 --> 3

11 (Upper incisor) 1 0.176 0 ==> 3

26 (Shape of inci) 1 0.200 1 ==> 0

35 (P1 procumbenc) 1 0.250 1 --> 0

37 (P1 posterior ) 1 0.083 1 --> 0

40 (Penult upper ) 1 0.154 0 ==> 1

47 (Ult upper pre) 1 0.071 0 --> 1

58 (Penult lower ) 1 0.167 0 ==> 1

61 (Ult lower pre) 1 0.154 0 ==> 1

66 (Molars) 1 0.667 1 ==> 2

79 (Stylar cusp B) 1 0.182 0 ==> 1

86 (Metacone posi) 1 0.143 1 ==> 2

92 (Postmetacrist) 1 0.125 2 ==> 0

97 (Labial edges ) 1 0.087 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 0

148 (Condyloid cr) 1 0.100 0 ==> 1

152 (Angular proc) 1 0.200 0 ==> 1

181 (Maxillary pr) 1 0.250 0 ==> 1

214 (Palatine rea) 1 0.067 0 --> 1

223 (Ethmoid fora) 1 0.111 1 ==> 0

224 (Foramen for ) 1 0.100 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 0

280 (Alisphenoid ) 1 0.111 0 ==> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

301 (Bony shelf l) 1 0.095 2 --> 1

node\_118 --> Diacodexis 4 (Upper diastema) 1 0.125 3 --> 0

13 (Anteriormost ) 1 0.182 0 ==> 4

36 (P1 roots) 1 0.154 0 ==> 1

37 (P1 posterior ) 1 0.083 0 ==> 1

39 (Penult upper ) 1 0.125 1 ==> 2

46 (Ult upper pre) 1 0.167 2 ==> 0

54 (p1-p2 diastem) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 1 ==> 2

61 (Ult lower pre) 1 0.154 2 ==> 0

65 (Ultimate lowe) 1 0.091 0 ==> 1

70 (Size (area) o) 1 0.105 1 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 1

78 (Stylar cusp A) 1 0.250 0 ==> 2

98 (Paraconule) 1 0.105 1 ==> 2

100 (Internal con) 1 0.100 0 ==> 1

104 (Protocone la) 1 0.111 1 ==> 2

107 (Postcingulum) 1 0.143 2 ==> 3

125 (Trigonid hei) 1 0.100 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 2

129 (Hypoconulid ) 1 0.167 0 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 2

177 (Naso-frontal) 1 0.083 1 ==> 0

197 (Palatal expa) 1 0.118 1 ==> 0

210 (Orientation ) 1 0.143 1 ==> 2

215 (Lacrimal con) 1 0.091 1 ==> 0

217 (Sphenopalati) 1 0.222 0 ==> 2

220 (Frontal and ) 1 0.091 0 ==> 1

226 (Supraorbital) 1 0.091 0 ==> 1

227 (Postorbital ) 1 0.071 1 ==> 0

239 (Frontopariet) 1 0.118 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 0

260 (Foramen oval) 1 0.182 2 ==> 1

261 (Alisphenoid ) 1 0.100 1 ==> 0

268 (Glenoid proc) 1 0.182 2 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

295 (Promontorium) 1 0.111 0 ==> 1

304 (Tensor tympa) 1 0.125 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

323 (Mastoid proc) 1 0.133 0 ==> 2

330 (Jugular fora) 1 0.111 0 ==> 1

334 (Paroccipital) 1 0.167 0 ==> 1

349 (Subarcuate f) 1 0.105 1 ==> 0

351 (Posttemporal) 1 0.091 0 ==> 1

363 (Cervical inf) 1 0.143 0 ==> 1

368 (Sacral verte) 1 0.143 2 --> 1

375 (Deltopectora) 1 0.083 1 --> 0

377 (Medial epico) 1 0.111 0 ==> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

382 (Radius artic) 1 0.200 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

396 (Distal femur) 1 0.125 0 ==> 1

397 (Patellar fac) 1 0.154 1 ==> 2

402 (Depth of tro) 1 0.333 0 ==> 1

410 (Astragalar n) 1 0.133 1 ==> 2

411 (Astragalar h) 1 0.200 1 ==> 0

413 (Astragalar c) 1 0.118 0 ==> 2

415 (Calcaneal wi) 1 0.111 0 ==> 1

416 (Ectal (post ) 1 0.154 2 ==> 1

421 (Calcaneal pl) 1 0.143 1 ==> 2

node\_118 --> node\_88 20 (Lower anterio) 1 0.077 0 ==> 1

24 (Lower post. i) 1 0.067 0 ==> 1

31 (Lower canine ) 1 0.143 0 ==> 1

39 (Penult upper ) 1 0.125 1 ==> 2

40 (Penult upper ) 1 0.154 0 ==> 1

45 (Ult upper pre) 1 0.100 0 ==> 1

46 (Ult upper pre) 1 0.167 2 ==> 0

61 (Ult lower pre) 1 0.154 2 ==> 1

64 (Length of ult) 1 0.143 0 ==> 1

71 (Molar cusp fo) 1 0.125 0 ==> 1

73 (Upper molar s) 1 0.188 2 ==> 3

79 (Stylar cusp B) 1 0.182 0 --> 1

102 (Protocone an) 1 0.091 1 ==> 0

104 (Protocone la) 1 0.111 1 ==> 2

108 (Hypocone on ) 1 0.125 0 ==> 1

115 (Paraconid) 1 0.125 0 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

119 (Paracristid) 1 0.111 0 ==> 1

122 (Protocristid) 1 0.083 0 ==> 1

125 (Trigonid hei) 1 0.100 1 ==> 2

134 (Labial postc) 1 0.077 0 ==> 1

138 (Posteriormos) 1 0.111 2 --> 1

142 (Coronoid pro) 1 0.077 0 --> 1

167 (Posterodorsa) 1 0.125 0 --> 1

184 (Facial proce) 1 0.067 1 ==> 0

187 (Lacrimal for) 1 0.167 1 ==> 0

197 (Palatal expa) 1 0.118 1 --> 2

199 (Posterior na) 1 0.083 0 --> 1

210 (Orientation ) 1 0.143 1 ==> 2

213 (Molar roots ) 1 0.083 0 --> 1

226 (Supraorbital) 1 0.091 0 ==> 1

227 (Postorbital ) 1 0.071 1 ==> 0

239 (Frontopariet) 1 0.118 1 ==> 0

241 (Nuchal crest) 1 0.100 1 --> 0

246 (Choanae) 1 0.091 1 ==> 0

248 (Pterygoids c) 1 0.167 1 --> 0

250 (Midline cres) 1 0.100 0 --> 1

260 (Foramen oval) 1 0.182 2 ==> 1

263 (Posterior bo) 1 0.100 1 ==> 0

270 (Postglenoid ) 1 0.133 2 ==> 1

303 (tegmen tympa) 1 0.167 0 --> 1

310 (Epitympanic ) 1 0.250 1 --> 0

328 (Inferior pet) 1 0.300 1 ==> 3

330 (Jugular fora) 1 0.111 0 ==> 1

332 (Hypoglossal ) 1 0.125 0 ==> 1

334 (Paroccipital) 1 0.167 0 ==> 1

339 (Elongate oss) 1 0.125 0 ==> 1

342 (Hyoid pit on) 1 0.250 0 --> 1

356 (Dorsal relie) 1 0.250 0 --> 1

node\_88 --> Dichobune 63 (Ult lower pre) 1 0.105 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 2

173 (Nasal) 1 0.133 0 ==> 1

178 (Nasofrontal ) 1 0.143 0 ==> 1

214 (Palatine rea) 1 0.067 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

221 (Orbital proc) 1 0.125 0 ==> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

293 (Promontorium) 1 0.071 0 --> 1

304 (Tensor tympa) 1 0.125 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

308 (Hypotympanic) 1 0.214 0 ==> 2

349 (Subarcuate f) 1 0.105 1 ==> 0

node\_88 --> Acotherulum 57 (Penult lower ) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

106 (Precingulum ) 1 0.111 2 ==> 1

107 (Postcingulum) 1 0.143 2 ==> 3

108 (Hypocone on ) 1 0.125 1 ==> 2

179 (Nasal forami) 1 0.200 1 ==> 0

203 (Posterior ed) 1 0.118 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 ==> 1

215 (Lacrimal con) 1 0.091 1 ==> 0

233 (Orbitospheno) 1 0.182 0 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

301 (Bony shelf l) 1 0.095 1 ==> 0

312 (Squamosal ep) 1 0.143 0 ==> 1

348 (Crista petro) 1 0.077 1 --> 0

349 (Subarcuate f) 1 0.105 1 ==> 2

351 (Posttemporal) 1 0.091 0 ==> 1

node\_118 --> node\_90 27 (Upper canine) 1 0.111 0 --> 1

46 (Ult upper pre) 1 0.167 2 ==> 0

63 (Ult lower pre) 1 0.105 0 ==> 1

71 (Molar cusp fo) 1 0.125 0 ==> 1

95 (Postprotocris) 1 0.154 1 ==> 2

98 (Paraconule) 1 0.105 1 ==> 2

107 (Postcingulum) 1 0.143 2 --> 3

108 (Hypocone on ) 2 0.125 0 ==> 2

117 (Paraconid on) 1 0.077 0 --> 1

125 (Trigonid hei) 1 0.100 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 2

129 (Hypoconulid ) 1 0.167 0 --> 1

130 (Entoconid) 1 0.111 2 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

137 (Anteriormost) 1 0.120 1 --> 0

142 (Coronoid pro) 1 0.077 0 --> 1

156 (Condyle shap) 1 0.133 0 --> 1

157 (Condyle posi) 1 0.087 2 ==> 1

192 (Incisive for) 1 0.091 0 ==> 1

214 (Palatine rea) 1 0.067 1 --> 0

219 (Maxilla in t) 1 0.111 0 --> 1

232 (Optic forame) 1 0.167 0 ==> 1

234 (Suboptic for) 1 0.125 0 --> 1

236 (Frontal/alis) 1 0.167 0 --> 1

238 (Frontal leng) 1 0.118 1 ==> 0

246 (Choanae) 1 0.091 1 ==> 0

247 (Vomer contac) 1 0.143 0 ==> 1

262 (Posterior op) 1 0.143 0 --> 1

263 (Posterior bo) 1 0.100 1 ==> 0

282 (Basicochlear) 1 0.111 0 ==> 1

303 (tegmen tympa) 1 0.167 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==> 2

328 (Inferior pet) 1 0.300 1 --> 2

332 (Hypoglossal ) 1 0.125 0 ==> 1

334 (Paroccipital) 1 0.167 0 ==> 1

338 (Anterior cru) 1 0.250 0 --> 1

348 (Crista petro) 1 0.077 1 --> 0

349 (Subarcuate f) 1 0.105 1 --> 2

353 (Mastoid fora) 1 0.125 1 ==> 0

373 (Metacromion) 1 0.125 0 ==> 1

379 (Supratrochle) 1 0.111 0 ==> 1

382 (Radius artic) 1 0.200 0 ==> 1

383 (Central proc) 1 0.143 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

390 (Articular su) 1 0.083 0 --> 1

397 (Patellar fac) 1 0.154 1 ==> 2

403 (Astragalus, ) 1 0.214 2 --> 1

410 (Astragalar n) 1 0.133 1 ==> 2

node\_90 --> Hyopsodus 11 (Upper incisor) 1 0.176 0 ==> 1

35 (P1 procumbenc) 1 0.250 0 ==> 1

59 (Penult lower ) 1 0.250 0 ==> 1

67 (Size (area) o) 1 0.154 1 ==> 2

129 (Hypoconulid ) 1 0.167 1 --> 2

163 (Mandibular f) 1 0.150 2 --> 1

182 (Preorbital l) 1 0.083 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 2

270 (Postglenoid ) 1 0.133 2 ==> 1

304 (Tensor tympa) 1 0.125 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

309 (Epitympanic ) 1 0.250 1 ==> 0

370 (Infraspinous) 1 0.333 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 0

413 (Astragalar c) 1 0.118 0 ==> 2

425 (Proportions ) 1 0.095 1 ==> 0

node\_90 --> node\_89 4 (Upper diastema) 1 0.125 3 --> 0

12 (Anteriormost ) 1 0.200 0 ==> 4

13 (Anteriormost ) 1 0.182 0 ==> 4

39 (Penult upper ) 1 0.125 1 ==> 2

45 (Ult upper pre) 1 0.100 0 ==> 2

49 (Ult upper pre) 1 0.200 0 ==> 1

54 (p1-p2 diastem) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 1 ==> 2

80 (Stylar cusp C) 1 0.091 0 ==> 1

91 (Centrocrista) 1 0.143 0 ==> 1

94 (Preprotocrist) 1 0.167 1 ==> 2

109 (Pre- and pos) 1 0.143 0 ==> 1

143 (Angle betwee) 1 0.133 0 --> 1

236 (Frontal/alis) 1 0.167 1 --> 2

239 (Frontopariet) 1 0.118 1 --> 0

279 (Cavum epipte) 1 0.200 1 ==> 3

295 (Promontorium) 1 0.111 0 ==> 1

363 (Cervical inf) 1 0.143 0 --> 1

372 (Acromion) 1 0.250 0 ==> 1

375 (Deltopectora) 1 0.083 1 --> 0

377 (Medial epico) 1 0.111 0 ==> 1

391 (Fovea for li) 1 0.182 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

405 (Radius of cu) 1 0.067 1 --> 0

412 (Facet on ast) 1 0.067 1 --> 0

423 (Calcaneal fa) 1 0.091 0 ==> 1

425 (Proportions ) 1 0.095 1 --> 2

node\_89 --> Meniscotherium 4 (Upper diastema) 1 0.125 0 --> 1

36 (P1 roots) 1 0.154 0 ==> 1

37 (P1 posterior ) 1 0.083 0 ==> 1

71 (Molar cusp fo) 1 0.125 1 ==> 2

99 (Metaconule) 1 0.095 2 ==> 0

100 (Internal con) 1 0.100 0 ==> 1

117 (Paraconid on) 1 0.077 1 --> 0

120 (Trigonid con) 1 0.105 2 ==> 1

128 (Hypoconulid) 1 0.125 2 ==> 0

129 (Hypoconulid ) 1 0.167 1 --> 3

139 (Depth of man) 1 0.100 0 ==> 1

156 (Condyle shap) 1 0.133 1 --> 0

159 (Mandibular s) 1 0.118 1 ==> 2

160 (Mandibular s) 1 0.143 0 ==> 1

184 (Facial proce) 1 0.067 1 ==> 0

193 (Incisive for) 1 0.200 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 2

198 (Postpalatine) 1 0.071 1 ==> 0

214 (Palatine rea) 1 0.067 0 --> 1

227 (Postorbital ) 1 0.071 1 ==> 0

234 (Suboptic for) 1 0.125 1 --> 0

237 (Sphenorbital) 1 0.091 1 ==> 0

267 (Glenoid foss) 1 0.125 0 ==> 1

329 (Jugular fora) 1 0.111 1 ==> 0

408 (Astragalar s) 1 0.143 1 ==> 0

node\_89 --> Phenacodus 10 (Upper anterio) 1 0.111 0 ==> 1

27 (Upper canine) 1 0.111 1 --> 0

32 (Canines diver) 1 0.250 0 ==> 1

40 (Penult upper ) 1 0.154 0 ==> 1

68 (Size (area) o) 1 0.087 1 ==> 0

86 (Metacone posi) 1 0.143 1 ==> 2

104 (Protocone la) 1 0.111 1 ==> 2

142 (Coronoid pro) 1 0.077 1 --> 0

196 (Anterior ext) 1 0.143 1 ==> 2

219 (Maxilla in t) 1 0.111 1 --> 0

224 (Foramen for ) 1 0.100 1 ==> 0

226 (Supraorbital) 1 0.091 0 ==> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

326 ("Tympanic pr) 1 0.133 1 ==> 0

331 (Hypoglossal ) 1 0.222 1 ==> 0

390 (Articular su) 1 0.083 1 --> 0

396 (Distal femur) 1 0.125 0 ==> 1

403 (Astragalus, ) 1 0.214 1 --> 2

424 (Orientation ) 1 0.125 1 ==> 2

node\_118 --> Pleuraspidotheri 3 (Postcanine loc) 1 0.150 1 ==> 2

4 (Upper diastema) 1 0.125 3 ==> 2

11 (Upper incisor) 1 0.176 0 ==> 1

26 (Shape of inci) 1 0.200 1 ==> 2

27 (Upper canine) 1 0.111 0 ==> 1

29 (Lower canine) 1 0.118 1 ==> 0

37 (P1 posterior ) 1 0.083 0 ==> 1

39 (Penult upper ) 1 0.125 1 ==> 2

40 (Penult upper ) 1 0.154 0 ==> 2

41 (Penult upper ) 1 0.100 0 ==> 1

45 (Ult upper pre) 1 0.100 0 ==> 2

49 (Ult upper pre) 1 0.200 0 ==> 1

54 (p1-p2 diastem) 1 0.083 0 ==> 1

59 (Penult lower ) 1 0.250 0 ==> 1

63 (Ult lower pre) 1 0.105 0 ==> 1

71 (Molar cusp fo) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 0

73 (Upper molar s) 1 0.188 2 ==> 3

80 (Stylar cusp C) 1 0.091 0 ==> 1

91 (Centrocrista) 1 0.143 0 ==> 1

92 (Postmetacrist) 1 0.125 2 ==> 0

99 (Metaconule) 1 0.095 2 ==> 1

100 (Internal con) 1 0.100 0 ==> 1

102 (Protocone an) 1 0.091 1 ==> 0

104 (Protocone la) 1 0.111 1 ==> 2

107 (Postcingulum) 1 0.143 2 ==> 1

109 (Pre- and pos) 1 0.143 0 ==> 1

110 (Upper molar ) 1 0.250 0 ==> 1

112 (Last upper m) 1 0.200 0 ==> 1

113 (M1-M2 metaco) 1 1.000 0 ==> 1

119 (Paracristid) 1 0.111 0 ==> 1

120 (Trigonid con) 2 0.105 2 ==> 0

124 (Cristid obli) 1 0.190 1 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 0

129 (Hypoconulid ) 1 0.167 0 ==> 3

131 (Postcristid ) 1 0.167 0 ==> 1

138 (Posteriormos) 1 0.111 2 ==> 3

139 (Depth of man) 1 0.100 0 ==> 1

143 (Angle betwee) 1 0.133 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

151 (Lower jaw an) 1 0.500 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 2

163 (Mandibular f) 1 0.150 2 --> 1

168 (Paracanine f) 1 0.333 0 ==> 1

192 (Incisive for) 1 0.091 0 ==> 1

215 (Lacrimal con) 1 0.091 1 ==> 0

216 (Groove conne) 1 0.091 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 0

241 (Nuchal crest) 1 0.100 1 --> 0

242 (Nuchal crest) 1 0.154 1 ==> 0

248 (Pterygoids c) 1 0.167 1 ==> 0

250 (Midline cres) 1 0.100 0 ==> 1

268 (Glenoid proc) 1 0.182 2 ==> 1

273 (Postglenoid ) 1 0.333 0 ==> 1

275 (Suprameatal ) 1 0.111 0 ==> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

293 (Promontorium) 1 0.071 0 --> 1

297 (Tympanic ape) 1 0.231 1 ==> 2

301 (Bony shelf l) 1 0.095 1 ==> 2

303 (tegmen tympa) 1 0.167 0 ==> 1

304 (Tensor tympa) 1 0.125 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

329 (Jugular fora) 1 0.111 1 ==> 0

332 (Hypoglossal ) 1 0.125 0 ==> 1

348 (Crista petro) 1 0.077 1 --> 0

374 (Greater tube) 1 0.111 1 ==> 0

378 (Entepicondyl) 1 0.100 0 ==> 1

382 (Radius artic) 1 0.200 0 ==> 1

383 (Central proc) 1 0.143 0 ==> 1

393 (Size of less) 1 0.100 1 ==> 0

403 (Astragalus, ) 1 0.214 2 ==> 1

409 (Astragalar m) 1 0.091 0 ==> 1

412 (Facet on ast) 1 0.067 1 --> 0

417 (Overlap betw) 1 0.250 1 ==> 0

422 (Tuber calcis) 1 0.125 1 ==> 0

425 (Proportions ) 1 0.095 1 ==> 2

426 (Deep groove ) 1 0.091 0 ==> 1

node\_118 --> node\_91 44 (Ult upper pre) 1 0.182 2 ==> 1

47 (Ult upper pre) 1 0.071 1 ==> 0

57 (Penult lower ) 1 0.083 0 --> 1

67 (Size (area) o) 1 0.154 1 ==> 2

70 (Size (area) o) 1 0.105 1 ==> 2

74 (Metastylar an) 1 0.158 0 ==> 1

79 (Stylar cusp B) 1 0.182 0 ==> 1

88 (Preparacrista) 1 0.167 1 ==> 0

92 (Postmetacrist) 1 0.125 2 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 2

99 (Metaconule) 1 0.095 2 ==> 1

100 (Internal con) 1 0.100 0 ==> 1

104 (Protocone la) 1 0.111 1 ==> 2

108 (Hypocone on ) 1 0.125 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 0

126 (Trigonid to ) 1 0.200 2 ==> 1

130 (Entoconid) 1 0.111 2 ==> 1

131 (Postcristid ) 1 0.167 0 ==> 1

138 (Posteriormos) 1 0.111 2 --> 1

139 (Depth of man) 1 0.100 0 ==> 1

143 (Angle betwee) 1 0.133 0 ==> 1

157 (Condyle posi) 1 0.087 2 --> 1

174 (Shape ratio ) 1 0.200 0 --> 1

185 (Lacrimal tub) 1 0.083 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 --> 1

209 (Zygomatic ar) 1 0.125 0 --> 1

213 (Molar roots ) 1 0.083 0 --> 1

224 (Foramen for ) 1 0.100 1 --> 0

226 (Supraorbital) 1 0.091 0 ==> 1

232 (Optic forame) 1 0.167 0 ==> 1

237 (Sphenorbital) 1 0.091 1 --> 0

238 (Frontal leng) 1 0.118 1 ==> 0

268 (Glenoid proc) 1 0.182 2 --> 1

275 (Suprameatal ) 1 0.111 0 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

282 (Basicochlear) 1 0.111 0 ==> 1

403 (Astragalus, ) 1 0.214 2 --> 1

node\_91 --> Maiorana 27 (Upper canine) 1 0.111 0 ==> 1

41 (Penult upper ) 1 0.100 0 ==> 1

61 (Ult lower pre) 1 0.154 2 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

163 (Mandibular f) 1 0.150 2 --> 1

173 (Nasal) 1 0.133 0 ==> 1

200 (Minor palati) 1 0.222 1 ==> 0

216 (Groove conne) 1 0.091 0 ==> 1

290 (Stapedial ra) 1 0.167 1 ==> 0

node\_91 --> Baioconodon 60 (Ult lower pre) 1 0.069 1 ==> 2

68 (Size (area) o) 1 0.087 1 ==> 0

69 (Size (area) o) 1 0.118 1 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 2

81 (Stylar cusp D) 1 0.200 0 ==> 1

82 (Stylar cusp E) 1 0.222 2 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

140 (Space betwee) 1 0.111 1 ==> 0

177 (Naso-frontal) 1 0.083 1 ==> 0

203 (Posterior ed) 1 0.118 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 0

260 (Foramen oval) 1 0.182 2 ==> 0

262 (Posterior op) 1 0.143 0 ==> 1

276 (Entoglenoid ) 1 0.133 1 ==> 2

node\_118 --> node\_92 4 (Upper diastema) 1 0.125 3 --> 0

12 (Anteriormost ) 1 0.200 0 --> 1

13 (Anteriormost ) 1 0.182 0 --> 1

20 (Lower anterio) 1 0.077 0 --> 1

24 (Lower post. i) 1 0.067 0 ==> 1

29 (Lower canine) 1 0.118 1 ==> 0

44 (Ult upper pre) 1 0.182 2 ==> 1

48 (Ult upper pre) 1 0.091 1 ==> 0

61 (Ult lower pre) 1 0.154 2 --> 0

69 (Size (area) o) 1 0.118 1 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 0

73 (Upper molar s) 1 0.188 2 ==> 3

74 (Metastylar an) 1 0.158 0 ==> 3

75 (Upper first m) 1 0.200 0 ==> 1

83 ((Pre)paracing) 1 0.167 2 ==> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

95 (Postprotocris) 1 0.154 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 0

104 (Protocone la) 1 0.111 1 ==> 2

108 (Hypocone on ) 1 0.125 0 ==> 1

115 (Paraconid) 1 0.125 0 ==> 1

120 (Trigonid con) 1 0.105 2 --> 1

122 (Protocristid) 1 0.083 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 3

130 (Entoconid) 1 0.111 2 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

138 (Posteriormos) 1 0.111 2 ==> 1

139 (Depth of man) 1 0.100 0 ==> 1

140 (Space betwee) 1 0.111 1 ==> 0

148 (Condyloid cr) 1 0.100 0 ==> 1

152 (Angular proc) 1 0.200 2 ==> 0

154 (Anteroposter) 1 0.077 0 ==> 1

156 (Condyle shap) 1 0.133 0 ==> 1

157 (Condyle posi) 2 0.087 2 ==> 0

168 (Paracanine f) 1 0.333 0 ==> 3

177 (Naso-frontal) 1 0.083 1 ==> 0

184 (Facial proce) 1 0.067 1 ==> 0

191 (Premaxilla, ) 1 0.143 1 ==> 0

203 (Posterior ed) 1 0.118 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 ==> 1

212 (Shape of zyg) 1 0.111 0 ==> 1

213 (Molar roots ) 1 0.083 0 --> 1

224 (Foramen for ) 1 0.100 1 ==> 0

237 (Sphenorbital) 1 0.091 1 ==> 0

238 (Frontal leng) 1 0.118 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 2

248 (Pterygoids c) 1 0.167 1 ==> 0

262 (Posterior op) 1 0.143 0 ==> 1

263 (Posterior bo) 1 0.100 1 ==> 0

266 (Glenoid foss) 1 0.364 0 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

330 (Jugular fora) 1 0.111 0 --> 1

332 (Hypoglossal ) 1 0.125 0 ==> 1

333 (Hypoglossal ) 1 0.143 0 ==> 1

334 (Paroccipital) 1 0.167 0 ==> 2

352 (Posttemporal) 1 0.250 0 ==> 1

376 (Supinator ri) 1 0.071 0 --> 1

383 (Central proc) 1 0.143 0 --> 1

392 (Greater troc) 1 0.083 1 --> 0

393 (Size of less) 1 0.100 1 --> 0

403 (Astragalus, ) 1 0.214 2 --> 1

409 (Astragalar m) 1 0.091 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 2

422 (Tuber calcis) 1 0.125 1 --> 0

424 (Orientation ) 1 0.125 1 --> 0

426 (Deep groove ) 1 0.091 0 --> 1

node\_92 --> Arctocyonides 37 (P1 posterior ) 1 0.083 0 ==> 1

61 (Ult lower pre) 1 0.154 0 --> 1

65 (Ultimate lowe) 1 0.091 0 ==> 1

67 (Size (area) o) 1 0.154 1 ==> 2

99 (Metaconule) 1 0.095 2 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 2

185 (Lacrimal tub) 1 0.083 0 ==> 1

192 (Incisive for) 1 0.091 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 2

214 (Palatine rea) 1 0.067 1 ==> 0

232 (Optic forame) 1 0.167 0 ==> 1

328 (Inferior pet) 1 0.300 1 ==> 3

node\_92 --> Arctocyon 11 (Upper incisor) 1 0.176 0 ==> 3

31 (Lower canine ) 1 0.143 0 ==> 1

68 (Size (area) o) 1 0.087 1 ==> 0

98 (Paraconule) 1 0.105 1 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 2

137 (Anteriormost) 1 0.120 1 ==> 0

143 (Angle betwee) 1 0.133 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 2

163 (Mandibular f) 1 0.150 2 --> 1

293 (Promontorium) 1 0.071 0 --> 1

329 (Jugular fora) 1 0.111 1 ==> 0

node\_118 --> node\_106 3 (Postcanine loc) 1 0.150 1 ==> 2

9 (Lower incisors) 1 0.190 1 --> 2

11 (Upper incisor) 1 0.176 0 ==> 1

12 (Anteriormost ) 1 0.200 0 --> 2

19 (Lower anterio) 1 0.182 0 --> 1

26 (Shape of inci) 1 0.200 1 ==> 2

27 (Upper canine) 1 0.111 0 ==> 1

28 (Upper canine ) 1 0.125 1 --> 0

33 (Premolars) 1 0.188 1 ==> 2

34 (Tall, trencha) 1 0.250 2 --> 0

36 (P1 roots) 1 0.154 0 --> 1

38 (Shape of the ) 1 0.125 1 --> 0

44 (Ult upper pre) 1 0.182 2 ==> 1

47 (Ult upper pre) 1 0.071 1 ==> 0

60 (Ult lower pre) 1 0.069 1 --> 2

62 (Ultimate lowe) 1 0.143 1 --> 0

97 (Labial edges ) 1 0.087 0 ==> 1

98 (Paraconule) 1 0.105 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

103 (Procumbent p) 1 0.125 0 ==> 1

104 (Protocone la) 1 0.111 1 ==> 0

106 (Precingulum ) 1 0.111 2 --> 0

108 (Hypocone on ) 1 0.125 0 ==> 1

122 (Protocristid) 1 0.083 0 --> 1

128 (Hypoconulid) 1 0.125 1 ==> 3

137 (Anteriormost) 1 0.120 1 ==> 2

143 (Angle betwee) 1 0.133 0 ==> 1

152 (Angular proc) 1 0.200 2 --> 0

153 (Angular proc) 1 0.091 0 ==> 1

154 (Anteroposter) 1 0.077 0 --> 1

157 (Condyle posi) 1 0.087 2 --> 1

159 (Mandibular s) 1 0.118 1 ==> 2

169 (Paracanine f) 1 0.500 1 --> 2

171 (Infraorbital) 1 0.111 0 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

175 (Nasal overha) 1 0.125 0 ==> 1

181 (Maxillary pr) 1 0.250 0 --> 1

185 (Lacrimal tub) 1 0.083 0 ==> 1

197 (Palatal expa) 1 0.118 1 --> 0

200 (Minor palati) 1 0.222 1 ==> 0

205 (Jugal) 1 0.500 0 --> 1

208 (Jugal-lacrim) 1 0.167 0 --> 1

209 (Zygomatic ar) 2 0.125 0 ==> 2

213 (Molar roots ) 1 0.083 0 --> 1

219 (Maxilla in t) 1 0.111 0 ==> 1

220 (Frontal and ) 1 0.091 0 --> 1

225 (Position of ) 1 0.333 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 2

229 (Postorbital ) 1 0.333 0 --> 1

239 (Frontopariet) 1 0.118 1 ==> 0

241 (Nuchal crest) 1 0.100 1 --> 0

260 (Foramen oval) 1 0.182 2 ==> 1

265 (Glenoid foss) 1 0.143 0 --> 1

275 (Suprameatal ) 1 0.111 0 ==> 1

284 (RTPP) 1 0.286 0 --> 1

293 (Promontorium) 1 0.071 0 --> 1

301 (Bony shelf l) 1 0.095 1 --> 2

308 (Hypotympanic) 1 0.214 0 --> 2

323 (Mastoid proc) 1 0.133 0 --> 2

328 (Inferior pet) 1 0.300 1 ==> 2

336 (Ectotympanic) 1 0.200 2 ==> 1

343 (Hyoid contri) 1 0.333 0 --> 1

348 (Crista petro) 1 0.077 1 --> 0

349 (Subarcuate f) 1 0.105 1 ==> 0

351 (Posttemporal) 1 0.091 0 ==> 1

373 (Metacromion) 1 0.125 0 ==> 1

388 (Pubic symphy) 1 0.333 0 ==> 1

393 (Size of less) 1 0.100 1 --> 0

413 (Astragalar c) 1 0.118 0 --> 2

426 (Deep groove ) 1 0.091 0 --> 1

node\_106 --> node\_102 10 (Upper anterio) 1 0.111 0 ==> 1

20 (Lower anterio) 1 0.077 0 ==> 1

31 (Lower canine ) 1 0.143 0 --> 1

43 (Penult upper ) 1 0.300 2 --> 1

46 (Ult upper pre) 1 0.167 2 ==> 0

68 (Size (area) o) 1 0.087 1 ==> 0

70 (Size (area) o) 1 0.105 1 ==> 0

86 (Metacone posi) 1 0.143 1 ==> 2

94 (Preprotocrist) 1 0.167 1 --> 0

95 (Postprotocris) 1 0.154 1 ==> 0

108 (Hypocone on ) 1 0.125 1 ==> 2

110 (Upper molar ) 1 0.250 0 --> 1

111 (Last upper m) 1 0.333 2 --> 1

117 (Paraconid on) 1 0.077 0 --> 1

124 (Cristid obli) 1 0.190 1 ==> 3

129 (Hypoconulid ) 1 0.167 0 --> 3

137 (Anteriormost) 1 0.120 2 --> 3

186 (Lacrimal for) 1 0.125 1 ==> 0

188 (Lacrimal for) 1 0.400 0 --> 1

247 (Vomer contac) 1 0.143 0 ==> 1

261 (Alisphenoid ) 1 0.100 1 --> 0

305 (Area occupie) 1 0.111 0 ==> 1

337 (Ant crus ect) 1 0.250 1 ==> 0

352 (Posttemporal) 1 0.250 0 --> 1

368 (Sacral verte) 1 0.143 2 --> 1

375 (Deltopectora) 1 0.083 1 --> 0

401 (Tibia and fi) 1 0.111 0 --> 1

412 (Facet on ast) 1 0.067 1 --> 0

node\_102 --> node\_101 4 (Upper diastema) 1 0.125 3 --> 0

12 (Anteriormost ) 1 0.200 2 --> 0

24 (Lower post. i) 1 0.067 0 ==> 1

38 (Shape of the ) 1 0.125 0 --> 1

106 (Precingulum ) 1 0.111 0 --> 2

107 (Postcingulum) 1 0.143 2 --> 3

134 (Labial postc) 1 0.077 0 ==> 1

157 (Condyle posi) 1 0.087 1 --> 2

166 (Premaxilla, ) 1 0.222 1 ==> 2

199 (Posterior na) 1 0.083 0 ==> 1

203 (Posterior ed) 1 0.118 0 ==> 1

205 (Jugal) 1 0.500 1 --> 0

209 (Zygomatic ar) 1 0.125 2 --> 1

216 (Groove conne) 1 0.091 0 --> 1

239 (Frontopariet) 1 0.118 0 ==> 2

265 (Glenoid foss) 1 0.143 1 --> 0

302 (Tegmen tympa) 1 0.167 0 ==> 1

343 (Hyoid contri) 1 0.333 1 --> 0

392 (Greater troc) 1 0.083 1 ==> 0

407 (Sustentacula) 1 0.083 0 ==> 1

426 (Deep groove ) 1 0.091 1 --> 0

node\_101 --> node\_100 8 (Upper incisors) 1 0.208 2 ==> 3

31 (Lower canine ) 1 0.143 1 --> 0

62 (Ultimate lowe) 1 0.143 0 --> 1

74 (Metastylar an) 1 0.158 0 --> 1

94 (Preprotocrist) 1 0.167 0 --> 1

104 (Protocone la) 1 0.111 0 ==> 1

110 (Upper molar ) 1 0.250 1 --> 0

111 (Last upper m) 1 0.333 1 --> 2

117 (Paraconid on) 1 0.077 1 --> 0

122 (Protocristid) 1 0.083 1 --> 0

129 (Hypoconulid ) 1 0.167 3 --> 0

153 (Angular proc) 1 0.091 1 ==> 0

159 (Mandibular s) 1 0.118 2 --> 1

173 (Nasal) 1 0.133 1 ==> 2

175 (Nasal overha) 1 0.125 1 ==> 0

177 (Naso-frontal) 1 0.083 1 --> 0

182 (Preorbital l) 1 0.083 1 ==> 0

197 (Palatal expa) 1 0.118 0 --> 1

233 (Orbitospheno) 1 0.182 0 ==> 1

246 (Choanae) 1 0.091 1 --> 0

260 (Foramen oval) 1 0.182 1 ==> 0

261 (Alisphenoid ) 1 0.100 0 --> 1

263 (Posterior bo) 1 0.100 1 ==> 0

284 (RTPP) 1 0.286 1 --> 0

296 (Facial nerve) 1 0.500 0 --> 2

311 (Fossa incudi) 1 0.125 0 --> 1

312 (Squamosal ep) 1 0.143 0 --> 1

318 (Stapedius fo) 1 0.250 0 ==> 1

324 (Posterior bo) 1 0.250 1 ==> 0

326 ("Tympanic pr) 1 0.133 1 --> 0

330 (Jugular fora) 1 0.111 0 ==> 1

335 (Ectotympanic) 1 0.500 0 --> 1

336 (Ectotympanic) 1 0.200 1 --> 0

363 (Cervical inf) 1 0.143 0 ==> 1

365 (Thoracic ver) 1 0.167 1 --> 0

374 (Greater tube) 1 0.111 1 ==> 0

387 (Centrale) 1 0.143 1 ==> 0

390 (Articular su) 1 0.083 0 ==> 1

401 (Tibia and fi) 1 0.111 1 --> 0

419 (Calcaneal su) 1 0.333 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 2

423 (Calcaneal fa) 1 0.091 0 ==> 1

node\_100 --> Ptilocercus 9 (Lower incisors) 1 0.190 2 ==> 1

11 (Upper incisor) 1 0.176 1 ==> 0

13 (Anteriormost ) 1 0.182 0 ==> 1

19 (Lower anterio) 1 0.182 1 ==> 2

38 (Shape of the ) 1 0.125 1 --> 0

43 (Penult upper ) 1 0.300 1 --> 2

46 (Ult upper pre) 1 0.167 0 ==> 2

65 (Ultimate lowe) 1 0.091 0 ==> 1

74 (Metastylar an) 1 0.158 1 --> 2

84 (Deep ectoflex) 1 0.200 2 ==> 1

85 (Metacone size) 1 0.133 1 ==> 2

89 (Orientation o) 1 0.100 1 ==> 0

92 (Postmetacrist) 1 0.125 2 ==> 0

97 (Labial edges ) 1 0.087 1 ==> 2

107 (Postcingulum) 1 0.143 3 --> 2

108 (Hypocone on ) 2 0.125 2 ==> 0

109 (Pre- and pos) 1 0.143 0 ==> 1

118 (Mesiolingual) 1 0.333 0 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

129 (Hypoconulid ) 1 0.167 0 --> 1

138 (Posteriormos) 1 0.111 2 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

154 (Anteroposter) 1 0.077 1 ==> 0

157 (Condyle posi) 1 0.087 2 --> 1

188 (Lacrimal for) 1 0.400 1 --> 0

207 (Maxillary-ju) 1 0.100 0 ==> 1

220 (Frontal and ) 1 0.091 1 --> 0

227 (Postorbital ) 2 0.071 2 ==> 0

230 (Dorsal proce) 1 0.167 0 ==> 1

236 (Frontal/alis) 1 0.167 0 ==> 2

239 (Frontopariet) 1 0.118 2 ==> 1

240 (Temporal lin) 1 0.167 0 ==> 1

268 (Glenoid proc) 1 0.182 2 ==> 0

286 (Bony vascula) 1 0.250 0 ==> 1

329 (Jugular fora) 1 0.111 1 ==> 0

337 (Ant crus ect) 1 0.250 0 ==> 1

341 (Entotympanic) 1 0.200 0 ==> 1

348 (Crista petro) 1 0.077 0 ==> 1

366 (Number of lu) 1 0.167 0 ==> 1

372 (Acromion) 1 0.250 0 ==> 1

376 (Supinator ri) 1 0.071 0 ==> 1

410 (Astragalar n) 1 0.133 1 ==> 2

416 (Ectal (post ) 1 0.154 2 ==> 1

425 (Proportions ) 1 0.095 1 ==> 0

node\_100 --> node\_99 5 (Lower diastema) 1 0.200 0 --> 1

10 (Upper anterio) 1 0.111 1 ==> 0

12 (Anteriormost ) 1 0.200 0 --> 2

22 (Lower anterio) 2 0.231 0 --> 2

26 (Shape of inci) 1 0.200 2 --> 0

28 (Upper canine ) 1 0.125 0 --> 1

29 (Lower canine) 1 0.118 1 --> 2

34 (Tall, trencha) 1 0.250 0 ==> 2

36 (P1 roots) 1 0.154 1 --> 0

39 (Penult upper ) 1 0.125 1 ==> 2

44 (Ult upper pre) 1 0.182 1 ==> 2

45 (Ult upper pre) 1 0.100 0 --> 2

47 (Ult upper pre) 1 0.071 0 --> 1

60 (Ult lower pre) 2 0.069 2 --> 0

63 (Ult lower pre) 1 0.105 0 --> 1

68 (Size (area) o) 1 0.087 0 --> 1

70 (Size (area) o) 2 0.105 0 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 2

98 (Paraconule) 1 0.105 0 --> 2

99 (Metaconule) 1 0.095 0 --> 2

103 (Procumbent p) 1 0.125 1 ==> 0

104 (Protocone la) 1 0.111 1 --> 2

115 (Paraconid) 1 0.125 0 --> 1

116 (Paraconid he) 1 0.250 0 --> 1

128 (Hypoconulid) 1 0.125 3 ==> 1

139 (Depth of man) 1 0.100 0 ==> 1

140 (Space betwee) 1 0.111 1 ==> 0

181 (Maxillary pr) 1 0.250 1 ==> 0

200 (Minor palati) 1 0.222 0 --> 1

208 (Jugal-lacrim) 1 0.167 1 --> 0

209 (Zygomatic ar) 1 0.125 1 ==> 0

216 (Groove conne) 1 0.091 1 --> 0

224 (Foramen for ) 1 0.100 1 --> 0

235 (Orbitotempor) 1 0.125 0 --> 1

251 (Entopterygoi) 1 0.143 1 --> 2

253 (Ectopterygoi) 1 0.200 1 ==> 2

275 (Suprameatal ) 1 0.111 1 ==> 0

276 (Entoglenoid ) 1 0.133 1 --> 0

283 (Medial flang) 1 0.125 0 ==> 1

308 (Hypotympanic) 1 0.214 2 ==> 3

397 (Patellar fac) 1 0.154 1 --> 2

node\_99 --> node\_94 12 (Anteriormost ) 1 0.200 2 --> 3

24 (Lower post. i) 1 0.067 1 --> 0

86 (Metacone posi) 1 0.143 2 --> 1

97 (Labial edges ) 1 0.087 1 ==> 0

158 (Mandibular s) 1 0.200 0 ==> 1

177 (Naso-frontal) 1 0.083 0 --> 1

212 (Shape of zyg) 1 0.111 0 ==> 1

213 (Molar roots ) 1 0.083 1 ==> 0

237 (Sphenorbital) 1 0.091 1 --> 0

238 (Frontal leng) 1 0.118 1 ==> 0

250 (Midline cres) 1 0.100 0 --> 1

257 (Exit for max) 1 0.500 2 ==> 1

261 (Alisphenoid ) 1 0.100 1 --> 0

265 (Glenoid foss) 1 0.143 0 ==> 1

284 (RTPP) 1 0.286 0 ==> 2

319 (Cochlear can) 1 1.000 0 ==> 1

321 (Fenestra coc) 1 1.000 0 ==> 1

322 (Posterior se) 1 1.000 0 ==> 1

326 ("Tympanic pr) 2 0.133 0 ==> 2

339 (Elongate oss) 1 0.125 0 ==> 1

356 (Dorsal relie) 1 0.250 0 ==> 1

357 (Atlantal for) 1 0.200 0 ==> 1

386 (Scaphoid and) 1 0.500 0 --> 1

413 (Astragalar c) 1 0.118 2 --> 0

414 (Posterior tr) 1 0.500 0 ==> 1

426 (Deep groove ) 1 0.091 0 ==> 1

node\_94 --> Plesiadapis 9 (Lower incisors) 1 0.190 2 ==> 1

43 (Penult upper ) 1 0.300 1 --> 2

61 (Ult lower pre) 1 0.154 2 ==>

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67 (Size (area) o) 1 0.154 1 ==> 2

68 (Size (area) o) 1 0.087 1 ==> 2

69 (Size (area) o) 1 0.118 1 ==> 2

115 (Paraconid) 1 0.125 1 --> 0

157 (Condyle posi) 1 0.087 2 --> 1

171 (Infraorbital) 1 0.111 1 ==> 2

182 (Preorbital l) 1 0.083 0 ==> 1

184 (Facial proce) 1 0.067 1 ==> 0

188 (Lacrimal for) 1 0.400 1 --> 0

191 (Premaxilla, ) 1 0.143 1 ==> 0

215 (Lacrimal con) 1 0.091 1 ==> 0

234 (Suboptic for) 1 0.125 0 ==> 1

246 (Choanae) 1 0.091 0 --> 1

255 (Ectopterygoi) 1 0.250 0 ==> 1

276 (Entoglenoid ) 1 0.133 0 --> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

296 (Facial nerve) 1 0.500 2 --> 0

315 (Foramen for ) 1 0.143 0 ==> 2

317 (Ascending ca) 1 0.286 1 ==> 2

336 (Ectotympanic) 1 0.200 0 --> 1

397 (Patellar fac) 1 0.154 2 --> 1

405 (Radius of cu) 1 0.067 1 ==> 0

425 (Proportions ) 1 0.095 1 ==> 0

node\_94 --> node\_93 3 (Postcanine loc) 1 0.150 2 ==> 1

5 (Lower diastema) 1 0.200 1 --> 0

11 (Upper incisor) 1 0.176 1 ==> 0

12 (Anteriormost ) 1 0.200 3 --> 4

13 (Anteriormost ) 1 0.182 0 ==> 4

19 (Lower anterio) 1 0.182 1 ==> 0

20 (Lower anterio) 1 0.077 1 ==> 0

22 (Lower anterio) 2 0.231 2 --> 0

27 (Upper canine) 1 0.111 1 --> 0

29 (Lower canine) 1 0.118 2 --> 1

33 (Premolars) 1 0.188 2 ==> 1

60 (Ult lower pre) 2 0.069 0 --> 2

104 (Protocone la) 1 0.111 2 --> 1

124 (Cristid obli) 1 0.190 3 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 2

128 (Hypoconulid) 1 0.125 1 --> 0

137 (Anteriormost) 2 0.120 3 ==> 1

154 (Anteroposter) 1 0.077 1 ==> 0

160 (Mandibular s) 1 0.143 0 ==> 1

166 (Premaxilla, ) 1 0.222 2 ==> 1

175 (Nasal overha) 1 0.125 0 ==> 1

192 (Incisive for) 1 0.091 0 --> 1

203 (Posterior ed) 1 0.118 1 ==> 0

222 (Ethmoid expo) 1 0.500 0 --> 1

227 (Postorbital ) 2 0.071 2 ==> 0

230 (Dorsal proce) 1 0.167 0 ==> 1

251 (Entopterygoi) 1 0.143 2 --> 1

268 (Glenoid proc) 1 0.182 2 --> 1

286 (Bony vascula) 1 0.250 0 ==> 1

376 (Supinator ri) 1 0.071 0 --> 1

390 (Articular su) 1 0.083 1 --> 0

408 (Astragalar s) 1 0.143 1 ==> 0

410 (Astragalar n) 1 0.133 1 ==> 2

413 (Astragalar c) 1 0.118 0 --> 1

415 (Calcaneal wi) 1 0.111 0 ==> 1

416 (Ectal (post ) 1 0.154 2 ==> 1

421 (Calcaneal pl) 1 0.143 1 ==> 2

425 (Proportions ) 1 0.095 1 ==> 2

node\_93 --> Northarctus 29 (Lower canine) 1 0.118 1 ==> 0

32 (Canines diver) 1 0.250 0 ==> 1

37 (P1 posterior ) 1 0.083 0 ==> 1

68 (Size (area) o) 1 0.087 1 --> 0

70 (Size (area) o) 1 0.105 2 ==> 1

100 (Internal con) 1 0.100 0 ==> 1

128 (Hypoconulid) 1 0.125 0 --> 2

173 (Nasal) 1 0.133 2 ==> 1

198 (Postpalatine) 1 0.071 1 ==> 0

208 (Jugal-lacrim) 1 0.167 0 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 1

424 (Orientation ) 1 0.125 1 ==> 2

node\_93 --> Adapis 4 (Upper diastema) 1 0.125 0 ==> 3

26 (Shape of inci) 1 0.200 0 --> 1

99 (Metaconule) 1 0.095 2 --> 0

144 (Coronoid cre) 1 0.118 1 ==> 2

153 (Angular proc) 1 0.091 0 ==> 1

196 (Anterior ext) 1 0.143 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 2

250 (Midline cres) 1 0.100 1 --> 0

node\_99 --> node\_98 3 (Postcanine loc) 1 0.150 2 ==> 3

4 (Upper diastema) 1 0.125 0 ==> 2

7 (Incisor shape) 1 0.333 0 ==> 1

13 (Anteriormost ) 1 0.182 0 ==> 2

16 (Upper anterio) 1 0.250 0 --> 1

17 (Enamel distri) 1 0.143 0 ==> 1

21 (Lower anterio) 1 0.200 0 ==> 1

22 (Lower anterio) 1 0.231 2 ==> 3

23 (Lower anterio) 1 0.200 0 ==> 1

27 (Upper canine) 1 0.111 1 ==> 2

33 (Premolars) 1 0.188 2 ==> 3

73 (Upper molar s) 1 0.188 2 --> 3

74 (Metastylar an) 1 0.158 1 --> 3

91 (Centrocrista) 1 0.143 0 ==> 2

94 (Preprotocrist) 1 0.167 1 --> 2

106 (Precingulum ) 1 0.111 2 --> 0

112 (Last upper m) 1 0.200 0 ==> 1

122 (Protocristid) 1 0.083 0 --> 1

134 (Labial postc) 1 0.077 1 ==> 0

146 (Anteroventra) 1 0.125 0 ==> 1

151 (Lower jaw an) 1 0.500 0 --> 1

155 (Condylar pro) 1 0.143 1 ==> 0

159 (Mandibular s) 1 0.118 1 --> 2

171 (Infraorbital) 1 0.111 1 ==> 0

172 (Infraorbital) 1 0.167 0 ==> 1

186 (Lacrimal for) 1 0.125 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 2

200 (Minor palati) 1 0.222 1 --> 2

217 (Sphenopalati) 1 0.222 0 --> 1

229 (Postorbital ) 1 0.333 1 --> 0

266 (Glenoid foss) 1 0.364 0 ==> 2

267 (Glenoid foss) 1 0.125 0 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 0

272 (Postglenoid ) 1 0.286 0 ==> 2

310 (Epitympanic ) 1 0.250 1 ==> 2

311 (Fossa incudi) 1 0.125 1 --> 0

312 (Squamosal ep) 1 0.143 1 --> 0

334 (Paroccipital) 1 0.167 0 ==> 2

335 (Ectotympanic) 1 0.500 1 --> 0

336 (Ectotympanic) 1 0.200 0 --> 2

344 (Dorsum sella) 1 0.250 1 --> 0

383 (Central proc) 1 0.143 0 ==> 1

392 (Greater troc) 2 0.083 0 ==> 2

393 (Size of less) 1 0.100 0 --> 1

407 (Sustentacula) 1 0.083 1 ==> 0

419 (Calcaneal su) 1 0.333 1 --> 0

420 (Calcaneal an) 1 0.273 2 --> 1

node\_98 --> node\_95 8 (Upper incisors) 1 0.208 3 ==> 4

9 (Lower incisors) 1 0.190 2 ==> 3

16 (Upper anterio) 1 0.250 1 --> 2

39 (Penult upper ) 1 0.125 2 ==> 0

43 (Penult upper ) 1 0.300 1 ==> 0

49 (Ult upper pre) 1 0.200 0 --> 1

132 (Mesoconid) 1 0.500 0 ==> 1

136 (Number of me) 1 0.250 0 --> 1

142 (Coronoid pro) 1 0.077 0 --> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

156 (Condyle shap) 1 0.133 0 --> 2

235 (Orbitotempor) 1 0.125 1 --> 0

239 (Frontopariet) 1 0.118 2 --> 1

258 (Number of ma) 1 0.500 1 --> 0

262 (Posterior op) 1 0.143 0 --> 1

279 (Cavum epipte) 1 0.200 1 --> 3

296 (Facial nerve) 1 0.500 2 --> 0

297 (Tympanic ape) 1 0.231 1 --> 0

301 (Bony shelf l) 1 0.095 2 --> 1

305 (Area occupie) 1 0.111 1 --> 0

308 (Hypotympanic) 1 0.214 3 --> 0

324 (Posterior bo) 1 0.250 0 --> 1

328 (Inferior pet) 1 0.300 2 --> 1

333 (Hypoglossal ) 1 0.143 0 --> 1

391 (Fovea for li) 1 0.182 0 --> 2

node\_95 --> Tribosphenomys 63 (Ult lower pre) 1 0.105 1 --> 0

68 (Size (area) o) 1 0.087 1 --> 0

70 (Size (area) o) 1 0.105 2 ==> 1

73 (Upper molar s) 1 0.188 3 --> 2

74 (Metastylar an) 1 0.158 3 --> 0

89 (Orientation o) 1 0.100 1 ==> 0

94 (Preprotocrist) 1 0.167 2 --> 1

97 (Labial edges ) 1 0.087 1 ==> 2

108 (Hypocone on ) 1 0.125 2 ==> 1

157 (Condyle posi) 1 0.087 2 --> 1

node\_95 --> Paramys 69 (Size (area) o) 1 0.118 1 ==> 2

72 (Upper molar s) 1 0.095 2 ==>

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80 (Stylar cusp C) 1 0.091 0 ==> 1

95 (Postprotocris) 1 0.154 0 ==> 2

106 (Precingulum ) 1 0.111 0 --> 2

125 (Trigonid hei) 1 0.100 1 ==> 2

130 (Entoconid) 1 0.111 2 ==> 1

203 (Posterior ed) 1 0.118 1 ==> 2

213 (Molar roots ) 1 0.083 1 ==> 0

405 (Radius of cu) 1 0.067 1 ==> 0

424 (Orientation ) 1 0.125 1 ==> 2

node\_98 --> node\_97 45 (Ult upper pre) 1 0.100 2 --> 0

47 (Ult upper pre) 1 0.071 1 --> 0

48 (Ult upper pre) 1 0.091 1 --> 0

83 ((Pre)paracing) 1 0.167 2 ==> 0

85 (Metacone size) 1 0.133 1 ==> 0

98 (Paraconule) 1 0.105 2 --> 0

99 (Metaconule) 1 0.095 2 --> 0

163 (Mandibular f) 1 0.150 2 --> 1

198 (Postpalatine) 1 0.071 1 --> 0

199 (Posterior na) 1 0.083 1 --> 0

236 (Frontal/alis) 1 0.167 0 --> 2

246 (Choanae) 1 0.091 0 --> 1

278 (Carotid fora) 1 1.000 1 --> 2

289 (Stapedial ar) 1 0.125 0 --> 1

294 (Kidney (or b) 1 0.500 0 --> 1

304 (Tensor tympa) 1 0.125 0 --> 1

313 (Fossa incudi) 1 0.500 0 --> 2

315 (Foramen for ) 1 0.143 0 --> 2

317 (Ascending ca) 1 0.286 1 --> 2

330 (Jugular fora) 1 0.111 1 --> 0

337 (Ant crus ect) 1 0.250 0 --> 1

379 (Supratrochle) 1 0.111 0 --> 1

396 (Distal femur) 1 0.125 0 --> 1

417 (Overlap betw) 1 0.250 1 --> 2

node\_97 --> node\_96 40 (Penult upper ) 1 0.154 0 --> 1

45 (Ult upper pre) 1 0.100 0 --> 1

58 (Penult lower ) 1 0.167 0 --> 1

59 (Penult lower ) 1 0.250 0 ==> 1

63 (Ult lower pre) 1 0.105 1 ==> 2

208 (Jugal-lacrim) 1 0.167 0 ==> 1

node\_96 --> Rhombomylus 8 (Upper incisors) 1 0.208 3 ==> 4

9 (Lower incisors) 1 0.190 2 ==> 3

16 (Upper anterio) 1 0.250 1 --> 2

46 (Ult upper pre) 1 0.167 0 ==> 1

48 (Ult upper pre) 1 0.091 0 --> 1

60 (Ult lower pre) 2 0.069 0 ==> 2

62 (Ultimate lowe) 1 0.143 1 ==> 0

69 (Size (area) o) 1 0.118 1 ==> 2

87 (Paracone and ) 1 0.143 1 ==> 0

110 (Upper molar ) 1 0.250 0 ==> 1

127 (Talonid widt) 1 0.125 2 ==> 1

129 (Hypoconulid ) 1 0.167 0 ==> 1

154 (Anteroposter) 1 0.077 1 ==> 0

210 (Orientation ) 1 0.143 1 ==> 2

227 (Postorbital ) 2 0.071 2 ==> 0

230 (Dorsal proce) 1 0.167 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 0

250 (Midline cres) 1 0.100 0 ==> 1

272 (Postglenoid ) 1 0.286 2 ==> 1

339 (Elongate oss) 1 0.125 0 ==> 1

374 (Greater tube) 1 0.111 0 ==> 1

423 (Calcaneal fa) 1 0.091 1 ==> 0

425 (Proportions ) 1 0.095 1 ==> 2

node\_96 --> Gomphos 58 (Penult lower ) 1 0.167 1 --> 2

59 (Penult lower ) 1 0.250 1 ==> 2

80 (Stylar cusp C) 1 0.091 0 ==> 1

99 (Metaconule) 1 0.095 0 --> 2

132 (Mesoconid) 1 0.500 0 ==> 1

173 (Nasal) 1 0.133 2 ==> 1

182 (Preorbital l) 1 0.083 0 ==> 1

192 (Incisive for) 1 0.091 0 ==> 1

200 (Minor palati) 1 0.222 2 --> 1

251 (Entopterygoi) 1 0.143 2 --> 1

253 (Ectopterygoi) 1 0.200 2 ==> 1

263 (Posterior bo) 1 0.100 0 ==> 1

266 (Glenoid foss) 1 0.364 2 ==> 3

268 (Glenoid proc) 1 0.182 2 ==> 1

283 (Medial flang) 1 0.125 1 ==> 0

368 (Sacral verte) 1 0.143 1 ==> 0

376 (Supinator ri) 1 0.071 0 ==> 1

390 (Articular su) 1 0.083 1 ==> 0

405 (Radius of cu) 1 0.067 1 ==> 0

410 (Astragalar n) 1 0.133 1 ==> 2

415 (Calcaneal wi) 1 0.111 0 ==> 1

416 (Ectal (post ) 1 0.154 2 ==> 1

425 (Proportions ) 1 0.095 1 ==> 0

node\_97 --> Mimotona 63 (Ult lower pre) 1 0.105 1 --> 0

68 (Size (area) o) 1 0.087 1 --> 0

203 (Posterior ed) 1 0.118 1 ==> 0

node\_101 --> Erinaceus 67 (Size (area) o) 1 0.154 1 ==> 0

82 (Stylar cusp E) 1 0.222 2 ==> 0

97 (Labial edges ) 1 0.087 1 ==> 0

102 (Protocone an) 1 0.091 1 ==> 0

128 (Hypoconulid) 1 0.125 3 ==> 0

142 (Coronoid pro) 1 0.077 0 ==> 1

163 (Mandibular f) 1 0.150 2 ==> 3

174 (Shape ratio ) 1 0.200 0 ==> 1

185 (Lacrimal tub) 1 0.083 1 ==> 0

194 (Palatal vacu) 1 0.500 0 ==> 1

206 (Jugal contri) 1 0.250 0 ==> 1

217 (Sphenopalati) 1 0.222 0 ==> 1

221 (Orbital proc) 1 0.125 0 ==> 1

234 (Suboptic for) 1 0.125 0 ==> 1

266 (Glenoid foss) 1 0.364 0 ==> 4

272 (Postglenoid ) 1 0.286 0 ==> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

281 (Basisphenoid) 1 0.250 0 ==> 1

297 (Tympanic ape) 1 0.231 1 ==> 2

301 (Bony shelf l) 1 0.095 2 --> 1

310 (Epitympanic ) 1 0.250 1 ==> 0

323 (Mastoid proc) 1 0.133 2 --> 0

334 (Paroccipital) 1 0.167 0 ==> 2

351 (Posttemporal) 1 0.091 1 ==> 0

362 (Axis anterio) 1 0.286 0 ==> 1

377 (Medial epico) 1 0.111 0 ==> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

386 (Scaphoid and) 1 0.500 0 ==> 1

391 (Fovea for li) 1 0.182 0 ==> 2

393 (Size of less) 1 0.100 0 --> 1

412 (Facet on ast) 1 0.067 0 --> 1

415 (Calcaneal wi) 1 0.111 0 ==> 1

421 (Calcaneal pl) 1 0.143 1 ==> 0

node\_102 --> Blarina 13 (Anteriormost ) 1 0.182 0 ==> 1

17 (Enamel distri) 1 0.143 0 ==> 1

22 (Lower anterio) 3 0.231 0 ==> 3

23 (Lower anterio) 1 0.200 0 ==> 1

28 (Upper canine ) 1 0.125 0 --> 1

43 (Penult upper ) 1 0.300 1 ==> 0

45 (Ult upper pre) 1 0.100 0 ==> 2

50 (Ult upper pre) 1 0.167 0 ==> 1

62 (Ultimate lowe) 1 0.143 0 ==> 2

69 (Size (area) o) 1 0.118 1 ==> 0

73 (Upper molar s) 1 0.188 2 ==> 1

80 (Stylar cusp C) 1 0.091 0 ==> 1

83 ((Pre)paracing) 1 0.167 2 ==> 0

85 (Metacone size) 1 0.133 1 ==> 2

89 (Orientation o) 1 0.100 1 ==> 0

91 (Centrocrista) 1 0.143 0 ==> 1

92 (Postmetacrist) 1 0.125 2 ==> 0

97 (Labial edges ) 1 0.087 1 ==> 2

118 (Mesiolingual) 1 0.333 0 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

126 (Trigonid to ) 1 0.200 2 ==> 1

136 (Number of me) 1 0.250 0 ==> 1

138 (Posteriormos) 1 0.111 2 ==> 3

144 (Coronoid cre) 1 0.118 1 ==> 0

156 (Condyle shap) 1 0.133 0 ==> 1

171 (Infraorbital) 1 0.111 1 ==> 2

178 (Nasofrontal ) 1 0.143 0 ==> 1

204 (Zygomatic pr) 1 0.200 0 ==> 1

215 (Lacrimal con) 1 0.091 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 0

255 (Ectopterygoi) 1 0.250 0 ==> 1

271 (Postglenoid ) 1 0.143 1 ==> 0

277 (Posttympanic) 1 0.200 0 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

297 (Tympanic ape) 1 0.231 1 ==> 3

308 (Hypotympanic) 1 0.214 2 --> 0

313 (Fossa incudi) 1 0.500 0 ==> 1

316 (Foramen for ) 1 0.333 1 ==> 0

326 ("Tympanic pr) 1 0.133 1 ==> 2

333 (Hypoglossal ) 1 0.143 0 ==> 1

344 (Dorsum sella) 1 0.250 1 ==> 0

347 (Wall separat) 1 0.250 2 ==> 1

353 (Mastoid fora) 1 0.125 1 ==> 0

368 (Sacral verte) 1 0.143 1 ==> 0

371 (Suprascapula) 1 0.200 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 2

405 (Radius of cu) 1 0.067 1 ==> 0

409 (Astragalar m) 1 0.091 0 ==> 1

410 (Astragalar n) 1 0.133 1 ==> 2

413 (Astragalar c) 1 0.118 2 --> 0

node\_106 --> node\_105 6 (Dental eruptio) 1 0.200 0 --> 1

19 (Lower anterio) 1 0.182 1 --> 2

34 (Tall, trencha) 1 0.250 0 --> 1

53 (First lower p) 1 0.125 1 --> 0

54 (p1-p2 diastem) 1 0.083 0 --> 1

70 (Size (area) o) 1 0.105 1 --> 2

72 (Upper molar s) 1 0.095 1 ==> 2

78 (Stylar cusp A) 1 0.250 0 ==> 1

84 (Deep ectoflex) 1 0.200 2 ==> 1

85 (Metacone size) 1 0.133 1 --> 0

87 (Paracone and ) 1 0.143 1 ==> 0

102 (Protocone an) 1 0.091 1 ==> 0

107 (Postcingulum) 1 0.143 2 --> 0

121 (Protoconid h) 1 0.167 1 ==> 0

125 (Trigonid hei) 1 0.100 1 ==> 0

127 (Talonid widt) 2 0.125 2 ==> 0

174 (Shape ratio ) 1 0.200 0 --> 1

196 (Anterior ext) 1 0.143 1 --> 2

223 (Ethmoid fora) 1 0.111 1 --> 0

243 (Anterior lam) 1 0.500 2 --> 1

253 (Ectopterygoi) 1 0.200 1 --> 0

262 (Posterior op) 1 0.143 0 ==> 1

276 (Entoglenoid ) 1 0.133 1 --> 2

280 (Alisphenoid ) 1 0.111 0 --> 1

281 (Basisphenoid) 1 0.250 0 --> 1

315 (Foramen for ) 1 0.143 0 --> 1

331 (Hypoglossal ) 1 0.222 1 --> 0

362 (Axis anterio) 1 0.286 0 --> 1

366 (Number of lu) 1 0.167 0 --> 1

421 (Calcaneal pl) 1 0.143 1 --> 0

424 (Orientation ) 1 0.125 1 --> 2

node\_105 --> node\_104 9 (Lower incisors) 1 0.190 2 --> 1

73 (Upper molar s) 2 0.188 2 ==> 0

79 (Stylar cusp B) 1 0.182 0 ==> 1

81 (Stylar cusp D) 1 0.200 0 ==> 1

86 (Metacone posi) 1 0.143 1 --> 0

89 (Orientation o) 1 0.100 1 ==> 0

91 (Centrocrista) 1 0.143 0 --> 2

92 (Postmetacrist) 1 0.125 2 ==> 0

97 (Labial edges ) 1 0.087 1 --> 2

107 (Postcingulum) 1 0.143 0 --> 1

123 (Talonid) 1 0.333 1 --> 0

126 (Trigonid to ) 1 0.200 2 --> 1

128 (Hypoconulid) 1 0.125 3 ==> 2

130 (Entoconid) 2 0.111 2 --> 0

138 (Posteriormos) 1 0.111 2 ==> 3

171 (Infraorbital) 1 0.111 1 --> 2

172 (Infraorbital) 1 0.167 0 ==> 1

199 (Posterior na) 1 0.083 0 --> 1

301 (Bony shelf l) 2 0.095 2 ==> 0

326 ("Tympanic pr) 1 0.133 1 ==> 2

node\_104 --> Solenodon 12 (Anteriormost ) 1 0.200 2 --> 3

18 (Ultimate uppe) 1 0.400 0 ==> 1

68 (Size (area) o) 1 0.087 1 ==> 0

105 (Protocone he) 1 0.250 1 ==> 0

126 (Trigonid to ) 1 0.200 1 ==> 0

145 (Portion of t) 1 0.200 0 ==> 1

152 (Angular proc) 1 0.200 0 --> 2

154 (Anteroposter) 1 0.077 1 --> 0

196 (Anterior ext) 1 0.143 2 --> 1

217 (Sphenopalati) 1 0.222 0 ==> 1

221 (Orbital proc) 1 0.125 0 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

280 (Alisphenoid ) 1 0.111 1 --> 0

281 (Basisphenoid) 1 0.250 1 --> 0

298 (Prootic cana) 1 0.250 1 ==> 0

308 (Hypotympanic) 1 0.214 2 --> 0

338 (Anterior cru) 1 0.250 0 ==> 1

361 (Axis with ex) 1 0.333 1 ==> 0

374 (Greater tube) 1 0.111 1 ==> 0

383 (Central proc) 1 0.143 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

387 (Centrale) 1 0.143 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 2

410 (Astragalar n) 1 0.133 1 ==> 2

node\_104 --> node\_103 13 (Anteriormost ) 1 0.182 0 --> 2

24 (Lower post. i) 1 0.067 0 ==> 1

34 (Tall, trencha) 1 0.250 1 --> 2

39 (Penult upper ) 1 0.125 1 --> 0

44 (Ult upper pre) 1 0.182 1 ==> 2

46 (Ult upper pre) 1 0.167 2 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 1

64 (Length of ult) 1 0.143 0 ==> 1

65 (Ultimate lowe) 1 0.091 0 --> 1

74 (Metastylar an) 1 0.158 0 --> 1

79 (Stylar cusp B) 1 0.182 1 --> 2

144 (Coronoid cre) 1 0.118 1 ==> 0

176 (Nasal of adu) 1 1.000 0 ==> 1

184 (Facial proce) 1 0.067 1 --> 0

195 (Major palati) 1 0.500 0 ==> 1

223 (Ethmoid fora) 1 0.111 0 --> 1

224 (Foramen for ) 1 0.100 1 ==> 0

248 (Pterygoids c) 1 0.167 1 ==> 0

260 (Foramen oval) 1 0.182 1 ==> 2

275 (Suprameatal ) 1 0.111 1 ==> 0

282 (Basicochlear) 1 0.111 0 ==> 1

293 (Promontorium) 1 0.071 1 ==> 0

313 (Fossa incudi) 1 0.500 0 ==> 1

331 (Hypoglossal ) 1 0.222 0 --> 1

390 (Articular su) 1 0.083 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 0

393 (Size of less) 1 0.100 0 --> 1

405 (Radius of cu) 1 0.067 1 ==> 0

407 (Sustentacula) 1 0.083 0 --> 1

409 (Astragalar m) 1 0.091 0 ==> 1

425 (Proportions ) 1 0.095 1 --> 2

node\_103 --> Potamogale 13 (Anteriormost ) 1 0.182 2 --> 3

39 (Penult upper ) 1 0.125 0 --> 2

45 (Ult upper pre) 1 0.100 0 ==> 2

48 (Ult upper pre) 1 0.091 1 ==> 0

57 (Penult lower ) 1 0.083 0 ==> 1

69 (Size (area) o) 1 0.118 1 ==> 2

73 (Upper molar s) 1 0.188 0 --> 1

80 (Stylar cusp C) 1 0.091 0 ==> 1

91 (Centrocrista) 1 0.143 2 --> 0

103 (Procumbent p) 1 0.125 1 ==> 0

107 (Postcingulum) 1 0.143 1 --> 0

121 (Protoconid h) 1 0.167 0 ==> 1

123 (Talonid) 1 0.333 0 --> 1

126 (Trigonid to ) 1 0.200 1 --> 2

130 (Entoconid) 2 0.111 0 --> 2

137 (Anteriormost) 2 0.120 2 ==> 0

153 (Angular proc) 1 0.091 1 ==> 0

157 (Condyle posi) 1 0.087 1 ==> 0

159 (Mandibular s) 1 0.118 2 ==> 1

183 (Lacrimal) 1 0.500 0 ==> 1

188 (Lacrimal for) 1 0.400 0 ==> 1

198 (Postpalatine) 1 0.071 1 ==> 0

199 (Posterior na) 1 0.083 1 --> 0

210 (Orientation ) 1 0.143 1 ==> 0

214 (Palatine rea) 1 0.067 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

219 (Maxilla in t) 1 0.111 1 ==> 0

220 (Frontal and ) 1 0.091 1 --> 0

234 (Suboptic for) 1 0.125 0 ==> 1

235 (Orbitotempor) 1 0.125 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 0

239 (Frontopariet) 1 0.118 0 ==> 1

242 (Nuchal crest) 1 0.154 1 ==> 0

277 (Posttympanic) 1 0.200 0 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 2

307 (Medial proce) 1 0.250 0 ==> 1

308 (Hypotympanic) 1 0.214 2 --> 1

323 (Mastoid proc) 1 0.133 2 --> 0

333 (Hypoglossal ) 1 0.143 0 ==> 1

351 (Posttemporal) 1 0.091 1 ==> 0

353 (Mastoid fora) 1 0.125 1 ==> 0

368 (Sacral verte) 2 0.143 2 ==> 0

371 (Suprascapula) 1 0.200 1 ==> 0

372 (Acromion) 1 0.250 0 ==> 1

373 (Metacromion) 1 0.125 1 ==> 0

377 (Medial epico) 1 0.111 0 ==> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

394 (Third trocha) 1 0.167 1 ==> 0

397 (Patellar fac) 1 0.154 1 ==> 2

401 (Tibia and fi) 1 0.111 0 ==> 1

403 (Astragalus, ) 1 0.214 2 ==> 1

412 (Facet on ast) 1 0.067 1 --> 0

415 (Calcaneal wi) 1 0.111 0 ==> 1

420 (Calcaneal an) 1 0.273 1 ==> 0

426 (Deep groove ) 1 0.091 1 --> 0

node\_103 --> Tenrec 4 (Upper diastema) 1 0.125 3 ==> 2

8 (Upper incisors) 1 0.208 2 ==> 3

10 (Upper anterio) 1 0.111 0 ==> 1

11 (Upper incisor) 1 0.176 1 ==> 0

14 (Anteriormost ) 1 0.250 0 ==> 1

19 (Lower anterio) 1 0.182 2 --> 0

20 (Lower anterio) 1 0.077 0 ==> 1

27 (Upper canine) 1 0.111 1 ==> 0

28 (Upper canine ) 1 0.125 0 --> 1

29 (Lower canine) 1 0.118 1 ==> 0

37 (P1 posterior ) 1 0.083 0 ==> 1

40 (Penult upper ) 1 0.154 0 ==> 1

47 (Ult upper pre) 1 0.071 0 ==> 1

60 (Ult lower pre) 1 0.069 2 --> 1

62 (Ultimate lowe) 1 0.143 0 ==> 1

74 (Metastylar an) 1 0.158 1 --> 2

84 (Deep ectoflex) 1 0.200 1 ==> 2

96 (Postvallum sh) 1 0.182 1 ==> 0

106 (Precingulum ) 1 0.111 0 ==> 1

111 (Last upper m) 1 0.333 2 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

127 (Talonid widt) 2 0.125 0 ==> 2

152 (Angular proc) 1 0.200 0 --> 1

156 (Condyle shap) 1 0.133 0 ==> 2

168 (Paracanine f) 1 0.333 0 ==> 1

175 (Nasal overha) 1 0.125 1 ==> 0

186 (Lacrimal for) 1 0.125 1 ==> 0

203 (Posterior ed) 1 0.118 0 ==> 1

233 (Orbitospheno) 1 0.182 0 ==> 2

242 (Nuchal crest) 1 0.154 1 ==> 2

252 (Midline rod-) 1 0.333 0 ==> 1

262 (Posterior op) 1 0.143 1 ==> 0

270 (Postglenoid ) 1 0.133 2 ==> 0

284 (RTPP) 1 0.286 1 --> 0

302 (Tegmen tympa) 1 0.167 0 ==> 1

328 (Inferior pet) 1 0.300 2 ==>

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334 (Paroccipital) 1 0.167 0 ==> 2

348 (Crista petro) 1 0.077 0 --> 1

376 (Supinator ri) 1 0.071 0 ==> 1

421 (Calcaneal pl) 1 0.143 0 --> 1

422 (Tuber calcis) 1 0.125 1 ==> 0

423 (Calcaneal fa) 1 0.091 0 ==> 1

node\_105 --> Eoryctes 29 (Lower canine) 1 0.118 1 ==> 0

45 (Ult upper pre) 1 0.100 0 ==> 2

48 (Ult upper pre) 1 0.091 1 ==> 0

50 (Ult upper pre) 1 0.167 0 ==> 1

60 (Ult lower pre) 1 0.069 2 --> 1

61 (Ult lower pre) 1 0.154 2 ==> 0

95 (Postprotocris) 1 0.154 1 ==> 2

96 (Postvallum sh) 1 0.182 1 ==> 0

122 (Protocristid) 1 0.083 1 --> 0

181 (Maxillary pr) 1 0.250 1 --> 0

197 (Palatal expa) 2 0.118 0 ==> 2

220 (Frontal and ) 1 0.091 1 --> 0

283 (Medial flang) 1 0.125 0 ==> 1

286 (Bony vascula) 1 0.250 0 ==> 1

302 (Tegmen tympa) 1 0.167 0 ==> 1

312 (Squamosal ep) 1 0.143 0 ==> 1

323 (Mastoid proc) 1 0.133 2 --> 0

node\_118 --> node\_107 3 (Postcanine loc) 1 0.150 1 ==> 2

4 (Upper diastema) 1 0.125 3 --> 1

8 (Upper incisors) 3 0.208 2 ==> 5

13 (Anteriormost ) 1 0.182 0 --> 3

18 (Ultimate uppe) 1 0.400 0 --> 1

20 (Lower anterio) 1 0.077 0 --> 1

24 (Lower post. i) 1 0.067 0 --> 1

28 (Upper canine ) 1 0.125 1 --> 0

30 (Lower canine ) 1 0.250 1 --> 0

36 (P1 roots) 1 0.154 0 --> 1

37 (P1 posterior ) 1 0.083 0 --> 1

40 (Penult upper ) 1 0.154 0 --> 2

44 (Ult upper pre) 1 0.182 2 --> 1

45 (Ult upper pre) 1 0.100 0 --> 2

47 (Ult upper pre) 1 0.071 1 --> 0

53 (First lower p) 1 0.125 1 --> 0

54 (p1-p2 diastem) 1 0.083 0 --> 1

57 (Penult lower ) 1 0.083 0 --> 1

58 (Penult lower ) 1 0.167 0 --> 1

60 (Ult lower pre) 1 0.069 1 --> 0

63 (Ult lower pre) 2 0.105 0 --> 2

68 (Size (area) o) 1 0.087 1 --> 0

70 (Size (area) o) 1 0.105 1 --> 0

71 (Molar cusp fo) 1 0.125 0 --> 2

72 (Upper molar s) 1 0.095 1 ==> 0

73 (Upper molar s) 1 0.188 2 --> 3

74 (Metastylar an) 1 0.158 0 --> 3

82 (Stylar cusp E) 1 0.222 2 --> 1

83 ((Pre)paracing) 1 0.167 2 --> 0

85 (Metacone size) 1 0.133 1 --> 0

86 (Metacone posi) 1 0.143 1 --> 2

95 (Postprotocris) 1 0.154 1 --> 0

98 (Paraconule) 1 0.105 1 --> 0

99 (Metaconule) 1 0.095 2 --> 0

106 (Precingulum ) 1 0.111 2 --> 0

107 (Postcingulum) 1 0.143 2 --> 0

119 (Paracristid) 1 0.111 0 --> 1

120 (Trigonid con) 1 0.105 2 --> 1

124 (Cristid obli) 1 0.190 1 --> 2

125 (Trigonid hei) 1 0.100 1 --> 2

128 (Hypoconulid) 1 0.125 1 --> 0

142 (Coronoid pro) 1 0.077 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

152 (Angular proc) 1 0.200 2 ==> 1

153 (Angular proc) 1 0.091 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 0

166 (Premaxilla, ) 1 0.222 1 ==> 0

171 (Infraorbital) 1 0.111 0 ==> 1

178 (Nasofrontal ) 1 0.143 0 ==> 1

184 (Facial proce) 1 0.067 1 ==> 0

185 (Lacrimal tub) 1 0.083 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 0

202 (Maxilla expa) 1 0.250 0 ==> 1

209 (Zygomatic ar) 1 0.125 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 2

214 (Palatine rea) 1 0.067 1 ==> 0

215 (Lacrimal con) 1 0.091 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

223 (Ethmoid fora) 1 0.111 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 0

233 (Orbitospheno) 1 0.182 0 ==> 1

239 (Frontopariet) 1 0.118 1 ==> 0

241 (Nuchal crest) 1 0.100 1 --> 0

254 (Ectopterygoi) 1 0.200 0 --> 1

261 (Alisphenoid ) 1 0.100 1 ==> 0

263 (Posterior bo) 1 0.100 1 ==> 0

266 (Glenoid foss) 1 0.364 0 ==> 4

270 (Postglenoid ) 1 0.133 2 --> 0

274 (Postglenoid ) 1 0.250 0 --> 1

312 (Squamosal ep) 1 0.143 0 ==> 1

318 (Stapedius fo) 1 0.250 0 --> 1

323 (Mastoid proc) 1 0.133 0 --> 1

330 (Jugular fora) 1 0.111 0 ==> 1

336 (Ectotympanic) 1 0.200 2 ==> 1

351 (Posttemporal) 1 0.091 0 ==> 1

356 (Dorsal relie) 1 0.250 0 ==> 1

365 (Thoracic ver) 1 0.167 1 ==> 0

373 (Metacromion) 1 0.125 0 ==> 1

379 (Supratrochle) 1 0.111 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

397 (Patellar fac) 1 0.154 1 ==> 2

399 (Articulation) 1 0.500 0 ==> 1

400 (Tibia and fi) 1 0.200 0 ==> 1

402 (Depth of tro) 1 0.333 0 ==> 1

406 (Cotylar foss) 1 0.250 0 ==> 1

409 (Astragalar m) 1 0.091 0 ==> 1

417 (Overlap betw) 1 0.250 1 --> 0

421 (Calcaneal pl) 1 0.143 1 --> 0

424 (Orientation ) 1 0.125 1 ==> 2

425 (Proportions ) 1 0.095 1 --> 0

426 (Deep groove ) 1 0.091 0 --> 1

node\_107 --> Orycteropus 2 (Teeth types) 1 0.500 0 ==> 1

9 (Lower incisors) 3 0.190 1 ==> 4

27 (Upper canine) 2 0.111 0 ==> 2

29 (Lower canine) 1 0.118 1 ==> 2

33 (Premolars) 1 0.188 1 ==>

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43 (Penult upper ) 1 0.300 2 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 0

143 (Angle betwee) 1 0.133 0 ==> 1

146 (Anteroventra) 1 0.125 0 ==> 1

156 (Condyle shap) 1 0.133 0 ==> 2

163 (Mandibular f) 1 0.150 2 ==> 3

167 (Posterodorsa) 1 0.125 0 ==> 1

171 (Infraorbital) 1 0.111 1 ==> 2

175 (Nasal overha) 1 0.125 0 ==> 1

186 (Lacrimal for) 1 0.125 1 ==> 0

188 (Lacrimal for) 1 0.400 0 ==> 2

200 (Minor palati) 1 0.222 1 ==> 0

226 (Supraorbital) 1 0.091 0 ==> 1

246 (Choanae) 1 0.091 1 ==> 0

253 (Ectopterygoi) 1 0.200 1 ==> 0

267 (Glenoid foss) 1 0.125 0 ==> 1

270 (Postglenoid ) 1 0.133 0 --> 1

271 (Postglenoid ) 1 0.143 1 ==> 0

276 (Entoglenoid ) 1 0.133 1 ==> 2

295 (Promontorium) 1 0.111 0 ==> 1

311 (Fossa incudi) 1 0.125 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==> 1

317 (Ascending ca) 1 0.286 1 ==> 0

323 (Mastoid proc) 1 0.133 1 --> 2

326 ("Tympanic pr) 1 0.133 1 ==> 0

346 (Position of ) 1 0.667 0 ==> 2

348 (Crista petro) 1 0.077 1 --> 0

349 (Subarcuate f) 1 0.105 1 ==> 2

376 (Supinator ri) 1 0.071 0 ==> 1

391 (Fovea for li) 1 0.182 0 ==> 1

395 (Pectineal tu) 1 1.000 0 ==> 1

405 (Radius of cu) 1 0.067 1 ==> 0

412 (Facet on ast) 1 0.067 1 --> 0

423 (Calcaneal fa) 1 0.091 0 ==> 1

node\_107 --> Rhynchocyon 6 (Dental eruptio) 1 0.200 0 ==> 1

38 (Shape of the ) 1 0.125 1 ==> 0

50 (Ult upper pre) 1 0.167 0 ==> 1

66 (Molars) 1 0.667 1 ==> 2

67 (Size (area) o) 1 0.154 1 ==> 0

69 (Size (area) o) 1 0.118 1 ==> 0

141 (Coronoid pro) 1 0.500 0 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

174 (Shape ratio ) 1 0.200 0 ==> 1

196 (Anterior ext) 1 0.143 1 ==> 2

198 (Postpalatine) 1 0.071 1 ==> 0

199 (Posterior na) 1 0.083 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 ==> 1

228 (Postorbital ) 1 0.500 0 ==> 1

234 (Suboptic for) 1 0.125 0 ==> 1

235 (Orbitotempor) 1 0.125 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 2

245 (Foramina for) 1 0.333 1 ==> 2

280 (Alisphenoid ) 1 0.111 0 ==> 1

281 (Basisphenoid) 1 0.250 0 ==> 1

284 (RTPP) 1 0.286 0 ==> 1

286 (Bony vascula) 1 0.250 0 ==> 1

297 (Tympanic ape) 1 0.231 1 ==> 3

302 (Tegmen tympa) 1 0.167 0 ==> 1

308 (Hypotympanic) 1 0.214 0 ==> 1

310 (Epitympanic ) 1 0.250 1 ==> 2

313 (Fossa incudi) 1 0.500 0 ==> 2

326 ("Tympanic pr) 1 0.133 1 ==> 2

331 (Hypoglossal ) 1 0.222 1 ==> 0

339 (Elongate oss) 1 0.125 0 ==> 1

341 (Entotympanic) 1 0.200 0 ==> 1

343 (Hyoid contri) 1 0.333 0 ==> 1

349 (Subarcuate f) 1 0.105 1 ==> 0

353 (Mastoid fora) 1 0.125 1 ==> 0

362 (Axis anterio) 1 0.286 0 ==> 1

368 (Sacral verte) 1 0.143 2 --> 1

372 (Acromion) 1 0.250 0 ==> 1

377 (Medial epico) 1 0.111 0 ==> 1

396 (Distal femur) 1 0.125 0 ==> 1

401 (Tibia and fi) 1 0.111 0 ==> 1

410 (Astragalar n) 1 0.133 1 ==> 2

413 (Astragalar c) 1 0.118 0 ==> 2

415 (Calcaneal wi) 1 0.111 0 ==> 1

node\_118 --> node\_112 4 (Upper diastema) 1 0.125 3 ==> 2

11 (Upper incisor) 1 0.176 0 --> 1

12 (Anteriormost ) 1 0.200 0 --> 2

13 (Anteriormost ) 1 0.182 0 --> 2

17 (Enamel distri) 1 0.143 0 --> 1

20 (Lower anterio) 1 0.077 0 ==> 1

24 (Lower post. i) 1 0.067 0 --> 1

39 (Penult upper ) 1 0.125 1 ==> 2

41 (Penult upper ) 1 0.100 0 ==> 1

42 (Developed cyl) 1 0.500 0 ==> 1

46 (Ult upper pre) 1 0.167 2 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 2

59 (Penult lower ) 1 0.250 0 ==> 1

63 (Ult lower pre) 1 0.105 0 ==> 1

69 (Size (area) o) 1 0.118 1 ==> 2

70 (Size (area) o) 1 0.105 1 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 2

72 (Upper molar s) 1 0.095 1 --> 0

75 (Upper first m) 1 0.200 0 ==> 1

82 (Stylar cusp E) 1 0.222 2 ==> 1

86 (Metacone posi) 1 0.143 1 ==> 2

92 (Postmetacrist) 1 0.125 2 ==> 0

95 (Postprotocris) 1 0.154 1 --> 0

96 (Postvallum sh) 1 0.182 1 --> 0

97 (Labial edges ) 1 0.087 0 --> 1

98 (Paraconule) 1 0.105 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

112 (Last upper m) 1 0.200 0 ==> 1

114 (Presence of ) 1 0.333 0 --> 1

115 (Paraconid) 1 0.125 0 ==> 1

120 (Trigonid con) 2 0.105 2 --> 0

125 (Trigonid hei) 1 0.100 1 ==> 2

133 (Hypolophid) 1 0.500 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 0

138 (Posteriormos) 1 0.111 2 --> 3

142 (Coronoid pro) 1 0.077 0 ==> 1

143 (Angle betwee) 1 0.133 0 ==> 1

153 (Angular proc) 1 0.091 0 ==> 1

160 (Mandibular s) 1 0.143 0 ==> 1

167 (Posterodorsa) 1 0.125 0 ==> 1

171 (Infraorbital) 1 0.111 0 --> 1

173 (Nasal) 1 0.133 0 ==> 1

177 (Naso-frontal) 1 0.083 1 --> 0

191 (Premaxilla, ) 1 0.143 1 ==> 0

198 (Postpalatine) 1 0.071 1 --> 0

203 (Posterior ed) 1 0.118 0 ==> 1

217 (Sphenopalati) 1 0.222 0 ==> 1

220 (Frontal and ) 1 0.091 0 --> 1

226 (Supraorbital) 1 0.091 0 ==> 1

236 (Frontal/alis) 1 0.167 0 --> 1

247 (Vomer contac) 1 0.143 0 --> 1

254 (Ectopterygoi) 1 0.200 0 --> 1

255 (Ectopterygoi) 1 0.250 0 --> 1

259 (Foramen oval) 1 0.600 2 ==> 1

260 (Foramen oval) 1 0.182 2 ==> 1

261 (Alisphenoid ) 1 0.100 1 ==> 0

263 (Posterior bo) 1 0.100 1 ==> 0

276 (Entoglenoid ) 1 0.133 1 ==> 0

285 (Course of in) 1 0.143 0 --> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

295 (Promontorium) 1 0.111 0 ==> 1

306 (Location of ) 1 0.500 0 --> 1

310 (Epitympanic ) 1 0.250 1 --> 2

315 (Foramen for ) 1 0.143 0 --> 2

317 (Ascending ca) 1 0.286 1 --> 2

318 (Stapedius fo) 1 0.250 0 ==> 1

323 (Mastoid proc) 1 0.133 0 --> 2

326 ("Tympanic pr) 1 0.133 1 --> 0

328 (Inferior pet) 1 0.300 1 --> 2

334 (Paroccipital) 1 0.167 0 ==> 1

341 (Entotympanic) 1 0.200 0 --> 1

347 (Wall separat) 1 0.250 2 --> 1

349 (Subarcuate f) 1 0.105 1 ==> 2

353 (Mastoid fora) 1 0.125 1 ==> 0

366 (Number of lu) 1 0.167 0 --> 1

405 (Radius of cu) 1 0.067 1 ==> 0

406 (Cotylar foss) 1 0.250 0 ==> 1

407 (Sustentacula) 1 0.083 0 ==> 1

409 (Astragalar m) 1 0.091 0 ==> 1

413 (Astragalar c) 1 0.118 0 --> 2

416 (Ectal (post ) 1 0.154 2 ==> 1

421 (Calcaneal pl) 1 0.143 1 --> 2

426 (Deep groove ) 1 0.091 0 --> 1

node\_112 --> node\_110 27 (Upper canine) 1 0.111 0 ==> 1

60 (Ult lower pre) 1 0.069 1 --> 0

95 (Postprotocris) 1 0.154 0 --> 2

104 (Protocone la) 1 0.111 1 --> 2

119 (Paracristid) 1 0.111 0 --> 1

135 (Entoconid tr) 1 0.500 0 ==> 1

139 (Depth of man) 1 0.100 0 ==> 1

163 (Mandibular f) 1 0.150 2 --> 1

190 (Narial proce) 1 0.500 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 0

211 (Vertical pos) 1 0.333 0 ==> 1

227 (Postorbital ) 1 0.071 1 --> 0

233 (Orbitospheno) 1 0.182 0 ==> 1

241 (Nuchal crest) 1 0.100 1 --> 0

266 (Glenoid foss) 1 0.364 0 ==> 4

267 (Glenoid foss) 1 0.125 0 ==> 1

283 (Medial flang) 1 0.125 0 ==> 1

293 (Promontorium) 1 0.071 0 --> 1

294 (Kidney (or b) 1 0.500 0 ==> 1

297 (Tympanic ape) 1 0.231 1 --> 2

304 (Tensor tympa) 1 0.125 0 ==> 1

312 (Squamosal ep) 1 0.143 0 ==> 1

320 (Stapedial fo) 1 0.333 0 ==> 1

339 (Elongate oss) 1 0.125 0 ==> 1

342 (Hyoid pit on) 1 0.250 0 ==> 1

356 (Dorsal relie) 1 0.250 0 ==> 1

372 (Acromion) 1 0.250 0 ==> 1

373 (Metacromion) 1 0.125 0 --> 1

376 (Supinator ri) 1 0.071 0 ==> 1

379 (Supratrochle) 1 0.111 0 ==> 1

node\_110 --> node\_109 3 (Postcanine loc) 1 0.150 1 --> 2

5 (Lower diastema) 1 0.200 0 ==> 1

6 (Dental eruptio) 1 0.200 0 --> 1

8 (Upper incisors) 1 0.208 2 --> 3

9 (Lower incisors) 1 0.190 1 ==> 2

18 (Ultimate uppe) 1 0.400 0 --> 1

26 (Shape of inci) 1 0.200 1 ==> 2

27 (Upper canine) 1 0.111 1 --> 2

29 (Lower canine) 1 0.118 1 ==> 2

33 (Premolars) 1 0.188 1 --> 2

36 (P1 roots) 2 0.154 0 --> 2

40 (Penult upper ) 1 0.154 0 --> 2

41 (Penult upper ) 1 0.100 1 ==> 0

42 (Developed cyl) 1 0.500 1 ==> 0

45 (Ult upper pre) 1 0.100 0 ==> 2

46 (Ult upper pre) 1 0.167 1 ==> 0

53 (First lower p) 1 0.125 1 --> 0

64 (Length of ult) 1 0.143 0 --> 1

67 (Size (area) o) 1 0.154 1 ==> 2

68 (Size (area) o) 1 0.087 1 --> 2

73 (Upper molar s) 1 0.188 2 --> 3

74 (Metastylar an) 1 0.158 0 --> 3

82 (Stylar cusp E) 1 0.222 1 --> 2

83 ((Pre)paracing) 1 0.167 2 --> 0

92 (Postmetacrist) 1 0.125 0 --> 2

104 (Protocone la) 1 0.111 2 --> 1

107 (Postcingulum) 1 0.143 2 ==> 3

110 (Upper molar ) 1 0.250 0 --> 1

111 (Last upper m) 1 0.333 2 --> 3

114 (Presence of ) 1 0.333 1 ==> 0

122 (Protocristid) 1 0.083 0 ==> 1

135 (Entoconid tr) 1 0.500 1 --> 0

140 (Space betwee) 1 0.111 1 --> 0

141 (Coronoid pro) 1 0.500 0 ==> 1

146 (Anteroventra) 1 0.125 0 ==> 1

182 (Preorbital l) 1 0.083 1 ==> 0

211 (Vertical pos) 1 0.333 1 --> 0

219 (Maxilla in t) 1 0.111 0 --> 1

224 (Foramen for ) 1 0.100 1 --> 0

226 (Supraorbital) 1 0.091 1 --> 0

228 (Postorbital ) 1 0.500 0 --> 1

236 (Frontal/alis) 1 0.167 1 --> 0

239 (Frontopariet) 1 0.118 1 --> 0

268 (Glenoid proc) 1 0.182 2 --> 0

282 (Basicochlear) 1 0.111 0 --> 1

297 (Tympanic ape) 1 0.231 2 --> 1

351 (Posttemporal) 1 0.091 0 --> 1

354 (Amastoidy) 1 0.333 0 --> 1

372 (Acromion) 1 0.250 1 --> 2

373 (Metacromion) 1 0.125 1 --> 0

378 (Entepicondyl) 1 0.100 0 ==> 1

379 (Supratrochle) 1 0.111 1 --> 0

382 (Radius artic) 1 0.200 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

391 (Fovea for li) 1 0.182 0 --> 1

394 (Third trocha) 1 0.167 1 --> 0

411 (Astragalar h) 1 0.200 1 ==> 0

415 (Calcaneal wi) 1 0.111 0 ==> 1

420 (Calcaneal an) 1 0.273 1 ==> 3

424 (Orientation ) 1 0.125 1 --> 2

425 (Proportions ) 1 0.095 1 --> 2

426 (Deep groove ) 1 0.091 1 --> 0

node\_109 --> node\_108 57 (Penult lower ) 1 0.083 0 ==> 1

60 (Ult lower pre) 2 0.069 0 ==> 2

108 (Hypocone on ) 2 0.125 0 ==> 2

138 (Posteriormos) 2 0.111 3 ==> 1

171 (Infraorbital) 1 0.111 1 ==> 0

190 (Narial proce) 1 0.500 1 ==> 0

198 (Postpalatine) 1 0.071 0 --> 1

216 (Groove conne) 1 0.091 0 ==> 1

235 (Orbitotempor) 1 0.125 0 ==> 1

237 (Sphenorbital) 1 0.091 1 ==> 0

259 (Foramen oval) 1 0.600 1 --> 2

261 (Alisphenoid ) 1 0.100 0 ==> 1

271 (Postglenoid ) 1 0.143 1 ==> 0

376 (Supinator ri) 1 0.071 1 ==> 0

377 (Medial epico) 1 0.111 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

400 (Tibia and fi) 1 0.200 0 --> 1

401 (Tibia and fi) 1 0.111 0 --> 1

416 (Ectal (post ) 1 0.154 1 --> 2

417 (Overlap betw) 1 0.250 1 --> 0

421 (Calcaneal pl) 1 0.143 2 --> 0

node\_108 --> Procavia 3 (Postcanine loc) 1 0.150 2 --> 1

8 (Upper incisors) 1 0.208 3 ==> 4

13 (Anteriormost ) 1 0.182 2 --> 3

16 (Upper anterio) 1 0.250 0 ==> 2

33 (Premolars) 1 0.188 2 --> 1

43 (Penult upper ) 1 0.300 2 ==> 3

64 (Length of ult) 1 0.143 1 --> 0

68 (Size (area) o) 1 0.087 2 --> 1

69 (Size (area) o) 1 0.118 2 ==> 1

70 (Size (area) o) 1 0.105 2 ==> 1

80 (Stylar cusp C) 1 0.091 0 ==> 1

82 (Stylar cusp E) 1 0.222 2 --> 1

91 (Centrocrista) 1 0.143 0 ==> 1

97 (Labial edges ) 1 0.087 1 ==> 2

110 (Upper molar ) 1 0.250 1 ==> 2

115 (Paraconid) 1 0.125 1 ==> 0

125 (Trigonid hei) 1 0.100 2 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 0

129 (Hypoconulid ) 1 0.167 0 ==> 3

140 (Space betwee) 1 0.111 0 --> 1

143 (Angle betwee) 1 0.133 1 ==> 2

144 (Coronoid cre) 1 0.118 1 ==> 0

173 (Nasal) 1 0.133 1 ==> 0

177 (Naso-frontal) 1 0.083 0 --> 1

199 (Posterior na) 1 0.083 0 ==> 1

202 (Maxilla expa) 1 0.250 0 ==> 1

211 (Vertical pos) 1 0.333 0 --> 1

223 (Ethmoid fora) 1 0.111 1 ==> 0

230 (Dorsal proce) 1 0.167 0 ==> 1

236 (Frontal/alis) 1 0.167 0 --> 2

245 (Foramina for) 1 0.333 1 ==> 2

276 (Entoglenoid ) 1 0.133 0 ==> 1

295 (Promontorium) 1 0.111 1 ==> 0

346 (Position of ) 1 0.667 0 ==> 2

348 (Crista petro) 1 0.077 1 --> 0

366 (Number of lu) 1 0.167 1 --> 0

375 (Deltopectora) 1 0.083 1 ==> 0

379 (Supratrochle) 1 0.111 0 --> 1

394 (Third trocha) 1 0.167 0 --> 1

396 (Distal femur) 1 0.125 0 ==> 1

397 (Patellar fac) 1 0.154 1 ==> 2

node\_108 --> Moeritherium 4 (Upper diastema) 1 0.125 2 ==> 1

8 (Upper incisors) 1 0.208 3 --> 2

11 (Upper incisor) 1 0.176 1 --> 2

12 (Anteriormost ) 1 0.200 2 ==> 0

17 (Enamel distri) 1 0.143 1 ==> 0

27 (Upper canine) 1 0.111 2 --> 1

71 (Molar cusp fo) 1 0.125 2 ==> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

97 (Labial edges ) 1 0.087 1 ==> 0

109 (Pre- and pos) 1 0.143 0 ==> 1

110 (Upper molar ) 1 0.250 1 --> 0

111 (Last upper m) 1 0.333 3 --> 2

124 (Cristid obli) 1 0.190 1 ==> 4

136 (Number of me) 1 0.250 0 ==> 1

148 (Condyloid cr) 1 0.100 0 ==> 1

153 (Angular proc) 1 0.091 1 ==> 0

167 (Posterodorsa) 1 0.125 1 ==> 0

183 (Lacrimal) 1 0.500 0 ==> 1

203 (Posterior ed) 1 0.118 1 ==> 2

206 (Jugal contri) 1 0.250 0 ==> 1

208 (Jugal-lacrim) 1 0.167 0 ==> 1

219 (Maxilla in t) 1 0.111 1 --> 0

221 (Orbital proc) 1 0.125 0 ==> 1

227 (Postorbital ) 2 0.071 0 ==> 2

240 (Temporal lin) 1 0.167 0 ==> 1

246 (Choanae) 1 0.091 1 ==> 0

247 (Vomer contac) 1 0.143 1 ==> 0

253 (Ectopterygoi) 1 0.200 1 ==> 0

254 (Ectopterygoi) 1 0.200 1 ==> 0

257 (Exit for max) 1 0.500 2 ==> 1

267 (Glenoid foss) 1 0.125 1 ==> 0

270 (Postglenoid ) 1 0.133 2 ==> 0

293 (Promontorium) 1 0.071 1 ==> 0

331 (Hypoglossal ) 1 0.222 1 ==> 2

334 (Paroccipital) 1 0.167 1 ==> 0

339 (Elongate oss) 1 0.125 1 ==> 0

342 (Hyoid pit on) 1 0.250 1 ==> 0

350 (Internal aco) 1 0.125 1 ==> 0

391 (Fovea for li) 1 0.182 1 --> 0

node\_109 --> Pyrotherium 9 (Lower incisors) 1 0.190 2 ==> 3

11 (Upper incisor) 1 0.176 1 --> 0

12 (Anteriormost ) 1 0.200 2 ==> 1

13 (Anteriormost ) 1 0.182 2 --> 0

14 (Anteriormost ) 1 0.250 0 ==> 1

15 (Second anteri) 1 0.500 0 ==> 1

16 (Upper anterio) 1 0.250 0 ==> 1

21 (Lower anterio) 1 0.200 0 ==> 1

22 (Lower anterio) 1 0.231 0 ==> 1

23 (Lower anterio) 1 0.200 0 ==> 1

72 (Upper molar s) 1 0.095 0 --> 1

91 (Centrocrista) 1 0.143 0 ==> 2

112 (Last upper m) 1 0.200 1 ==> 0

134 (Labial postc) 1 0.077 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 2

159 (Mandibular s) 1 0.118 1 ==> 2

163 (Mandibular f) 1 0.150 1 --> 2

170 (Exit(s) of i) 1 0.400 1 ==> 0

196 (Anterior ext) 1 0.143 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

266 (Glenoid foss) 1 0.364 4 ==> 0

362 (Axis anterio) 1 0.286 0 ==> 1

363 (Cervical inf) 1 0.143 0 ==> 1

374 (Greater tube) 1 0.111 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 0

403 (Astragalus, ) 1 0.214 2 ==> 1

404 (Astragalus, ) 1 0.500 2 ==> 1

405 (Radius of cu) 1 0.067 0 ==> 1

406 (Cotylar foss) 1 0.250 1 ==> 0

409 (Astragalar m) 1 0.091 1 ==> 0

410 (Astragalar n) 1 0.133 1 ==> 0

417 (Overlap betw) 1 0.250 1 ==> 2

419 (Calcaneal su) 1 0.333 0 ==> 1

node\_110 --> Colbertia 4 (Upper diastema) 1 0.125 2 ==> 3

11 (Upper incisor) 1 0.176 1 --> 0

12 (Anteriormost ) 1 0.200 2 ==> 0

13 (Anteriormost ) 1 0.182 2 --> 0

17 (Enamel distri) 1 0.143 1 ==> 0

24 (Lower post. i) 1 0.067 1 --> 0

31 (Lower canine ) 1 0.143 0 ==> 1

59 (Penult lower ) 1 0.250 1 ==> 0

65 (Ultimate lowe) 1 0.091 0 ==> 1

72 (Upper molar s) 1 0.095 0 --> 1

97 (Labial edges ) 1 0.087 1 ==> 0

102 (Protocone an) 1 0.091 1 ==> 0

119 (Paracristid) 1 0.111 1 --> 0

124 (Cristid obli) 1 0.190 1 ==> 2

158 (Mandibular s) 1 0.200 0 ==> 1

171 (Infraorbital) 1 0.111 1 ==> 0

173 (Nasal) 1 0.133 1 ==> 0

177 (Naso-frontal) 1 0.083 0 --> 1

182 (Preorbital l) 1 0.083 1 ==> 0

227 (Postorbital ) 1 0.071 0 --> 1

238 (Frontal leng) 1 0.118 1 ==> 0

295 (Promontorium) 1 0.111 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 2

407 (Sustentacula) 1 0.083 1 ==> 0

413 (Astragalar c) 1 0.118 2 --> 0

425 (Proportions ) 1 0.095 1 ==> 0

node\_110 --> Plesiotypotheriu 3 (Postcanine loc) 2 0.150 1 ==> 3

5 (Lower diastema) 1 0.200 0 ==> 1

8 (Upper incisors) 2 0.208 2 ==> 4

9 (Lower incisors) 1 0.190 1 ==> 2

16 (Upper anterio) 1 0.250 0 ==> 1

19 (Lower anterio) 1 0.182 0 ==> 1

21 (Lower anterio) 1 0.200 0 ==> 1

27 (Upper canine) 1 0.111 1 ==> 2

29 (Lower canine) 1 0.118 1 ==> 2

33 (Premolars) 2 0.188 1 ==> 3

137 (Anteriormost) 1 0.120 0 ==>

{12}

142 (Coronoid pro) 1 0.077 1 ==> 0

144 (Coronoid cre) 1 0.118 1 ==> 0

159 (Mandibular s) 1 0.118 1 ==> 2

171 (Infraorbital) 1 0.111 1 ==> 2

172 (Infraorbital) 1 0.167 0 ==> 1

184 (Facial proce) 1 0.067 1 ==> 0

192 (Incisive for) 1 0.091 0 ==> 1

193 (Incisive for) 1 0.200 0 ==> 1

196 (Anterior ext) 1 0.143 1 ==> 0

203 (Posterior ed) 1 0.118 1 ==> 0

210 (Orientation ) 1 0.143 1 ==> 2

216 (Groove conne) 1 0.091 0 ==> 1

221 (Orbital proc) 1 0.125 0 ==> 1

232 (Optic forame) 1 0.167 0 ==> 1

268 (Glenoid proc) 1 0.182 2 ==> 1

272 (Postglenoid ) 1 0.286 0 ==> 1

276 (Entoglenoid ) 1 0.133 0 ==> 1

348 (Crista petro) 1 0.077 1 --> 0

357 (Atlantal for) 1 0.200 0 ==> 1

413 (Astragalar c) 1 0.118 2 --> 0

426 (Deep groove ) 1 0.091 1 --> 0

node\_110 --> Protypotherium 4 (Upper diastema) 1 0.125 2 ==> 3

6 (Dental eruptio) 1 0.200 0 ==> 1

31 (Lower canine ) 1 0.143 0 ==> 1

60 (Ult lower pre) 1 0.069 0 -->

{12}

62 (Ultimate lowe) 1 0.143 1 ==> 0

97 (Labial edges ) 1 0.087 1 ==> 2

144 (Coronoid cre) 1 0.118 1 ==> 0

172 (Infraorbital) 1 0.167 0 ==> 1

177 (Naso-frontal) 1 0.083 0 --> 1

192 (Incisive for) 1 0.091 0 ==> 1

202 (Maxilla expa) 1 0.250 0 ==> 1

206 (Jugal contri) 1 0.250 0 ==> 1

208 (Jugal-lacrim) 1 0.167 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 2

214 (Palatine rea) 1 0.067 1 ==> 0

215 (Lacrimal con) 1 0.091 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

220 (Frontal and ) 1 0.091 1 --> 0

236 (Frontal/alis) 1 0.167 1 --> 0

268 (Glenoid proc) 1 0.182 2 ==> 1

295 (Promontorium) 1 0.111 1 ==> 0

354 (Amastoidy) 1 0.333 0 ==> 1

357 (Atlantal for) 1 0.200 0 ==> 1

375 (Deltopectora) 1 0.083 1 ==> 0

376 (Supinator ri) 1 0.071 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 2

397 (Patellar fac) 1 0.154 1 ==> 2

401 (Tibia and fi) 1 0.111 0 ==> 1

402 (Depth of tro) 1 0.333 0 ==> 1

405 (Radius of cu) 1 0.067 0 ==> 1

406 (Cotylar foss) 1 0.250 1 ==> 0

407 (Sustentacula) 1 0.083 1 ==> 0

412 (Facet on ast) 1 0.067 1 ==> 0

425 (Proportions ) 1 0.095 1 ==> 0

node\_110 --> Adinotherium 4 (Upper diastema) 1 0.125 2 ==>

{01}

11 (Upper incisor) 1 0.176 1 ==> 2

24 (Lower post. i) 1 0.067 1 --> 0

54 (p1-p2 diastem) 1 0.083 0 ==> 1

57 (Penult lower ) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 0 -->

{12}

115 (Paraconid) 1 0.125 1 ==> 0

117 (Paraconid on) 1 0.077 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

148 (Condyloid cr) 1 0.100 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 2

163 (Mandibular f) 1 0.150 1 --> 2

171 (Infraorbital) 1 0.111 1 ==> 2

185 (Lacrimal tub) 1 0.083 0 ==> 1

193 (Incisive for) 1 0.200 0 ==> 1

196 (Anterior ext) 1 0.143 1 ==> 0

198 (Postpalatine) 1 0.071 0 --> 1

200 (Minor palati) 1 0.222 1 ==> 2

203 (Posterior ed) 1 0.118 1 ==> 0

214 (Palatine rea) 1 0.067 1 ==> 0

220 (Frontal and ) 1 0.091 1 --> 0

233 (Orbitospheno) 1 0.182 1 ==> 2

274 (Postglenoid ) 1 0.250 0 ==> 1

282 (Basicochlear) 1 0.111 0 ==> 1

302 (Tegmen tympa) 1 0.167 0 ==> 1

303 (tegmen tympa) 1 0.167 0 ==> 1

348 (Crista petro) 1 0.077 1 --> 0

350 (Internal aco) 1 0.125 1 ==> 0

368 (Sacral verte) 2 0.143 2 ==> 0

377 (Medial epico) 1 0.111 0 ==> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

400 (Tibia and fi) 1 0.200 0 ==> 1

409 (Astragalar m) 1 0.091 1 ==> 0

node\_110 --> Notostylops 10 (Upper anterio) 1 0.111 0 ==> 1

12 (Anteriormost ) 1 0.200 2 ==> 1

13 (Anteriormost ) 1 0.182 2 --> 0

14 (Anteriormost ) 1 0.250 0 ==> 1

15 (Second anteri) 1 0.500 0 ==> 1

19 (Lower anterio) 1 0.182 0 ==> 2

26 (Shape of inci) 1 0.200 1 ==> 2

46 (Ult upper pre) 1 0.167 1 ==> 3

69 (Size (area) o) 1 0.118 2 ==> 1

72 (Upper molar s) 1 0.095 0 --> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

119 (Paracristid) 1 0.111 1 --> 0

124 (Cristid obli) 1 0.190 1 ==> 2

146 (Anteroventra) 1 0.125 0 ==> 1

153 (Angular proc) 1 0.091 1 ==> 0

163 (Mandibular f) 1 0.150 1 --> 2

167 (Posterodorsa) 1 0.125 1 ==> 0

173 (Nasal) 1 0.133 1 ==> 0

182 (Preorbital l) 1 0.083 1 ==> 0

185 (Lacrimal tub) 1 0.083 0 ==> 1

197 (Palatal expa) 1 0.118 0 ==> 1

198 (Postpalatine) 1 0.071 0 --> 1

199 (Posterior na) 1 0.083 0 ==> 1

219 (Maxilla in t) 1 0.111 0 ==> 1

226 (Supraorbital) 1 0.091 1 ==> 0

227 (Postorbital ) 1 0.071 0 --> 1

238 (Frontal leng) 1 0.118 1 ==> 0

239 (Frontopariet) 1 0.118 1 ==> 2

255 (Ectopterygoi) 1 0.250 1 ==> 0

274 (Postglenoid ) 1 0.250 0 ==> 1

290 (Stapedial ra) 1 0.167 1 ==> 0

329 (Jugular fora) 1 0.111 1 ==> 0

node\_112 --> node\_111 5 (Lower diastema) 1 0.200 0 ==> 1

8 (Upper incisors) 3 0.208 2 --> 5

13 (Anteriormost ) 1 0.182 2 --> 4

29 (Lower canine) 1 0.118 1 ==> 0

32 (Canines diver) 1 0.250 0 ==> 1

37 (P1 posterior ) 1 0.083 0 --> 1

54 (p1-p2 diastem) 1 0.083 0 --> 1

63 (Ult lower pre) 1 0.105 1 --> 2

68 (Size (area) o) 1 0.087 1 --> 2

124 (Cristid obli) 1 0.190 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 2

165 (Premaxilla, ) 1 0.333 1 --> 0

170 (Exit(s) of i) 1 0.400 1 --> 0

175 (Nasal overha) 1 0.125 0 --> 1

185 (Lacrimal tub) 1 0.083 0 --> 1

186 (Lacrimal for) 1 0.125 1 --> 0

193 (Incisive for) 1 0.200 0 --> 1

221 (Orbital proc) 1 0.125 0 --> 1

234 (Suboptic for) 1 0.125 0 --> 1

253 (Ectopterygoi) 1 0.200 1 ==> 0

271 (Postglenoid ) 1 0.143 1 ==> 0

282 (Basicochlear) 1 0.111 0 --> 1

290 (Stapedial ra) 1 0.167 1 --> 0

350 (Internal aco) 1 0.125 1 --> 0

362 (Axis anterio) 1 0.286 0 --> 1

377 (Medial epico) 1 0.111 0 --> 1

378 (Entepicondyl) 1 0.100 0 --> 1

392 (Greater troc) 1 0.083 1 --> 0

394 (Third trocha) 1 0.167 1 --> 0

412 (Facet on ast) 1 0.067 1 --> 0

423 (Calcaneal fa) 1 0.091 0 --> 1

424 (Orientation ) 1 0.125 1 --> 2

node\_111 --> Trigonostylops 40 (Penult upper ) 1 0.154 0 ==> 2

45 (Ult upper pre) 1 0.100 0 ==> 2

72 (Upper molar s) 1 0.095 0 --> 1

91 (Centrocrista) 1 0.143 0 ==> 1

97 (Labial edges ) 1 0.087 1 --> 0

114 (Presence of ) 1 0.333 1 --> 0

171 (Infraorbital) 1 0.111 1 --> 0

198 (Postpalatine) 1 0.071 0 --> 1

199 (Posterior na) 1 0.083 0 ==> 1

216 (Groove conne) 1 0.091 0 ==> 1

node\_111 --> Astrapotherium 3 (Postcanine loc) 2 0.150 1 ==> 3

33 (Premolars) 2 0.188 1 ==> 3

62 (Ultimate lowe) 1 0.143 1 ==> 0

65 (Ultimate lowe) 1 0.091 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

354 (Amastoidy) 1 0.333 0 ==> 1

node\_118 --> node\_115 2 (Teeth types) 1 0.500 0 ==> 1

6 (Dental eruptio) 1 0.200 0 --> 1

8 (Upper incisors) 3 0.208 2 ==> 5

9 (Lower incisors) 3 0.190 1 ==> 4

27 (Upper canine) 1 0.111 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 0

140 (Space betwee) 1 0.111 1 --> 0

142 (Coronoid pro) 1 0.077 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

145 (Portion of t) 1 0.200 0 --> 1

148 (Condyloid cr) 1 0.100 0 ==> 1

156 (Condyle shap) 1 0.133 0 ==> 2

166 (Premaxilla, ) 1 0.222 1 ==> 0

167 (Posterodorsa) 1 0.125 0 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

178 (Nasofrontal ) 1 0.143 0 --> 1

185 (Lacrimal tub) 1 0.083 0 --> 1

186 (Lacrimal for) 1 0.125 1 ==> 0

195 (Major palati) 1 0.500 0 ==> 1

197 (Palatal expa) 1 0.118 1 --> 0

198 (Postpalatine) 1 0.071 1 ==> 0

210 (Orientation ) 1 0.143 1 ==> 2

227 (Postorbital ) 1 0.071 1 --> 2

233 (Orbitospheno) 1 0.182 0 ==> 2

238 (Frontal leng) 1 0.118 1 --> 2

239 (Frontopariet) 1 0.118 1 ==> 0

240 (Temporal lin) 1 0.167 0 ==> 1

241 (Nuchal crest) 1 0.100 1 --> 0

247 (Vomer contac) 1 0.143 0 ==> 1

251 (Entopterygoi) 1 0.143 1 ==> 2

253 (Ectopterygoi) 1 0.200 1 ==> 0

260 (Foramen oval) 1 0.182 2 ==> 1

261 (Alisphenoid ) 1 0.100 1 ==> 0

266 (Glenoid foss) 1 0.364 0 ==> 2

285 (Course of in) 1 0.143 0 --> 1

288 (Perbullar ca) 1 1.000 0 ==> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

293 (Promontorium) 1 0.071 0 --> 1

297 (Tympanic ape) 1 0.231 1 ==> 2

301 (Bony shelf l) 1 0.095 1 --> 0

308 (Hypotympanic) 1 0.214 0 --> 1

310 (Epitympanic ) 1 0.250 1 --> 2

311 (Fossa incudi) 1 0.125 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==> 2

317 (Ascending ca) 1 0.286 1 ==> 2

323 (Mastoid proc) 1 0.133 0 ==> 2

324 (Posterior bo) 1 0.250 1 ==> 0

326 ("Tympanic pr) 1 0.133 1 ==> 0

332 (Hypoglossal ) 1 0.125 0 --> 1

338 (Anterior cru) 1 0.250 0 --> 1

341 (Entotympanic) 1 0.200 0 ==> 1

348 (Crista petro) 1 0.077 1 --> 0

349 (Subarcuate f) 1 0.105 1 --> 2

353 (Mastoid fora) 1 0.125 1 ==> 0

363 (Cervical inf) 1 0.143 0 --> 1

366 (Number of lu) 1 0.167 0 ==> 1

367 (Xenarthrous ) 1 1.000 0 ==> 1

369 (Sacral verte) 1 1.000 0 ==> 1

375 (Deltopectora) 1 0.083 1 --> 0

376 (Supinator ri) 1 0.071 0 --> 1

388 (Pubic symphy) 1 0.333 0 ==> 1

390 (Articular su) 1 0.083 0 --> 1

397 (Patellar fac) 1 0.154 1 ==> 2

405 (Radius of cu) 1 0.067 1 ==> 0

412 (Facet on ast) 1 0.067 1 --> 0

413 (Astragalar c) 1 0.118 0 ==> 2

424 (Orientation ) 1 0.125 1 --> 0

node\_115 --> node\_113 153 (Angular proc) 1 0.091 0 ==> 1

155 (Condylar pro) 1 0.143 1 ==> 0

177 (Naso-frontal) 1 0.083 1 ==> 0

184 (Facial proce) 1 0.067 1 ==> 0

193 (Incisive for) 1 0.200 0 ==> 1

217 (Sphenopalati) 1 0.222 0 ==> 1

221 (Orbital proc) 1 0.125 0 --> 1

225 (Position of ) 1 0.333 1 --> 0

256 (Transverse c) 1 0.500 0 ==> 1

267 (Glenoid foss) 1 0.125 0 ==> 1

275 (Suprameatal ) 1 0.111 0 ==> 1

352 (Posttemporal) 1 0.250 0 ==> 1

391 (Fovea for li) 1 0.182 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

393 (Size of less) 1 0.100 1 ==> 0

400 (Tibia and fi) 1 0.200 0 ==> 1

401 (Tibia and fi) 1 0.111 0 ==> 1

408 (Astragalar s) 1 0.143 1 ==> 0

node\_113 --> Chaetophractus 138 (Posteriormos) 2 0.111 2 ==> 0

143 (Angle betwee) 1 0.133 0 ==> 1

156 (Condyle shap) 1 0.133 2 ==> 1

179 (Nasal forami) 1 0.200 1 ==> 0

185 (Lacrimal tub) 1 0.083 1 --> 0

220 (Frontal and ) 1 0.091 0 ==> 1

227 (Postorbital ) 1 0.071 2 --> 1

236 (Frontal/alis) 1 0.167 0 ==> 1

266 (Glenoid foss) 1 0.364 2 ==> 3

272 (Postglenoid ) 1 0.286 0 ==> 1

274 (Postglenoid ) 1 0.250 0 ==> 1

276 (Entoglenoid ) 1 0.133 1 ==> 2

283 (Medial flang) 1 0.125 0 ==> 1

296 (Facial nerve) 1 0.500 0 ==> 1

309 (Epitympanic ) 1 0.250 1 ==> 2

320 (Stapedial fo) 1 0.333 0 ==> 1

329 (Jugular fora) 1 0.111 1 ==> 0

330 (Jugular fora) 1 0.111 0 ==> 1

339 (Elongate oss) 1 0.125 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

390 (Articular su) 1 0.083 1 --> 0

node\_113 --> Dasypus 138 (Posteriormos) 1 0.111 2 ==> 3

140 (Space betwee) 1 0.111 0 --> 1

152 (Angular proc) 1 0.200 2 ==> 1

154 (Anteroposter) 1 0.077 0 ==> 1

172 (Infraorbital) 1 0.167 0 ==> 1

214 (Palatine rea) 1 0.067 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

222 (Ethmoid expo) 1 0.500 0 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

282 (Basicochlear) 1 0.111 0 ==> 1

301 (Bony shelf l) 2 0.095 0 ==> 2

306 (Location of ) 1 0.500 0 ==> 1

308 (Hypotympanic) 1 0.214 1 --> 0

310 (Epitympanic ) 1 0.250 2 --> 1

336 (Ectotympanic) 1 0.200 2 ==> 0

364 (C7 (or last)) 1 0.333 1 ==> 0

365 (Thoracic ver) 1 0.167 1 ==> 0

403 (Astragalus, ) 1 0.214 2 ==> 1

424 (Orientation ) 1 0.125 0 --> 1

node\_115 --> node\_114 3 (Postcanine loc) 2 0.150 1 --> 3

29 (Lower canine) 1 0.118 1 --> 2

146 (Anteroventra) 1 0.125 0 --> 1

157 (Condyle posi) 1 0.087 2 --> 1

191 (Premaxilla, ) 1 0.143 1 --> 0

192 (Incisive for) 1 0.091 0 --> 1

209 (Zygomatic ar) 2 0.125 0 ==> 2

235 (Orbitotempor) 1 0.125 0 ==> 1

237 (Sphenorbital) 1 0.091 1 ==> 0

245 (Foramina for) 1 0.333 1 ==> 2

246 (Choanae) 1 0.091 1 ==> 0

265 (Glenoid foss) 1 0.143 0 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 0

271 (Postglenoid ) 1 0.143 1 ==> 0

307 (Medial proce) 1 0.250 0 --> 1

328 (Inferior pet) 1 0.300 1 ==> 2

371 (Suprascapula) 1 0.200 1 ==> 0

374 (Greater tube) 1 0.111 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 0

394 (Third trocha) 1 0.167 1 ==> 0

411 (Astragalar h) 1 0.200 1 ==> 0

417 (Overlap betw) 1 0.250 1 ==> 0

421 (Calcaneal pl) 1 0.143 1 ==> 0

423 (Calcaneal fa) 1 0.091 0 ==> 1

425 (Proportions ) 1 0.095 1 ==> 0

node\_114 --> Bradypus 138 (Posteriormos) 1 0.111 2 ==> 3

139 (Depth of man) 1 0.100 0 ==> 1

143 (Angle betwee) 1 0.133 0 ==> 1

152 (Angular proc) 1 0.200 2 ==> 0

158 (Mandibular s) 1 0.200 0 ==> 1

160 (Mandibular s) 1 0.143 0 ==> 1

165 (Premaxilla, ) 1 0.333 1 ==> 0

170 (Exit(s) of i) 1 0.400 1 ==> 2

175 (Nasal overha) 1 0.125 0 ==> 1

178 (Nasofrontal ) 1 0.143 1 --> 0

182 (Preorbital l) 1 0.083 1 ==> 0

197 (Palatal expa) 1 0.118 0 --> 1

219 (Maxilla in t) 1 0.111 0 ==> 1

220 (Frontal and ) 1 0.091 0 ==> 1

238 (Frontal leng) 1 0.118 2 --> 1

276 (Entoglenoid ) 1 0.133 1 ==> 0

290 (Stapedial ra) 1 0.167 1 ==> 0

312 (Squamosal ep) 1 0.143 0 ==> 1

329 (Jugular fora) 1 0.111 1 ==> 0

332 (Hypoglossal ) 1 0.125 1 --> 0

342 (Hyoid pit on) 1 0.250 0 ==> 1

347 (Wall separat) 1 0.250 2 ==> 1

364 (C7 (or last)) 1 0.333 1 ==> 0

372 (Acromion) 1 0.250 0 ==> 1

376 (Supinator ri) 1 0.071 1 --> 0

378 (Entepicondyl) 1 0.100 0 ==> 1

391 (Fovea for li) 1 0.182 0 ==> 2

403 (Astragalus, ) 1 0.214 2 ==> 3

415 (Calcaneal wi) 1 0.111 0 ==> 1

416 (Ectal (post ) 1 0.154 2 ==> 1

422 (Tuber calcis) 1 0.125 1 ==> 0

node\_114 --> Tamandua 1 (Teeth) 1 1.000 0 ==> 1

136 (Number of me) 1 0.250 0 ==> 1

138 (Posteriormos) 2 0.111 2 ==> 0

154 (Anteroposter) 1 0.077 0 ==> 1

163 (Mandibular f) 1 0.150 2 --> 1

206 (Jugal contri) 1 0.250 0 ==> 1

214 (Palatine rea) 1 0.067 1 ==> 0

215 (Lacrimal con) 1 0.091 1 ==> 0

223 (Ethmoid fora) 1 0.111 1 ==> 0

250 (Midline cres) 1 0.100 0 ==> 1

285 (Course of in) 1 0.143 1 --> 0

349 (Subarcuate f) 2 0.105 2 ==> 0

363 (Cervical inf) 1 0.143 1 --> 0

385 (Radius artic) 1 0.111 0 ==> 1

407 (Sustentacula) 1 0.083 0 ==> 1

node\_118 --> node\_117 12 (Anteriormost ) 1 0.200 0 --> 1

13 (Anteriormost ) 1 0.182 0 --> 2

27 (Upper canine) 1 0.111 0 --> 1

36 (P1 roots) 1 0.154 0 --> 1

39 (Penult upper ) 1 0.125 1 --> 2

41 (Penult upper ) 1 0.100 0 --> 1

46 (Ult upper pre) 1 0.167 2 ==> 1

59 (Penult lower ) 1 0.250 0 ==> 1

63 (Ult lower pre) 1 0.105 0 ==> 1

70 (Size (area) o) 1 0.105 1 --> 2

71 (Molar cusp fo) 1 0.125 0 ==> 1

82 (Stylar cusp E) 1 0.222 2 ==> 1

83 ((Pre)paracing) 1 0.167 2 ==> 1

92 (Postmetacrist) 1 0.125 2 ==> 0

94 (Preprotocrist) 1 0.167 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 0

98 (Paraconule) 1 0.105 1 ==> 2

102 (Protocone an) 1 0.091 1 ==> 0

108 (Hypocone on ) 1 0.125 0 ==> 1

119 (Paracristid) 1 0.111 0 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

138 (Posteriormos) 1 0.111 2 --> 3

142 (Coronoid pro) 1 0.077 0 --> 1

144 (Coronoid cre) 1 0.118 1 --> 0

160 (Mandibular s) 1 0.143 0 ==> 1

166 (Premaxilla, ) 1 0.222 1 --> 0

167 (Posterodorsa) 1 0.125 0 --> 1

171 (Infraorbital) 1 0.111 0 --> 1

179 (Nasal forami) 1 0.200 1 --> 0

184 (Facial proce) 1 0.067 1 --> 0

192 (Incisive for) 1 0.091 0 --> 1

196 (Anterior ext) 1 0.143 1 --> 2

213 (Molar roots ) 1 0.083 0 --> 1

214 (Palatine rea) 1 0.067 1 --> 0

226 (Supraorbital) 1 0.091 0 --> 1

227 (Postorbital ) 1 0.071 1 --> 0

229 (Postorbital ) 1 0.333 0 --> 1

230 (Dorsal proce) 1 0.167 0 --> 1

246 (Choanae) 1 0.091 1 --> 0

253 (Ectopterygoi) 1 0.200 1 --> 0

261 (Alisphenoid ) 1 0.100 1 --> 0

282 (Basicochlear) 1 0.111 0 --> 1

284 (RTPP) 1 0.286 0 --> 1

290 (Stapedial ra) 1 0.167 1 ==> 0

295 (Promontorium) 1 0.111 0 --> 1

301 (Bony shelf l) 1 0.095 1 --> 0

309 (Epitympanic ) 1 0.250 1 --> 2

311 (Fossa incudi) 1 0.125 0 ==> 1

326 ("Tympanic pr) 1 0.133 1 ==> 0

332 (Hypoglossal ) 1 0.125 0 --> 1

334 (Paroccipital) 1 0.167 0 --> 1

349 (Subarcuate f) 1 0.105 1 ==> 2

373 (Metacromion) 1 0.125 0 --> 1

375 (Deltopectora) 1 0.083 1 --> 0

377 (Medial epico) 1 0.111 0 --> 1

378 (Entepicondyl) 1 0.100 0 --> 1

385 (Radius artic) 1 0.111 0 --> 1

388 (Pubic symphy) 1 0.333 0 --> 1

396 (Distal femur) 1 0.125 0 --> 1

402 (Depth of tro) 1 0.333 0 ==> 1

407 (Sustentacula) 1 0.083 0 --> 1

410 (Astragalar n) 1 0.133 1 --> 2

412 (Facet on ast) 1 0.067 1 --> 0

413 (Astragalar c) 1 0.118 0 ==> 1

420 (Calcaneal an) 1 0.273 1 --> 2

421 (Calcaneal pl) 1 0.143 1 --> 2

node\_117 --> Miguelsoria 62 (Ultimate lowe) 1 0.143 1 ==> 0

67 (Size (area) o) 1 0.154 1 ==> 2

75 (Upper first m) 1 0.200 0 ==> 1

85 (Metacone size) 1 0.133 1 ==> 0

86 (Metacone posi) 1 0.143 1 ==> 2

402 (Depth of tro) 1 0.333 1 ==> 2

426 (Deep groove ) 1 0.091 0 ==> 1

node\_117 --> node\_116 45 (Ult upper pre) 1 0.100 0 ==> 2

49 (Ult upper pre) 1 0.200 0 ==> 1

58 (Penult lower ) 1 0.167 0 --> 1

64 (Length of ult) 1 0.143 0 ==> 1

80 (Stylar cusp C) 1 0.091 0 ==> 1

91 (Centrocrista) 1 0.143 0 ==> 1

95 (Postprotocris) 1 0.154 1 --> 2

97 (Labial edges ) 2 0.087 0 ==> 2

110 (Upper molar ) 1 0.250 0 --> 1

111 (Last upper m) 1 0.333 2 --> 3

125 (Trigonid hei) 1 0.100 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 2

130 (Entoconid) 1 0.111 2 ==> 1

133 (Hypolophid) 1 0.500 0 ==> 1

153 (Angular proc) 1 0.091 0 --> 1

163 (Mandibular f) 1 0.150 2 --> 1

424 (Orientation ) 1 0.125 1 ==> 2

node\_116 --> Proterotherium 4 (Upper diastema) 1 0.125 3 --> 2

9 (Lower incisors) 1 0.190 1 ==> 2

16 (Upper anterio) 1 0.250 0 ==> 1

17 (Enamel distri) 1 0.143 0 ==> 1

19 (Lower anterio) 1 0.182 0 ==> 2

20 (Lower anterio) 1 0.077 0 ==> 1

24 (Lower post. i) 1 0.067 0 ==> 1

27 (Upper canine) 1 0.111 1 ==> 2

40 (Penult upper ) 1 0.154 0 ==> 2

58 (Penult lower ) 1 0.167 1 --> 2

65 (Ultimate lowe) 1 0.091 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 0

138 (Posteriormos) 1 0.111 3 --> 2

143 (Angle betwee) 1 0.133 0 ==> 1

379 (Supratrochle) 1 0.111 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

413 (Astragalar c) 1 0.118 1 ==> 2

425 (Proportions ) 1 0.095 1 ==> 0

node\_116 --> Macrauchenia 7 (Incisor shape) 1 0.333 0 ==> 1

12 (Anteriormost ) 1 0.200 1 --> 2

53 (First lower p) 1 0.125 1 ==> 0

71 (Molar cusp fo) 1 0.125 1 ==> 2

72 (Upper molar s) 1 0.095 1 ==> 0

74 (Metastylar an) 1 0.158 0 ==> 1

116 (Paraconid he) 1 0.250 0 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 2

155 (Condylar pro) 1 0.143 1 ==> 0

156 (Condyle shap) 1 0.133 0 ==> 2

158 (Mandibular s) 1 0.200 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 0

171 (Infraorbital) 1 0.111 1 ==> 2

175 (Nasal overha) 1 0.125 0 ==> 1

202 (Maxilla expa) 1 0.250 0 ==> 1

209 (Zygomatic ar) 1 0.125 0 ==> 1

240 (Temporal lin) 1 0.167 0 ==> 1

241 (Nuchal crest) 1 0.100 1 --> 0

250 (Midline cres) 1 0.100 0 ==> 1

267 (Glenoid foss) 1 0.125 0 ==> 1

284 (RTPP) 1 0.286 1 --> 0

301 (Bony shelf l) 1 0.095 0 --> 1

309 (Epitympanic ) 1 0.250 2 --> 1

350 (Internal aco) 1 0.125 1 ==> 0

384 (Radius and u) 1 1.000 0 ==> 1

391 (Fovea for li) 1 0.182 0 ==> 1

400 (Tibia and fi) 1 0.200 0 ==> 1

401 (Tibia and fi) 1 0.111 0 ==> 1

407 (Sustentacula) 1 0.083 1 --> 0

408 (Astragalar s) 1 0.143 1 ==> 0

410 (Astragalar n) 1 0.133 2 --> 1

node\_122 --> Cimolestes 4 (Upper diastema) 1 0.125 1 -->

{03}

13 (Anteriormost ) 1 0.182 0 ==> 2

44 (Ult upper pre) 1 0.182 1 ==> 2

53 (First lower p) 1 0.125 0 ==> 1

68 (Size (area) o) 1 0.087 0 ==> 1

98 (Paraconule) 1 0.105 1 --> 2

120 (Trigonid con) 1 0.105 1 --> 0

154 (Anteroposter) 1 0.077 1 ==> 0

196 (Anterior ext) 1 0.143 1 ==> 2

203 (Posterior ed) 1 0.118 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 0

**LIST OF SYNAPOMORPHIES, OPT=DELTRAN**

/------------------------------------------------------------- Vincelestes

| /-------- Deltatheridium

+---------------------------------------------------74 /---- Mayulestes

| \--73---- Pucadelphys

124 /---- Eomaia

| /---------------------------------------------------75---- Prokennalestes

| | /----------------------------------------------------- Cimolestes

\-123 | /------------------------------------------------- Zhelestes

| | | /-------- Maelestes

\-122 | /-----------------------------------77 /---- Kennalestes

| | | \--76---- Asioryctes

| | | /---- Kulbeckia

\-121 | /-----------------------------------78---- Zalambdalestes

| | | /------------------------------------- Leptictis

| | | +------------------------------------- Protungulatum

| | | +------------------------------------- Diacodexis

| | | +------------------------------------- Pleuraspidotheri

\-120 | | /---- Azygonyx

| | +-------------------------------85---- Trogosus

| | | /---- Dichobune

| | +-------------------------------88---- Acotherulum

| | | /---- Maiorana

| | +-------------------------------91---- Baioconodon

| | | /---- Arctocyonides

| | +-------------------------------92---- Arctocyon

\-119 | /---- Orycteropus

| +------------------------------107---- Rhynchocyon

| | /-------- Vulpavus

| +---------------------------87 /---- Miacis

| | \--86---- Cynodictis

| | /-------- Hyopsodus

| +---------------------------90 /---- Meniscotherium

| | \--89---- Phenacodus

| | /-------- Miguelsoria

| +--------------------------117 /---- Proterotherium

| | \-116---- Macrauchenia

| | /---- Chaetophractus

\-118 /-113---- Dasypus

+--------------------------115 /---- Bradypus

| \-114---- Tamandua

| /-------------------- Didelphodus

| | /---- Bemalambda

+---------------84 /----------82---- Harpyodus

| \--83 /------------ Alcidedorbignya

| \--81 /-------- Pantolambda

| \--80 /---- Coryphodon

| \--79---- Carodnia

| /---- Trigonostylops

| /---------111---- Astrapotherium

| | /------------ Colbertia

+------------------112 +------------ Plesiotypotheriu

| | +------------ Protypotherium

| \-110------------ Adinotherium

| +------------ Notostylops

| | /-------- Pyrotherium

| \-109 /---- Procavia

| \-108---- Moeritherium

| /------------ Eoryctes

| /------------------105 /-------- Solenodon

| | \-104 /---- Potamogale

| | \-103---- Tenrec

\-106 /---------------------------- Blarina

| | /------------------------ Erinaceus

\--102 | /-------------------- Ptilocercus

\-101 | /-------- Plesiadapis

\-100 /------94 /---- Northarctus

| | \--93---- Adapis

\--99 /---- Tribosphenomys

| /------95---- Paramys

\--98 /-------- Mimotona

\--97 /---- Rhombomylus

\--96---- Gomphos

Apomorphy lists:

Branch Character Steps CI Change

-------------------------------------------------------------------------------

node\_124 --> Vincelestes 3 (Postcanine loc) 2 0.150 1 ==> 3

8 (Upper incisors) 1 0.208 0 --> 1

28 (Upper canine ) 1 0.125 1 ==> 0

33 (Premolars) 1 0.188 2 ==> 3

38 (Shape of the ) 1 0.125 0 ==> 1

50 (Ult upper pre) 1 0.167 0 ==> 1

71 (Molar cusp fo) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 0

73 (Upper molar s) 1 0.188 1 ==> 0

78 (Stylar cusp A) 1 0.250 0 ==> 2

81 (Stylar cusp D) 1 0.200 0 --> 1

82 (Stylar cusp E) 1 0.222 2 ==> 0

83 ((Pre)paracing) 1 0.167 2 ==> 0

84 (Deep ectoflex) 1 0.200 0 --> 2

85 (Metacone size) 1 0.133 0 --> 1

88 (Preparacrista) 1 0.167 0 --> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

95 (Postprotocris) 1 0.154 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

101 (Protocone) 1 1.000 2 ==> 1

111 (Last upper m) 1 0.333 1 ==> 0

123 (Talonid) 1 0.333 1 ==> 0

125 (Trigonid hei) 1 0.100 0 ==> 1

126 (Trigonid to ) 1 0.200 1 ==> 0

129 (Hypoconulid ) 1 0.167 1 ==> 0

130 (Entoconid) 1 0.111 1 ==> 0

137 (Anteriormost) 2 0.120 1 ==> 3

139 (Depth of man) 1 0.100 0 ==> 1

147 (Labial mandi) 1 0.333 0 --> 1

152 (Angular proc) 1 0.200 0 --> 2

155 (Condylar pro) 1 0.143 0 --> 1

157 (Condyle posi) 1 0.087 1 ==> 2

159 (Mandibular s) 1 0.118 1 ==> 0

165 (Premaxilla, ) 1 0.333 1 ==> 0

168 (Paracanine f) 1 0.333 0 --> 2

179 (Nasal forami) 1 0.200 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 0

231 (Optic forame) 1 1.000 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 2

243 (Anterior lam) 1 0.500 1 ==> 0

244 (Squama of sq) 1 1.000 1 ==> 0

246 (Choanae) 1 0.091 1 ==> 0

249 (Pterygopalat) 1 1.000 1 ==> 0

257 (Exit for max) 1 0.500 1 ==> 0

258 (Number of ma) 1 0.500 1 ==> 0

264 (Position of ) 1 1.000 1 ==> 0

270 (Postglenoid ) 1 0.133 1 ==> 0

271 (Postglenoid ) 1 0.143 1 ==> 0

275 (Suprameatal ) 1 0.111 1 ==> 0

291 (Coiling of c) 1 1.000 1 ==> 0

292 (Pars cochlea) 1 1.000 1 ==> 0

293 (Promontorium) 1 0.071 1 ==> 0

299 (Prootic cana) 1 1.000 2 ==> 0

300 (Lateral flan) 1 1.000 1 ==> 0

340 (Roof of exte) 1 0.500 1 ==> 0

347 (Wall separat) 1 0.250 2 ==> 1

349 (Subarcuate f) 2 0.105 0 ==> 2

353 (Mastoid fora) 1 0.125 1 ==> 0

355 (Dorsal margi) 1 0.500 1 ==> 0

358 (Atlas neural) 1 0.500 1 ==> 0

362 (Axis anterio) 1 0.286 0 ==> 2

364 (C7 (or last)) 1 0.333 1 ==> 0

374 (Greater tube) 1 0.111 1 ==> 0

380 (Ulnar articu) 1 1.000 1 ==> 0

381 (Radial artic) 1 1.000 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 0

403 (Astragalus, ) 1 0.214 1 ==> 0

409 (Astragalar m) 1 0.091 1 ==> 0

411 (Astragalar h) 1 0.200 1 ==> 0

node\_124 --> node\_74 25 (Staggered low) 1 1.000 0 ==> 1

52 (p1 orientatio) 1 0.500 0 --> 1

66 (Molars) 1 0.667 1 ==> 0

74 (Metastylar an) 1 0.158 0 ==> 1

84 (Deep ectoflex) 1 0.200 0 --> 1

98 (Paraconule) 1 0.105 0 --> 2

117 (Paraconid on) 1 0.077 0 ==> 1

138 (Posteriormos) 1 0.111 2 ==> 3

148 (Condyloid cr) 1 0.100 1 ==> 0

150 (Lower jaw an) 1 1.000 0 ==> 1

152 (Angular proc) 1 0.200 0 --> 3

156 (Condyle shap) 1 0.133 0 ==> 1

162 ("Coronoid" f) 1 0.500 0 --> 1

168 (Paracanine f) 1 0.333 0 --> 1

186 (Lacrimal for) 1 0.125 1 ==> 0

191 (Premaxilla, ) 1 0.143 0 ==> 1

245 (Foramina for) 1 0.333 0 --> 2

266 (Glenoid foss) 1 0.364 0 ==> 1

279 (Cavum epipte) 1 0.200 0 --> 1

285 (Course of in) 1 0.143 0 --> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==> 2

317 (Ascending ca) 1 0.286 0 ==> 2

328 (Inferior pet) 1 0.300 0 --> 1

330 (Jugular fora) 1 0.111 0 ==> 1

346 (Position of ) 1 0.667 0 ==> 1

node\_74 --> Deltatheridium 8 (Upper incisors) 1 0.208 0 --> 1

54 (p1-p2 diastem) 1 0.083 0 ==> 1

92 (Postmetacrist) 1 0.125 0 --> 1

93 (Postmetacrist) 1 0.500 1 ==> 0

116 (Paraconid he) 1 0.250 1 ==> 2

184 (Facial proce) 1 0.067 0 --> 1

203 (Posterior ed) 1 0.118 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 0

219 (Maxilla in t) 1 0.111 0 ==> 1

283 (Medial flang) 1 0.125 0 --> 1

301 (Bony shelf l) 1 0.095 1 ==> 0

323 (Mastoid proc) 1 0.133 0 --> 1

node\_74 --> node\_73 9 (Lower incisors) 1 0.190 1 ==> 0

35 (P1 procumbenc) 1 0.250 0 ==> 1

36 (P1 roots) 1 0.154 0 --> 1

78 (Stylar cusp A) 1 0.250 0 ==> 1

80 (Stylar cusp C) 1 0.091 0 ==> 1

81 (Stylar cusp D) 1 0.200 0 --> 1

85 (Metacone size) 2 0.133 0 ==> 2

86 (Metacone posi) 1 0.143 1 ==> 2

87 (Paracone and ) 1 0.143 0 ==> 1

102 (Protocone an) 1 0.091 0 ==> 1

103 (Procumbent p) 1 0.125 0 ==> 1

111 (Last upper m) 1 0.333 1 --> 2

118 (Mesiolingual) 1 0.333 0 ==> 1

120 (Trigonid con) 1 0.105 0 --> 1

122 (Protocristid) 1 0.083 0 ==> 1

127 (Talonid widt) 1 0.125 0 --> 1

128 (Hypoconulid) 1 0.125 1 ==> 3

134 (Labial postc) 1 0.077 0 ==> 1

149 (Posterior sh) 1 1.000 0 ==> 1

170 (Exit(s) of i) 1 0.400 0 --> 1

196 (Anterior ext) 1 0.143 1 ==> 0

197 (Palatal expa) 1 0.118 1 ==> 0

198 (Postpalatine) 1 0.071 0 --> 1

199 (Posterior na) 1 0.083 0 ==> 1

250 (Midline cres) 1 0.100 1 --> 0

259 (Foramen oval) 1 0.600 0 --> 1

260 (Foramen oval) 1 0.182 0 --> 1

269 (Glenoid proc) 1 1.000 0 ==> 1

287 (Deep groove ) 1 1.000 0 ==> 1

307 (Medial proce) 1 0.250 0 --> 1

309 (Epitympanic ) 1 0.250 0 --> 1

329 (Jugular fora) 1 0.111 0 ==> 1

333 (Hypoglossal ) 1 0.143 0 --> 1

357 (Atlantal for) 1 0.200 0 --> 1

370 (Infraspinous) 1 0.333 0 --> 1

371 (Suprascapula) 1 0.200 0 --> 1

376 (Supinator ri) 1 0.071 0 --> 1

392 (Greater troc) 1 0.083 1 --> 2

407 (Sustentacula) 1 0.083 0 --> 1

416 (Ectal (post ) 1 0.154 0 --> 1

421 (Calcaneal pl) 1 0.143 0 --> 1

node\_73 --> Mayulestes 11 (Upper incisor) 1 0.176 0 ==> 1

70 (Size (area) o) 1 0.105 1 ==> 2

92 (Postmetacrist) 1 0.125 0 --> 1

124 (Cristid obli) 1 0.190 0 --> 2

166 (Premaxilla, ) 1 0.222 0 --> 1

169 (Paracanine f) 1 0.500 0 ==> 1

245 (Foramina for) 1 0.333 2 --> 1

298 (Prootic cana) 1 0.250 0 ==> 1

308 (Hypotympanic) 1 0.214 0 ==> 1

323 (Mastoid proc) 1 0.133 0 --> 1

360 (Axis) 1 0.500 0 ==> 1

375 (Deltopectora) 1 0.083 0 ==> 1

389 (Epipubic bon) 1 0.500 0 ==> 1

397 (Patellar fac) 1 0.154 0 --> 1

node\_73 --> Pucadelphys 79 (Stylar cusp B) 1 0.182 1 ==> 2

83 ((Pre)paracing) 1 0.167 2 ==> 1

91 (Centrocrista) 1 0.143 0 ==> 1

97 (Labial edges ) 1 0.087 1 ==> 2

105 (Protocone he) 1 0.250 0 ==> 1

116 (Paraconid he) 1 0.250 1 ==> 0

121 (Protoconid h) 1 0.167 0 ==> 1

124 (Cristid obli) 1 0.190 0 --> 3

127 (Talonid widt) 1 0.125 1 ==> 2

130 (Entoconid) 1 0.111 1 ==> 2

155 (Condylar pro) 1 0.143 0 --> 1

180 (Fronto-maxil) 1 0.500 0 ==> 1

184 (Facial proce) 1 0.067 0 --> 1

209 (Zygomatic ar) 1 0.125 0 ==> 1

213 (Molar roots ) 1 0.083 0 ==> 1

216 (Groove conne) 1 0.091 0 --> 1

224 (Foramen for ) 1 0.100 0 --> 1

233 (Orbitospheno) 1 0.182 0 --> 2

235 (Orbitotempor) 1 0.125 0 --> 1

318 (Stapedius fo) 1 0.250 0 ==> 1

350 (Internal aco) 1 0.125 0 --> 1

422 (Tuber calcis) 1 0.125 0 ==> 1

node\_124 --> node\_123 33 (Premolars) 1 0.188 2 ==> 1

34 (Tall, trencha) 1 0.250 0 ==> 1

39 (Penult upper ) 1 0.125 0 ==> 1

44 (Ult upper pre) 1 0.182 0 ==> 1

46 (Ult upper pre) 1 0.167 0 ==> 1

97 (Labial edges ) 1 0.087 1 ==> 0

98 (Paraconule) 1 0.105 0 --> 1

111 (Last upper m) 1 0.333 1 --> 2

126 (Trigonid to ) 1 0.200 1 ==> 2

127 (Talonid widt) 1 0.125 0 --> 1

157 (Condyle posi) 1 0.087 1 ==> 0

170 (Exit(s) of i) 1 0.400 0 --> 1

182 (Preorbital l) 1 0.083 0 ==> 1

209 (Zygomatic ar) 1 0.125 0 ==> 1

283 (Medial flang) 1 0.125 0 --> 1

310 (Epitympanic ) 1 0.250 0 ==> 1

316 (Foramen for ) 1 0.333 0 --> 1

320 (Stapedial fo) 1 0.333 1 ==> 0

350 (Internal aco) 1 0.125 0 --> 1

393 (Size of less) 1 0.100 0 ==> 1

397 (Patellar fac) 1 0.154 0 --> 1

398 (Ossified pat) 1 1.000 0 ==> 1

410 (Astragalar n) 1 0.133 0 ==> 1

418 (Calcaneal su) 1 1.000 0 ==> 1

node\_123 --> node\_75 3 (Postcanine loc) 1 0.150 1 ==> 0

9 (Lower incisors) 1 0.190 1 ==> 0

33 (Premolars) 1 0.188 1 ==> 0

60 (Ult lower pre) 1 0.069 0 --> 1

99 (Metaconule) 1 0.095 2 ==> 1

120 (Trigonid con) 1 0.105 0 --> 1

138 (Posteriormos) 1 0.111 2 ==> 1

142 (Coronoid pro) 1 0.077 0 ==> 1

145 (Portion of t) 1 0.200 0 ==> 1

147 (Labial mandi) 1 0.333 0 --> 1

161 ("Meckel's" s) 1 1.000 1 ==> 0

164 (Mandibular f) 1 1.000 1 ==> 0

node\_75 --> Eomaia 4 (Upper diastema) 1 0.125 0 --> 1

36 (P1 roots) 1 0.154 0 --> 1

37 (P1 posterior ) 1 0.083 0 --> 1

54 (p1-p2 diastem) 1 0.083 0 ==> 1

57 (Penult lower ) 1 0.083 0 --> 1

112 (Last upper m) 1 0.200 0 ==> 1

129 (Hypoconulid ) 1 0.167 1 ==> 0

137 (Anteriormost) 1 0.120 1 ==> 2

159 (Mandibular s) 1 0.118 1 ==> 0

212 (Shape of zyg) 1 0.111 1 --> 0

node\_75 --> Prokennalestes 30 (Lower canine ) 1 0.250 1 ==> 0

77 (Preparastyle) 1 0.333 0 --> 1

81 (Stylar cusp D) 1 0.200 0 --> 1

82 (Stylar cusp E) 1 0.222 2 ==> 0

90 (Preparacrista) 1 1.000 1 --> 0

93 (Postmetacrist) 1 0.500 1 --> 0

116 (Paraconid he) 1 0.250 1 --> 0

299 (Prootic cana) 1 1.000 2 --> 1

301 (Bony shelf l) 1 0.095 1 --> 0

309 (Epitympanic ) 1 0.250 0 --> 1

node\_123 --> node\_122 79 (Stylar cusp B) 1 0.182 1 ==> 0

88 (Preparacrista) 1 0.167 0 --> 1

89 (Orientation o) 1 0.100 0 ==> 1

100 (Internal con) 1 0.100 0 ==> 1

105 (Protocone he) 1 0.250 0 ==> 1

116 (Paraconid he) 1 0.250 1 --> 0

124 (Cristid obli) 1 0.190 0 ==> 1

130 (Entoconid) 1 0.111 1 ==> 2

162 ("Coronoid" f) 1 0.500 0 --> 1

163 (Mandibular f) 1 0.150 0 ==> 1

169 (Paracanine f) 1 0.500 0 ==> 1

198 (Postpalatine) 1 0.071 0 --> 1

node\_122 --> node\_121 47 (Ult upper pre) 1 0.071 0 ==> 1

48 (Ult upper pre) 1 0.091 0 ==> 1

55 (p c size (onl) 1 1.000 0 --> 1

62 (Ultimate lowe) 1 0.143 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 2

73 (Upper molar s) 1 0.188 1 ==> 2

76 (Length of the) 1 0.333 1 ==> 2

120 (Trigonid con) 1 0.105 0 --> 1

121 (Protoconid h) 1 0.167 0 ==> 1

122 (Protocristid) 1 0.083 0 ==> 1

328 (Inferior pet) 1 0.300 0 --> 1

node\_121 --> Zhelestes 3 (Postcanine loc) 1 0.150 1 ==> 0

4 (Upper diastema) 1 0.125 0 --> 1

33 (Premolars) 1 0.188 1 ==> 0

45 (Ult upper pre) 1 0.100 0 --> 1

52 (p1 orientatio) 1 0.500 0 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 1

61 (Ult lower pre) 1 0.154 0 --> 2

74 (Metastylar an) 1 0.158 0 --> 2

75 (Upper first m) 1 0.200 0 ==> 1

77 (Preparastyle) 1 0.333 0 ==> 1

78 (Stylar cusp A) 1 0.250 0 ==> 1

84 (Deep ectoflex) 1 0.200 0 --> 2

87 (Paracone and ) 1 0.143 0 --> 1

92 (Postmetacrist) 1 0.125 0 --> 2

102 (Protocone an) 1 0.091 0 ==> 1

103 (Procumbent p) 1 0.125 0 --> 1

106 (Precingulum ) 1 0.111 0 -->

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107 (Postcingulum) 1 0.143 0 --> 2

124 (Cristid obli) 1 0.190 1 ==> 2

125 (Trigonid hei) 1 0.100 0 --> 1

127 (Talonid widt) 1 0.125 1 --> 2

128 (Hypoconulid) 1 0.125 1 ==> 3

129 (Hypoconulid ) 1 0.167 1 ==> 0

134 (Labial postc) 1 0.077 0 ==> 1

285 (Course of in) 1 0.143 0 --> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

303 (tegmen tympa) 1 0.167 0 ==> 1

node\_121 --> node\_120 43 (Penult upper ) 1 0.300 1 --> 2

46 (Ult upper pre) 1 0.167 1 ==> 2

120 (Trigonid con) 1 0.105 1 ==> 2

157 (Condyle posi) 2 0.087 0 ==> 2

224 (Foramen for ) 1 0.100 0 --> 1

245 (Foramina for) 1 0.333 0 --> 1

253 (Ectopterygoi) 1 0.200 0 --> 2

259 (Foramen oval) 1 0.600 0 --> 3

263 (Posterior bo) 1 0.100 0 --> 1

279 (Cavum epipte) 1 0.200 0 --> 3

290 (Stapedial ra) 1 0.167 0 ==> 1

317 (Ascending ca) 1 0.286 0 ==> 1

324 (Posterior bo) 1 0.250 0 ==> 1

326 ("Tympanic pr) 1 0.133 0 ==> 1

336 (Ectotympanic) 1 0.200 0 --> 1

344 (Dorsum sella) 1 0.250 0 --> 1

404 (Astragalus, ) 1 0.500 0 --> 1

408 (Astragalar s) 1 0.143 0 --> 1

node\_120 --> node\_77 45 (Ult upper pre) 1 0.100 0 --> 1

54 (p1-p2 diastem) 1 0.083 0 ==> 1

64 (Length of ult) 1 0.143 0 ==> 1

145 (Portion of t) 1 0.200 0 ==> 1

201 (Minor palati) 1 0.500 0 --> 1

213 (Molar roots ) 1 0.083 0 --> 1

216 (Groove conne) 1 0.091 0 --> 1

238 (Frontal leng) 1 0.118 1 ==> 0

277 (Posttympanic) 1 0.200 0 --> 1

314 (Fossa incudi) 1 0.500 0 ==> 1

325 (Crista inter) 1 0.500 0 --> 1

332 (Hypoglossal ) 1 0.125 0 ==> 1

340 (Roof of exte) 1 0.500 1 ==> 0

348 (Crista petro) 1 0.077 0 --> 1

357 (Atlantal for) 1 0.200 0 --> 1

361 (Axis with ex) 1 0.333 0 --> 1

node\_77 --> Maelestes 3 (Postcanine loc) 1 0.150 1 ==> 0

20 (Lower anterio) 1 0.077 0 --> 1

24 (Lower post. i) 1 0.067 0 --> 1

33 (Premolars) 1 0.188 1 ==> 0

40 (Penult upper ) 1 0.154 0 ==> 1

53 (First lower p) 1 0.125 0 ==> 1

56 (p c roots (on) 1 1.000 0 --> 1

62 (Ultimate lowe) 1 0.143 1 ==> 0

74 (Metastylar an) 1 0.158 0 --> 2

75 (Upper first m) 1 0.200 0 ==> 1

83 ((Pre)paracing) 1 0.167 2 ==> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

98 (Paraconule) 1 0.105 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

103 (Procumbent p) 1 0.125 0 --> 1

106 (Precingulum ) 1 0.111 0 --> 1

107 (Postcingulum) 1 0.143 0 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 2

131 (Postcristid ) 1 0.167 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 2

138 (Posteriormos) 1 0.111 2 ==> 3

147 (Labial mandi) 1 0.333 0 ==> 1

155 (Condylar pro) 1 0.143 0 --> 1

194 (Palatal vacu) 1 0.500 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 2

204 (Zygomatic pr) 1 0.200 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 0

214 (Palatine rea) 1 0.067 0 --> 1

217 (Sphenopalati) 1 0.222 0 ==> 1

239 (Frontopariet) 1 0.118 0 --> 1

251 (Entopterygoi) 1 0.143 1 --> 2

252 (Midline rod-) 1 0.333 0 ==> 1

265 (Glenoid foss) 1 0.143 0 ==> 1

301 (Bony shelf l) 1 0.095 1 ==> 0

315 (Foramen for ) 1 0.143 0 -->

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327 ("Tympanic pr) 1 0.500 0 --> 1

352 (Posttemporal) 1 0.250 0 --> 1

358 (Atlas neural) 1 0.500 1 ==> 0

379 (Supratrochle) 1 0.111 0 --> 1

node\_77 --> node\_76 18 (Ultimate uppe) 1 0.400 0 --> 1

28 (Upper canine ) 1 0.125 1 --> 0

30 (Lower canine ) 1 0.250 1 ==> 0

36 (P1 roots) 1 0.154 0 ==> 1

73 (Upper molar s) 1 0.188 2 ==> 1

104 (Protocone la) 1 0.111 0 --> 1

121 (Protoconid h) 1 0.167 1 ==> 0

130 (Entoconid) 1 0.111 2 ==> 1

185 (Lacrimal tub) 1 0.083 0 --> 1

187 (Lacrimal for) 1 0.167 0 --> 1

212 (Shape of zyg) 1 0.111 1 --> 0

227 (Postorbital ) 1 0.071 1 ==> 2

233 (Orbitospheno) 1 0.182 0 --> 1

272 (Postglenoid ) 1 0.286 0 ==> 1

276 (Entoglenoid ) 1 0.133 0 --> 2

285 (Course of in) 1 0.143 0 --> 1

298 (Prootic cana) 1 0.250 0 --> 1

323 (Mastoid proc) 1 0.133 0 ==> 2

331 (Hypoglossal ) 1 0.222 0 --> 1

351 (Posttemporal) 1 0.091 0 ==> 1

node\_76 --> Kennalestes 74 (Metastylar an) 1 0.158 0 --> 2

77 (Preparastyle) 1 0.333 0 ==> 1

79 (Stylar cusp B) 1 0.182 0 ==> 1

106 (Precingulum ) 1 0.111 0 --> 1

107 (Postcingulum) 1 0.143 0 --> 2

120 (Trigonid con) 1 0.105 2 ==> 1

157 (Condyle posi) 2 0.087 2 ==> 0

184 (Facial proce) 1 0.067 0 --> 1

251 (Entopterygoi) 1 0.143 1 --> 2

node\_76 --> Asioryctes 9 (Lower incisors) 1 0.190 1 ==> 0

39 (Penult upper ) 1 0.125 1 ==> 2

45 (Ult upper pre) 1 0.100 1 ==> 2

47 (Ult upper pre) 1 0.071 1 ==> 0

48 (Ult upper pre) 1 0.091 1 ==> 0

57 (Penult lower ) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 0 --> 1

76 (Length of the) 1 0.333 2 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 0

138 (Posteriormos) 1 0.111 2 ==> 1

207 (Maxillary-ju) 1 0.100 0 ==> 1

268 (Glenoid proc) 1 0.182 0 --> 1

311 (Fossa incudi) 1 0.125 0 --> 1

333 (Hypoglossal ) 1 0.143 0 --> 1

362 (Axis anterio) 1 0.286 0 --> 1

412 (Facet on ast) 1 0.067 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 0

node\_120 --> node\_119 8 (Upper incisors) 2 0.208 0 ==> 2

60 (Ult lower pre) 1 0.069 0 --> 1

61 (Ult lower pre) 1 0.154 0 --> 2

84 (Deep ectoflex) 1 0.200 0 --> 2

87 (Paracone and ) 1 0.143 0 --> 1

92 (Postmetacrist) 1 0.125 0 --> 2

104 (Protocone la) 1 0.111 0 --> 1

125 (Trigonid hei) 1 0.100 0 --> 1

127 (Talonid widt) 1 0.125 1 --> 2

155 (Condylar pro) 1 0.143 0 --> 1

192 (Incisive for) 1 0.091 1 --> 0

214 (Palatine rea) 1 0.067 0 --> 1

223 (Ethmoid fora) 1 0.111 0 ==> 1

239 (Frontopariet) 1 0.118 0 --> 1

268 (Glenoid proc) 1 0.182 0 --> 2

297 (Tympanic ape) 1 0.231 0 ==> 1

298 (Prootic cana) 1 0.250 0 --> 1

337 (Ant crus ect) 1 0.250 0 ==> 1

370 (Infraspinous) 1 0.333 0 ==> 1

371 (Suprascapula) 1 0.200 0 ==> 1

394 (Third trocha) 1 0.167 0 --> 1

399 (Articulation) 1 0.500 1 --> 0

403 (Astragalus, ) 1 0.214 1 ==> 2

404 (Astragalus, ) 1 0.500 1 ==> 2

416 (Ectal (post ) 2 0.154 0 --> 2

422 (Tuber calcis) 1 0.125 0 ==> 1

424 (Orientation ) 1 0.125 0 ==> 1

node\_119 --> node\_78 18 (Ultimate uppe) 1 0.400 0 ==> 2

19 (Lower anterio) 1 0.182 0 ==> 1

20 (Lower anterio) 1 0.077 0 --> 1

22 (Lower anterio) 1 0.231 0 ==> 1

23 (Lower anterio) 1 0.200 0 ==> 1

24 (Lower post. i) 1 0.067 0 --> 1

28 (Upper canine ) 1 0.125 1 --> 0

36 (P1 roots) 1 0.154 0 ==> 1

39 (Penult upper ) 1 0.125 1 ==> 2

41 (Penult upper ) 1 0.100 0 ==> 1

47 (Ult upper pre) 1 0.071 1 ==> 0

48 (Ult upper pre) 1 0.091 1 ==> 0

138 (Posteriormos) 1 0.111 2 ==> 1

189 (Translacrima) 1 1.000 0 ==> 1

285 (Course of in) 1 0.143 0 --> 1

315 (Foramen for ) 1 0.143 0 --> 1

325 (Crista inter) 1 0.500 0 --> 1

node\_78 --> Kulbeckia 4 (Upper diastema) 1 0.125 0 --> 1

9 (Lower incisors) 1 0.190 1 ==> 0

30 (Lower canine ) 1 0.250 1 ==> 0

63 (Ult lower pre) 1 0.105 0 ==> 1

65 (Ultimate lowe) 1 0.091 0 ==> 1

68 (Size (area) o) 1 0.087 0 --> 1

97 (Labial edges ) 1 0.087 0 ==> 1

128 (Hypoconulid) 1 0.125 1 --> 2

130 (Entoconid) 1 0.111 2 ==> 1

146 (Anteroventra) 1 0.125 0 ==> 1

204 (Zygomatic pr) 1 0.200 0 ==> 1

301 (Bony shelf l) 1 0.095 1 ==> 0

311 (Fossa incudi) 1 0.125 0 ==> 1

node\_78 --> Zalambdalestes 10 (Upper anterio) 1 0.111 0 --> 1

11 (Upper incisor) 1 0.176 0 --> 1

12 (Anteriormost ) 1 0.200 0 --> 1

13 (Anteriormost ) 1 0.182 0 --> 2

21 (Lower anterio) 1 0.200 0 --> 1

22 (Lower anterio) 1 0.231 1 ==> 2

26 (Shape of inci) 1 0.200 1 --> 2

29 (Lower canine) 1 0.118 0 --> 1

31 (Lower canine ) 1 0.143 0 --> 1

40 (Penult upper ) 1 0.154 0 --> 1

45 (Ult upper pre) 1 0.100 0 --> 1

50 (Ult upper pre) 1 0.167 0 ==> 1

69 (Size (area) o) 1 0.118 1 --> 0

70 (Size (area) o) 1 0.105 1 --> 0

83 ((Pre)paracing) 1 0.167 2 ==> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

98 (Paraconule) 1 0.105 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

117 (Paraconid on) 1 0.077 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 3

128 (Hypoconulid) 1 0.125 1 --> 3

131 (Postcristid ) 1 0.167 0 ==> 1

142 (Coronoid pro) 1 0.077 0 --> 1

178 (Nasofrontal ) 1 0.143 0 ==> 1

201 (Minor palati) 1 0.500 0 --> 1

203 (Posterior ed) 1 0.118 0 ==> 1

213 (Molar roots ) 1 0.083 0 --> 1

216 (Groove conne) 1 0.091 0 --> 1

217 (Sphenopalati) 1 0.222 0 --> 2

220 (Frontal and ) 1 0.091 0 --> 1

221 (Orbital proc) 1 0.125 0 --> 1

224 (Foramen for ) 1 0.100 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 0

233 (Orbitospheno) 1 0.182 0 --> 1

236 (Frontal/alis) 1 0.167 0 --> 1

252 (Midline rod-) 1 0.333 0 --> 1

272 (Postglenoid ) 1 0.286 0 --> 1

276 (Entoglenoid ) 1 0.133 0 --> 2

277 (Posttympanic) 1 0.200 0 --> 1

313 (Fossa incudi) 1 0.500 0 --> 1

314 (Fossa incudi) 1 0.500 0 ==> 1

323 (Mastoid proc) 1 0.133 0 --> 2

327 ("Tympanic pr) 1 0.500 0 --> 1

345 (Post clinoid) 1 1.000 0 --> 1

363 (Cervical inf) 1 0.143 0 --> 1

390 (Articular su) 1 0.083 0 --> 1

402 (Depth of tro) 1 0.333 0 -->

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413 (Astragalar c) 1 0.118 0 -->

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415 (Calcaneal wi) 1 0.111 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 3

423 (Calcaneal fa) 1 0.091 0 --> 1

424 (Orientation ) 1 0.125 1 --> 2

node\_119 --> node\_118 29 (Lower canine) 1 0.118 0 --> 1

34 (Tall, trencha) 1 0.250 1 ==> 2

38 (Shape of the ) 1 0.125 0 ==> 1

44 (Ult upper pre) 1 0.182 1 ==> 2

53 (First lower p) 1 0.125 0 ==> 1

68 (Size (area) o) 1 0.087 0 --> 1

72 (Upper molar s) 1 0.095 2 ==> 1

85 (Metacone size) 1 0.133 0 ==> 1

100 (Internal con) 1 0.100 1 ==> 0

102 (Protocone an) 1 0.091 0 ==> 1

106 (Precingulum ) 1 0.111 0 --> 2

107 (Postcingulum) 1 0.143 0 --> 2

122 (Protocristid) 1 0.083 1 ==> 0

129 (Hypoconulid ) 1 0.167 1 ==> 0

148 (Condyloid cr) 1 0.100 1 ==> 0

152 (Angular proc) 1 0.200 0 ==> 2

154 (Anteroposter) 1 0.077 1 ==> 0

166 (Premaxilla, ) 1 0.222 0 ==> 1

177 (Naso-frontal) 1 0.083 0 ==> 1

180 (Fronto-maxil) 1 0.500 0 ==> 1

184 (Facial proce) 1 0.067 0 --> 1

187 (Lacrimal for) 1 0.167 0 --> 1

191 (Premaxilla, ) 1 0.143 0 ==> 1

200 (Minor palati) 1 0.222 0 ==> 1

209 (Zygomatic ar) 1 0.125 1 ==> 0

212 (Shape of zyg) 1 0.111 1 --> 0

215 (Lacrimal con) 1 0.091 0 ==> 1

237 (Sphenorbital) 1 0.091 0 ==> 1

243 (Anterior lam) 1 0.500 1 --> 2

248 (Pterygoids c) 1 0.167 0 ==> 1

250 (Midline cres) 1 0.100 1 ==> 0

253 (Ectopterygoi) 1 0.200 2 ==> 1

257 (Exit for max) 1 0.500 1 ==> 2

259 (Foramen oval) 1 0.600 3 ==> 2

260 (Foramen oval) 1 0.182 0 --> 2

261 (Alisphenoid ) 1 0.100 0 ==> 1

270 (Postglenoid ) 1 0.133 1 ==> 2

275 (Suprameatal ) 1 0.111 1 ==> 0

276 (Entoglenoid ) 1 0.133 0 --> 1

278 (Carotid fora) 1 1.000 0 ==> 1

279 (Cavum epipte) 1 0.200 3 --> 1

283 (Medial flang) 1 0.125 1 ==> 0

309 (Epitympanic ) 1 0.250 0 --> 1

329 (Jugular fora) 1 0.111 0 ==> 1

331 (Hypoglossal ) 1 0.222 0 --> 1

336 (Ectotympanic) 1 0.200 1 ==> 2

349 (Subarcuate f) 1 0.105 0 --> 1

359 (Atlas neural) 1 0.500 0 --> 1

360 (Axis) 1 0.500 0 ==> 1

361 (Axis with ex) 1 0.333 0 --> 1

365 (Thoracic ver) 1 0.167 0 --> 1

368 (Sacral verte) 1 0.143 0 --> 1

387 (Centrale) 1 0.143 0 --> 1

389 (Epipubic bon) 1 0.500 0 ==> 1

405 (Radius of cu) 1 0.067 0 --> 1

409 (Astragalar m) 1 0.091 1 --> 0

421 (Calcaneal pl) 1 0.143 0 ==> 1

425 (Proportions ) 1 0.095 0 --> 1

node\_118 --> Leptictis 4 (Upper diastema) 1 0.125 0 --> 3

8 (Upper incisors) 1 0.208 2 ==> 3

10 (Upper anterio) 1 0.111 0 ==> 1

26 (Shape of inci) 1 0.200 1 ==> 2

34 (Tall, trencha) 1 0.250 2 ==> 1

36 (P1 roots) 1 0.154 0 ==> 1

37 (P1 posterior ) 1 0.083 0 ==> 1

38 (Shape of the ) 1 0.125 1 ==> 0

40 (Penult upper ) 1 0.154 0 ==> 1

41 (Penult upper ) 1 0.100 0 ==> 1

45 (Ult upper pre) 1 0.100 0 ==> 2

49 (Ult upper pre) 1 0.200 0 ==> 1

63 (Ult lower pre) 2 0.105 0 ==> 2

65 (Ultimate lowe) 1 0.091 0 ==> 1

68 (Size (area) o) 1 0.087 1 ==> 0

69 (Size (area) o) 1 0.118 1 ==> 2

72 (Upper molar s) 1 0.095 1 ==> 2

78 (Stylar cusp A) 1 0.250 0 ==> 2

85 (Metacone size) 1 0.133 1 ==> 0

89 (Orientation o) 1 0.100 1 ==> 0

97 (Labial edges ) 1 0.087 0 ==> 1

98 (Paraconule) 1 0.105 1 ==> 2

100 (Internal con) 1 0.100 0 ==> 1

102 (Protocone an) 1 0.091 1 ==> 0

103 (Procumbent p) 1 0.125 0 ==> 1

106 (Precingulum ) 1 0.111 2 ==> 1

122 (Protocristid) 1 0.083 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 3

129 (Hypoconulid ) 1 0.167 0 ==> 1

142 (Coronoid pro) 1 0.077 0 ==> 1

148 (Condyloid cr) 1 0.100 0 ==> 1

152 (Angular proc) 1 0.200 2 ==> 0

156 (Condyle shap) 1 0.133 0 ==> 1

166 (Premaxilla, ) 1 0.222 1 ==> 0

171 (Infraorbital) 2 0.111 0 ==> 2

172 (Infraorbital) 1 0.167 0 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

174 (Shape ratio ) 1 0.200 0 ==> 1

178 (Nasofrontal ) 1 0.143 0 ==> 1

196 (Anterior ext) 1 0.143 1 ==> 2

199 (Posterior na) 1 0.083 0 ==> 1

200 (Minor palati) 1 0.222 1 ==> 0

207 (Maxillary-ju) 1 0.100 0 ==> 1

209 (Zygomatic ar) 1 0.125 0 ==> 1

223 (Ethmoid fora) 1 0.111 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 2

232 (Optic forame) 1 0.167 0 ==> 1

234 (Suboptic for) 1 0.125 0 ==> 1

236 (Frontal/alis) 1 0.167 0 ==> 1

237 (Sphenorbital) 1 0.091 1 ==> 0

239 (Frontopariet) 1 0.118 1 ==> 0

240 (Temporal lin) 1 0.167 0 ==> 1

242 (Nuchal crest) 1 0.154 1 ==> 0

247 (Vomer contac) 1 0.143 0 ==> 1

251 (Entopterygoi) 1 0.143 1 ==> 2

256 (Transverse c) 1 0.500 0 ==> 1

260 (Foramen oval) 1 0.182 2 ==> 0

265 (Glenoid foss) 1 0.143 0 ==> 1

275 (Suprameatal ) 1 0.111 0 ==> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

297 (Tympanic ape) 1 0.231 1 ==> 2

304 (Tensor tympa) 1 0.125 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

308 (Hypotympanic) 1 0.214 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==> 1

323 (Mastoid proc) 1 0.133 0 ==> 2

326 ("Tympanic pr) 1 0.133 1 ==> 0

330 (Jugular fora) 1 0.111 0 ==> 1

336 (Ectotympanic) 1 0.200 2 ==> 0

341 (Entotympanic) 1 0.200 0 ==> 1

348 (Crista petro) 1 0.077 0 --> 1

349 (Subarcuate f) 1 0.105 1 ==> 0

351 (Posttemporal) 1 0.091 0 ==> 1

365 (Thoracic ver) 1 0.167 1 ==> 0

368 (Sacral verte) 1 0.143 1 --> 2

372 (Acromion) 1 0.250 0 ==> 1

373 (Metacromion) 1 0.125 0 ==> 1

374 (Greater tube) 1 0.111 1 ==> 0

379 (Supratrochle) 1 0.111 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

397 (Patellar fac) 1 0.154 1 ==> 2

401 (Tibia and fi) 1 0.111 0 ==> 1

405 (Radius of cu) 1 0.067 1 ==> 0

410 (Astragalar n) 1 0.133 1 ==> 2

413 (Astragalar c) 1 0.118 0 ==> 2

423 (Calcaneal fa) 1 0.091 0 ==> 1

424 (Orientation ) 1 0.125 1 ==> 2

node\_118 --> node\_84 29 (Lower canine) 1 0.118 1 ==> 0

32 (Canines diver) 1 0.250 0 ==> 1

41 (Penult upper ) 1 0.100 0 ==> 1

62 (Ultimate lowe) 1 0.143 1 ==> 0

84 (Deep ectoflex) 1 0.200 2 ==> 1

85 (Metacone size) 1 0.133 1 ==> 0

88 (Preparacrista) 1 0.167 1 ==> 0

89 (Orientation o) 1 0.100 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 0

97 (Labial edges ) 1 0.087 0 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

127 (Talonid widt) 1 0.125 2 ==> 1

130 (Entoconid) 1 0.111 2 ==> 1

131 (Postcristid ) 1 0.167 0 ==> 1

140 (Space betwee) 1 0.111 1 ==> 0

243 (Anterior lam) 1 0.500 2 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

348 (Crista petro) 1 0.077 0 --> 1

node\_84 --> Didelphodus 44 (Ult upper pre) 1 0.182 2 ==> 1

46 (Ult upper pre) 1 0.167 2 --> 3

47 (Ult upper pre) 1 0.071 1 ==> 0

48 (Ult upper pre) 1 0.091 1 ==> 0

54 (p1-p2 diastem) 1 0.083 0 ==> 1

61 (Ult lower pre) 1 0.154 2 ==> 0

68 (Size (area) o) 1 0.087 1 ==> 0

73 (Upper molar s) 1 0.188 2 --> 1

74 (Metastylar an) 1 0.158 0 ==> 2

79 (Stylar cusp B) 1 0.182 0 --> 1

92 (Postmetacrist) 1 0.125 2 --> 0

95 (Postprotocris) 1 0.154 1 ==> 0

105 (Protocone he) 1 0.250 1 ==> 0

106 (Precingulum ) 1 0.111 2 ==> 0

107 (Postcingulum) 1 0.143 2 ==> 0

124 (Cristid obli) 1 0.190 1 ==> 2

125 (Trigonid hei) 1 0.100 1 --> 0

126 (Trigonid to ) 1 0.200 2 ==> 1

293 (Promontorium) 1 0.071 1 --> 0

301 (Bony shelf l) 1 0.095 1 --> 0

326 ("Tympanic pr) 1 0.133 1 ==> 0

350 (Internal aco) 1 0.125 1 ==> 0

node\_84 --> node\_83 4 (Upper diastema) 1 0.125 0 --> 3

39 (Penult upper ) 1 0.125 1 ==> 2

46 (Ult upper pre) 1 0.167 2 --> 1

51 (Double V-shap) 1 0.500 0 ==> 1

57 (Penult lower ) 1 0.083 0 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 2

69 (Size (area) o) 1 0.118 1 ==> 2

70 (Size (area) o) 1 0.105 1 --> 2

71 (Molar cusp fo) 1 0.125 0 ==> 2

78 (Stylar cusp A) 1 0.250 0 ==> 1

92 (Postmetacrist) 1 0.125 2 --> 1

99 (Metaconule) 1 0.095 2 ==> 0

137 (Anteriormost) 1 0.120 1 --> 0

138 (Posteriormos) 1 0.111 2 --> 1

139 (Depth of man) 1 0.100 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 2

157 (Condyle posi) 1 0.087 2 --> 1

158 (Mandibular s) 1 0.200 0 --> 1

160 (Mandibular s) 1 0.143 0 --> 1

168 (Paracanine f) 1 0.333 0 --> 1

177 (Naso-frontal) 1 0.083 1 --> 0

207 (Maxillary-ju) 1 0.100 0 --> 1

238 (Frontal leng) 1 0.118 1 --> 0

282 (Basicochlear) 1 0.111 0 --> 1

333 (Hypoglossal ) 1 0.143 0 --> 1

376 (Supinator ri) 1 0.071 0 --> 1

383 (Central proc) 1 0.143 0 --> 1

390 (Articular su) 1 0.083 0 --> 1

403 (Astragalus, ) 1 0.214 2 --> 1

412 (Facet on ast) 1 0.067 0 --> 1

node\_83 --> node\_81 10 (Upper anterio) 1 0.111 0 ==> 1

12 (Anteriormost ) 1 0.200 0 ==> 4

13 (Anteriormost ) 1 0.182 0 --> 4

60 (Ult lower pre) 1 0.069 1 ==> 2

63 (Ult lower pre) 1 0.105 0 ==> 1

65 (Ultimate lowe) 1 0.091 0 ==> 1

79 (Stylar cusp B) 1 0.182 0 --> 1

91 (Centrocrista) 1 0.143 0 --> 1

96 (Postvallum sh) 1 0.182 0 ==> 2

134 (Labial postc) 1 0.077 0 ==> 1

143 (Angle betwee) 1 0.133 0 ==> 1

163 (Mandibular f) 1 0.150 1 --> 2

166 (Premaxilla, ) 1 0.222 1 ==> 0

212 (Shape of zyg) 1 0.111 0 --> 1

227 (Postorbital ) 1 0.071 1 ==> 2

237 (Sphenorbital) 1 0.091 1 --> 0

273 (Postglenoid ) 1 0.333 0 --> 1

305 (Area occupie) 1 0.111 0 ==> 1

338 (Anterior cru) 1 0.250 0 --> 1

349 (Subarcuate f) 1 0.105 1 --> 2

393 (Size of less) 1 0.100 1 ==> 0

422 (Tuber calcis) 1 0.125 1 --> 0

node\_81 --> Alcidedorbignya 47 (Ult upper pre) 1 0.071 1 ==> 0

67 (Size (area) o) 1 0.154 1 --> 2

98 (Paraconule) 1 0.105 1 ==> 2

126 (Trigonid to ) 1 0.200 2 ==> 1

143 (Angle betwee) 1 0.133 1 ==> 2

146 (Anteroventra) 1 0.125 0 ==> 1

152 (Angular proc) 1 0.200 2 ==> 1

159 (Mandibular s) 1 0.118 1 --> 2

179 (Nasal forami) 1 0.200 1 ==> 0

184 (Facial proce) 1 0.067 1 ==> 0

187 (Lacrimal for) 1 0.167 1 ==> 0

209 (Zygomatic ar) 1 0.125 0 --> 1

213 (Molar roots ) 1 0.083 0 --> 1

226 (Supraorbital) 1 0.091 0 --> 1

233 (Orbitospheno) 1 0.182 0 --> 1

241 (Nuchal crest) 1 0.100 0 --> 1

242 (Nuchal crest) 1 0.154 1 --> 0

263 (Posterior bo) 1 0.100 1 ==> 0

293 (Promontorium) 1 0.071 1 --> 0

297 (Tympanic ape) 1 0.231 1 --> 2

301 (Bony shelf l) 1 0.095 1 --> 0

336 (Ectotympanic) 1 0.200 2 ==> 0

365 (Thoracic ver) 1 0.167 1 ==> 0

368 (Sacral verte) 1 0.143 1 --> 2

387 (Centrale) 1 0.143 1 --> 0

392 (Greater troc) 1 0.083 1 ==> 2

416 (Ectal (post ) 2 0.154 2 ==> 0

425 (Proportions ) 1 0.095 1 ==> 0

node\_81 --> node\_80 84 (Deep ectoflex) 1 0.200 1 ==> 2

97 (Labial edges ) 1 0.087 1 --> 2

128 (Hypoconulid) 1 0.125 1 ==> 2

138 (Posteriormos) 1 0.111 1 ==> 0

375 (Deltopectora) 1 0.083 0 --> 1

409 (Astragalar m) 1 0.091 0 ==> 1

425 (Proportions ) 1 0.095 1 ==> 2

node\_80 --> Pantolambda 11 (Upper incisor) 1 0.176 0 ==> 3

12 (Anteriormost ) 1 0.200 4 ==> 2

13 (Anteriormost ) 1 0.182 4 ==> 2

69 (Size (area) o) 1 0.118 2 ==> 1

70 (Size (area) o) 1 0.105 2 ==> 1

80 (Stylar cusp C) 1 0.091 0 --> 1

99 (Metaconule) 1 0.095 0 ==> 1

100 (Internal con) 1 0.100 0 ==> 1

129 (Hypoconulid ) 1 0.167 0 ==> 1

168 (Paracanine f) 1 0.333 1 --> 2

191 (Premaxilla, ) 1 0.143 1 ==> 0

209 (Zygomatic ar) 1 0.125 0 --> 1

226 (Supraorbital) 1 0.091 0 --> 1

303 (tegmen tympa) 1 0.167 0 --> 1

313 (Fossa incudi) 1 0.500 0 --> 3

353 (Mastoid fora) 1 0.125 1 ==> 0

374 (Greater tube) 1 0.111 1 ==> 0

387 (Centrale) 1 0.143 1 --> 0

396 (Distal femur) 1 0.125 0 --> 1

420 (Calcaneal an) 1 0.273 1 ==> 0

424 (Orientation ) 1 0.125 1 ==> 0

node\_80 --> node\_79 4 (Upper diastema) 1 0.125 3 ==> 1

20 (Lower anterio) 1 0.077 0 ==> 1

24 (Lower post. i) 1 0.067 0 ==> 1

67 (Size (area) o) 1 0.154 1 --> 2

91 (Centrocrista) 1 0.143 1 --> 2

378 (Entepicondyl) 1 0.100 0 ==> 1

410 (Astragalar n) 1 0.133 1 ==> 0

417 (Overlap betw) 1 0.250 1 ==> 2

node\_79 --> Coryphodon 14 (Anteriormost ) 1 0.250 0 --> 1

72 (Upper molar s) 1 0.095 1 ==> 0

80 (Stylar cusp C) 1 0.091 0 --> 1

85 (Metacone size) 2 0.133 0 --> 2

86 (Metacone posi) 1 0.143 1 --> 2

88 (Preparacrista) 1 0.167 0 --> 1

107 (Postcingulum) 1 0.143 2 --> 1

109 (Pre- and pos) 1 0.143 0 ==> 1

119 (Paracristid) 1 0.111 0 --> 1

124 (Cristid obli) 1 0.190 1 --> 3

127 (Talonid widt) 1 0.125 1 ==> 2

137 (Anteriormost) 1 0.120 0 --> 1

145 (Portion of t) 1 0.200 0 ==> 1

156 (Condyle shap) 1 0.133 0 ==> 1

167 (Posterodorsa) 1 0.125 0 --> 1

168 (Paracanine f) 1 0.333 1 --> 3

238 (Frontal leng) 1 0.118 0 --> 1

239 (Frontopariet) 1 0.118 1 --> 0

240 (Temporal lin) 1 0.167 0 --> 1

359 (Atlas neural) 1 0.500 1 ==> 0

366 (Number of lu) 1 0.167 0 --> 1

391 (Fovea for li) 1 0.182 0 ==> 1

396 (Distal femur) 1 0.125 0 --> 1

411 (Astragalar h) 1 0.200 1 ==> 0

416 (Ectal (post ) 1 0.154 2 ==> 1

422 (Tuber calcis) 1 0.125 0 ==> 1

423 (Calcaneal fa) 1 0.091 0 ==> 1

node\_79 --> Carodnia 41 (Penult upper ) 1 0.100 1 ==> 0

51 (Double V-shap) 1 0.500 1 ==> 0

57 (Penult lower ) 1 0.083 1 ==> 0

58 (Penult lower ) 1 0.167 2 ==> 1

60 (Ult lower pre) 2 0.069 2 ==> 0

63 (Ult lower pre) 1 0.105 1 ==> 0

64 (Length of ult) 1 0.143 0 ==> 1

68 (Size (area) o) 1 0.087 1 ==> 2

107 (Postcingulum) 1 0.143 2 --> 3

115 (Paraconid) 1 0.125 0 ==> 1

122 (Protocristid) 1 0.083 0 ==> 1

128 (Hypoconulid) 1 0.125 2 ==> 0

130 (Entoconid) 1 0.111 1 ==> 2

143 (Angle betwee) 1 0.133 1 ==> 2

146 (Anteroventra) 1 0.125 0 ==> 1

153 (Angular proc) 1 0.091 0 ==> 1

157 (Condyle posi) 1 0.087 1 ==> 2

159 (Mandibular s) 1 0.118 1 --> 2

203 (Posterior ed) 1 0.118 0 ==> 1

382 (Radius artic) 1 0.200 0 ==> 1

397 (Patellar fac) 1 0.154 1 ==> 0

403 (Astragalus, ) 1 0.214 1 ==> 2

404 (Astragalus, ) 1 0.500 2 ==> 1

405 (Radius of cu) 1 0.067 1 ==> 0

407 (Sustentacula) 1 0.083 0 ==> 1

412 (Facet on ast) 1 0.067 1 ==> 0

413 (Astragalar c) 1 0.118 0 ==> 2

421 (Calcaneal pl) 1 0.143 1 ==> 2

node\_83 --> node\_82 73 (Upper molar s) 1 0.188 2 --> 1

83 ((Pre)paracing) 1 0.167 2 ==> 0

87 (Paracone and ) 1 0.143 1 ==> 0

91 (Centrocrista) 1 0.143 0 --> 2

95 (Postprotocris) 1 0.154 1 ==> 2

97 (Labial edges ) 1 0.087 1 --> 2

104 (Protocone la) 1 0.111 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 0

241 (Nuchal crest) 1 0.100 0 --> 1

242 (Nuchal crest) 1 0.154 1 --> 0

node\_82 --> Bemalambda 68 (Size (area) o) 1 0.087 1 ==> 2

72 (Upper molar s) 1 0.095 1 ==> 2

86 (Metacone posi) 1 0.143 1 ==> 0

98 (Paraconule) 1 0.105 1 --> 0

102 (Protocone an) 1 0.091 1 ==> 0

109 (Pre- and pos) 1 0.143 0 ==> 1

119 (Paracristid) 1 0.111 0 --> 1

125 (Trigonid hei) 1 0.100 1 --> 0

154 (Anteroposter) 1 0.077 0 --> 1

156 (Condyle shap) 1 0.133 0 --> 1

157 (Condyle posi) 1 0.087 1 --> 0

182 (Preorbital l) 1 0.083 1 --> 0

212 (Shape of zyg) 1 0.111 0 --> 1

254 (Ectopterygoi) 1 0.200 0 --> 1

270 (Postglenoid ) 1 0.133 2 --> 1

355 (Dorsal margi) 1 0.500 1 --> 0

375 (Deltopectora) 1 0.083 0 --> 1

407 (Sustentacula) 1 0.083 0 --> 1

408 (Astragalar s) 1 0.143 1 --> 0

424 (Orientation ) 1 0.125 1 --> 2

node\_82 --> Harpyodus 74 (Metastylar an) 1 0.158 0 ==> 1

106 (Precingulum ) 1 0.111 2 ==> 1

107 (Postcingulum) 1 0.143 2 ==> 1

108 (Hypocone on ) 1 0.125 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 0

246 (Choanae) 1 0.091 1 ==> 0

node\_118 --> node\_85 3 (Postcanine loc) 1 0.150 1 ==> 2

7 (Incisor shape) 1 0.333 0 ==> 1

8 (Upper incisors) 1 0.208 2 ==> 3

10 (Upper anterio) 1 0.111 0 ==> 1

11 (Upper incisor) 1 0.176 0 ==> 1

13 (Anteriormost ) 1 0.182 0 ==> 1

17 (Enamel distri) 1 0.143 0 ==> 1

20 (Lower anterio) 1 0.077 0 ==> 1

23 (Lower anterio) 1 0.200 0 ==> 1

24 (Lower post. i) 1 0.067 0 ==> 1

26 (Shape of inci) 1 0.200 1 ==> 2

27 (Upper canine) 1 0.111 0 ==> 1

33 (Premolars) 1 0.188 1 ==> 2

45 (Ult upper pre) 1 0.100 0 ==> 1

46 (Ult upper pre) 1 0.167 2 ==> 1

60 (Ult lower pre) 1 0.069 1 ==> 2

76 (Length of the) 1 0.333 2 ==> 1

88 (Preparacrista) 1 0.167 1 ==> 0

89 (Orientation o) 1 0.100 1 ==> 0

92 (Postmetacrist) 1 0.125 2 ==> 0

95 (Postprotocris) 1 0.154 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 0

98 (Paraconule) 1 0.105 1 ==> 0

104 (Protocone la) 1 0.111 1 ==> 0

107 (Postcingulum) 1 0.143 2 ==> 1

108 (Hypocone on ) 1 0.125 0 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

127 (Talonid widt) 1 0.125 2 ==> 1

131 (Postcristid ) 1 0.167 0 ==> 1

139 (Depth of man) 1 0.100 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 2

154 (Anteroposter) 1 0.077 0 ==> 1

160 (Mandibular s) 1 0.143 0 ==> 1

186 (Lacrimal for) 1 0.125 1 ==> 0

212 (Shape of zyg) 1 0.111 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 0

241 (Nuchal crest) 1 0.100 0 --> 1

263 (Posterior bo) 1 0.100 1 ==> 0

339 (Elongate oss) 1 0.125 0 ==> 1

387 (Centrale) 1 0.143 1 ==> 0

node\_85 --> Azygonyx 12 (Anteriormost ) 1 0.200 0 --> 1

19 (Lower anterio) 1 0.182 0 --> 2

53 (First lower p) 1 0.125 1 ==> 0

59 (Penult lower ) 1 0.250 0 ==> 1

63 (Ult lower pre) 2 0.105 0 --> 2

71 (Molar cusp fo) 1 0.125 0 ==> 2

74 (Metastylar an) 1 0.158 0 ==> 1

79 (Stylar cusp B) 1 0.182 0 --> 1

84 (Deep ectoflex) 1 0.200 2 ==> 0

100 (Internal con) 1 0.100 0 --> 1

106 (Precingulum ) 1 0.111 2 --> 1

124 (Cristid obli) 1 0.190 1 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 0

137 (Anteriormost) 1 0.120 1 ==> 0

140 (Space betwee) 1 0.111 1 --> 0

182 (Preorbital l) 1 0.083 1 ==> 0

187 (Lacrimal for) 1 0.167 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 2

232 (Optic forame) 1 0.167 0 ==> 1

237 (Sphenorbital) 1 0.091 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 0

250 (Midline cres) 1 0.100 0 --> 1

265 (Glenoid foss) 1 0.143 0 ==> 1

273 (Postglenoid ) 1 0.333 0 ==> 1

279 (Cavum epipte) 1 0.200 1 --> 3

293 (Promontorium) 1 0.071 1 --> 0

297 (Tympanic ape) 1 0.231 1 --> 2

301 (Bony shelf l) 1 0.095 1 --> 2

302 (Tegmen tympa) 1 0.167 0 --> 1

315 (Foramen for ) 1 0.143 0 --> 1

node\_85 --> Trogosus 9 (Lower incisors) 1 0.190 1 ==> 2

12 (Anteriormost ) 1 0.200 0 --> 2

16 (Upper anterio) 1 0.250 0 ==> 1

19 (Lower anterio) 1 0.182 0 --> 1

21 (Lower anterio) 1 0.200 0 ==> 1

22 (Lower anterio) 2 0.231 0 ==> 2

39 (Penult upper ) 1 0.125 1 ==> 2

47 (Ult upper pre) 1 0.071 1 ==> 0

48 (Ult upper pre) 1 0.091 1 ==> 0

57 (Penult lower ) 1 0.083 0 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 2

62 (Ultimate lowe) 1 0.143 1 ==> 0

67 (Size (area) o) 1 0.154 1 ==> 2

68 (Size (area) o) 1 0.087 1 ==> 2

70 (Size (area) o) 1 0.105 1 ==> 2

83 ((Pre)paracing) 1 0.167 2 ==> 0

86 (Metacone posi) 1 0.143 1 ==> 0

87 (Paracone and ) 1 0.143 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

106 (Precingulum ) 1 0.111 2 --> 0

116 (Paraconid he) 1 0.250 0 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 2

130 (Entoconid) 1 0.111 2 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 2

138 (Posteriormos) 1 0.111 2 ==> 3

143 (Angle betwee) 1 0.133 0 ==> 1

148 (Condyloid cr) 1 0.100 0 ==> 1

157 (Condyle posi) 1 0.087 2 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 2

163 (Mandibular f) 2 0.150 1 --> 3

192 (Incisive for) 1 0.091 0 --> 1

196 (Anterior ext) 1 0.143 1 --> 0

204 (Zygomatic pr) 1 0.200 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 --> 1

215 (Lacrimal con) 1 0.091 1 ==> 0

217 (Sphenopalati) 1 0.222 0 --> 2

223 (Ethmoid fora) 1 0.111 1 --> 0

236 (Frontal/alis) 1 0.167 0 --> 1

239 (Frontopariet) 1 0.118 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 2

267 (Glenoid foss) 1 0.125 0 ==> 1

271 (Postglenoid ) 1 0.143 1 ==> 0

331 (Hypoglossal ) 1 0.222 1 ==> 2

334 (Paroccipital) 1 0.167 0 ==> 1

375 (Deltopectora) 1 0.083 0 --> 1

376 (Supinator ri) 1 0.071 0 --> 1

383 (Central proc) 1 0.143 0 --> 1

385 (Radius artic) 1 0.111 0 --> 1

390 (Articular su) 1 0.083 0 --> 1

391 (Fovea for li) 1 0.182 0 --> 1

393 (Size of less) 1 0.100 1 --> 0

403 (Astragalus, ) 1 0.214 2 --> 1

408 (Astragalar s) 1 0.143 1 --> 0

412 (Facet on ast) 1 0.067 0 --> 1

414 (Posterior tr) 1 0.500 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 2

425 (Proportions ) 1 0.095 1 --> 0

node\_118 --> Protungulatum 29 (Lower canine) 1 0.118 1 ==> 0

41 (Penult upper ) 1 0.100 0 ==> 1

46 (Ult upper pre) 1 0.167 2 ==> 1

57 (Penult lower ) 1 0.083 0 ==> 1

61 (Ult lower pre) 1 0.154 2 ==> 1

62 (Ultimate lowe) 1 0.143 1 ==> 0

65 (Ultimate lowe) 1 0.091 0 ==> 1

67 (Size (area) o) 1 0.154 1 ==> 2

69 (Size (area) o) 1 0.118 1 ==> 2

70 (Size (area) o) 1 0.105 1 ==> 2

72 (Upper molar s) 1 0.095 1 ==> 2

74 (Metastylar an) 1 0.158 0 ==> 1

86 (Metacone posi) 1 0.143 1 ==> 2

89 (Orientation o) 1 0.100 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 2

99 (Metaconule) 1 0.095 2 ==> 1

104 (Protocone la) 1 0.111 1 ==> 2

120 (Trigonid con) 1 0.105 2 ==> 1

127 (Talonid widt) 1 0.125 2 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 3

129 (Hypoconulid ) 1 0.167 0 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

148 (Condyloid cr) 1 0.100 0 ==> 1

152 (Angular proc) 1 0.200 2 ==> 1

297 (Tympanic ape) 1 0.231 1 ==> 2

309 (Epitympanic ) 1 0.250 1 ==> 2

311 (Fossa incudi) 1 0.125 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==>

{12}

323 (Mastoid proc) 1 0.133 0 ==> 2

349 (Subarcuate f) 1 0.105 1 ==> 0

351 (Posttemporal) 1 0.091 0 ==> 1

412 (Facet on ast) 1 0.067 0 --> 1

417 (Overlap betw) 1 0.250 1 ==> 2

425 (Proportions ) 1 0.095 1 ==> 2

node\_118 --> node\_87 29 (Lower canine) 1 0.118 1 ==> 0

34 (Tall, trencha) 1 0.250 2 ==> 0

38 (Shape of the ) 1 0.125 1 ==> 0

39 (Penult upper ) 1 0.125 1 ==> 0

44 (Ult upper pre) 1 0.182 2 ==> 1

45 (Ult upper pre) 1 0.100 0 ==> 2

46 (Ult upper pre) 1 0.167 2 ==> 3

48 (Ult upper pre) 1 0.091 1 ==> 0

61 (Ult lower pre) 1 0.154 2 ==> 0

62 (Ultimate lowe) 1 0.143 1 ==> 0

67 (Size (area) o) 1 0.154 1 ==> 0

68 (Size (area) o) 1 0.087 1 ==> 0

69 (Size (area) o) 1 0.118 1 ==> 0

70 (Size (area) o) 1 0.105 1 ==> 0

72 (Upper molar s) 1 0.095 1 ==> 2

78 (Stylar cusp A) 1 0.250 0 ==> 2

98 (Paraconule) 1 0.105 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

107 (Postcingulum) 1 0.143 2 ==> 1

109 (Pre- and pos) 1 0.143 0 ==> 1

116 (Paraconid he) 1 0.250 0 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

129 (Hypoconulid ) 1 0.167 0 ==> 3

130 (Entoconid) 1 0.111 2 ==> 1

152 (Angular proc) 1 0.200 2 ==> 0

154 (Anteroposter) 1 0.077 0 ==> 1

156 (Condyle shap) 1 0.133 0 ==> 1

157 (Condyle posi) 1 0.087 2 ==> 1

168 (Paracanine f) 1 0.333 0 ==> 3

171 (Infraorbital) 1 0.111 0 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

182 (Preorbital l) 1 0.083 1 ==> 0

185 (Lacrimal tub) 1 0.083 0 ==> 1

203 (Posterior ed) 1 0.118 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 0

212 (Shape of zyg) 1 0.111 0 ==> 1

227 (Postorbital ) 1 0.071 1 ==> 0

230 (Dorsal proce) 1 0.167 0 ==> 1

235 (Orbitotempor) 1 0.125 0 ==> 1

241 (Nuchal crest) 1 0.100 0 --> 1

262 (Posterior op) 1 0.143 0 ==> 1

266 (Glenoid foss) 1 0.364 0 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 1

277 (Posttympanic) 1 0.200 0 ==> 1

293 (Promontorium) 1 0.071 1 --> 0

295 (Promontorium) 1 0.111 0 ==> 1

304 (Tensor tympa) 1 0.125 0 ==> 1

308 (Hypotympanic) 1 0.214 0 ==> 2

334 (Paroccipital) 1 0.167 0 ==> 2

413 (Astragalar c) 1 0.118 0 ==> 1

423 (Calcaneal fa) 1 0.091 0 ==> 1

node\_87 --> Vulpavus 35 (P1 procumbenc) 1 0.250 0 --> 1

37 (P1 posterior ) 1 0.083 0 --> 1

47 (Ult upper pre) 1 0.071 1 --> 0

54 (p1-p2 diastem) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 1 --> 0

106 (Precingulum ) 1 0.111 2 --> 1

214 (Palatine rea) 1 0.067 1 --> 0

276 (Entoglenoid ) 1 0.133 1 --> 0

279 (Cavum epipte) 1 0.200 1 --> 3

301 (Bony shelf l) 1 0.095 1 --> 2

315 (Foramen for ) 1 0.143 0 --> 1

316 (Foramen for ) 1 0.333 1 --> 0

326 ("Tympanic pr) 1 0.133 1 ==> 0

390 (Articular su) 1 0.083 0 --> 1

392 (Greater troc) 1 0.083 1 --> 2

405 (Radius of cu) 1 0.067 1 --> 0

410 (Astragalar n) 1 0.133 1 --> 2

420 (Calcaneal an) 1 0.273 1 --> 2

421 (Calcaneal pl) 1 0.143 1 --> 0

425 (Proportions ) 1 0.095 1 --> 0

node\_87 --> node\_86 43 (Penult upper ) 1 0.300 2 ==> 1

89 (Orientation o) 1 0.100 1 ==> 0

104 (Protocone la) 1 0.111 1 ==> 0

120 (Trigonid con) 1 0.105 2 ==> 1

121 (Protoconid h) 1 0.167 1 ==> 0

126 (Trigonid to ) 1 0.200 2 ==> 1

127 (Talonid widt) 1 0.125 2 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 2

138 (Posteriormos) 1 0.111 2 --> 1

157 (Condyle posi) 1 0.087 1 ==> 0

169 (Paracanine f) 1 0.500 1 --> 2

173 (Nasal) 1 0.133 1 --> 2

196 (Anterior ext) 1 0.143 1 --> 2

197 (Palatal expa) 1 0.118 1 --> 0

198 (Postpalatine) 1 0.071 1 --> 0

199 (Posterior na) 1 0.083 0 --> 1

213 (Molar roots ) 1 0.083 0 --> 1

215 (Lacrimal con) 1 0.091 1 --> 0

216 (Groove conne) 1 0.091 0 --> 1

237 (Sphenorbital) 1 0.091 1 --> 0

254 (Ectopterygoi) 1 0.200 0 --> 1

305 (Area occupie) 1 0.111 0 ==> 1

node\_86 --> Miacis 35 (P1 procumbenc) 1 0.250 0 --> 1

37 (P1 posterior ) 1 0.083 0 --> 1

47 (Ult upper pre) 1 0.071 1 --> 0

50 (Ult upper pre) 1 0.167 0 ==> 1

85 (Metacone size) 1 0.133 1 ==> 0

86 (Metacone posi) 1 0.143 1 ==> 0

127 (Talonid widt) 1 0.125 1 ==> 0

204 (Zygomatic pr) 1 0.200 0 ==> 1

214 (Palatine rea) 1 0.067 1 --> 0

225 (Position of ) 1 0.333 1 --> 0

247 (Vomer contac) 1 0.143 0 ==> 1

301 (Bony shelf l) 1 0.095 1 --> 2

307 (Medial proce) 1 0.250 0 ==> 1

308 (Hypotympanic) 1 0.214 2 ==> 1

331 (Hypoglossal ) 1 0.222 1 ==> 0

387 (Centrale) 1 0.143 1 --> 0

node\_86 --> Cynodictis 3 (Postcanine loc) 1 0.150 1 ==> 2

4 (Upper diastema) 1 0.125 0 --> 3

11 (Upper incisor) 1 0.176 0 ==> 3

26 (Shape of inci) 1 0.200 1 ==> 0

40 (Penult upper ) 1 0.154 0 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 1

60 (Ult lower pre) 1 0.069 1 --> 0

61 (Ult lower pre) 1 0.154 0 ==> 1

66 (Molars) 1 0.667 1 ==> 2

79 (Stylar cusp B) 1 0.182 0 ==> 1

86 (Metacone posi) 1 0.143 1 ==> 2

92 (Postmetacrist) 1 0.125 2 ==> 0

97 (Labial edges ) 1 0.087 0 ==> 1

106 (Precingulum ) 1 0.111 2 --> 1

124 (Cristid obli) 1 0.190 1 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 0

148 (Condyloid cr) 1 0.100 0 ==> 1

152 (Angular proc) 1 0.200 0 ==> 1

181 (Maxillary pr) 1 0.250 0 ==> 1

209 (Zygomatic ar) 1 0.125 0 --> 1

223 (Ethmoid fora) 1 0.111 1 ==> 0

224 (Foramen for ) 1 0.100 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 0

248 (Pterygoids c) 1 0.167 1 --> 0

276 (Entoglenoid ) 1 0.133 1 --> 0

280 (Alisphenoid ) 1 0.111 0 ==> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

344 (Dorsum sella) 1 0.250 1 --> 0

349 (Subarcuate f) 1 0.105 1 --> 0

350 (Internal aco) 1 0.125 1 --> 0

351 (Posttemporal) 1 0.091 0 --> 1

node\_118 --> Diacodexis 13 (Anteriormost ) 1 0.182 0 ==> 4

36 (P1 roots) 1 0.154 0 ==> 1

37 (P1 posterior ) 1 0.083 0 ==> 1

39 (Penult upper ) 1 0.125 1 ==> 2

46 (Ult upper pre) 1 0.167 2 ==> 0

54 (p1-p2 diastem) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 1 ==> 2

61 (Ult lower pre) 1 0.154 2 ==> 0

65 (Ultimate lowe) 1 0.091 0 ==> 1

70 (Size (area) o) 1 0.105 1 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 1

78 (Stylar cusp A) 1 0.250 0 ==> 2

98 (Paraconule) 1 0.105 1 ==> 2

100 (Internal con) 1 0.100 0 ==> 1

104 (Protocone la) 1 0.111 1 ==> 2

107 (Postcingulum) 1 0.143 2 ==> 3

125 (Trigonid hei) 1 0.100 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 2

129 (Hypoconulid ) 1 0.167 0 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 2

177 (Naso-frontal) 1 0.083 1 ==> 0

197 (Palatal expa) 1 0.118 1 ==> 0

210 (Orientation ) 1 0.143 1 ==> 2

215 (Lacrimal con) 1 0.091 1 ==> 0

217 (Sphenopalati) 1 0.222 0 ==> 2

220 (Frontal and ) 1 0.091 0 ==> 1

226 (Supraorbital) 1 0.091 0 ==> 1

227 (Postorbital ) 1 0.071 1 ==> 0

239 (Frontopariet) 1 0.118 1 ==> 0

241 (Nuchal crest) 1 0.100 0 --> 1

242 (Nuchal crest) 1 0.154 1 ==> 0

260 (Foramen oval) 1 0.182 2 ==> 1

261 (Alisphenoid ) 1 0.100 1 ==> 0

268 (Glenoid proc) 1 0.182 2 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

295 (Promontorium) 1 0.111 0 ==> 1

304 (Tensor tympa) 1 0.125 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

323 (Mastoid proc) 1 0.133 0 ==> 2

330 (Jugular fora) 1 0.111 0 ==> 1

334 (Paroccipital) 1 0.167 0 ==> 1

348 (Crista petro) 1 0.077 0 --> 1

349 (Subarcuate f) 1 0.105 1 ==> 0

351 (Posttemporal) 1 0.091 0 ==> 1

363 (Cervical inf) 1 0.143 0 ==> 1

377 (Medial epico) 1 0.111 0 ==> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

382 (Radius artic) 1 0.200 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

396 (Distal femur) 1 0.125 0 ==> 1

397 (Patellar fac) 1 0.154 1 ==> 2

402 (Depth of tro) 1 0.333 0 ==> 1

410 (Astragalar n) 1 0.133 1 ==> 2

411 (Astragalar h) 1 0.200 1 ==> 0

412 (Facet on ast) 1 0.067 0 --> 1

413 (Astragalar c) 1 0.118 0 ==> 2

415 (Calcaneal wi) 1 0.111 0 ==> 1

416 (Ectal (post ) 1 0.154 2 ==> 1

421 (Calcaneal pl) 1 0.143 1 ==> 2

node\_118 --> node\_88 20 (Lower anterio) 1 0.077 0 ==> 1

24 (Lower post. i) 1 0.067 0 ==> 1

31 (Lower canine ) 1 0.143 0 ==> 1

39 (Penult upper ) 1 0.125 1 ==> 2

40 (Penult upper ) 1 0.154 0 ==> 1

45 (Ult upper pre) 1 0.100 0 ==> 1

46 (Ult upper pre) 1 0.167 2 ==> 0

61 (Ult lower pre) 1 0.154 2 ==> 1

64 (Length of ult) 1 0.143 0 ==> 1

71 (Molar cusp fo) 1 0.125 0 ==> 1

73 (Upper molar s) 1 0.188 2 ==> 3

102 (Protocone an) 1 0.091 1 ==> 0

104 (Protocone la) 1 0.111 1 ==> 2

108 (Hypocone on ) 1 0.125 0 ==> 1

115 (Paraconid) 1 0.125 0 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

119 (Paracristid) 1 0.111 0 ==> 1

122 (Protocristid) 1 0.083 0 ==> 1

125 (Trigonid hei) 1 0.100 1 ==> 2

134 (Labial postc) 1 0.077 0 ==> 1

163 (Mandibular f) 1 0.150 1 --> 2

184 (Facial proce) 1 0.067 1 ==> 0

187 (Lacrimal for) 1 0.167 1 ==> 0

210 (Orientation ) 1 0.143 1 ==> 2

213 (Molar roots ) 1 0.083 0 --> 1

226 (Supraorbital) 1 0.091 0 ==> 1

227 (Postorbital ) 1 0.071 1 ==> 0

239 (Frontopariet) 1 0.118 1 ==> 0

246 (Choanae) 1 0.091 1 ==> 0

260 (Foramen oval) 1 0.182 2 ==> 1

263 (Posterior bo) 1 0.100 1 ==> 0

270 (Postglenoid ) 1 0.133 2 ==> 1

328 (Inferior pet) 1 0.300 1 ==> 3

330 (Jugular fora) 1 0.111 0 ==> 1

332 (Hypoglossal ) 1 0.125 0 ==> 1

334 (Paroccipital) 1 0.167 0 ==> 1

339 (Elongate oss) 1 0.125 0 ==> 1

node\_88 --> Dichobune 63 (Ult lower pre) 1 0.105 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 2

138 (Posteriormos) 1 0.111 2 --> 1

142 (Coronoid pro) 1 0.077 0 --> 1

173 (Nasal) 1 0.133 0 ==> 1

178 (Nasofrontal ) 1 0.143 0 ==> 1

199 (Posterior na) 1 0.083 0 --> 1

214 (Palatine rea) 1 0.067 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

221 (Orbital proc) 1 0.125 0 ==> 1

250 (Midline cres) 1 0.100 0 --> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

303 (tegmen tympa) 1 0.167 0 --> 1

304 (Tensor tympa) 1 0.125 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

308 (Hypotympanic) 1 0.214 0 ==> 2

310 (Epitympanic ) 1 0.250 1 --> 0

348 (Crista petro) 1 0.077 0 --> 1

349 (Subarcuate f) 1 0.105 1 ==> 0

node\_88 --> Acotherulum 57 (Penult lower ) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 1 ==> 0

79 (Stylar cusp B) 1 0.182 0 --> 1

99 (Metaconule) 1 0.095 2 ==> 0

106 (Precingulum ) 1 0.111 2 ==> 1

107 (Postcingulum) 1 0.143 2 ==> 3

108 (Hypocone on ) 1 0.125 1 ==> 2

167 (Posterodorsa) 1 0.125 0 --> 1

179 (Nasal forami) 1 0.200 1 ==> 0

197 (Palatal expa) 1 0.118 1 --> 2

203 (Posterior ed) 1 0.118 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 ==> 1

215 (Lacrimal con) 1 0.091 1 ==> 0

233 (Orbitospheno) 1 0.182 0 ==> 1

248 (Pterygoids c) 1 0.167 1 --> 0

279 (Cavum epipte) 1 0.200 1 ==> 3

293 (Promontorium) 1 0.071 1 --> 0

301 (Bony shelf l) 1 0.095 1 ==> 0

312 (Squamosal ep) 1 0.143 0 ==> 1

342 (Hyoid pit on) 1 0.250 0 --> 1

349 (Subarcuate f) 1 0.105 1 ==> 2

351 (Posttemporal) 1 0.091 0 ==> 1

356 (Dorsal relie) 1 0.250 0 --> 1

node\_118 --> node\_90 46 (Ult upper pre) 1 0.167 2 ==> 0

63 (Ult lower pre) 1 0.105 0 ==> 1

71 (Molar cusp fo) 1 0.125 0 ==> 1

95 (Postprotocris) 1 0.154 1 ==> 2

98 (Paraconule) 1 0.105 1 ==> 2

108 (Hypocone on ) 2 0.125 0 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 2

130 (Entoconid) 1 0.111 2 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

157 (Condyle posi) 1 0.087 2 ==> 1

192 (Incisive for) 1 0.091 0 ==> 1

232 (Optic forame) 1 0.167 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 0

241 (Nuchal crest) 1 0.100 0 --> 1

246 (Choanae) 1 0.091 1 ==> 0

247 (Vomer contac) 1 0.143 0 ==> 1

263 (Posterior bo) 1 0.100 1 ==> 0

282 (Basicochlear) 1 0.111 0 ==> 1

293 (Promontorium) 1 0.071 1 --> 0

303 (tegmen tympa) 1 0.167 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==> 2

332 (Hypoglossal ) 1 0.125 0 ==> 1

334 (Paroccipital) 1 0.167 0 ==> 1

353 (Mastoid fora) 1 0.125 1 ==> 0

368 (Sacral verte) 1 0.143 1 --> 2

373 (Metacromion) 1 0.125 0 ==> 1

379 (Supratrochle) 1 0.111 0 ==> 1

382 (Radius artic) 1 0.200 0 ==> 1

383 (Central proc) 1 0.143 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

397 (Patellar fac) 1 0.154 1 ==> 2

410 (Astragalar n) 1 0.133 1 ==> 2

node\_90 --> Hyopsodus 4 (Upper diastema) 1 0.125 0 --> 3

11 (Upper incisor) 1 0.176 0 ==> 1

27 (Upper canine) 1 0.111 0 --> 1

35 (P1 procumbenc) 1 0.250 0 ==> 1

59 (Penult lower ) 1 0.250 0 ==> 1

67 (Size (area) o) 1 0.154 1 ==> 2

117 (Paraconid on) 1 0.077 0 --> 1

129 (Hypoconulid ) 1 0.167 0 --> 2

142 (Coronoid pro) 1 0.077 0 --> 1

156 (Condyle shap) 1 0.133 0 --> 1

182 (Preorbital l) 1 0.083 1 ==> 0

214 (Palatine rea) 1 0.067 1 --> 0

219 (Maxilla in t) 1 0.111 0 --> 1

227 (Postorbital ) 1 0.071 1 ==> 2

234 (Suboptic for) 1 0.125 0 --> 1

236 (Frontal/alis) 1 0.167 0 --> 1

270 (Postglenoid ) 1 0.133 2 ==> 1

304 (Tensor tympa) 1 0.125 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

309 (Epitympanic ) 1 0.250 1 ==> 0

370 (Infraspinous) 1 0.333 1 ==> 0

375 (Deltopectora) 1 0.083 0 --> 1

390 (Articular su) 1 0.083 0 --> 1

392 (Greater troc) 1 0.083 1 ==> 0

403 (Astragalus, ) 1 0.214 2 --> 1

412 (Facet on ast) 1 0.067 0 --> 1

413 (Astragalar c) 1 0.118 0 ==> 2

425 (Proportions ) 1 0.095 1 ==> 0

node\_90 --> node\_89 12 (Anteriormost ) 1 0.200 0 ==> 4

13 (Anteriormost ) 1 0.182 0 ==> 4

39 (Penult upper ) 1 0.125 1 ==> 2

45 (Ult upper pre) 1 0.100 0 ==> 2

49 (Ult upper pre) 1 0.200 0 ==> 1

54 (p1-p2 diastem) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 1 ==> 2

80 (Stylar cusp C) 1 0.091 0 ==> 1

91 (Centrocrista) 1 0.143 0 ==> 1

94 (Preprotocrist) 1 0.167 1 ==> 2

107 (Postcingulum) 1 0.143 2 --> 3

109 (Pre- and pos) 1 0.143 0 ==> 1

137 (Anteriormost) 1 0.120 1 --> 0

163 (Mandibular f) 1 0.150 1 --> 2

236 (Frontal/alis) 1 0.167 0 --> 2

262 (Posterior op) 1 0.143 0 --> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

295 (Promontorium) 1 0.111 0 ==> 1

372 (Acromion) 1 0.250 0 ==> 1

377 (Medial epico) 1 0.111 0 ==> 1

391 (Fovea for li) 1 0.182 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

423 (Calcaneal fa) 1 0.091 0 ==> 1

node\_89 --> Meniscotherium 4 (Upper diastema) 1 0.125 0 --> 1

27 (Upper canine) 1 0.111 0 --> 1

36 (P1 roots) 1 0.154 0 ==> 1

37 (P1 posterior ) 1 0.083 0 ==> 1

71 (Molar cusp fo) 1 0.125 1 ==> 2

99 (Metaconule) 1 0.095 2 ==> 0

100 (Internal con) 1 0.100 0 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

128 (Hypoconulid) 1 0.125 2 ==> 0

129 (Hypoconulid ) 1 0.167 0 --> 3

139 (Depth of man) 1 0.100 0 ==> 1

142 (Coronoid pro) 1 0.077 0 --> 1

143 (Angle betwee) 1 0.133 0 --> 1

159 (Mandibular s) 1 0.118 1 ==> 2

160 (Mandibular s) 1 0.143 0 ==> 1

184 (Facial proce) 1 0.067 1 ==> 0

193 (Incisive for) 1 0.200 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 2

198 (Postpalatine) 1 0.071 1 ==> 0

219 (Maxilla in t) 1 0.111 0 --> 1

227 (Postorbital ) 1 0.071 1 ==> 0

237 (Sphenorbital) 1 0.091 1 ==> 0

239 (Frontopariet) 1 0.118 1 --> 0

267 (Glenoid foss) 1 0.125 0 ==> 1

329 (Jugular fora) 1 0.111 1 ==> 0

338 (Anterior cru) 1 0.250 0 --> 1

349 (Subarcuate f) 1 0.105 1 --> 2

363 (Cervical inf) 1 0.143 0 --> 1

390 (Articular su) 1 0.083 0 --> 1

403 (Astragalus, ) 1 0.214 2 --> 1

405 (Radius of cu) 1 0.067 1 --> 0

408 (Astragalar s) 1 0.143 1 ==> 0

425 (Proportions ) 1 0.095 1 --> 2

node\_89 --> Phenacodus 10 (Upper anterio) 1 0.111 0 ==> 1

32 (Canines diver) 1 0.250 0 ==> 1

40 (Penult upper ) 1 0.154 0 ==> 1

68 (Size (area) o) 1 0.087 1 ==> 0

86 (Metacone posi) 1 0.143 1 ==> 2

104 (Protocone la) 1 0.111 1 ==> 2

117 (Paraconid on) 1 0.077 0 --> 1

129 (Hypoconulid ) 1 0.167 0 --> 1

156 (Condyle shap) 1 0.133 0 --> 1

196 (Anterior ext) 1 0.143 1 ==> 2

214 (Palatine rea) 1 0.067 1 --> 0

224 (Foramen for ) 1 0.100 1 ==> 0

226 (Supraorbital) 1 0.091 0 ==> 1

234 (Suboptic for) 1 0.125 0 --> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

326 ("Tympanic pr) 1 0.133 1 ==> 0

328 (Inferior pet) 1 0.300 1 --> 2

331 (Hypoglossal ) 1 0.222 1 ==> 0

396 (Distal femur) 1 0.125 0 ==> 1

424 (Orientation ) 1 0.125 1 ==> 2

node\_118 --> Pleuraspidotheri 3 (Postcanine loc) 1 0.150 1 ==> 2

4 (Upper diastema) 1 0.125 0 ==> 2

11 (Upper incisor) 1 0.176 0 ==> 1

26 (Shape of inci) 1 0.200 1 ==> 2

27 (Upper canine) 1 0.111 0 ==> 1

29 (Lower canine) 1 0.118 1 ==> 0

37 (P1 posterior ) 1 0.083 0 ==> 1

39 (Penult upper ) 1 0.125 1 ==> 2

40 (Penult upper ) 1 0.154 0 ==> 2

41 (Penult upper ) 1 0.100 0 ==> 1

45 (Ult upper pre) 1 0.100 0 ==> 2

49 (Ult upper pre) 1 0.200 0 ==> 1

54 (p1-p2 diastem) 1 0.083 0 ==> 1

59 (Penult lower ) 1 0.250 0 ==> 1

63 (Ult lower pre) 1 0.105 0 ==> 1

71 (Molar cusp fo) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 0

73 (Upper molar s) 1 0.188 2 ==> 3

80 (Stylar cusp C) 1 0.091 0 ==> 1

91 (Centrocrista) 1 0.143 0 ==> 1

92 (Postmetacrist) 1 0.125 2 ==> 0

99 (Metaconule) 1 0.095 2 ==> 1

100 (Internal con) 1 0.100 0 ==> 1

102 (Protocone an) 1 0.091 1 ==> 0

104 (Protocone la) 1 0.111 1 ==> 2

107 (Postcingulum) 1 0.143 2 ==> 1

109 (Pre- and pos) 1 0.143 0 ==> 1

110 (Upper molar ) 1 0.250 0 ==> 1

112 (Last upper m) 1 0.200 0 ==> 1

113 (M1-M2 metaco) 1 1.000 0 ==> 1

119 (Paracristid) 1 0.111 0 ==> 1

120 (Trigonid con) 2 0.105 2 ==> 0

124 (Cristid obli) 1 0.190 1 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 0

129 (Hypoconulid ) 1 0.167 0 ==> 3

131 (Postcristid ) 1 0.167 0 ==> 1

138 (Posteriormos) 1 0.111 2 ==> 3

139 (Depth of man) 1 0.100 0 ==> 1

143 (Angle betwee) 1 0.133 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

151 (Lower jaw an) 1 0.500 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 2

168 (Paracanine f) 1 0.333 0 ==> 1

192 (Incisive for) 1 0.091 0 ==> 1

215 (Lacrimal con) 1 0.091 1 ==> 0

216 (Groove conne) 1 0.091 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 0

242 (Nuchal crest) 1 0.154 1 ==> 0

248 (Pterygoids c) 1 0.167 1 ==> 0

250 (Midline cres) 1 0.100 0 ==> 1

268 (Glenoid proc) 1 0.182 2 ==> 1

273 (Postglenoid ) 1 0.333 0 ==> 1

275 (Suprameatal ) 1 0.111 0 ==> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

297 (Tympanic ape) 1 0.231 1 ==> 2

301 (Bony shelf l) 1 0.095 1 ==> 2

303 (tegmen tympa) 1 0.167 0 ==> 1

304 (Tensor tympa) 1 0.125 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

329 (Jugular fora) 1 0.111 1 ==> 0

332 (Hypoglossal ) 1 0.125 0 ==> 1

374 (Greater tube) 1 0.111 1 ==> 0

375 (Deltopectora) 1 0.083 0 --> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

382 (Radius artic) 1 0.200 0 ==> 1

383 (Central proc) 1 0.143 0 ==> 1

393 (Size of less) 1 0.100 1 ==> 0

403 (Astragalus, ) 1 0.214 2 ==> 1

409 (Astragalar m) 1 0.091 0 ==> 1

417 (Overlap betw) 1 0.250 1 ==> 0

422 (Tuber calcis) 1 0.125 1 ==> 0

425 (Proportions ) 1 0.095 1 ==> 2

426 (Deep groove ) 1 0.091 0 ==> 1

node\_118 --> node\_91 44 (Ult upper pre) 1 0.182 2 ==> 1

47 (Ult upper pre) 1 0.071 1 ==> 0

67 (Size (area) o) 1 0.154 1 ==> 2

70 (Size (area) o) 1 0.105 1 ==> 2

74 (Metastylar an) 1 0.158 0 ==> 1

79 (Stylar cusp B) 1 0.182 0 ==> 1

88 (Preparacrista) 1 0.167 1 ==> 0

92 (Postmetacrist) 1 0.125 2 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 2

99 (Metaconule) 1 0.095 2 ==> 1

100 (Internal con) 1 0.100 0 ==> 1

104 (Protocone la) 1 0.111 1 ==> 2

108 (Hypocone on ) 1 0.125 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 0

126 (Trigonid to ) 1 0.200 2 ==> 1

130 (Entoconid) 1 0.111 2 ==> 1

131 (Postcristid ) 1 0.167 0 ==> 1

139 (Depth of man) 1 0.100 0 ==> 1

143 (Angle betwee) 1 0.133 0 ==> 1

185 (Lacrimal tub) 1 0.083 0 ==> 1

213 (Molar roots ) 1 0.083 0 --> 1

226 (Supraorbital) 1 0.091 0 ==> 1

232 (Optic forame) 1 0.167 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 0

241 (Nuchal crest) 1 0.100 0 --> 1

275 (Suprameatal ) 1 0.111 0 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

282 (Basicochlear) 1 0.111 0 ==> 1

293 (Promontorium) 1 0.071 1 --> 0

node\_91 --> Maiorana 27 (Upper canine) 1 0.111 0 ==> 1

41 (Penult upper ) 1 0.100 0 ==> 1

61 (Ult lower pre) 1 0.154 2 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

174 (Shape ratio ) 1 0.200 0 --> 1

200 (Minor palati) 1 0.222 1 ==> 0

209 (Zygomatic ar) 1 0.125 0 --> 1

216 (Groove conne) 1 0.091 0 ==> 1

224 (Foramen for ) 1 0.100 1 --> 0

237 (Sphenorbital) 1 0.091 1 --> 0

268 (Glenoid proc) 1 0.182 2 --> 1

290 (Stapedial ra) 1 0.167 1 ==> 0

403 (Astragalus, ) 1 0.214 2 --> 1

412 (Facet on ast) 1 0.067 0 --> 1

node\_91 --> Baioconodon 57 (Penult lower ) 1 0.083 0 --> 1

60 (Ult lower pre) 1 0.069 1 ==> 2

68 (Size (area) o) 1 0.087 1 ==> 0

69 (Size (area) o) 1 0.118 1 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 2

81 (Stylar cusp D) 1 0.200 0 ==> 1

82 (Stylar cusp E) 1 0.222 2 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

138 (Posteriormos) 1 0.111 2 --> 1

140 (Space betwee) 1 0.111 1 ==> 0

157 (Condyle posi) 1 0.087 2 --> 1

163 (Mandibular f) 1 0.150 1 --> 2

177 (Naso-frontal) 1 0.083 1 ==> 0

203 (Posterior ed) 1 0.118 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 --> 1

210 (Orientation ) 1 0.143 1 ==> 0

260 (Foramen oval) 1 0.182 2 ==> 0

262 (Posterior op) 1 0.143 0 ==> 1

276 (Entoglenoid ) 1 0.133 1 ==> 2

node\_118 --> node\_92 24 (Lower post. i) 1 0.067 0 ==> 1

29 (Lower canine) 1 0.118 1 ==> 0

44 (Ult upper pre) 1 0.182 2 ==> 1

48 (Ult upper pre) 1 0.091 1 ==> 0

69 (Size (area) o) 1 0.118 1 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 0

73 (Upper molar s) 1 0.188 2 ==> 3

74 (Metastylar an) 1 0.158 0 ==> 3

75 (Upper first m) 1 0.200 0 ==> 1

83 ((Pre)paracing) 1 0.167 2 ==> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

95 (Postprotocris) 1 0.154 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 0

104 (Protocone la) 1 0.111 1 ==> 2

108 (Hypocone on ) 1 0.125 0 ==> 1

115 (Paraconid) 1 0.125 0 ==> 1

122 (Protocristid) 1 0.083 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 3

130 (Entoconid) 1 0.111 2 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

138 (Posteriormos) 1 0.111 2 ==> 1

139 (Depth of man) 1 0.100 0 ==> 1

140 (Space betwee) 1 0.111 1 ==> 0

148 (Condyloid cr) 1 0.100 0 ==> 1

152 (Angular proc) 1 0.200 2 ==> 0

154 (Anteroposter) 1 0.077 0 ==> 1

156 (Condyle shap) 1 0.133 0 ==> 1

157 (Condyle posi) 2 0.087 2 ==> 0

168 (Paracanine f) 1 0.333 0 ==> 3

177 (Naso-frontal) 1 0.083 1 ==> 0

184 (Facial proce) 1 0.067 1 ==> 0

191 (Premaxilla, ) 1 0.143 1 ==> 0

203 (Posterior ed) 1 0.118 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 ==> 1

212 (Shape of zyg) 1 0.111 0 ==> 1

213 (Molar roots ) 1 0.083 0 --> 1

224 (Foramen for ) 1 0.100 1 ==> 0

237 (Sphenorbital) 1 0.091 1 ==> 0

238 (Frontal leng) 1 0.118 1 ==> 0

241 (Nuchal crest) 1 0.100 0 --> 1

242 (Nuchal crest) 1 0.154 1 ==> 2

248 (Pterygoids c) 1 0.167 1 ==> 0

262 (Posterior op) 1 0.143 0 ==> 1

263 (Posterior bo) 1 0.100 1 ==> 0

266 (Glenoid foss) 1 0.364 0 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

332 (Hypoglossal ) 1 0.125 0 ==> 1

333 (Hypoglossal ) 1 0.143 0 ==> 1

334 (Paroccipital) 1 0.167 0 ==> 2

352 (Posttemporal) 1 0.250 0 ==> 1

node\_92 --> Arctocyonides 37 (P1 posterior ) 1 0.083 0 ==> 1

61 (Ult lower pre) 1 0.154 2 --> 1

65 (Ultimate lowe) 1 0.091 0 ==> 1

67 (Size (area) o) 1 0.154 1 ==> 2

99 (Metaconule) 1 0.095 2 ==> 1

120 (Trigonid con) 1 0.105 2 --> 1

137 (Anteriormost) 1 0.120 1 ==> 2

163 (Mandibular f) 1 0.150 1 --> 2

185 (Lacrimal tub) 1 0.083 0 ==> 1

192 (Incisive for) 1 0.091 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 2

214 (Palatine rea) 1 0.067 1 ==> 0

232 (Optic forame) 1 0.167 0 ==> 1

293 (Promontorium) 1 0.071 1 --> 0

328 (Inferior pet) 1 0.300 1 ==> 3

330 (Jugular fora) 1 0.111 0 --> 1

node\_92 --> Arctocyon 11 (Upper incisor) 1 0.176 0 ==> 3

12 (Anteriormost ) 1 0.200 0 --> 1

13 (Anteriormost ) 1 0.182 0 --> 1

20 (Lower anterio) 1 0.077 0 --> 1

31 (Lower canine ) 1 0.143 0 ==> 1

61 (Ult lower pre) 1 0.154 2 --> 0

68 (Size (area) o) 1 0.087 1 ==> 0

98 (Paraconule) 1 0.105 1 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 2

137 (Anteriormost) 1 0.120 1 ==> 0

143 (Angle betwee) 1 0.133 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 2

329 (Jugular fora) 1 0.111 1 ==> 0

375 (Deltopectora) 1 0.083 0 --> 1

376 (Supinator ri) 1 0.071 0 --> 1

383 (Central proc) 1 0.143 0 --> 1

392 (Greater troc) 1 0.083 1 --> 0

393 (Size of less) 1 0.100 1 --> 0

403 (Astragalus, ) 1 0.214 2 --> 1

409 (Astragalar m) 1 0.091 0 --> 1

412 (Facet on ast) 1 0.067 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 2

422 (Tuber calcis) 1 0.125 1 --> 0

424 (Orientation ) 1 0.125 1 --> 0

426 (Deep groove ) 1 0.091 0 --> 1

node\_118 --> node\_106 3 (Postcanine loc) 1 0.150 1 ==> 2

11 (Upper incisor) 1 0.176 0 ==> 1

26 (Shape of inci) 1 0.200 1 ==> 2

27 (Upper canine) 1 0.111 0 ==> 1

33 (Premolars) 1 0.188 1 ==> 2

44 (Ult upper pre) 1 0.182 2 ==> 1

47 (Ult upper pre) 1 0.071 1 ==> 0

97 (Labial edges ) 1 0.087 0 ==> 1

98 (Paraconule) 1 0.105 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

103 (Procumbent p) 1 0.125 0 ==> 1

104 (Protocone la) 1 0.111 1 ==> 0

108 (Hypocone on ) 1 0.125 0 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 3

137 (Anteriormost) 1 0.120 1 ==> 2

143 (Angle betwee) 1 0.133 0 ==> 1

153 (Angular proc) 1 0.091 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 2

163 (Mandibular f) 1 0.150 1 --> 2

171 (Infraorbital) 1 0.111 0 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

175 (Nasal overha) 1 0.125 0 ==> 1

185 (Lacrimal tub) 1 0.083 0 ==> 1

200 (Minor palati) 1 0.222 1 ==> 0

209 (Zygomatic ar) 1 0.125 0 ==> 1

213 (Molar roots ) 1 0.083 0 --> 1

219 (Maxilla in t) 1 0.111 0 ==> 1

225 (Position of ) 1 0.333 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 2

239 (Frontopariet) 1 0.118 1 ==> 0

260 (Foramen oval) 1 0.182 2 ==> 1

275 (Suprameatal ) 1 0.111 0 ==> 1

328 (Inferior pet) 1 0.300 1 ==> 2

336 (Ectotympanic) 1 0.200 2 ==> 1

349 (Subarcuate f) 1 0.105 1 ==> 0

351 (Posttemporal) 1 0.091 0 ==> 1

373 (Metacromion) 1 0.125 0 ==> 1

388 (Pubic symphy) 1 0.333 0 ==> 1

node\_106 --> node\_102 9 (Lower incisors) 1 0.190 1 --> 2

10 (Upper anterio) 1 0.111 0 ==> 1

19 (Lower anterio) 1 0.182 0 --> 1

20 (Lower anterio) 1 0.077 0 ==> 1

34 (Tall, trencha) 1 0.250 2 --> 0

46 (Ult upper pre) 1 0.167 2 ==> 0

60 (Ult lower pre) 1 0.069 1 --> 2

68 (Size (area) o) 1 0.087 1 ==> 0

70 (Size (area) o) 1 0.105 1 ==> 0

86 (Metacone posi) 1 0.143 1 ==> 2

95 (Postprotocris) 1 0.154 1 ==> 0

108 (Hypocone on ) 1 0.125 1 ==> 2

124 (Cristid obli) 1 0.190 1 ==> 3

152 (Angular proc) 1 0.200 2 --> 0

154 (Anteroposter) 1 0.077 0 --> 1

181 (Maxillary pr) 1 0.250 0 --> 1

186 (Lacrimal for) 1 0.125 1 ==> 0

247 (Vomer contac) 1 0.143 0 ==> 1

305 (Area occupie) 1 0.111 0 ==> 1

337 (Ant crus ect) 1 0.250 1 ==> 0

node\_102 --> node\_101 24 (Lower post. i) 1 0.067 0 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

137 (Anteriormost) 1 0.120 2 --> 3

166 (Premaxilla, ) 1 0.222 1 ==> 2

199 (Posterior na) 1 0.083 0 ==> 1

203 (Posterior ed) 1 0.118 0 ==> 1

239 (Frontopariet) 1 0.118 0 ==> 2

302 (Tegmen tympa) 1 0.167 0 ==> 1

308 (Hypotympanic) 1 0.214 0 --> 2

392 (Greater troc) 1 0.083 1 ==> 0

407 (Sustentacula) 1 0.083 0 ==> 1

413 (Astragalar c) 1 0.118 0 --> 2

node\_101 --> node\_100 8 (Upper incisors) 1 0.208 2 ==> 3

104 (Protocone la) 1 0.111 0 ==> 1

153 (Angular proc) 1 0.091 1 ==> 0

173 (Nasal) 1 0.133 1 ==> 2

175 (Nasal overha) 1 0.125 1 ==> 0

182 (Preorbital l) 1 0.083 1 ==> 0

233 (Orbitospheno) 1 0.182 0 ==> 1

260 (Foramen oval) 1 0.182 1 ==> 0

263 (Posterior bo) 1 0.100 1 ==> 0

301 (Bony shelf l) 1 0.095 1 --> 2

318 (Stapedius fo) 1 0.250 0 ==> 1

323 (Mastoid proc) 1 0.133 0 --> 2

324 (Posterior bo) 1 0.250 1 ==> 0

330 (Jugular fora) 1 0.111 0 ==> 1

363 (Cervical inf) 1 0.143 0 ==> 1

374 (Greater tube) 1 0.111 1 ==> 0

387 (Centrale) 1 0.143 1 ==> 0

390 (Articular su) 1 0.083 0 ==> 1

423 (Calcaneal fa) 1 0.091 0 ==> 1

node\_100 --> Ptilocercus 9 (Lower incisors) 1 0.190 2 ==> 1

11 (Upper incisor) 1 0.176 1 ==> 0

13 (Anteriormost ) 1 0.182 0 ==> 1

19 (Lower anterio) 1 0.182 1 ==> 2

28 (Upper canine ) 1 0.125 1 --> 0

36 (P1 roots) 1 0.154 0 --> 1

38 (Shape of the ) 1 0.125 1 --> 0

46 (Ult upper pre) 1 0.167 0 ==> 2

65 (Ultimate lowe) 1 0.091 0 ==> 1

74 (Metastylar an) 1 0.158 0 --> 2

84 (Deep ectoflex) 1 0.200 2 ==> 1

85 (Metacone size) 1 0.133 1 ==> 2

89 (Orientation o) 1 0.100 1 ==> 0

92 (Postmetacrist) 1 0.125 2 ==> 0

97 (Labial edges ) 1 0.087 1 ==> 2

108 (Hypocone on ) 2 0.125 2 ==> 0

109 (Pre- and pos) 1 0.143 0 ==> 1

118 (Mesiolingual) 1 0.333 0 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

129 (Hypoconulid ) 1 0.167 0 --> 1

138 (Posteriormos) 1 0.111 2 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

154 (Anteroposter) 1 0.077 1 ==> 0

157 (Condyle posi) 1 0.087 2 --> 1

159 (Mandibular s) 1 0.118 2 --> 1

177 (Naso-frontal) 1 0.083 1 --> 0

207 (Maxillary-ju) 1 0.100 0 ==> 1

208 (Jugal-lacrim) 1 0.167 0 --> 1

216 (Groove conne) 1 0.091 0 --> 1

227 (Postorbital ) 2 0.071 2 ==> 0

229 (Postorbital ) 1 0.333 0 --> 1

230 (Dorsal proce) 1 0.167 0 ==> 1

236 (Frontal/alis) 1 0.167 0 ==> 2

239 (Frontopariet) 1 0.118 2 ==> 1

240 (Temporal lin) 1 0.167 0 ==> 1

246 (Choanae) 1 0.091 1 --> 0

268 (Glenoid proc) 1 0.182 2 ==> 0

286 (Bony vascula) 1 0.250 0 ==> 1

296 (Facial nerve) 1 0.500 0 --> 2

311 (Fossa incudi) 1 0.125 0 --> 1

312 (Squamosal ep) 1 0.143 0 --> 1

326 ("Tympanic pr) 1 0.133 1 --> 0

329 (Jugular fora) 1 0.111 1 ==> 0

335 (Ectotympanic) 1 0.500 0 --> 1

336 (Ectotympanic) 1 0.200 1 --> 0

337 (Ant crus ect) 1 0.250 0 ==> 1

341 (Entotympanic) 1 0.200 0 ==> 1

348 (Crista petro) 1 0.077 0 ==> 1

366 (Number of lu) 1 0.167 0 ==> 1

372 (Acromion) 1 0.250 0 ==> 1

376 (Supinator ri) 1 0.071 0 ==> 1

393 (Size of less) 1 0.100 1 --> 0

410 (Astragalar n) 1 0.133 1 ==> 2

416 (Ectal (post ) 1 0.154 2 ==> 1

419 (Calcaneal su) 1 0.333 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 2

425 (Proportions ) 1 0.095 1 ==> 0

node\_100 --> node\_99 10 (Upper anterio) 1 0.111 1 ==> 0

34 (Tall, trencha) 1 0.250 0 ==> 2

39 (Penult upper ) 1 0.125 1 ==> 2

44 (Ult upper pre) 1 0.182 1 ==> 2

70 (Size (area) o) 2 0.105 0 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 1

72 (Upper molar s) 1 0.095 1 ==> 2

103 (Procumbent p) 1 0.125 1 ==> 0

107 (Postcingulum) 1 0.143 2 --> 3

128 (Hypoconulid) 1 0.125 3 ==> 1

139 (Depth of man) 1 0.100 0 ==> 1

140 (Space betwee) 1 0.111 1 ==> 0

181 (Maxillary pr) 1 0.250 1 ==> 0

209 (Zygomatic ar) 1 0.125 1 ==> 0

220 (Frontal and ) 1 0.091 0 --> 1

253 (Ectopterygoi) 1 0.200 1 ==> 2

275 (Suprameatal ) 1 0.111 1 ==> 0

283 (Medial flang) 1 0.125 0 ==> 1

308 (Hypotympanic) 1 0.214 2 ==> 3

365 (Thoracic ver) 1 0.167 1 --> 0

node\_99 --> node\_94 45 (Ult upper pre) 1 0.100 0 --> 2

47 (Ult upper pre) 1 0.071 0 --> 1

63 (Ult lower pre) 1 0.105 0 --> 1

97 (Labial edges ) 1 0.087 1 ==> 0

98 (Paraconule) 1 0.105 0 --> 2

158 (Mandibular s) 1 0.200 0 ==> 1

200 (Minor palati) 1 0.222 0 --> 1

212 (Shape of zyg) 1 0.111 0 ==> 1

213 (Molar roots ) 1 0.083 1 ==> 0

235 (Orbitotempor) 1 0.125 0 --> 1

238 (Frontal leng) 1 0.118 1 ==> 0

257 (Exit for max) 1 0.500 2 ==> 1

261 (Alisphenoid ) 1 0.100 1 --> 0

265 (Glenoid foss) 1 0.143 0 ==> 1

284 (RTPP) 1 0.286 0 ==> 2

312 (Squamosal ep) 1 0.143 0 --> 1

319 (Cochlear can) 1 1.000 0 ==> 1

321 (Fenestra coc) 1 1.000 0 ==> 1

322 (Posterior se) 1 1.000 0 ==> 1

326 ("Tympanic pr) 1 0.133 1 ==> 2

335 (Ectotympanic) 1 0.500 0 --> 1

339 (Elongate oss) 1 0.125 0 ==> 1

356 (Dorsal relie) 1 0.250 0 ==> 1

357 (Atlantal for) 1 0.200 0 ==> 1

393 (Size of less) 1 0.100 1 --> 0

414 (Posterior tr) 1 0.500 0 ==> 1

419 (Calcaneal su) 1 0.333 0 --> 1

420 (Calcaneal an) 1 0.273 1 --> 2

426 (Deep groove ) 1 0.091 0 ==> 1

node\_94 --> Plesiadapis 5 (Lower diastema) 1 0.200 0 --> 1

9 (Lower incisors) 1 0.190 2 ==> 1

12 (Anteriormost ) 1 0.200 0 --> 3

22 (Lower anterio) 2 0.231 0 --> 2

29 (Lower canine) 1 0.118 1 --> 2

60 (Ult lower pre) 2 0.069 2 --> 0

61 (Ult lower pre) 1 0.154 2 ==>

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67 (Size (area) o) 1 0.154 1 ==> 2

68 (Size (area) o) 2 0.087 0 ==> 2

69 (Size (area) o) 1 0.118 1 ==> 2

99 (Metaconule) 1 0.095 0 --> 2

104 (Protocone la) 1 0.111 1 --> 2

116 (Paraconid he) 1 0.250 0 --> 1

157 (Condyle posi) 1 0.087 2 --> 1

159 (Mandibular s) 1 0.118 2 --> 1

171 (Infraorbital) 1 0.111 1 ==> 2

182 (Preorbital l) 1 0.083 0 ==> 1

184 (Facial proce) 1 0.067 1 ==> 0

191 (Premaxilla, ) 1 0.143 1 ==> 0

215 (Lacrimal con) 1 0.091 1 ==> 0

234 (Suboptic for) 1 0.125 0 ==> 1

250 (Midline cres) 1 0.100 0 --> 1

251 (Entopterygoi) 1 0.143 1 --> 2

255 (Ectopterygoi) 1 0.250 0 ==> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==> 2

317 (Ascending ca) 1 0.286 1 ==> 2

405 (Radius of cu) 1 0.067 1 ==> 0

413 (Astragalar c) 1 0.118 2 --> 0

425 (Proportions ) 1 0.095 1 ==> 0

node\_94 --> node\_93 3 (Postcanine loc) 1 0.150 2 ==> 1

11 (Upper incisor) 1 0.176 1 ==> 0

12 (Anteriormost ) 1 0.200 0 --> 4

13 (Anteriormost ) 1 0.182 0 ==> 4

19 (Lower anterio) 1 0.182 1 ==> 0

20 (Lower anterio) 1 0.077 1 ==> 0

24 (Lower post. i) 1 0.067 1 --> 0

33 (Premolars) 1 0.188 2 ==> 1

43 (Penult upper ) 1 0.300 2 --> 1

115 (Paraconid) 1 0.125 0 --> 1

124 (Cristid obli) 1 0.190 3 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 2

137 (Anteriormost) 2 0.120 3 ==> 1

154 (Anteroposter) 1 0.077 1 ==> 0

160 (Mandibular s) 1 0.143 0 ==> 1

166 (Premaxilla, ) 1 0.222 2 ==> 1

175 (Nasal overha) 1 0.125 0 ==> 1

188 (Lacrimal for) 1 0.400 0 --> 1

203 (Posterior ed) 1 0.118 1 ==> 0

227 (Postorbital ) 2 0.071 2 ==> 0

229 (Postorbital ) 1 0.333 0 --> 1

230 (Dorsal proce) 1 0.167 0 ==> 1

237 (Sphenorbital) 1 0.091 1 --> 0

246 (Choanae) 1 0.091 1 --> 0

276 (Entoglenoid ) 1 0.133 1 --> 0

286 (Bony vascula) 1 0.250 0 ==> 1

296 (Facial nerve) 1 0.500 0 --> 2

336 (Ectotympanic) 1 0.200 1 --> 0

397 (Patellar fac) 1 0.154 1 --> 2

408 (Astragalar s) 1 0.143 1 ==> 0

410 (Astragalar n) 1 0.133 1 ==> 2

415 (Calcaneal wi) 1 0.111 0 ==> 1

416 (Ectal (post ) 1 0.154 2 ==> 1

421 (Calcaneal pl) 1 0.143 1 ==> 2

425 (Proportions ) 1 0.095 1 ==> 2

node\_93 --> Northarctus 26 (Shape of inci) 1 0.200 2 --> 0

27 (Upper canine) 1 0.111 1 --> 0

29 (Lower canine) 1 0.118 1 ==> 0

32 (Canines diver) 1 0.250 0 ==> 1

37 (P1 posterior ) 1 0.083 0 ==> 1

70 (Size (area) o) 1 0.105 2 ==> 1

74 (Metastylar an) 1 0.158 0 --> 1

86 (Metacone posi) 1 0.143 2 --> 1

99 (Metaconule) 1 0.095 0 --> 2

100 (Internal con) 1 0.100 0 ==> 1

128 (Hypoconulid) 1 0.125 1 --> 2

173 (Nasal) 1 0.133 2 ==> 1

198 (Postpalatine) 1 0.071 1 ==> 0

208 (Jugal-lacrim) 1 0.167 0 ==> 1

250 (Midline cres) 1 0.100 0 --> 1

270 (Postglenoid ) 1 0.133 2 ==> 1

311 (Fossa incudi) 1 0.125 0 --> 1

376 (Supinator ri) 1 0.071 0 --> 1

386 (Scaphoid and) 1 0.500 0 --> 1

390 (Articular su) 1 0.083 1 --> 0

424 (Orientation ) 1 0.125 1 ==> 2

node\_93 --> Adapis 4 (Upper diastema) 1 0.125 0 ==> 3

26 (Shape of inci) 1 0.200 2 --> 1

68 (Size (area) o) 1 0.087 0 --> 1

128 (Hypoconulid) 1 0.125 1 --> 0

144 (Coronoid cre) 1 0.118 1 ==> 2

153 (Angular proc) 1 0.091 0 ==> 1

192 (Incisive for) 1 0.091 0 --> 1

196 (Anterior ext) 1 0.143 1 ==> 0

222 (Ethmoid expo) 1 0.500 0 --> 1

242 (Nuchal crest) 1 0.154 1 ==> 2

268 (Glenoid proc) 1 0.182 2 --> 1

413 (Astragalar c) 1 0.118 2 --> 1

node\_99 --> node\_98 3 (Postcanine loc) 1 0.150 2 ==> 3

4 (Upper diastema) 1 0.125 0 ==> 2

5 (Lower diastema) 1 0.200 0 --> 1

7 (Incisor shape) 1 0.333 0 ==> 1

12 (Anteriormost ) 1 0.200 0 --> 2

13 (Anteriormost ) 1 0.182 0 ==> 2

17 (Enamel distri) 1 0.143 0 ==> 1

21 (Lower anterio) 1 0.200 0 ==> 1

22 (Lower anterio) 3 0.231 0 ==> 3

23 (Lower anterio) 1 0.200 0 ==> 1

27 (Upper canine) 1 0.111 1 ==> 2

29 (Lower canine) 1 0.118 1 --> 2

33 (Premolars) 1 0.188 2 ==> 3

43 (Penult upper ) 1 0.300 2 --> 1

60 (Ult lower pre) 2 0.069 2 --> 0

91 (Centrocrista) 1 0.143 0 ==> 2

104 (Protocone la) 1 0.111 1 --> 2

112 (Last upper m) 1 0.200 0 ==> 1

115 (Paraconid) 1 0.125 0 --> 1

122 (Protocristid) 1 0.083 0 --> 1

134 (Labial postc) 1 0.077 1 ==> 0

146 (Anteroventra) 1 0.125 0 ==> 1

155 (Condylar pro) 1 0.143 1 ==> 0

171 (Infraorbital) 1 0.111 1 ==> 0

172 (Infraorbital) 1 0.167 0 ==> 1

177 (Naso-frontal) 1 0.083 1 --> 0

186 (Lacrimal for) 1 0.125 0 ==> 1

188 (Lacrimal for) 1 0.400 0 --> 1

197 (Palatal expa) 1 0.118 1 ==> 2

200 (Minor palati) 1 0.222 0 --> 2

266 (Glenoid foss) 1 0.364 0 ==> 2

267 (Glenoid foss) 1 0.125 0 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 0

272 (Postglenoid ) 1 0.286 0 ==> 2

276 (Entoglenoid ) 1 0.133 1 --> 0

310 (Epitympanic ) 1 0.250 1 ==> 2

326 ("Tympanic pr) 1 0.133 1 --> 0

334 (Paroccipital) 1 0.167 0 ==> 2

383 (Central proc) 1 0.143 0 ==> 1

392 (Greater troc) 2 0.083 0 ==> 2

397 (Patellar fac) 1 0.154 1 --> 2

407 (Sustentacula) 1 0.083 1 ==> 0

node\_98 --> node\_95 8 (Upper incisors) 1 0.208 3 ==> 4

9 (Lower incisors) 1 0.190 2 ==> 3

16 (Upper anterio) 1 0.250 0 --> 2

39 (Penult upper ) 1 0.125 2 ==> 0

43 (Penult upper ) 1 0.300 1 ==> 0

98 (Paraconule) 1 0.105 0 --> 2

99 (Metaconule) 1 0.095 0 --> 2

132 (Mesoconid) 1 0.500 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

node\_95 --> Tribosphenomys 70 (Size (area) o) 1 0.105 2 ==> 1

89 (Orientation o) 1 0.100 1 ==> 0

97 (Labial edges ) 1 0.087 1 ==> 2

106 (Precingulum ) 1 0.111 2 --> 0

108 (Hypocone on ) 1 0.125 2 ==> 1

136 (Number of me) 1 0.250 0 --> 1

157 (Condyle posi) 1 0.087 2 --> 1

node\_95 --> Paramys 45 (Ult upper pre) 1 0.100 0 --> 2

47 (Ult upper pre) 1 0.071 0 --> 1

49 (Ult upper pre) 1 0.200 0 --> 1

63 (Ult lower pre) 1 0.105 0 --> 1

68 (Size (area) o) 1 0.087 0 --> 1

69 (Size (area) o) 1 0.118 1 ==> 2

72 (Upper molar s) 1 0.095 2 ==>

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73 (Upper molar s) 1 0.188 2 --> 3

74 (Metastylar an) 1 0.158 0 --> 3

80 (Stylar cusp C) 1 0.091 0 ==> 1

94 (Preprotocrist) 1 0.167 1 --> 2

95 (Postprotocris) 1 0.154 0 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 2

130 (Entoconid) 1 0.111 2 ==> 1

142 (Coronoid pro) 1 0.077 0 --> 1

156 (Condyle shap) 1 0.133 0 --> 2

203 (Posterior ed) 1 0.118 1 ==> 2

213 (Molar roots ) 1 0.083 1 ==> 0

239 (Frontopariet) 1 0.118 2 --> 1

246 (Choanae) 1 0.091 1 --> 0

251 (Entopterygoi) 1 0.143 1 --> 2

258 (Number of ma) 1 0.500 1 --> 0

262 (Posterior op) 1 0.143 0 --> 1

279 (Cavum epipte) 1 0.200 1 --> 3

297 (Tympanic ape) 1 0.231 1 --> 0

301 (Bony shelf l) 1 0.095 2 --> 1

305 (Area occupie) 1 0.111 1 --> 0

308 (Hypotympanic) 1 0.214 3 --> 0

324 (Posterior bo) 1 0.250 0 --> 1

328 (Inferior pet) 1 0.300 2 --> 1

333 (Hypoglossal ) 1 0.143 0 --> 1

391 (Fovea for li) 1 0.182 0 --> 2

405 (Radius of cu) 1 0.067 1 ==> 0

424 (Orientation ) 1 0.125 1 ==> 2

node\_98 --> node\_97 16 (Upper anterio) 1 0.250 0 --> 1

73 (Upper molar s) 1 0.188 2 --> 3

74 (Metastylar an) 1 0.158 0 --> 3

83 ((Pre)paracing) 1 0.167 2 ==> 0

85 (Metacone size) 1 0.133 1 ==> 0

94 (Preprotocrist) 1 0.167 1 --> 2

106 (Precingulum ) 1 0.111 2 --> 0

node\_97 --> node\_96 59 (Penult lower ) 1 0.250 0 ==> 1

63 (Ult lower pre) 2 0.105 0 ==> 2

151 (Lower jaw an) 1 0.500 0 --> 1

163 (Mandibular f) 1 0.150 2 --> 1

198 (Postpalatine) 1 0.071 1 --> 0

199 (Posterior na) 1 0.083 1 --> 0

208 (Jugal-lacrim) 1 0.167 0 ==> 1

217 (Sphenopalati) 1 0.222 0 --> 1

278 (Carotid fora) 1 1.000 1 --> 2

336 (Ectotympanic) 1 0.200 1 --> 2

337 (Ant crus ect) 1 0.250 0 --> 1

379 (Supratrochle) 1 0.111 0 --> 1

396 (Distal femur) 1 0.125 0 --> 1

417 (Overlap betw) 1 0.250 1 --> 2

node\_96 --> Rhombomylus 8 (Upper incisors) 1 0.208 3 ==> 4

9 (Lower incisors) 1 0.190 2 ==> 3

16 (Upper anterio) 1 0.250 1 --> 2

46 (Ult upper pre) 1 0.167 0 ==> 1

58 (Penult lower ) 1 0.167 0 --> 1

60 (Ult lower pre) 2 0.069 0 ==> 2

62 (Ultimate lowe) 1 0.143 1 ==> 0

68 (Size (area) o) 1 0.087 0 -->

{12}

69 (Size (area) o) 1 0.118 1 ==> 2

87 (Paracone and ) 1 0.143 1 ==> 0

110 (Upper molar ) 1 0.250 0 ==> 1

127 (Talonid widt) 1 0.125 2 ==> 1

129 (Hypoconulid ) 1 0.167 0 ==> 1

154 (Anteroposter) 1 0.077 1 ==> 0

210 (Orientation ) 1 0.143 1 ==> 2

224 (Foramen for ) 1 0.100 1 --> 0

227 (Postorbital ) 2 0.071 2 ==> 0

230 (Dorsal proce) 1 0.167 0 ==> 1

235 (Orbitotempor) 1 0.125 0 --> 1

236 (Frontal/alis) 1 0.167 0 --> 2

238 (Frontal leng) 1 0.118 1 ==> 0

250 (Midline cres) 1 0.100 0 ==> 1

251 (Entopterygoi) 1 0.143 1 --> 2

272 (Postglenoid ) 1 0.286 2 ==> 1

289 (Stapedial ar) 1 0.125 0 --> 1

294 (Kidney (or b) 1 0.500 0 --> 1

296 (Facial nerve) 1 0.500 0 -->

{12}

304 (Tensor tympa) 1 0.125 0 --> 1

313 (Fossa incudi) 1 0.500 0 --> 2

315 (Foramen for ) 1 0.143 0 --> 2

317 (Ascending ca) 1 0.286 1 --> 2

330 (Jugular fora) 1 0.111 1 --> 0

339 (Elongate oss) 1 0.125 0 ==> 1

344 (Dorsum sella) 1 0.250 1 --> 0

374 (Greater tube) 1 0.111 0 ==> 1

423 (Calcaneal fa) 1 0.091 1 ==> 0

425 (Proportions ) 1 0.095 1 ==> 2

node\_96 --> Gomphos 40 (Penult upper ) 1 0.154 0 --> 1

45 (Ult upper pre) 1 0.100 0 --> 1

48 (Ult upper pre) 1 0.091 1 --> 0

58 (Penult lower ) 1 0.167 0 --> 2

59 (Penult lower ) 1 0.250 1 ==> 2

80 (Stylar cusp C) 1 0.091 0 ==> 1

99 (Metaconule) 1 0.095 0 --> 2

132 (Mesoconid) 1 0.500 0 ==> 1

173 (Nasal) 1 0.133 2 ==> 1

182 (Preorbital l) 1 0.083 0 ==> 1

192 (Incisive for) 1 0.091 0 ==> 1

200 (Minor palati) 1 0.222 2 --> 1

253 (Ectopterygoi) 1 0.200 2 ==> 1

263 (Posterior bo) 1 0.100 0 ==> 1

266 (Glenoid foss) 1 0.364 2 ==> 3

268 (Glenoid proc) 1 0.182 2 ==> 1

283 (Medial flang) 1 0.125 1 ==> 0

368 (Sacral verte) 1 0.143 1 ==> 0

376 (Supinator ri) 1 0.071 0 ==> 1

390 (Articular su) 1 0.083 1 ==> 0

405 (Radius of cu) 1 0.067 1 ==> 0

410 (Astragalar n) 1 0.133 1 ==> 2

415 (Calcaneal wi) 1 0.111 0 ==> 1

416 (Ectal (post ) 1 0.154 2 ==> 1

425 (Proportions ) 1 0.095 1 ==> 0

node\_97 --> Mimotona 48 (Ult upper pre) 1 0.091 1 --> 0

203 (Posterior ed) 1 0.118 1 ==> 0

node\_101 --> Erinaceus 28 (Upper canine ) 1 0.125 1 --> 0

31 (Lower canine ) 1 0.143 0 --> 1

62 (Ultimate lowe) 1 0.143 1 --> 0

67 (Size (area) o) 1 0.154 1 ==> 0

82 (Stylar cusp E) 1 0.222 2 ==> 0

94 (Preprotocrist) 1 0.167 1 --> 0

97 (Labial edges ) 1 0.087 1 ==> 0

102 (Protocone an) 1 0.091 1 ==> 0

107 (Postcingulum) 1 0.143 2 --> 3

110 (Upper molar ) 1 0.250 0 --> 1

111 (Last upper m) 1 0.333 2 --> 1

117 (Paraconid on) 1 0.077 0 --> 1

122 (Protocristid) 1 0.083 0 --> 1

128 (Hypoconulid) 1 0.125 3 ==> 0

129 (Hypoconulid ) 1 0.167 0 --> 3

142 (Coronoid pro) 1 0.077 0 ==> 1

163 (Mandibular f) 1 0.150 2 ==> 3

174 (Shape ratio ) 1 0.200 0 ==> 1

185 (Lacrimal tub) 1 0.083 1 ==> 0

188 (Lacrimal for) 1 0.400 0 --> 1

194 (Palatal vacu) 1 0.500 0 ==> 1

197 (Palatal expa) 1 0.118 1 --> 0

206 (Jugal contri) 1 0.250 0 ==> 1

208 (Jugal-lacrim) 1 0.167 0 --> 1

216 (Groove conne) 1 0.091 0 --> 1

217 (Sphenopalati) 1 0.222 0 ==> 1

220 (Frontal and ) 1 0.091 0 --> 1

221 (Orbital proc) 1 0.125 0 ==> 1

234 (Suboptic for) 1 0.125 0 ==> 1

261 (Alisphenoid ) 1 0.100 1 --> 0

266 (Glenoid foss) 1 0.364 0 ==> 4

272 (Postglenoid ) 1 0.286 0 ==> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

281 (Basisphenoid) 1 0.250 0 ==> 1

284 (RTPP) 1 0.286 0 --> 1

297 (Tympanic ape) 1 0.231 1 ==> 2

310 (Epitympanic ) 1 0.250 1 ==> 0

334 (Paroccipital) 1 0.167 0 ==> 2

351 (Posttemporal) 1 0.091 1 ==> 0

352 (Posttemporal) 1 0.250 0 --> 1

362 (Axis anterio) 1 0.286 0 ==> 1

377 (Medial epico) 1 0.111 0 ==> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

386 (Scaphoid and) 1 0.500 0 ==> 1

391 (Fovea for li) 1 0.182 0 ==> 2

401 (Tibia and fi) 1 0.111 0 --> 1

412 (Facet on ast) 1 0.067 0 --> 1

415 (Calcaneal wi) 1 0.111 0 ==> 1

421 (Calcaneal pl) 1 0.143 1 ==> 0

node\_102 --> Blarina 4 (Upper diastema) 1 0.125 0 --> 3

12 (Anteriormost ) 1 0.200 0 --> 2

13 (Anteriormost ) 1 0.182 0 ==> 1

17 (Enamel distri) 1 0.143 0 ==> 1

22 (Lower anterio) 3 0.231 0 ==> 3

23 (Lower anterio) 1 0.200 0 ==> 1

31 (Lower canine ) 1 0.143 0 --> 1

38 (Shape of the ) 1 0.125 1 --> 0

43 (Penult upper ) 2 0.300 2 ==> 0

45 (Ult upper pre) 1 0.100 0 ==> 2

50 (Ult upper pre) 1 0.167 0 ==> 1

62 (Ultimate lowe) 1 0.143 1 ==> 2

69 (Size (area) o) 1 0.118 1 ==> 0

73 (Upper molar s) 1 0.188 2 ==> 1

80 (Stylar cusp C) 1 0.091 0 ==> 1

83 ((Pre)paracing) 1 0.167 2 ==> 0

85 (Metacone size) 1 0.133 1 ==> 2

89 (Orientation o) 1 0.100 1 ==> 0

91 (Centrocrista) 1 0.143 0 ==> 1

92 (Postmetacrist) 1 0.125 2 ==> 0

94 (Preprotocrist) 1 0.167 1 --> 0

97 (Labial edges ) 1 0.087 1 ==> 2

106 (Precingulum ) 1 0.111 2 --> 0

110 (Upper molar ) 1 0.250 0 --> 1

111 (Last upper m) 1 0.333 2 --> 1

117 (Paraconid on) 1 0.077 0 --> 1

118 (Mesiolingual) 1 0.333 0 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

122 (Protocristid) 1 0.083 0 --> 1

126 (Trigonid to ) 1 0.200 2 ==> 1

129 (Hypoconulid ) 1 0.167 0 --> 3

136 (Number of me) 1 0.250 0 ==> 1

138 (Posteriormos) 1 0.111 2 ==> 3

144 (Coronoid cre) 1 0.118 1 ==> 0

156 (Condyle shap) 1 0.133 0 ==> 1

157 (Condyle posi) 1 0.087 2 --> 1

171 (Infraorbital) 1 0.111 1 ==> 2

178 (Nasofrontal ) 1 0.143 0 ==> 1

197 (Palatal expa) 1 0.118 1 --> 0

204 (Zygomatic pr) 1 0.200 0 ==> 1

205 (Jugal) 1 0.500 0 --> 1

209 (Zygomatic ar) 1 0.125 1 --> 2

215 (Lacrimal con) 1 0.091 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 0

255 (Ectopterygoi) 1 0.250 0 ==> 1

261 (Alisphenoid ) 1 0.100 1 --> 0

265 (Glenoid foss) 1 0.143 0 --> 1

271 (Postglenoid ) 1 0.143 1 ==> 0

277 (Posttympanic) 1 0.200 0 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 3

284 (RTPP) 1 0.286 0 --> 1

297 (Tympanic ape) 1 0.231 1 ==> 3

301 (Bony shelf l) 1 0.095 1 --> 2

313 (Fossa incudi) 1 0.500 0 ==> 1

316 (Foramen for ) 1 0.333 1 ==> 0

323 (Mastoid proc) 1 0.133 0 --> 2

326 ("Tympanic pr) 1 0.133 1 ==> 2

333 (Hypoglossal ) 1 0.143 0 ==> 1

343 (Hyoid contri) 1 0.333 0 --> 1

344 (Dorsum sella) 1 0.250 1 ==> 0

347 (Wall separat) 1 0.250 2 ==> 1

353 (Mastoid fora) 1 0.125 1 ==> 0

368 (Sacral verte) 1 0.143 1 ==> 0

371 (Suprascapula) 1 0.200 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 2

393 (Size of less) 1 0.100 1 --> 0

401 (Tibia and fi) 1 0.111 0 --> 1

405 (Radius of cu) 1 0.067 1 ==> 0

409 (Astragalar m) 1 0.091 0 ==> 1

410 (Astragalar n) 1 0.133 1 ==> 2

426 (Deep groove ) 1 0.091 0 --> 1

node\_106 --> node\_105 38 (Shape of the ) 1 0.125 1 --> 0

62 (Ultimate lowe) 1 0.143 1 --> 0

72 (Upper molar s) 1 0.095 1 ==> 2

78 (Stylar cusp A) 1 0.250 0 ==> 1

84 (Deep ectoflex) 1 0.200 2 ==> 1

87 (Paracone and ) 1 0.143 1 ==> 0

102 (Protocone an) 1 0.091 1 ==> 0

106 (Precingulum ) 1 0.111 2 --> 0

121 (Protoconid h) 1 0.167 1 ==> 0

125 (Trigonid hei) 1 0.100 1 ==> 0

127 (Talonid widt) 2 0.125 2 ==> 0

209 (Zygomatic ar) 1 0.125 1 --> 2

262 (Posterior op) 1 0.143 0 ==> 1

265 (Glenoid foss) 1 0.143 0 --> 1

node\_105 --> node\_104 4 (Upper diastema) 1 0.125 0 --> 3

36 (P1 roots) 1 0.154 0 --> 1

73 (Upper molar s) 1 0.188 2 ==> 1

79 (Stylar cusp B) 1 0.182 0 ==> 1

81 (Stylar cusp D) 1 0.200 0 ==> 1

89 (Orientation o) 1 0.100 1 ==> 0

92 (Postmetacrist) 1 0.125 2 ==> 0

107 (Postcingulum) 1 0.143 2 --> 1

122 (Protocristid) 1 0.083 0 --> 1

128 (Hypoconulid) 1 0.125 3 ==> 2

138 (Posteriormos) 1 0.111 2 ==> 3

157 (Condyle posi) 1 0.087 2 --> 1

172 (Infraorbital) 1 0.167 0 ==> 1

174 (Shape ratio ) 1 0.200 0 --> 1

181 (Maxillary pr) 1 0.250 0 --> 1

197 (Palatal expa) 1 0.118 1 --> 0

205 (Jugal) 1 0.500 0 --> 1

253 (Ectopterygoi) 1 0.200 1 --> 0

276 (Entoglenoid ) 1 0.133 1 --> 2

301 (Bony shelf l) 1 0.095 1 ==> 0

315 (Foramen for ) 1 0.143 0 --> 1

326 ("Tympanic pr) 1 0.133 1 ==> 2

343 (Hyoid contri) 1 0.333 0 --> 1

362 (Axis anterio) 1 0.286 0 --> 1

366 (Number of lu) 1 0.167 0 --> 1

375 (Deltopectora) 1 0.083 0 --> 1

424 (Orientation ) 1 0.125 1 --> 2

node\_104 --> Solenodon 12 (Anteriormost ) 1 0.200 0 --> 3

18 (Ultimate uppe) 1 0.400 0 ==> 1

19 (Lower anterio) 1 0.182 0 --> 2

28 (Upper canine ) 1 0.125 1 --> 0

34 (Tall, trencha) 1 0.250 2 --> 1

60 (Ult lower pre) 1 0.069 1 --> 2

68 (Size (area) o) 1 0.087 1 ==> 0

73 (Upper molar s) 1 0.188 1 --> 0

91 (Centrocrista) 1 0.143 0 --> 2

105 (Protocone he) 1 0.250 1 ==> 0

123 (Talonid) 1 0.333 1 --> 0

126 (Trigonid to ) 2 0.200 2 ==> 0

130 (Entoconid) 2 0.111 2 --> 0

145 (Portion of t) 1 0.200 0 ==> 1

199 (Posterior na) 1 0.083 0 --> 1

217 (Sphenopalati) 1 0.222 0 ==> 1

220 (Frontal and ) 1 0.091 0 --> 1

221 (Orbital proc) 1 0.125 0 ==> 1

223 (Ethmoid fora) 1 0.111 1 --> 0

279 (Cavum epipte) 1 0.200 1 ==> 3

298 (Prootic cana) 1 0.250 1 ==> 0

323 (Mastoid proc) 1 0.133 0 --> 2

331 (Hypoglossal ) 1 0.222 1 --> 0

338 (Anterior cru) 1 0.250 0 ==> 1

361 (Axis with ex) 1 0.333 1 ==> 0

368 (Sacral verte) 1 0.143 1 --> 2

374 (Greater tube) 1 0.111 1 ==> 0

383 (Central proc) 1 0.143 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

387 (Centrale) 1 0.143 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 2

393 (Size of less) 1 0.100 1 --> 0

410 (Astragalar n) 1 0.133 1 ==> 2

412 (Facet on ast) 1 0.067 0 --> 1

421 (Calcaneal pl) 1 0.143 1 --> 0

426 (Deep groove ) 1 0.091 0 --> 1

node\_104 --> node\_103 6 (Dental eruptio) 1 0.200 0 --> 1

12 (Anteriormost ) 1 0.200 0 --> 2

24 (Lower post. i) 1 0.067 0 ==> 1

44 (Ult upper pre) 1 0.182 1 ==> 2

46 (Ult upper pre) 1 0.167 2 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 1

64 (Length of ult) 1 0.143 0 ==> 1

70 (Size (area) o) 1 0.105 1 --> 2

144 (Coronoid cre) 1 0.118 1 ==> 0

154 (Anteroposter) 1 0.077 0 --> 1

171 (Infraorbital) 1 0.111 1 --> 2

176 (Nasal of adu) 1 1.000 0 ==> 1

195 (Major palati) 1 0.500 0 ==> 1

224 (Foramen for ) 1 0.100 1 ==> 0

243 (Anterior lam) 1 0.500 2 --> 1

248 (Pterygoids c) 1 0.167 1 ==> 0

260 (Foramen oval) 1 0.182 1 ==> 2

275 (Suprameatal ) 1 0.111 1 ==> 0

280 (Alisphenoid ) 1 0.111 0 --> 1

282 (Basicochlear) 1 0.111 0 ==> 1

293 (Promontorium) 1 0.071 1 ==> 0

313 (Fossa incudi) 1 0.500 0 ==> 1

390 (Articular su) 1 0.083 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 0

405 (Radius of cu) 1 0.067 1 ==> 0

409 (Astragalar m) 1 0.091 0 ==> 1

413 (Astragalar c) 1 0.118 0 --> 2

node\_103 --> Potamogale 13 (Anteriormost ) 1 0.182 0 --> 3

19 (Lower anterio) 1 0.182 0 --> 2

28 (Upper canine ) 1 0.125 1 --> 0

39 (Penult upper ) 1 0.125 1 --> 2

45 (Ult upper pre) 1 0.100 0 ==> 2

48 (Ult upper pre) 1 0.091 1 ==> 0

57 (Penult lower ) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 1 --> 2

65 (Ultimate lowe) 1 0.091 0 --> 1

69 (Size (area) o) 1 0.118 1 ==> 2

74 (Metastylar an) 1 0.158 0 --> 1

79 (Stylar cusp B) 1 0.182 1 --> 2

80 (Stylar cusp C) 1 0.091 0 ==> 1

86 (Metacone posi) 1 0.143 1 --> 0

97 (Labial edges ) 1 0.087 1 --> 2

103 (Procumbent p) 1 0.125 1 ==> 0

107 (Postcingulum) 1 0.143 1 --> 0

121 (Protoconid h) 1 0.167 0 ==> 1

137 (Anteriormost) 2 0.120 2 ==> 0

152 (Angular proc) 1 0.200 2 --> 0

153 (Angular proc) 1 0.091 1 ==> 0

157 (Condyle posi) 1 0.087 1 ==> 0

159 (Mandibular s) 1 0.118 2 ==> 1

183 (Lacrimal) 1 0.500 0 ==> 1

188 (Lacrimal for) 1 0.400 0 ==> 1

196 (Anterior ext) 1 0.143 1 --> 2

198 (Postpalatine) 1 0.071 1 ==> 0

210 (Orientation ) 1 0.143 1 ==> 0

214 (Palatine rea) 1 0.067 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

219 (Maxilla in t) 1 0.111 1 ==> 0

234 (Suboptic for) 1 0.125 0 ==> 1

235 (Orbitotempor) 1 0.125 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 0

239 (Frontopariet) 1 0.118 0 ==> 1

242 (Nuchal crest) 1 0.154 1 ==> 0

277 (Posttympanic) 1 0.200 0 ==> 1

279 (Cavum epipte) 1 0.200 1 ==> 2

281 (Basisphenoid) 1 0.250 0 --> 1

284 (RTPP) 1 0.286 0 --> 1

307 (Medial proce) 1 0.250 0 ==> 1

308 (Hypotympanic) 1 0.214 0 --> 1

333 (Hypoglossal ) 1 0.143 0 ==> 1

351 (Posttemporal) 1 0.091 1 ==> 0

353 (Mastoid fora) 1 0.125 1 ==> 0

368 (Sacral verte) 1 0.143 1 ==> 0

371 (Suprascapula) 1 0.200 1 ==> 0

372 (Acromion) 1 0.250 0 ==> 1

373 (Metacromion) 1 0.125 1 ==> 0

377 (Medial epico) 1 0.111 0 ==> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

394 (Third trocha) 1 0.167 1 ==> 0

397 (Patellar fac) 1 0.154 1 ==> 2

401 (Tibia and fi) 1 0.111 0 ==> 1

403 (Astragalus, ) 1 0.214 2 ==> 1

415 (Calcaneal wi) 1 0.111 0 ==> 1

420 (Calcaneal an) 1 0.273 1 ==> 0

421 (Calcaneal pl) 1 0.143 1 --> 0

node\_103 --> Tenrec 4 (Upper diastema) 1 0.125 3 ==> 2

8 (Upper incisors) 1 0.208 2 ==> 3

10 (Upper anterio) 1 0.111 0 ==> 1

11 (Upper incisor) 1 0.176 1 ==> 0

13 (Anteriormost ) 1 0.182 0 --> 2

14 (Anteriormost ) 1 0.250 0 ==> 1

20 (Lower anterio) 1 0.077 0 ==> 1

27 (Upper canine) 1 0.111 1 ==> 0

29 (Lower canine) 1 0.118 1 ==> 0

37 (P1 posterior ) 1 0.083 0 ==> 1

39 (Penult upper ) 1 0.125 1 --> 0

40 (Penult upper ) 1 0.154 0 ==> 1

47 (Ult upper pre) 1 0.071 0 ==> 1

53 (First lower p) 1 0.125 1 --> 0

54 (p1-p2 diastem) 1 0.083 0 --> 1

62 (Ultimate lowe) 1 0.143 0 ==> 1

73 (Upper molar s) 1 0.188 1 --> 0

74 (Metastylar an) 1 0.158 0 --> 2

84 (Deep ectoflex) 1 0.200 1 ==> 2

91 (Centrocrista) 1 0.143 0 --> 2

96 (Postvallum sh) 1 0.182 1 ==> 0

106 (Precingulum ) 1 0.111 0 ==> 1

111 (Last upper m) 1 0.333 2 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

123 (Talonid) 1 0.333 1 --> 0

126 (Trigonid to ) 1 0.200 2 --> 1

127 (Talonid widt) 2 0.125 0 ==> 2

130 (Entoconid) 2 0.111 2 --> 0

152 (Angular proc) 1 0.200 2 --> 1

156 (Condyle shap) 1 0.133 0 ==> 2

168 (Paracanine f) 1 0.333 0 ==> 1

169 (Paracanine f) 1 0.500 1 --> 2

175 (Nasal overha) 1 0.125 1 ==> 0

184 (Facial proce) 1 0.067 1 --> 0

186 (Lacrimal for) 1 0.125 1 ==> 0

199 (Posterior na) 1 0.083 0 --> 1

203 (Posterior ed) 1 0.118 0 ==> 1

220 (Frontal and ) 1 0.091 0 --> 1

233 (Orbitospheno) 1 0.182 0 ==> 2

242 (Nuchal crest) 1 0.154 1 ==> 2

252 (Midline rod-) 1 0.333 0 ==> 1

262 (Posterior op) 1 0.143 1 ==> 0

270 (Postglenoid ) 1 0.133 2 ==> 0

302 (Tegmen tympa) 1 0.167 0 ==> 1

308 (Hypotympanic) 1 0.214 0 --> 2

323 (Mastoid proc) 1 0.133 0 --> 2

328 (Inferior pet) 1 0.300 2 ==>

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334 (Paroccipital) 1 0.167 0 ==> 2

348 (Crista petro) 1 0.077 0 --> 1

368 (Sacral verte) 1 0.143 1 --> 2

376 (Supinator ri) 1 0.071 0 ==> 1

407 (Sustentacula) 1 0.083 0 --> 1

412 (Facet on ast) 1 0.067 0 --> 1

422 (Tuber calcis) 1 0.125 1 ==> 0

423 (Calcaneal fa) 1 0.091 0 ==> 1

425 (Proportions ) 1 0.095 1 --> 2

426 (Deep groove ) 1 0.091 0 --> 1

node\_105 --> Eoryctes 9 (Lower incisors) 1 0.190 1 -->

{23}

29 (Lower canine) 1 0.118 1 ==> 0

34 (Tall, trencha) 1 0.250 2 --> 1

45 (Ult upper pre) 1 0.100 0 ==> 2

48 (Ult upper pre) 1 0.091 1 ==> 0

50 (Ult upper pre) 1 0.167 0 ==> 1

61 (Ult lower pre) 1 0.154 2 ==> 0

85 (Metacone size) 1 0.133 1 --> 0

95 (Postprotocris) 1 0.154 1 ==> 2

96 (Postvallum sh) 1 0.182 1 ==> 0

107 (Postcingulum) 1 0.143 2 --> 0

196 (Anterior ext) 1 0.143 1 --> 2

197 (Palatal expa) 1 0.118 1 ==> 2

223 (Ethmoid fora) 1 0.111 1 --> 0

280 (Alisphenoid ) 1 0.111 0 --> 1

281 (Basisphenoid) 1 0.250 0 --> 1

283 (Medial flang) 1 0.125 0 ==> 1

286 (Bony vascula) 1 0.250 0 ==> 1

301 (Bony shelf l) 1 0.095 1 --> 2

302 (Tegmen tympa) 1 0.167 0 ==> 1

308 (Hypotympanic) 1 0.214 0 --> 2

312 (Squamosal ep) 1 0.143 0 ==> 1

331 (Hypoglossal ) 1 0.222 1 --> 0

node\_118 --> node\_107 3 (Postcanine loc) 1 0.150 1 ==> 2

8 (Upper incisors) 3 0.208 2 ==> 5

72 (Upper molar s) 1 0.095 1 ==> 0

142 (Coronoid pro) 1 0.077 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

152 (Angular proc) 1 0.200 2 ==> 1

153 (Angular proc) 1 0.091 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 0

163 (Mandibular f) 1 0.150 1 --> 2

166 (Premaxilla, ) 1 0.222 1 ==> 0

171 (Infraorbital) 1 0.111 0 ==> 1

178 (Nasofrontal ) 1 0.143 0 ==> 1

184 (Facial proce) 1 0.067 1 ==> 0

185 (Lacrimal tub) 1 0.083 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 0

202 (Maxilla expa) 1 0.250 0 ==> 1

209 (Zygomatic ar) 1 0.125 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 2

214 (Palatine rea) 1 0.067 1 ==> 0

215 (Lacrimal con) 1 0.091 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

223 (Ethmoid fora) 1 0.111 1 ==> 0

227 (Postorbital ) 1 0.071 1 ==> 0

233 (Orbitospheno) 1 0.182 0 ==> 1

239 (Frontopariet) 1 0.118 1 ==> 0

261 (Alisphenoid ) 1 0.100 1 ==> 0

263 (Posterior bo) 1 0.100 1 ==> 0

266 (Glenoid foss) 1 0.364 0 ==> 4

293 (Promontorium) 1 0.071 1 --> 0

312 (Squamosal ep) 1 0.143 0 ==> 1

330 (Jugular fora) 1 0.111 0 ==> 1

336 (Ectotympanic) 1 0.200 2 ==> 1

351 (Posttemporal) 1 0.091 0 ==> 1

356 (Dorsal relie) 1 0.250 0 ==> 1

365 (Thoracic ver) 1 0.167 1 ==> 0

373 (Metacromion) 1 0.125 0 ==> 1

375 (Deltopectora) 1 0.083 0 --> 1

379 (Supratrochle) 1 0.111 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

397 (Patellar fac) 1 0.154 1 ==> 2

399 (Articulation) 1 0.500 0 ==> 1

400 (Tibia and fi) 1 0.200 0 ==> 1

402 (Depth of tro) 1 0.333 0 ==> 1

406 (Cotylar foss) 1 0.250 0 ==> 1

409 (Astragalar m) 1 0.091 0 ==> 1

424 (Orientation ) 1 0.125 1 ==> 2

node\_107 --> Orycteropus 2 (Teeth types) 1 0.500 0 ==> 1

9 (Lower incisors) 3 0.190 1 ==> 4

27 (Upper canine) 2 0.111 0 ==> 2

29 (Lower canine) 1 0.118 1 ==> 2

33 (Premolars) 1 0.188 1 ==>

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43 (Penult upper ) 1 0.300 2 ==> 1

68 (Size (area) o) 1 0.087 1 --> 0

70 (Size (area) o) 1 0.105 1 --> 0

137 (Anteriormost) 1 0.120 1 ==> 0

143 (Angle betwee) 1 0.133 0 ==> 1

146 (Anteroventra) 1 0.125 0 ==> 1

156 (Condyle shap) 1 0.133 0 ==> 2

163 (Mandibular f) 1 0.150 2 ==> 3

167 (Posterodorsa) 1 0.125 0 ==> 1

171 (Infraorbital) 1 0.111 1 ==> 2

175 (Nasal overha) 1 0.125 0 ==> 1

186 (Lacrimal for) 1 0.125 1 ==> 0

188 (Lacrimal for) 1 0.400 0 ==> 2

200 (Minor palati) 1 0.222 1 ==> 0

226 (Supraorbital) 1 0.091 0 ==> 1

246 (Choanae) 1 0.091 1 ==> 0

253 (Ectopterygoi) 1 0.200 1 ==> 0

267 (Glenoid foss) 1 0.125 0 ==> 1

270 (Postglenoid ) 1 0.133 2 --> 1

271 (Postglenoid ) 1 0.143 1 ==> 0

276 (Entoglenoid ) 1 0.133 1 ==> 2

295 (Promontorium) 1 0.111 0 ==> 1

311 (Fossa incudi) 1 0.125 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==> 1

317 (Ascending ca) 1 0.286 1 ==> 0

318 (Stapedius fo) 1 0.250 0 --> 1

323 (Mastoid proc) 1 0.133 0 --> 2

326 ("Tympanic pr) 1 0.133 1 ==> 0

346 (Position of ) 1 0.667 0 ==> 2

349 (Subarcuate f) 1 0.105 1 ==> 2

368 (Sacral verte) 1 0.143 1 --> 2

376 (Supinator ri) 1 0.071 0 ==> 1

391 (Fovea for li) 1 0.182 0 ==> 1

395 (Pectineal tu) 1 1.000 0 ==> 1

405 (Radius of cu) 1 0.067 1 ==> 0

423 (Calcaneal fa) 1 0.091 0 ==> 1

node\_107 --> Rhynchocyon 4 (Upper diastema) 1 0.125 0 --> 1

6 (Dental eruptio) 1 0.200 0 ==> 1

13 (Anteriormost ) 1 0.182 0 --> 3

18 (Ultimate uppe) 1 0.400 0 --> 1

20 (Lower anterio) 1 0.077 0 --> 1

24 (Lower post. i) 1 0.067 0 --> 1

28 (Upper canine ) 1 0.125 1 --> 0

30 (Lower canine ) 1 0.250 1 --> 0

36 (P1 roots) 1 0.154 0 --> 1

37 (P1 posterior ) 1 0.083 0 --> 1

38 (Shape of the ) 1 0.125 1 ==> 0

40 (Penult upper ) 1 0.154 0 --> 2

44 (Ult upper pre) 1 0.182 2 --> 1

45 (Ult upper pre) 1 0.100 0 --> 2

47 (Ult upper pre) 1 0.071 1 --> 0

50 (Ult upper pre) 1 0.167 0 ==> 1

53 (First lower p) 1 0.125 1 --> 0

54 (p1-p2 diastem) 1 0.083 0 --> 1

57 (Penult lower ) 1 0.083 0 --> 1

58 (Penult lower ) 1 0.167 0 --> 1

60 (Ult lower pre) 1 0.069 1 --> 0

63 (Ult lower pre) 2 0.105 0 --> 2

66 (Molars) 1 0.667 1 ==> 2

67 (Size (area) o) 1 0.154 1 ==> 0

69 (Size (area) o) 1 0.118 1 ==> 0

71 (Molar cusp fo) 1 0.125 0 --> 2

73 (Upper molar s) 1 0.188 2 --> 3

74 (Metastylar an) 1 0.158 0 --> 3

82 (Stylar cusp E) 1 0.222 2 --> 1

83 ((Pre)paracing) 1 0.167 2 --> 0

85 (Metacone size) 1 0.133 1 --> 0

86 (Metacone posi) 1 0.143 1 --> 2

95 (Postprotocris) 1 0.154 1 --> 0

98 (Paraconule) 1 0.105 1 --> 0

99 (Metaconule) 1 0.095 2 --> 0

106 (Precingulum ) 1 0.111 2 --> 0

107 (Postcingulum) 1 0.143 2 --> 0

119 (Paracristid) 1 0.111 0 --> 1

120 (Trigonid con) 1 0.105 2 --> 1

124 (Cristid obli) 1 0.190 1 --> 2

125 (Trigonid hei) 1 0.100 1 --> 2

128 (Hypoconulid) 1 0.125 1 --> 0

141 (Coronoid pro) 1 0.500 0 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

174 (Shape ratio ) 1 0.200 0 ==> 1

196 (Anterior ext) 1 0.143 1 ==> 2

198 (Postpalatine) 1 0.071 1 ==> 0

199 (Posterior na) 1 0.083 0 ==> 1

207 (Maxillary-ju) 1 0.100 0 ==> 1

228 (Postorbital ) 1 0.500 0 ==> 1

234 (Suboptic for) 1 0.125 0 ==> 1

235 (Orbitotempor) 1 0.125 0 ==> 1

238 (Frontal leng) 1 0.118 1 ==> 2

245 (Foramina for) 1 0.333 1 ==> 2

254 (Ectopterygoi) 1 0.200 0 --> 1

270 (Postglenoid ) 1 0.133 2 --> 0

274 (Postglenoid ) 1 0.250 0 --> 1

280 (Alisphenoid ) 1 0.111 0 ==> 1

281 (Basisphenoid) 1 0.250 0 ==> 1

284 (RTPP) 1 0.286 0 ==> 1

286 (Bony vascula) 1 0.250 0 ==> 1

297 (Tympanic ape) 1 0.231 1 ==> 3

302 (Tegmen tympa) 1 0.167 0 ==> 1

308 (Hypotympanic) 1 0.214 0 ==> 1

310 (Epitympanic ) 1 0.250 1 ==> 2

313 (Fossa incudi) 1 0.500 0 ==> 2

323 (Mastoid proc) 1 0.133 0 --> 1

326 ("Tympanic pr) 1 0.133 1 ==> 2

331 (Hypoglossal ) 1 0.222 1 ==> 0

339 (Elongate oss) 1 0.125 0 ==> 1

341 (Entotympanic) 1 0.200 0 ==> 1

343 (Hyoid contri) 1 0.333 0 ==> 1

348 (Crista petro) 1 0.077 0 --> 1

349 (Subarcuate f) 1 0.105 1 ==> 0

353 (Mastoid fora) 1 0.125 1 ==> 0

362 (Axis anterio) 1 0.286 0 ==> 1

372 (Acromion) 1 0.250 0 ==> 1

377 (Medial epico) 1 0.111 0 ==> 1

396 (Distal femur) 1 0.125 0 ==> 1

401 (Tibia and fi) 1 0.111 0 ==> 1

410 (Astragalar n) 1 0.133 1 ==> 2

412 (Facet on ast) 1 0.067 0 --> 1

413 (Astragalar c) 1 0.118 0 ==> 2

415 (Calcaneal wi) 1 0.111 0 ==> 1

417 (Overlap betw) 1 0.250 1 --> 0

421 (Calcaneal pl) 1 0.143 1 --> 0

425 (Proportions ) 1 0.095 1 --> 0

426 (Deep groove ) 1 0.091 0 --> 1

node\_118 --> node\_112 4 (Upper diastema) 1 0.125 0 ==> 2

20 (Lower anterio) 1 0.077 0 ==> 1

39 (Penult upper ) 1 0.125 1 ==> 2

41 (Penult upper ) 1 0.100 0 ==> 1

42 (Developed cyl) 1 0.500 0 ==> 1

46 (Ult upper pre) 1 0.167 2 ==> 1

58 (Penult lower ) 1 0.167 0 ==> 2

59 (Penult lower ) 1 0.250 0 ==> 1

63 (Ult lower pre) 1 0.105 0 ==> 1

69 (Size (area) o) 1 0.118 1 ==> 2

70 (Size (area) o) 1 0.105 1 ==> 2

71 (Molar cusp fo) 1 0.125 0 ==> 2

75 (Upper first m) 1 0.200 0 ==> 1

82 (Stylar cusp E) 1 0.222 2 ==> 1

86 (Metacone posi) 1 0.143 1 ==> 2

92 (Postmetacrist) 1 0.125 2 ==> 0

98 (Paraconule) 1 0.105 1 ==> 0

99 (Metaconule) 1 0.095 2 ==> 0

112 (Last upper m) 1 0.200 0 ==> 1

115 (Paraconid) 1 0.125 0 ==> 1

125 (Trigonid hei) 1 0.100 1 ==> 2

133 (Hypolophid) 1 0.500 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 0

142 (Coronoid pro) 1 0.077 0 ==> 1

143 (Angle betwee) 1 0.133 0 ==> 1

153 (Angular proc) 1 0.091 0 ==> 1

160 (Mandibular s) 1 0.143 0 ==> 1

167 (Posterodorsa) 1 0.125 0 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

191 (Premaxilla, ) 1 0.143 1 ==> 0

203 (Posterior ed) 1 0.118 0 ==> 1

217 (Sphenopalati) 1 0.222 0 ==> 1

226 (Supraorbital) 1 0.091 0 ==> 1

259 (Foramen oval) 1 0.600 2 ==> 1

260 (Foramen oval) 1 0.182 2 ==> 1

261 (Alisphenoid ) 1 0.100 1 ==> 0

263 (Posterior bo) 1 0.100 1 ==> 0

276 (Entoglenoid ) 1 0.133 1 ==> 0

289 (Stapedial ar) 1 0.125 0 ==> 1

295 (Promontorium) 1 0.111 0 ==> 1

318 (Stapedius fo) 1 0.250 0 ==> 1

334 (Paroccipital) 1 0.167 0 ==> 1

349 (Subarcuate f) 1 0.105 1 ==> 2

353 (Mastoid fora) 1 0.125 1 ==> 0

375 (Deltopectora) 1 0.083 0 --> 1

405 (Radius of cu) 1 0.067 1 ==> 0

406 (Cotylar foss) 1 0.250 0 ==> 1

407 (Sustentacula) 1 0.083 0 ==> 1

409 (Astragalar m) 1 0.091 0 ==> 1

416 (Ectal (post ) 1 0.154 2 ==> 1

node\_112 --> node\_110 12 (Anteriormost ) 1 0.200 0 --> 2

17 (Enamel distri) 1 0.143 0 --> 1

27 (Upper canine) 1 0.111 0 ==> 1

95 (Postprotocris) 1 0.154 1 --> 2

97 (Labial edges ) 1 0.087 0 --> 1

114 (Presence of ) 1 0.333 0 --> 1

120 (Trigonid con) 2 0.105 2 --> 0

135 (Entoconid tr) 1 0.500 0 ==> 1

138 (Posteriormos) 1 0.111 2 --> 3

139 (Depth of man) 1 0.100 0 ==> 1

171 (Infraorbital) 1 0.111 0 --> 1

190 (Narial proce) 1 0.500 0 ==> 1

197 (Palatal expa) 1 0.118 1 ==> 0

211 (Vertical pos) 1 0.333 0 ==> 1

233 (Orbitospheno) 1 0.182 0 ==> 1

247 (Vomer contac) 1 0.143 0 --> 1

254 (Ectopterygoi) 1 0.200 0 --> 1

255 (Ectopterygoi) 1 0.250 0 --> 1

266 (Glenoid foss) 1 0.364 0 ==> 4

267 (Glenoid foss) 1 0.125 0 ==> 1

283 (Medial flang) 1 0.125 0 ==> 1

294 (Kidney (or b) 1 0.500 0 ==> 1

304 (Tensor tympa) 1 0.125 0 ==> 1

306 (Location of ) 1 0.500 0 --> 1

312 (Squamosal ep) 1 0.143 0 ==> 1

320 (Stapedial fo) 1 0.333 0 ==> 1

328 (Inferior pet) 1 0.300 1 --> 2

339 (Elongate oss) 1 0.125 0 ==> 1

342 (Hyoid pit on) 1 0.250 0 ==> 1

356 (Dorsal relie) 1 0.250 0 ==> 1

372 (Acromion) 1 0.250 0 ==> 1

376 (Supinator ri) 1 0.071 0 ==> 1

379 (Supratrochle) 1 0.111 0 ==> 1

412 (Facet on ast) 1 0.067 0 --> 1

421 (Calcaneal pl) 1 0.143 1 --> 2

node\_110 --> node\_109 5 (Lower diastema) 1 0.200 0 ==> 1

9 (Lower incisors) 1 0.190 1 ==> 2

26 (Shape of inci) 1 0.200 1 ==> 2

29 (Lower canine) 1 0.118 1 ==> 2

41 (Penult upper ) 1 0.100 1 ==> 0

42 (Developed cyl) 1 0.500 1 ==> 0

45 (Ult upper pre) 1 0.100 0 ==> 2

46 (Ult upper pre) 1 0.167 1 ==> 0

67 (Size (area) o) 1 0.154 1 ==> 2

107 (Postcingulum) 1 0.143 2 ==> 3

114 (Presence of ) 1 0.333 1 ==> 0

122 (Protocristid) 1 0.083 0 ==> 1

141 (Coronoid pro) 1 0.500 0 ==> 1

146 (Anteroventra) 1 0.125 0 ==> 1

182 (Preorbital l) 1 0.083 1 ==> 0

220 (Frontal and ) 1 0.091 0 --> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

382 (Radius artic) 1 0.200 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

411 (Astragalar h) 1 0.200 1 ==> 0

413 (Astragalar c) 1 0.118 0 --> 2

415 (Calcaneal wi) 1 0.111 0 ==> 1

420 (Calcaneal an) 1 0.273 1 ==> 3

node\_109 --> node\_108 24 (Lower post. i) 1 0.067 0 --> 1

40 (Penult upper ) 1 0.154 0 --> 2

57 (Penult lower ) 1 0.083 0 ==> 1

60 (Ult lower pre) 1 0.069 1 ==> 2

72 (Upper molar s) 1 0.095 1 --> 0

73 (Upper molar s) 1 0.188 2 --> 3

74 (Metastylar an) 1 0.158 0 --> 3

83 ((Pre)paracing) 1 0.167 2 --> 0

92 (Postmetacrist) 1 0.125 0 --> 2

108 (Hypocone on ) 2 0.125 0 ==> 2

135 (Entoconid tr) 1 0.500 1 --> 0

138 (Posteriormos) 2 0.111 3 ==> 1

171 (Infraorbital) 1 0.111 1 ==> 0

190 (Narial proce) 1 0.500 1 ==> 0

216 (Groove conne) 1 0.091 0 ==> 1

226 (Supraorbital) 1 0.091 1 --> 0

235 (Orbitotempor) 1 0.125 0 ==> 1

237 (Sphenorbital) 1 0.091 1 ==> 0

239 (Frontopariet) 1 0.118 1 --> 0

261 (Alisphenoid ) 1 0.100 0 ==> 1

268 (Glenoid proc) 1 0.182 2 --> 0

271 (Postglenoid ) 1 0.143 1 ==> 0

323 (Mastoid proc) 1 0.133 0 --> 2

354 (Amastoidy) 1 0.333 0 --> 1

368 (Sacral verte) 1 0.143 1 --> 2

372 (Acromion) 1 0.250 1 --> 2

376 (Supinator ri) 1 0.071 1 ==> 0

377 (Medial epico) 1 0.111 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

node\_108 --> Procavia 6 (Dental eruptio) 1 0.200 0 --> 1

8 (Upper incisors) 2 0.208 2 ==> 4

11 (Upper incisor) 1 0.176 0 --> 1

13 (Anteriormost ) 1 0.182 0 --> 3

16 (Upper anterio) 1 0.250 0 ==> 2

27 (Upper canine) 1 0.111 1 --> 2

36 (P1 roots) 2 0.154 0 --> 2

43 (Penult upper ) 1 0.300 2 ==> 3

53 (First lower p) 1 0.125 1 --> 0

69 (Size (area) o) 1 0.118 2 ==> 1

70 (Size (area) o) 1 0.105 2 ==> 1

80 (Stylar cusp C) 1 0.091 0 ==> 1

91 (Centrocrista) 1 0.143 0 ==> 1

97 (Labial edges ) 1 0.087 1 ==> 2

110 (Upper molar ) 2 0.250 0 ==> 2

111 (Last upper m) 1 0.333 2 --> 3

115 (Paraconid) 1 0.125 1 ==> 0

119 (Paracristid) 1 0.111 0 --> 1

125 (Trigonid hei) 1 0.100 2 ==> 1

128 (Hypoconulid) 1 0.125 1 ==> 0

129 (Hypoconulid ) 1 0.167 0 ==> 3

143 (Angle betwee) 1 0.133 1 ==> 2

144 (Coronoid cre) 1 0.118 1 ==> 0

173 (Nasal) 1 0.133 1 ==> 0

199 (Posterior na) 1 0.083 0 ==> 1

202 (Maxilla expa) 1 0.250 0 ==> 1

219 (Maxilla in t) 1 0.111 0 --> 1

223 (Ethmoid fora) 1 0.111 1 ==> 0

227 (Postorbital ) 1 0.071 1 --> 0

228 (Postorbital ) 1 0.500 0 --> 1

230 (Dorsal proce) 1 0.167 0 ==> 1

236 (Frontal/alis) 1 0.167 0 --> 2

245 (Foramina for) 1 0.333 1 ==> 2

259 (Foramen oval) 1 0.600 1 --> 2

276 (Entoglenoid ) 1 0.133 0 ==> 1

282 (Basicochlear) 1 0.111 0 --> 1

285 (Course of in) 1 0.143 0 --> 1

295 (Promontorium) 1 0.111 1 ==> 0

310 (Epitympanic ) 1 0.250 1 --> 2

315 (Foramen for ) 1 0.143 0 --> 2

317 (Ascending ca) 1 0.286 1 --> 2

326 ("Tympanic pr) 1 0.133 1 --> 0

341 (Entotympanic) 1 0.200 0 --> 1

346 (Position of ) 1 0.667 0 ==> 2

347 (Wall separat) 1 0.250 2 --> 1

351 (Posttemporal) 1 0.091 0 --> 1

375 (Deltopectora) 1 0.083 1 ==> 0

391 (Fovea for li) 1 0.182 0 --> 1

396 (Distal femur) 1 0.125 0 ==> 1

397 (Patellar fac) 1 0.154 1 ==> 2

400 (Tibia and fi) 1 0.200 0 --> 1

401 (Tibia and fi) 1 0.111 0 --> 1

416 (Ectal (post ) 1 0.154 1 --> 2

417 (Overlap betw) 1 0.250 1 --> 0

421 (Calcaneal pl) 1 0.143 2 --> 0

424 (Orientation ) 1 0.125 1 --> 2

425 (Proportions ) 1 0.095 1 --> 2

node\_108 --> Moeritherium 3 (Postcanine loc) 1 0.150 1 --> 2

4 (Upper diastema) 1 0.125 2 ==> 1

11 (Upper incisor) 1 0.176 0 --> 2

12 (Anteriormost ) 1 0.200 2 ==> 0

13 (Anteriormost ) 1 0.182 0 --> 2

17 (Enamel distri) 1 0.143 1 ==> 0

18 (Ultimate uppe) 1 0.400 0 --> 1

33 (Premolars) 1 0.188 1 --> 2

64 (Length of ult) 1 0.143 0 --> 1

68 (Size (area) o) 1 0.087 1 --> 2

71 (Molar cusp fo) 1 0.125 2 ==> 1

82 (Stylar cusp E) 1 0.222 1 --> 2

94 (Preprotocrist) 1 0.167 1 ==> 0

97 (Labial edges ) 1 0.087 1 ==> 0

109 (Pre- and pos) 1 0.143 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 4

136 (Number of me) 1 0.250 0 ==> 1

140 (Space betwee) 1 0.111 1 --> 0

148 (Condyloid cr) 1 0.100 0 ==> 1

153 (Angular proc) 1 0.091 1 ==> 0

167 (Posterodorsa) 1 0.125 1 ==> 0

177 (Naso-frontal) 1 0.083 1 --> 0

183 (Lacrimal) 1 0.500 0 ==> 1

203 (Posterior ed) 1 0.118 1 ==> 2

206 (Jugal contri) 1 0.250 0 ==> 1

208 (Jugal-lacrim) 1 0.167 0 ==> 1

211 (Vertical pos) 1 0.333 1 --> 0

221 (Orbital proc) 1 0.125 0 ==> 1

224 (Foramen for ) 1 0.100 1 --> 0

227 (Postorbital ) 1 0.071 1 ==> 2

240 (Temporal lin) 1 0.167 0 ==> 1

246 (Choanae) 1 0.091 1 ==> 0

247 (Vomer contac) 1 0.143 1 ==> 0

253 (Ectopterygoi) 1 0.200 1 ==> 0

254 (Ectopterygoi) 1 0.200 1 ==> 0

257 (Exit for max) 1 0.500 2 ==> 1

267 (Glenoid foss) 1 0.125 1 ==> 0

270 (Postglenoid ) 1 0.133 2 ==> 0

293 (Promontorium) 1 0.071 1 ==> 0

331 (Hypoglossal ) 1 0.222 1 ==> 2

334 (Paroccipital) 1 0.167 1 ==> 0

339 (Elongate oss) 1 0.125 1 ==> 0

342 (Hyoid pit on) 1 0.250 1 ==> 0

348 (Crista petro) 1 0.077 0 --> 1

350 (Internal aco) 1 0.125 1 ==> 0

366 (Number of lu) 1 0.167 0 --> 1

379 (Supratrochle) 1 0.111 1 --> 0

394 (Third trocha) 1 0.167 1 --> 0

node\_109 --> Pyrotherium 3 (Postcanine loc) 1 0.150 1 --> 2

8 (Upper incisors) 1 0.208 2 --> 3

9 (Lower incisors) 1 0.190 2 ==> 3

12 (Anteriormost ) 1 0.200 2 ==> 1

14 (Anteriormost ) 1 0.250 0 ==> 1

15 (Second anteri) 1 0.500 0 ==> 1

16 (Upper anterio) 1 0.250 0 ==> 1

21 (Lower anterio) 1 0.200 0 ==> 1

22 (Lower anterio) 1 0.231 0 ==> 1

23 (Lower anterio) 1 0.200 0 ==> 1

27 (Upper canine) 1 0.111 1 --> 2

33 (Premolars) 1 0.188 1 -->

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60 (Ult lower pre) 1 0.069 1 --> 0

64 (Length of ult) 1 0.143 0 --> 1

68 (Size (area) o) 1 0.087 1 --> 2

82 (Stylar cusp E) 1 0.222 1 --> 2

91 (Centrocrista) 1 0.143 0 ==> 2

110 (Upper molar ) 1 0.250 0 --> 1

111 (Last upper m) 1 0.333 2 --> 3

112 (Last upper m) 1 0.200 1 ==> 0

134 (Labial postc) 1 0.077 0 ==> 1

140 (Space betwee) 1 0.111 1 --> 0

144 (Coronoid cre) 1 0.118 1 ==> 2

159 (Mandibular s) 1 0.118 1 ==> 2

163 (Mandibular f) 1 0.150 1 --> 2

170 (Exit(s) of i) 1 0.400 1 ==> 0

196 (Anterior ext) 1 0.143 1 ==> 0

198 (Postpalatine) 1 0.071 1 --> 0

211 (Vertical pos) 1 0.333 1 --> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

219 (Maxilla in t) 1 0.111 0 --> 1

266 (Glenoid foss) 1 0.364 4 ==> 0

362 (Axis anterio) 1 0.286 0 ==> 1

363 (Cervical inf) 1 0.143 0 ==> 1

374 (Greater tube) 1 0.111 1 ==> 0

379 (Supratrochle) 1 0.111 1 --> 0

391 (Fovea for li) 1 0.182 0 --> 1

392 (Greater troc) 1 0.083 1 ==> 0

394 (Third trocha) 1 0.167 1 --> 0

403 (Astragalus, ) 1 0.214 2 ==> 1

404 (Astragalus, ) 1 0.500 2 ==> 1

405 (Radius of cu) 1 0.067 0 ==> 1

406 (Cotylar foss) 1 0.250 1 ==> 0

409 (Astragalar m) 1 0.091 1 ==> 0

410 (Astragalar n) 1 0.133 1 ==> 0

417 (Overlap betw) 1 0.250 1 ==> 2

419 (Calcaneal su) 1 0.333 0 ==> 1

node\_110 --> Colbertia 4 (Upper diastema) 1 0.125 2 ==> 3

12 (Anteriormost ) 1 0.200 2 ==> 0

17 (Enamel distri) 1 0.143 1 ==> 0

31 (Lower canine ) 1 0.143 0 ==> 1

59 (Penult lower ) 1 0.250 1 ==> 0

60 (Ult lower pre) 1 0.069 1 --> 0

65 (Ultimate lowe) 1 0.091 0 ==> 1

97 (Labial edges ) 1 0.087 1 ==> 0

102 (Protocone an) 1 0.091 1 ==> 0

104 (Protocone la) 1 0.111 1 --> 2

124 (Cristid obli) 1 0.190 1 ==> 2

158 (Mandibular s) 1 0.200 0 ==> 1

171 (Infraorbital) 1 0.111 1 ==> 0

173 (Nasal) 1 0.133 1 ==> 0

182 (Preorbital l) 1 0.083 1 ==> 0

198 (Postpalatine) 1 0.071 1 --> 0

238 (Frontal leng) 1 0.118 1 ==> 0

295 (Promontorium) 1 0.111 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 2

407 (Sustentacula) 1 0.083 1 ==> 0

425 (Proportions ) 1 0.095 1 ==> 0

426 (Deep groove ) 1 0.091 0 --> 1

node\_110 --> Plesiotypotheriu 3 (Postcanine loc) 2 0.150 1 ==> 3

5 (Lower diastema) 1 0.200 0 ==> 1

8 (Upper incisors) 2 0.208 2 ==> 4

9 (Lower incisors) 1 0.190 1 ==> 2

13 (Anteriormost ) 1 0.182 0 --> 2

16 (Upper anterio) 1 0.250 0 ==> 1

19 (Lower anterio) 1 0.182 0 ==> 1

21 (Lower anterio) 1 0.200 0 ==> 1

27 (Upper canine) 1 0.111 1 ==> 2

29 (Lower canine) 1 0.118 1 ==> 2

33 (Premolars) 2 0.188 1 ==> 3

60 (Ult lower pre) 1 0.069 1 --> 0

72 (Upper molar s) 1 0.095 1 --> 0

137 (Anteriormost) 1 0.120 0 ==>

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142 (Coronoid pro) 1 0.077 1 ==> 0

144 (Coronoid cre) 1 0.118 1 ==> 0

159 (Mandibular s) 1 0.118 1 ==> 2

171 (Infraorbital) 1 0.111 1 ==> 2

172 (Infraorbital) 1 0.167 0 ==> 1

177 (Naso-frontal) 1 0.083 1 --> 0

184 (Facial proce) 1 0.067 1 ==> 0

192 (Incisive for) 1 0.091 0 ==> 1

193 (Incisive for) 1 0.200 0 ==> 1

196 (Anterior ext) 1 0.143 1 ==> 0

198 (Postpalatine) 1 0.071 1 --> 0

203 (Posterior ed) 1 0.118 1 ==> 0

210 (Orientation ) 1 0.143 1 ==> 2

216 (Groove conne) 1 0.091 0 ==> 1

220 (Frontal and ) 1 0.091 0 --> 1

221 (Orbital proc) 1 0.125 0 ==> 1

227 (Postorbital ) 1 0.071 1 --> 0

232 (Optic forame) 1 0.167 0 ==> 1

236 (Frontal/alis) 1 0.167 0 --> 1

268 (Glenoid proc) 1 0.182 2 ==> 1

272 (Postglenoid ) 1 0.286 0 ==> 1

276 (Entoglenoid ) 1 0.133 0 ==> 1

357 (Atlantal for) 1 0.200 0 ==> 1

node\_110 --> Protypotherium 4 (Upper diastema) 1 0.125 2 ==> 3

6 (Dental eruptio) 1 0.200 0 ==> 1

11 (Upper incisor) 1 0.176 0 --> 1

13 (Anteriormost ) 1 0.182 0 --> 2

24 (Lower post. i) 1 0.067 0 --> 1

31 (Lower canine ) 1 0.143 0 ==> 1

62 (Ultimate lowe) 1 0.143 1 ==> 0

72 (Upper molar s) 1 0.095 1 --> 0

97 (Labial edges ) 1 0.087 1 ==> 2

119 (Paracristid) 1 0.111 0 --> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

172 (Infraorbital) 1 0.167 0 ==> 1

192 (Incisive for) 1 0.091 0 ==> 1

198 (Postpalatine) 1 0.071 1 --> 0

202 (Maxilla expa) 1 0.250 0 ==> 1

206 (Jugal contri) 1 0.250 0 ==> 1

208 (Jugal-lacrim) 1 0.167 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 2

214 (Palatine rea) 1 0.067 1 ==> 0

215 (Lacrimal con) 1 0.091 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

227 (Postorbital ) 1 0.071 1 --> 0

268 (Glenoid proc) 1 0.182 2 ==> 1

295 (Promontorium) 1 0.111 1 ==> 0

297 (Tympanic ape) 1 0.231 1 --> 2

348 (Crista petro) 1 0.077 0 --> 1

354 (Amastoidy) 1 0.333 0 ==> 1

357 (Atlantal for) 1 0.200 0 ==> 1

373 (Metacromion) 1 0.125 0 --> 1

375 (Deltopectora) 1 0.083 1 ==> 0

376 (Supinator ri) 1 0.071 1 ==> 0

392 (Greater troc) 1 0.083 1 ==> 2

397 (Patellar fac) 1 0.154 1 ==> 2

401 (Tibia and fi) 1 0.111 0 ==> 1

402 (Depth of tro) 1 0.333 0 ==> 1

405 (Radius of cu) 1 0.067 0 ==> 1

406 (Cotylar foss) 1 0.250 1 ==> 0

407 (Sustentacula) 1 0.083 1 ==> 0

412 (Facet on ast) 1 0.067 1 ==> 0

413 (Astragalar c) 1 0.118 0 --> 2

425 (Proportions ) 1 0.095 1 ==> 0

426 (Deep groove ) 1 0.091 0 --> 1

node\_110 --> Adinotherium 4 (Upper diastema) 1 0.125 2 ==>

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11 (Upper incisor) 1 0.176 0 ==> 2

13 (Anteriormost ) 1 0.182 0 --> 2

54 (p1-p2 diastem) 1 0.083 0 ==> 1

57 (Penult lower ) 1 0.083 0 ==> 1

72 (Upper molar s) 1 0.095 1 --> 0

115 (Paraconid) 1 0.125 1 ==> 0

117 (Paraconid on) 1 0.077 0 ==> 1

119 (Paracristid) 1 0.111 0 --> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

148 (Condyloid cr) 1 0.100 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 2

163 (Mandibular f) 1 0.150 1 --> 2

171 (Infraorbital) 1 0.111 1 ==> 2

177 (Naso-frontal) 1 0.083 1 --> 0

185 (Lacrimal tub) 1 0.083 0 ==> 1

193 (Incisive for) 1 0.200 0 ==> 1

196 (Anterior ext) 1 0.143 1 ==> 0

200 (Minor palati) 1 0.222 1 ==> 2

203 (Posterior ed) 1 0.118 1 ==> 0

214 (Palatine rea) 1 0.067 1 ==> 0

227 (Postorbital ) 1 0.071 1 --> 0

233 (Orbitospheno) 1 0.182 1 ==> 2

236 (Frontal/alis) 1 0.167 0 --> 1

274 (Postglenoid ) 1 0.250 0 ==> 1

282 (Basicochlear) 1 0.111 0 ==> 1

297 (Tympanic ape) 1 0.231 1 --> 2

302 (Tegmen tympa) 1 0.167 0 ==> 1

303 (tegmen tympa) 1 0.167 0 ==> 1

350 (Internal aco) 1 0.125 1 ==> 0

366 (Number of lu) 1 0.167 0 --> 1

368 (Sacral verte) 1 0.143 1 ==> 0

373 (Metacromion) 1 0.125 0 --> 1

377 (Medial epico) 1 0.111 0 ==> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

400 (Tibia and fi) 1 0.200 0 ==> 1

409 (Astragalar m) 1 0.091 1 ==> 0

413 (Astragalar c) 1 0.118 0 --> 2

426 (Deep groove ) 1 0.091 0 --> 1

node\_110 --> Notostylops 10 (Upper anterio) 1 0.111 0 ==> 1

11 (Upper incisor) 1 0.176 0 --> 1

12 (Anteriormost ) 1 0.200 2 ==> 1

14 (Anteriormost ) 1 0.250 0 ==> 1

15 (Second anteri) 1 0.500 0 ==> 1

19 (Lower anterio) 1 0.182 0 ==> 2

26 (Shape of inci) 1 0.200 1 ==> 2

46 (Ult upper pre) 1 0.167 1 ==> 3

60 (Ult lower pre) 1 0.069 1 --> 0

69 (Size (area) o) 1 0.118 2 ==> 1

94 (Preprotocrist) 1 0.167 1 ==> 0

104 (Protocone la) 1 0.111 1 --> 2

124 (Cristid obli) 1 0.190 1 ==> 2

146 (Anteroventra) 1 0.125 0 ==> 1

153 (Angular proc) 1 0.091 1 ==> 0

163 (Mandibular f) 1 0.150 1 --> 2

167 (Posterodorsa) 1 0.125 1 ==> 0

173 (Nasal) 1 0.133 1 ==> 0

177 (Naso-frontal) 1 0.083 1 --> 0

182 (Preorbital l) 1 0.083 1 ==> 0

185 (Lacrimal tub) 1 0.083 0 ==> 1

197 (Palatal expa) 1 0.118 0 ==> 1

199 (Posterior na) 1 0.083 0 ==> 1

219 (Maxilla in t) 1 0.111 0 ==> 1

226 (Supraorbital) 1 0.091 1 ==> 0

238 (Frontal leng) 1 0.118 1 ==> 0

239 (Frontopariet) 1 0.118 1 ==> 2

255 (Ectopterygoi) 1 0.250 1 ==> 0

274 (Postglenoid ) 1 0.250 0 ==> 1

290 (Stapedial ra) 1 0.167 1 ==> 0

329 (Jugular fora) 1 0.111 1 ==> 0

348 (Crista petro) 1 0.077 0 --> 1

node\_112 --> node\_111 5 (Lower diastema) 1 0.200 0 ==> 1

24 (Lower post. i) 1 0.067 0 --> 1

29 (Lower canine) 1 0.118 1 ==> 0

32 (Canines diver) 1 0.250 0 ==> 1

124 (Cristid obli) 1 0.190 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 2

163 (Mandibular f) 1 0.150 1 --> 2

241 (Nuchal crest) 1 0.100 0 --> 1

253 (Ectopterygoi) 1 0.200 1 ==> 0

271 (Postglenoid ) 1 0.143 1 ==> 0

node\_111 --> Trigonostylops 37 (P1 posterior ) 1 0.083 0 --> 1

40 (Penult upper ) 1 0.154 0 ==> 2

45 (Ult upper pre) 1 0.100 0 ==> 2

54 (p1-p2 diastem) 1 0.083 0 --> 1

63 (Ult lower pre) 1 0.105 1 --> 2

68 (Size (area) o) 1 0.087 1 --> 2

91 (Centrocrista) 1 0.143 0 ==> 1

95 (Postprotocris) 1 0.154 1 --> 0

96 (Postvallum sh) 1 0.182 1 --> 0

170 (Exit(s) of i) 1 0.400 1 --> 0

185 (Lacrimal tub) 1 0.083 0 --> 1

186 (Lacrimal for) 1 0.125 1 --> 0

199 (Posterior na) 1 0.083 0 ==> 1

216 (Groove conne) 1 0.091 0 ==> 1

220 (Frontal and ) 1 0.091 0 --> 1

221 (Orbital proc) 1 0.125 0 --> 1

234 (Suboptic for) 1 0.125 0 --> 1

236 (Frontal/alis) 1 0.167 0 --> 1

node\_111 --> Astrapotherium 3 (Postcanine loc) 2 0.150 1 ==> 3

8 (Upper incisors) 3 0.208 2 --> 5

13 (Anteriormost ) 1 0.182 0 --> 4

33 (Premolars) 2 0.188 1 ==> 3

62 (Ultimate lowe) 1 0.143 1 ==> 0

65 (Ultimate lowe) 1 0.091 0 ==> 1

72 (Upper molar s) 1 0.095 1 --> 0

97 (Labial edges ) 1 0.087 0 --> 1

114 (Presence of ) 1 0.333 0 --> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

165 (Premaxilla, ) 1 0.333 1 --> 0

171 (Infraorbital) 1 0.111 0 -->

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175 (Nasal overha) 1 0.125 0 --> 1

193 (Incisive for) 1 0.200 0 --> 1

198 (Postpalatine) 1 0.071 1 --> 0

282 (Basicochlear) 1 0.111 0 --> 1

290 (Stapedial ra) 1 0.167 1 --> 0

293 (Promontorium) 1 0.071 1 --> 0

348 (Crista petro) 1 0.077 0 --> 1

350 (Internal aco) 1 0.125 1 --> 0

354 (Amastoidy) 1 0.333 0 ==> 1

362 (Axis anterio) 1 0.286 0 --> 1

368 (Sacral verte) 1 0.143 1 --> 2

377 (Medial epico) 1 0.111 0 --> 1

378 (Entepicondyl) 1 0.100 0 --> 1

392 (Greater troc) 1 0.083 1 --> 0

394 (Third trocha) 1 0.167 1 --> 0

423 (Calcaneal fa) 1 0.091 0 --> 1

424 (Orientation ) 1 0.125 1 --> 2

node\_118 --> node\_115 2 (Teeth types) 1 0.500 0 ==> 1

4 (Upper diastema) 1 0.125 0 --> 3

8 (Upper incisors) 3 0.208 2 ==> 5

9 (Lower incisors) 3 0.190 1 ==> 4

27 (Upper canine) 1 0.111 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 0

142 (Coronoid pro) 1 0.077 0 ==> 1

144 (Coronoid cre) 1 0.118 1 ==> 0

148 (Condyloid cr) 1 0.100 0 ==> 1

156 (Condyle shap) 1 0.133 0 ==> 2

166 (Premaxilla, ) 1 0.222 1 ==> 0

167 (Posterodorsa) 1 0.125 0 ==> 1

173 (Nasal) 1 0.133 0 ==> 1

186 (Lacrimal for) 1 0.125 1 ==> 0

195 (Major palati) 1 0.500 0 ==> 1

198 (Postpalatine) 1 0.071 1 ==> 0

210 (Orientation ) 1 0.143 1 ==> 2

233 (Orbitospheno) 1 0.182 0 ==> 2

239 (Frontopariet) 1 0.118 1 ==> 0

240 (Temporal lin) 1 0.167 0 ==> 1

247 (Vomer contac) 1 0.143 0 ==> 1

251 (Entopterygoi) 1 0.143 1 ==> 2

253 (Ectopterygoi) 1 0.200 1 ==> 0

260 (Foramen oval) 1 0.182 2 ==> 1

261 (Alisphenoid ) 1 0.100 1 ==> 0

266 (Glenoid foss) 1 0.364 0 ==> 2

288 (Perbullar ca) 1 1.000 0 ==> 1

289 (Stapedial ar) 1 0.125 0 ==> 1

297 (Tympanic ape) 1 0.231 1 ==> 2

311 (Fossa incudi) 1 0.125 0 ==> 1

315 (Foramen for ) 1 0.143 0 ==> 2

317 (Ascending ca) 1 0.286 1 ==> 2

323 (Mastoid proc) 1 0.133 0 ==> 2

324 (Posterior bo) 1 0.250 1 ==> 0

326 ("Tympanic pr) 1 0.133 1 ==> 0

341 (Entotympanic) 1 0.200 0 ==> 1

353 (Mastoid fora) 1 0.125 1 ==> 0

366 (Number of lu) 1 0.167 0 ==> 1

367 (Xenarthrous ) 1 1.000 0 ==> 1

368 (Sacral verte) 1 0.143 1 --> 2

369 (Sacral verte) 1 1.000 0 ==> 1

388 (Pubic symphy) 1 0.333 0 ==> 1

397 (Patellar fac) 1 0.154 1 ==> 2

405 (Radius of cu) 1 0.067 1 ==> 0

413 (Astragalar c) 1 0.118 0 ==> 2

node\_115 --> node\_113 145 (Portion of t) 1 0.200 0 --> 1

153 (Angular proc) 1 0.091 0 ==> 1

155 (Condylar pro) 1 0.143 1 ==> 0

163 (Mandibular f) 1 0.150 1 --> 2

177 (Naso-frontal) 1 0.083 1 ==> 0

178 (Nasofrontal ) 1 0.143 0 --> 1

184 (Facial proce) 1 0.067 1 ==> 0

193 (Incisive for) 1 0.200 0 ==> 1

197 (Palatal expa) 1 0.118 1 --> 0

217 (Sphenopalati) 1 0.222 0 ==> 1

238 (Frontal leng) 1 0.118 1 --> 2

256 (Transverse c) 1 0.500 0 ==> 1

267 (Glenoid foss) 1 0.125 0 ==> 1

275 (Suprameatal ) 1 0.111 0 ==> 1

285 (Course of in) 1 0.143 0 --> 1

332 (Hypoglossal ) 1 0.125 0 --> 1

349 (Subarcuate f) 1 0.105 1 --> 2

352 (Posttemporal) 1 0.250 0 ==> 1

363 (Cervical inf) 1 0.143 0 --> 1

376 (Supinator ri) 1 0.071 0 --> 1

391 (Fovea for li) 1 0.182 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

393 (Size of less) 1 0.100 1 ==> 0

400 (Tibia and fi) 1 0.200 0 ==> 1

401 (Tibia and fi) 1 0.111 0 ==> 1

408 (Astragalar s) 1 0.143 1 ==> 0

node\_113 --> Chaetophractus 138 (Posteriormos) 2 0.111 2 ==> 0

140 (Space betwee) 1 0.111 1 --> 0

143 (Angle betwee) 1 0.133 0 ==> 1

156 (Condyle shap) 1 0.133 2 ==> 1

179 (Nasal forami) 1 0.200 1 ==> 0

220 (Frontal and ) 1 0.091 0 ==> 1

221 (Orbital proc) 1 0.125 0 --> 1

225 (Position of ) 1 0.333 1 --> 0

236 (Frontal/alis) 1 0.167 0 ==> 1

266 (Glenoid foss) 1 0.364 2 ==> 3

272 (Postglenoid ) 1 0.286 0 ==> 1

274 (Postglenoid ) 1 0.250 0 ==> 1

276 (Entoglenoid ) 1 0.133 1 ==> 2

283 (Medial flang) 1 0.125 0 ==> 1

296 (Facial nerve) 1 0.500 0 ==> 1

301 (Bony shelf l) 1 0.095 1 --> 0

308 (Hypotympanic) 1 0.214 0 --> 1

309 (Epitympanic ) 1 0.250 1 ==> 2

310 (Epitympanic ) 1 0.250 1 --> 2

320 (Stapedial fo) 1 0.333 0 ==> 1

329 (Jugular fora) 1 0.111 1 ==> 0

330 (Jugular fora) 1 0.111 0 ==> 1

339 (Elongate oss) 1 0.125 0 ==> 1

385 (Radius artic) 1 0.111 0 ==> 1

424 (Orientation ) 1 0.125 1 --> 0

node\_113 --> Dasypus 6 (Dental eruptio) 1 0.200 0 --> 1

138 (Posteriormos) 1 0.111 2 ==> 3

152 (Angular proc) 1 0.200 2 ==> 1

154 (Anteroposter) 1 0.077 0 ==> 1

172 (Infraorbital) 1 0.167 0 ==> 1

185 (Lacrimal tub) 1 0.083 0 --> 1

214 (Palatine rea) 1 0.067 1 ==> 0

218 (Sphenopalati) 1 0.143 0 ==> 1

222 (Ethmoid expo) 1 0.500 0 ==> 1

227 (Postorbital ) 1 0.071 1 --> 2

279 (Cavum epipte) 1 0.200 1 ==> 3

282 (Basicochlear) 1 0.111 0 ==> 1

301 (Bony shelf l) 1 0.095 1 ==> 2

306 (Location of ) 1 0.500 0 ==> 1

336 (Ectotympanic) 1 0.200 2 ==> 0

338 (Anterior cru) 1 0.250 0 --> 1

364 (C7 (or last)) 1 0.333 1 ==> 0

365 (Thoracic ver) 1 0.167 1 ==> 0

390 (Articular su) 1 0.083 0 --> 1

403 (Astragalus, ) 1 0.214 2 ==> 1

node\_115 --> node\_114 185 (Lacrimal tub) 1 0.083 0 --> 1

209 (Zygomatic ar) 2 0.125 0 ==> 2

227 (Postorbital ) 1 0.071 1 --> 2

235 (Orbitotempor) 1 0.125 0 ==> 1

237 (Sphenorbital) 1 0.091 1 ==> 0

245 (Foramina for) 1 0.333 1 ==> 2

246 (Choanae) 1 0.091 1 ==> 0

265 (Glenoid foss) 1 0.143 0 ==> 1

270 (Postglenoid ) 1 0.133 2 ==> 0

271 (Postglenoid ) 1 0.143 1 ==> 0

328 (Inferior pet) 1 0.300 1 ==> 2

371 (Suprascapula) 1 0.200 1 ==> 0

374 (Greater tube) 1 0.111 1 ==> 0

390 (Articular su) 1 0.083 0 --> 1

392 (Greater troc) 1 0.083 1 ==> 0

394 (Third trocha) 1 0.167 1 ==> 0

411 (Astragalar h) 1 0.200 1 ==> 0

417 (Overlap betw) 1 0.250 1 ==> 0

421 (Calcaneal pl) 1 0.143 1 ==> 0

423 (Calcaneal fa) 1 0.091 0 ==> 1

424 (Orientation ) 1 0.125 1 --> 0

425 (Proportions ) 1 0.095 1 ==> 0

node\_114 --> Bradypus 3 (Postcanine loc) 2 0.150 1 --> 3

29 (Lower canine) 1 0.118 1 --> 2

138 (Posteriormos) 1 0.111 2 ==> 3

139 (Depth of man) 1 0.100 0 ==> 1

140 (Space betwee) 1 0.111 1 --> 0

143 (Angle betwee) 1 0.133 0 ==> 1

146 (Anteroventra) 1 0.125 0 --> 1

152 (Angular proc) 1 0.200 2 ==> 0

157 (Condyle posi) 1 0.087 2 --> 1

158 (Mandibular s) 1 0.200 0 ==> 1

160 (Mandibular s) 1 0.143 0 ==> 1

163 (Mandibular f) 1 0.150 1 --> 2

165 (Premaxilla, ) 1 0.333 1 ==> 0

170 (Exit(s) of i) 1 0.400 1 ==> 2

175 (Nasal overha) 1 0.125 0 ==> 1

182 (Preorbital l) 1 0.083 1 ==> 0

191 (Premaxilla, ) 1 0.143 1 --> 0

219 (Maxilla in t) 1 0.111 0 ==> 1

220 (Frontal and ) 1 0.091 0 ==> 1

276 (Entoglenoid ) 1 0.133 1 ==> 0

285 (Course of in) 1 0.143 0 --> 1

290 (Stapedial ra) 1 0.167 1 ==> 0

301 (Bony shelf l) 1 0.095 1 --> 0

307 (Medial proce) 1 0.250 0 --> 1

308 (Hypotympanic) 1 0.214 0 --> 1

310 (Epitympanic ) 1 0.250 1 --> 2

312 (Squamosal ep) 1 0.143 0 ==> 1

329 (Jugular fora) 1 0.111 1 ==> 0

342 (Hyoid pit on) 1 0.250 0 ==> 1

347 (Wall separat) 1 0.250 2 ==> 1

349 (Subarcuate f) 1 0.105 1 --> 2

363 (Cervical inf) 1 0.143 0 --> 1

364 (C7 (or last)) 1 0.333 1 ==> 0

372 (Acromion) 1 0.250 0 ==> 1

378 (Entepicondyl) 1 0.100 0 ==> 1

391 (Fovea for li) 1 0.182 0 ==> 2

403 (Astragalus, ) 1 0.214 2 ==> 3

415 (Calcaneal wi) 1 0.111 0 ==> 1

416 (Ectal (post ) 1 0.154 2 ==> 1

422 (Tuber calcis) 1 0.125 1 ==> 0

node\_114 --> Tamandua 1 (Teeth) 1 1.000 0 ==> 1

136 (Number of me) 1 0.250 0 ==> 1

138 (Posteriormos) 2 0.111 2 ==> 0

154 (Anteroposter) 1 0.077 0 ==> 1

178 (Nasofrontal ) 1 0.143 0 --> 1

192 (Incisive for) 1 0.091 0 --> 1

197 (Palatal expa) 1 0.118 1 --> 0

206 (Jugal contri) 1 0.250 0 ==> 1

214 (Palatine rea) 1 0.067 1 ==> 0

215 (Lacrimal con) 1 0.091 1 ==> 0

223 (Ethmoid fora) 1 0.111 1 ==> 0

238 (Frontal leng) 1 0.118 1 --> 2

250 (Midline cres) 1 0.100 0 ==> 1

332 (Hypoglossal ) 1 0.125 0 --> 1

349 (Subarcuate f) 1 0.105 1 ==> 0

376 (Supinator ri) 1 0.071 0 --> 1

385 (Radius artic) 1 0.111 0 ==> 1

407 (Sustentacula) 1 0.083 0 ==> 1

node\_118 --> node\_117 46 (Ult upper pre) 1 0.167 2 ==> 1

59 (Penult lower ) 1 0.250 0 ==> 1

63 (Ult lower pre) 1 0.105 0 ==> 1

71 (Molar cusp fo) 1 0.125 0 ==> 1

82 (Stylar cusp E) 1 0.222 2 ==> 1

83 ((Pre)paracing) 1 0.167 2 ==> 1

92 (Postmetacrist) 1 0.125 2 ==> 0

94 (Preprotocrist) 1 0.167 1 ==> 0

96 (Postvallum sh) 1 0.182 1 ==> 0

98 (Paraconule) 1 0.105 1 ==> 2

102 (Protocone an) 1 0.091 1 ==> 0

108 (Hypocone on ) 1 0.125 0 ==> 1

119 (Paracristid) 1 0.111 0 ==> 1

120 (Trigonid con) 1 0.105 2 ==> 1

134 (Labial postc) 1 0.077 0 ==> 1

160 (Mandibular s) 1 0.143 0 ==> 1

213 (Molar roots ) 1 0.083 0 --> 1

290 (Stapedial ra) 1 0.167 1 ==> 0

293 (Promontorium) 1 0.071 1 --> 0

311 (Fossa incudi) 1 0.125 0 ==> 1

326 ("Tympanic pr) 1 0.133 1 ==> 0

348 (Crista petro) 1 0.077 0 --> 1

349 (Subarcuate f) 1 0.105 1 ==> 2

402 (Depth of tro) 1 0.333 0 ==> 1

413 (Astragalar c) 1 0.118 0 ==> 1

node\_117 --> Miguelsoria 62 (Ultimate lowe) 1 0.143 1 ==> 0

67 (Size (area) o) 1 0.154 1 ==> 2

70 (Size (area) o) 1 0.105 1 --> 2

75 (Upper first m) 1 0.200 0 ==> 1

85 (Metacone size) 1 0.133 1 ==> 0

86 (Metacone posi) 1 0.143 1 ==> 2

138 (Posteriormos) 1 0.111 2 --> 3

163 (Mandibular f) 1 0.150 1 --> 2

284 (RTPP) 1 0.286 0 --> 1

301 (Bony shelf l) 1 0.095 1 --> 0

309 (Epitympanic ) 1 0.250 1 --> 2

402 (Depth of tro) 1 0.333 1 ==> 2

407 (Sustentacula) 1 0.083 0 --> 1

410 (Astragalar n) 1 0.133 1 --> 2

426 (Deep groove ) 1 0.091 0 ==> 1

node\_117 --> node\_116 13 (Anteriormost ) 1 0.182 0 --> 2

27 (Upper canine) 1 0.111 0 --> 1

36 (P1 roots) 1 0.154 0 --> 1

41 (Penult upper ) 1 0.100 0 --> 1

45 (Ult upper pre) 1 0.100 0 ==> 2

49 (Ult upper pre) 1 0.200 0 ==> 1

64 (Length of ult) 1 0.143 0 ==> 1

80 (Stylar cusp C) 1 0.091 0 ==> 1

91 (Centrocrista) 1 0.143 0 ==> 1

97 (Labial edges ) 2 0.087 0 ==> 2

125 (Trigonid hei) 1 0.100 1 ==> 2

128 (Hypoconulid) 1 0.125 1 ==> 2

130 (Entoconid) 1 0.111 2 ==> 1

133 (Hypolophid) 1 0.500 0 ==> 1

142 (Coronoid pro) 1 0.077 0 --> 1

144 (Coronoid cre) 1 0.118 1 --> 0

192 (Incisive for) 1 0.091 0 --> 1

226 (Supraorbital) 1 0.091 0 --> 1

227 (Postorbital ) 1 0.071 1 --> 0

229 (Postorbital ) 1 0.333 0 --> 1

230 (Dorsal proce) 1 0.167 0 --> 1

246 (Choanae) 1 0.091 1 --> 0

253 (Ectopterygoi) 1 0.200 1 --> 0

261 (Alisphenoid ) 1 0.100 1 --> 0

282 (Basicochlear) 1 0.111 0 --> 1

295 (Promontorium) 1 0.111 0 --> 1

332 (Hypoglossal ) 1 0.125 0 --> 1

334 (Paroccipital) 1 0.167 0 --> 1

373 (Metacromion) 1 0.125 0 --> 1

377 (Medial epico) 1 0.111 0 --> 1

378 (Entepicondyl) 1 0.100 0 --> 1

396 (Distal femur) 1 0.125 0 --> 1

421 (Calcaneal pl) 1 0.143 1 --> 2

424 (Orientation ) 1 0.125 1 ==> 2

node\_116 --> Proterotherium 4 (Upper diastema) 1 0.125 0 --> 2

9 (Lower incisors) 1 0.190 1 ==> 2

12 (Anteriormost ) 1 0.200 0 --> 1

16 (Upper anterio) 1 0.250 0 ==> 1

17 (Enamel distri) 1 0.143 0 ==> 1

19 (Lower anterio) 1 0.182 0 ==> 2

20 (Lower anterio) 1 0.077 0 ==> 1

24 (Lower post. i) 1 0.067 0 ==> 1

27 (Upper canine) 1 0.111 1 ==> 2

39 (Penult upper ) 1 0.125 1 --> 2

40 (Penult upper ) 1 0.154 0 ==> 2

58 (Penult lower ) 1 0.167 0 --> 2

65 (Ultimate lowe) 1 0.091 0 ==> 1

95 (Postprotocris) 1 0.154 1 --> 2

110 (Upper molar ) 1 0.250 0 --> 1

111 (Last upper m) 1 0.333 2 --> 3

137 (Anteriormost) 1 0.120 1 ==> 0

143 (Angle betwee) 1 0.133 0 ==> 1

166 (Premaxilla, ) 1 0.222 1 --> 0

167 (Posterodorsa) 1 0.125 0 --> 1

179 (Nasal forami) 1 0.200 1 --> 0

184 (Facial proce) 1 0.067 1 --> 0

196 (Anterior ext) 1 0.143 1 --> 2

214 (Palatine rea) 1 0.067 1 --> 0

241 (Nuchal crest) 1 0.100 0 --> 1

284 (RTPP) 1 0.286 0 --> 1

301 (Bony shelf l) 1 0.095 1 --> 0

309 (Epitympanic ) 1 0.250 1 --> 2

379 (Supratrochle) 1 0.111 0 ==> 1

392 (Greater troc) 1 0.083 1 ==> 2

407 (Sustentacula) 1 0.083 0 --> 1

410 (Astragalar n) 1 0.133 1 --> 2

413 (Astragalar c) 1 0.118 1 ==> 2

425 (Proportions ) 1 0.095 1 ==> 0

node\_116 --> Macrauchenia 4 (Upper diastema) 1 0.125 0 --> 3

7 (Incisor shape) 1 0.333 0 ==> 1

12 (Anteriormost ) 1 0.200 0 --> 2

53 (First lower p) 1 0.125 1 ==> 0

58 (Penult lower ) 1 0.167 0 --> 1

71 (Molar cusp fo) 1 0.125 1 ==> 2

72 (Upper molar s) 1 0.095 1 ==> 0

74 (Metastylar an) 1 0.158 0 ==> 1

116 (Paraconid he) 1 0.250 0 ==> 1

117 (Paraconid on) 1 0.077 0 ==> 1

137 (Anteriormost) 1 0.120 1 ==> 2

138 (Posteriormos) 1 0.111 2 --> 3

153 (Angular proc) 1 0.091 0 --> 1

155 (Condylar pro) 1 0.143 1 ==> 0

156 (Condyle shap) 1 0.133 0 ==> 2

158 (Mandibular s) 1 0.200 0 ==> 1

159 (Mandibular s) 1 0.118 1 ==> 0

171 (Infraorbital) 2 0.111 0 ==> 2

175 (Nasal overha) 1 0.125 0 ==> 1

202 (Maxilla expa) 1 0.250 0 ==> 1

209 (Zygomatic ar) 1 0.125 0 ==> 1

240 (Temporal lin) 1 0.167 0 ==> 1

250 (Midline cres) 1 0.100 0 ==> 1

267 (Glenoid foss) 1 0.125 0 ==> 1

350 (Internal aco) 1 0.125 1 ==> 0

384 (Radius and u) 1 1.000 0 ==> 1

385 (Radius artic) 1 0.111 0 --> 1

388 (Pubic symphy) 1 0.333 0 --> 1

391 (Fovea for li) 1 0.182 0 ==> 1

400 (Tibia and fi) 1 0.200 0 ==> 1

401 (Tibia and fi) 1 0.111 0 ==> 1

408 (Astragalar s) 1 0.143 1 ==> 0

420 (Calcaneal an) 1 0.273 1 --> 2

node\_122 --> Cimolestes 13 (Anteriormost ) 1 0.182 0 ==> 2

20 (Lower anterio) 1 0.077 0 --> 1

24 (Lower post. i) 1 0.067 0 --> 1

43 (Penult upper ) 1 0.300 1 --> 2

44 (Ult upper pre) 1 0.182 1 ==> 2

53 (First lower p) 1 0.125 0 ==> 1

60 (Ult lower pre) 1 0.069 0 --> 1

68 (Size (area) o) 1 0.087 0 ==> 1

98 (Paraconule) 1 0.105 1 --> 2

103 (Procumbent p) 1 0.125 0 --> 1

154 (Anteroposter) 1 0.077 1 ==> 0

184 (Facial proce) 1 0.067 0 --> 1

187 (Lacrimal for) 1 0.167 0 --> 1

196 (Anterior ext) 1 0.143 1 ==> 2

203 (Posterior ed) 1 0.118 0 ==> 1

210 (Orientation ) 1 0.143 1 ==> 0