

Supporting Information File S2

2.1. Edited log file taken from PAUP*, with results from phylogenetic analysis.

2.1.1. CORE ANALYSIS

P A U P *
Version 4.0b10 for 32-bit Microsoft Windows

-----NOTICE-----
This is a beta-test version. Please report any crashes,
apparent calculation errors, or other anomalous results.
There are no restrictions on publication of results obtained
with this version, but you should check the WWW site
frequently for bug announcements and/or updated versions.
See the README file on the distribution media for details.

Heuristic search settings:

Optimality criterion = parsimony
Character-status summary:
Of 486 total characters:
24 characters are of type 'ord' (Wagner)
462 characters are of type 'unord'
All characters have equal weight
15 characters are parsimony-uninformative
Number of parsimony-informative characters = 471
Gaps are treated as "missing"
Multistate taxa interpretation depends on "{" versus "(" designation
Starting tree(s) obtained via stepwise addition
Addition sequence: random
Number of replicates = 1000
Starting seed = 1109661605
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
Branches collapsed (creating polytomies) if minimum branch length is zero ("amb-")
'MulTrees' option in effect
Topological constraints not enforced
Trees are unrooted

Heuristic search completed

Total number of rearrangements tried = 650115002
Score of best tree(s) found = 2186
Number of trees retained = 2
Time used = 00:07:08.6

Tree-island profile:

Island	Size	First tree	Last tree	Score	First replicate	Times hit
1	2	1	2	2186	1	995
2	1	-	-	2188	163	5*

Note(s):

* Multiple hits on islands of unsaved trees may in fact represent different islands

Tree description:

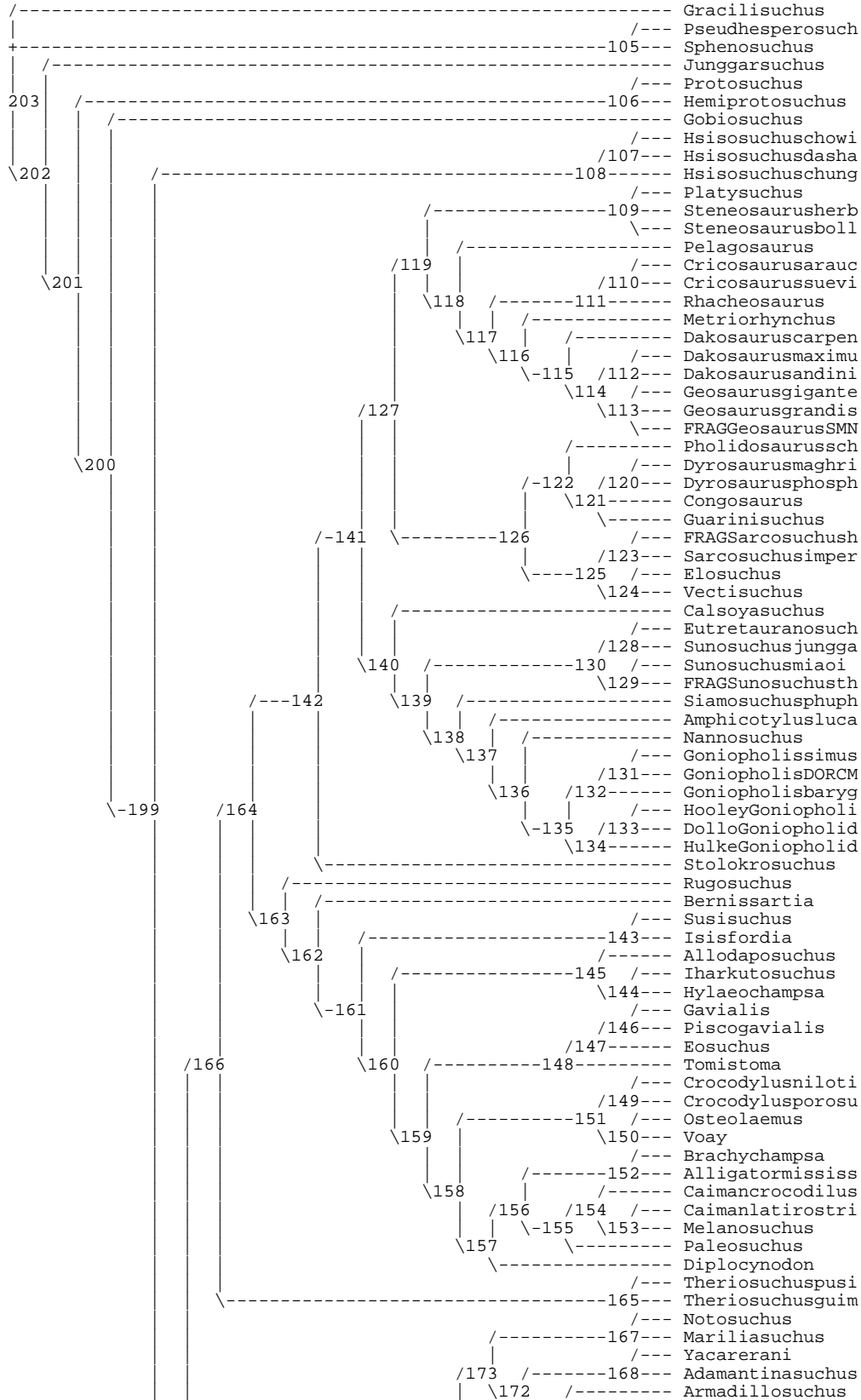
Unrooted tree(s) rooted using outgroup method
Optimality criterion = parsimony
Character-status summary:
Of 486 total characters:
24 characters are of type 'ord' (Wagner)
462 characters are of type 'unord'
All characters have equal weight
15 characters are parsimony-uninformative
Number of parsimony-informative characters = 471
Gaps are treated as "missing"
Multistate taxa interpretation depends on "{" versus "(" designation
("min" values for CI, RI, and RC are minimum-possible character lengths)

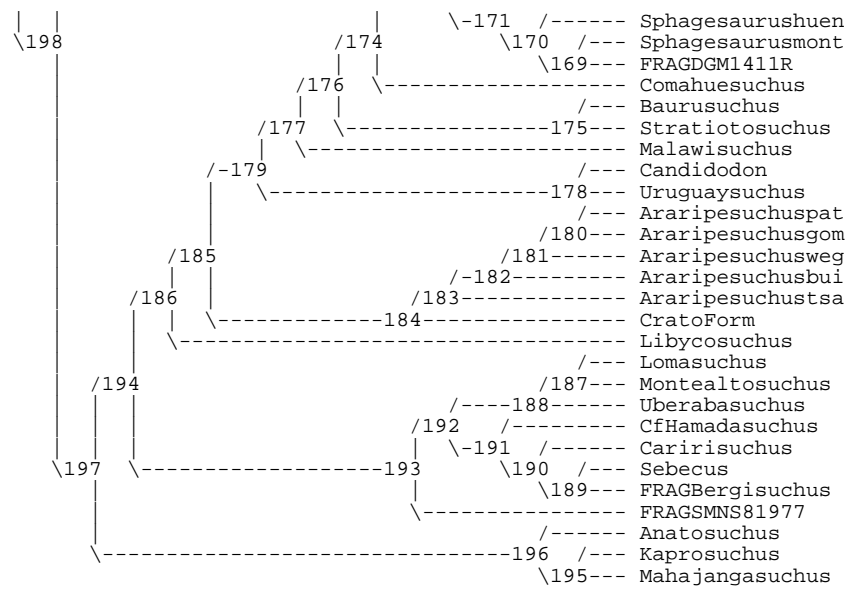
Character-state optimization: Minimum F-value (MINF)

Tree number 1 (rooted using default outgroup)

Tree length = 2186

Consistency index (CI) = 0.2955
 Homoplasy index (HI) = 0.7045
 CI excluding uninformative characters = 0.2903
 HI excluding uninformative characters = 0.7097
 Retention index (RI) = 0.7626
 Rescaled consistency index (RC) = 0.2254





Character change lists:

Character	CI	Steps	Changes
1 (Skull height, in po) 0.111	0.111	1	node_203 0 ==> 1 Gracilisuchus
		1	node_201 0 ==> 1 node_200
		1	node_111 1 ==> 0 node_110
		1	node_115 1 --> 0 node_114
		1	node_197 1 ==> 0 node_194
		1	node_173 0 ==> 1 node_167
		1	node_168 0 ==> 1 Yacarerani
		1	node_183 0 ==> 1 node_182
		1	node_195 1 ==> 0 Kaprosuchus
		1	node_203 0 ==> 4 node_105
		1	node_198 0 ==> 2 node_166
2 (Skull geometry, rel) 0.455	0.455	1	node_119 2 --> 0 node_109
		1	node_118 2 --> 3 node_117
		1	node_127 2 --> 0 node_126
		1	node_122 0 --> 3 node_121
		1	node_123 0 --> 2 Sarcosuchusimper
		1	node_163 2 --> 1 node_162
		1	node_177 0 ==> 4 node_176
		1	node_188 0 ==> 4 Uberabasuchus
3 (Skull geometry, rel) 0.250	0.250	1	node_192 0 ==> 5 node_191
		1	node_164 0 ==> 1 node_142
		1	node_119 1 ==> 0 node_109
4 (Skull geometry, rel) 0.250	0.250	1	node_122 1 ==> 0 Pholidosaurussch
		1	node_125 1 ==> 0 node_124
		1	node_198 0 ==> 1 node_166
5 (Rostrum, length rel) 0.125	0.125	1	node_141 1 ==> 0 node_127
		1	node_118 0 ==> 1 Pelagosaurus
		1	node_123 0 --> 1 Sarcosuchusimper
		1	node_201 1 --> 0 node_106
		1	node_200 1 --> 0 Gobiosuchus
		1	node_164 1 --> 3 node_142
		1	node_141 3 --> 2 node_127
		1	node_117 2 ==> 1 node_116
		1	node_122 2 ==> 3 Pholidosaurussch
		1	node_121 2 ==> 1 Guarinisuchus
		1	node_140 3 --> 1 node_139
		1	node_128 1 --> 2 Sunosuchusjungga
		1	node_131 1 ==> 2 GoniopholisDORCM
		1	node_134 1 ==> 3 HulkeGoniopholid
		1	node_164 1 --> 2 node_163
		1	node_162 2 --> 0 Bernissartia
1	node_161 2 --> 1 node_160		
1	node_144 1 --> 0 Iharkutosuchus		
1	node_159 1 --> 3 node_148		
1	node_149 1 --> 2 Crocodylusniloti		
1	node_149 1 --> 3 Crocodylusporosu		
1	node_166 1 --> 0 node_165		
1	node_179 1 ==> 0 node_177		
1	node_176 0 ==> 2 node_175		
1	node_191 1 --> 2 CfHamadasuchus		
1	node_190 1 --> 2 Caririsuchus		
1	node_195 1 --> 3 Kaprosuchus		

6 (ORD Rostrum, relati) 0.182	1	node_202 2 ==> 1 node_201
	1	node_199 1 --> 0 node_198
	1	node_127 0 --> 1 node_119
	1	node_115 1 ==> 2 node_114
	1	node_122 0 --> 1 node_121
	1	node_125 0 --> 1 node_124
	1	node_147 0 ==> 1 node_146
	1	node_197 0 --> 1 node_194
	1	node_176 1 ==> 2 node_175
	1	node_191 1 --> 2 CfHamadasuchus
	1	node_190 1 --> 2 node_189
7 (ORD Rostrum, relati) 0.133	1	node_203 0 ==> 1 Gracilisuchus
	1	node_200 0 --> 1 node_199
	1	node_108 1 --> 0 Hsisosuchuschung
	1	node_111 1 ==> 0 Rhacheosaurus
	1	node_115 1 --> 0 node_114
	1	node_122 1 ==> 0 Pholidosaurus
	1	node_124 1 ==> 0 Vectisuchus
	1	node_129 1 --> 0 Sunosuchusmiaoi
	1	node_163 1 ==> 0 Rugosuchus
	1	node_143 1 ==> 2 Susisuchus
	1	node_146 1 ==> 0 Gavialis
	1	node_174 1 ==> 0 node_173
	1	node_171 0 ==> 1 node_170
	1	node_179 1 ==> 2 node_178
	1	node_197 1 ==> 2 node_196
8 (Rostrum, relation w) 0.182	1	node_203 1 ==> 0 Gracilisuchus
	1	node_141 1 ==> 2 node_127
	1	node_111 2 --> 0 node_110
	1	node_117 2 --> 0 node_116
	1	node_121 2 ==> 1 Guarinisuchus
	1	node_147 1 --> 2 node_146
	1	node_148 1 --> 2 Tomistoma
	1	node_157 1 ==> 2 node_156
	1	node_176 1 ==> 0 node_175
	1	node_183 1 ==> 2 Araripesuchustsa
	1	node_188 1 ==> 0 node_187
9 (Rostrum, dorsal pro) 0.250	1	node_173 0 ==> 1 node_172
	1	node_169 1 ==> 0 FRAGDGM1411R
	1	node_179 0 ==> 1 node_178
	1	node_190 0 ==> 1 node_189
10 (Ornamentation, bon) 1.000	1	node_177 0 --> 1 node_176
11 (Ornamentation, bon) 0.250	1	node_203 0 --> 1 node_202
	1	node_118 1 ==> 0 node_117
	1	node_177 1 --> 0 node_176
	1	node_169 0 ==> 1 FRAGDGM1411R
12 (Ornamentation, pro) 0.333	1	node_127 1 ==> 0 node_119
	1	node_140 1 ==> 0 node_139
	1	node_197 1 ==> 2 node_194
	1	node_169 2 --> 0 FRAGDGM1411R
	1	node_188 2 ==> 0 node_187
	1	node_191 2 ==> 0 CfHamadasuchus
13 (Ornamentation, pre) 0.500	1	node_201 0 --> 1 node_106
	1	node_127 0 ==> 1 node_119
14 (Ornamentation, pre) 1.000	1	node_118 1 --> 0 Pelagosaurus
15 (Ornamentation, dis) 0.333	1	node_127 1 ==> 0 node_119
	1	node_148 1 ==> 0 node_147
	1	node_180 1 ==> 0 Araripesuchuspat
16 (Ornamentation, pre) 0.200	1	node_106 1 --> 0 Hemiprotosuchus
	1	node_147 1 --> 0 node_146
	1	node_148 1 --> 0 Tomistoma
	1	node_185 1 ==> 0 node_184
	1	node_197 1 ==> 0 node_196
17 (Ornamentation (man) 0.167	1	node_109 1 --> 0 Steneosaurusherb
	1	node_120 1 --> 0 Dyrosaurusmaghri
	1	node_143 1 --> 0 Susisuchus
	1	node_159 1 --> 0 node_148
	1	node_185 1 --> 0 node_184
	1	node_196 1 ==> 0 node_195
18 (Ornamentation (man) 0.200	1	node_109 1 --> 0 Steneosaurusherb
	1	node_120 1 --> 0 Dyrosaurusmaghri
	1	node_143 1 --> 0 Susisuchus
	1	node_184 1 ==> 0 CratoForm
	1	node_195 1 ==> 0 Kaprosuchus
19 (Ornamentation (der) 1.000	1	node_179 1 ==> 0 node_177
20 (Sculpturing, prese) 0.333	1	node_106 0 --> 1 Protosuchus
	1	node_170 0 ==> 1 node_169
	1	node_176 0 ==> 1 node_175
21 (Sculpturing, prese) 1.000	1	node_201 0 ==> 1 node_106
22 (Neurovascular fora) 1.000	1	node_198 0 ==> 1 node_166
23 (Neurovascular fora) 0.333	1	node_122 1 --> 0 node_121
	1	node_160 1 --> 0 node_159
	1	node_192 1 ==> 0 node_191
24 (Neurovascular fora) 0.250	1	node_122 1 --> 0 node_121

		1	node_160	1 ==>	0	node_159
		1	node_182	1 -->	0	node_181
		1	node_193	1 -->	0	node_192
25 (Neurovascular fora)	1.000	1	node_182	0 -->	1	node_181
26 (Neurovascular fora)	0.500	1	node_112	0 ==>	1	Dakosaurusandini
		1	node_141	0 ==>	1	node_140
27 (Neurovascular fora)	1.000	1	node_159	0 -->	1	node_158
28 (Foramen at premaxi)	0.100	1	node_106	0 ==>	1	Protosuchus
		1	node_142	0 ==>	1	Stolokrosuchus
		1	node_185	0 -->	1	node_179
		1	node_169	1 ==>	0	FRAGDGM1411R
		1	node_175	1 ==>	0	Stratiotosuchus
		1	node_182	0 -->	1	node_181
		1	node_184	0 -->	1	CratoForm
		1	node_187	0 -->	1	Montealtosuchus
		1	node_196	0 -->	1	Anatosuchus
		1	node_195	0 -->	1	Mahajangasuchus
29 (Perinarial crests,)	0.333	1	node_139	0 ==>	1	node_138
		1	node_136	1 ==>	0	Nannosuchus
		1	node_195	0 -->	1	Kaprosuchus
30 (Lachrymal crest an)	0.500	1	node_111	0 ==>	1	node_110
		1	node_114	0 ==>	1	node_113
31 (ORD Naris, orienta)	0.222	1	node_203	0 ==>	1	node_105
		1	node_198	0 ==>	1	node_166
		1	node_126	1 -->	2	node_122
		1	node_124	1 -->	2	Elosuchus
		1	node_140	1 ==>	2	node_139
		1	node_163	1 -->	2	node_162
		1	node_191	0 ==>	1	node_190
		1	node_196	0 ==>	1	node_195
		1	node_195	1 -->	2	Kaprosuchus
32 (Naris, shape of na)	0.571	1	node_118	0 ==>	3	node_117
		1	node_132	0 -->	1	node_131
		1	node_161	0 ==>	2	node_143
		1	node_159	0 ==>	2	node_148
		1	node_151	0 ==>	2	node_149
		1	node_152	0 ==>	2	Brachychampsa
		1	node_195	0 -->	4	Kaprosuchus
33 (Naris, distance fr)	0.333	1	node_117	0 ==>	1	node_111
		1	node_160	0 ==>	1	node_159
		1	node_152	1 ==>	0	Brachychampsa
34 (Naris, presence of)	0.500	1	node_137	0 -->	1	node_136
		1	node_195	0 -->	1	Kaprosuchus
35 (Naris, presence of)	0.333	1	node_142	0 ==>	1	Stolokrosuchus
		1	node_185	0 -->	1	node_179
		1	node_186	0 -->	1	Libycosuchus
36 (Naris, composition)	0.333	1	node_166	0 -->	1	node_164
		1	node_163	1 -->	0	Rugosuchus
		1	node_192	0 ==>	1	node_191
37 (Naris, presence an)	0.375	1	node_142	2 ==>	0	node_141
		1	node_117	0 ==>	3	node_111
		1	node_163	2 ==>	0	node_162
		1	node_150	0 ==>	1	Osteolaemus
		1	node_152	0 ==>	1	Alligatormississ
		1	node_176	2 ==>	0	node_174
		1	node_179	2 ==>	0	node_178
		1	node_195	2 -->	1	Kaprosuchus
38 (Naris, projection)	0.250	1	node_197	0 -->	1	node_194
		1	node_176	1 -->	0	node_175
		1	node_191	1 ==>	0	node_190
		1	node_196	0 -->	1	Anatosuchus
39 (Naris, presence of)	0.111	1	node_166	1 -->	0	node_164
		1	node_117	0 ==>	1	node_111
		1	node_142	0 -->	1	Stolokrosuchus
		1	node_150	0 ==>	1	Osteolaemus
		1	node_152	0 ==>	1	Alligatormississ
		1	node_174	1 -->	0	node_173
		1	node_168	0 ==>	1	Yacarerani
		1	node_178	1 -->	0	Uruguaysuchus
		1	node_195	1 -->	0	Kaprosuchus
40 (PONC Perinarial fo)	0.400	1	node_142	0 ==>	{12}	
		1			Stolokrosuchus	
		1	node_198	0 ==>	2	node_197
		1	node_185	2 ==>	1	node_179
		1	node_189	2 -->	0	Sebecus
		1	node_195	2 -->	1	Kaprosuchus
41 (Postnarial fossa,)	1.000	1	node_138	0 -->	1	node_137
42 (Intranarial fossa,)	1.000	1	node_118	0 ==>	1	node_117
43 (Antorbital cavity,)	0.143	1	node_127	1 ==>	0	node_126
		1	node_140	1 ==>	0	node_139
		1	node_164	1 ==>	0	node_163
		1	node_177	1 ==>	0	node_176
		1	node_167	0 ==>	1	Notosuchus
		1	node_169	0 ==>	1	Sphagesaurusmont

44 (Antorbital cavity,)	0.167	1	node_190	1	==>	0	Caririsuchus
		1	node_127	1	==>	0	node_126
		1	node_140	1	==>	0	node_139
		1	node_163	1	-->	0	node_162
		1	node_177	1	==>	0	node_176
		1	node_167	0	==>	1	Notosuchus
		1	node_169	0	==>	1	Sphagesaurusmont
45 (PONC Antorbital ca)	0.500	1	node_199	1	-->	0	node_198
		1	node_142	0	-->	1	node_141
		1	node_109	1	-->	0	Steneosaurusherb
		1	node_118	1	-->	2	node_117
46 (Antorbital cavity,)	0.250	1	node_164	0	-->	1	node_142
		1	node_109	1	-->	0	Steneosaurusherb
		1	node_177	0	==>	1	Malawisuchus
		1	node_197	0	==>	1	node_196
47 (Antorbital cavity,)	1.000	1	node_203	1	==>	0	node_202
48 (PONC Antorbital ca)	0.333	1	node_203	3	-->	1	node_202
		1	node_202	1	-->	2	Junggarsuchus
		1	node_166	1	==>	0	node_164
		1	node_140	0	==>	2	Calsoyasuchus
		1	node_142	0	==>	2	Stolokrosuchus
		1	node_179	1	-->	0	node_177
		1	node_167	0	==>	1	Notosuchus
		1	node_178	1	-->	0	Candidodon
		1	node_192	1	==>	0	node_191
49 (Antorbital cavity,)	0.333	1	node_203	0	==>	1	Gracilisuchus
		1	node_118	0	==>	1	node_117
		1	node_140	0	-->	1	Calsoyasuchus
50 (Antorbital cavity,)	0.200	1	node_203	0	==>	1	Gracilisuchus
		1	node_108	0	-->	1	Hsisosuchuschung
		1	node_142	0	==>	1	node_141
		1	node_118	1	==>	0	Pelagosaurus
		1	node_195	0	==>	1	Kaprosuchus
51 (Antorbital cavity,)	0.500	1	node_200	0	==>	1	Gobiosuchus
		1	node_127	0	-->	1	node_119
52 (Antorbital cavity,)	0.167	1	node_201	0	-->	1	node_200
		1	node_112	1	-->	0	Dakosaurusandini
		1	node_166	1	-->	0	node_165
		1	node_197	1	-->	0	node_194
		1	node_191	0	==>	1	CfHamadasuchus
		1	node_196	1	-->	0	Anatosuchus
53 (PONC Lachrymal fos)	0.250	1	node_198	2	-->	0	node_166
		1	node_118	0	==>	2	node_117
		1	node_122	0	==>	1	Pholidosaurussch
		1	node_125	0	==>	1	node_124
		1	node_140	0	==>	1	node_139
		1	node_142	0	-->	2	Stolokrosuchus
		1	node_166	0	-->	1	node_165
		1	node_189	2	==>	1	FRAGBergisuchus
54 (Rostrum, orientati)	0.500	1	node_201	0	==>	1	node_200
		1	node_175	1	==>	0	Baurusuchus
55 (Rostrum, morpholog)	0.500	1	node_199	0	==>	1	node_108
		1	node_174	0	==>	1	node_173
56 (Rostrum, presence)	0.077	1	node_203	1	-->	0	Gracilisuchus
		1	node_202	1	-->	0	Junggarsuchus
		1	node_200	1	-->	0	Gobiosuchus
		1	node_118	1	==>	0	node_117
		1	node_113	0	==>	1	Geosaurusgigante
		1	node_161	1	-->	0	node_143
		1	node_160	1	-->	0	node_145
		1	node_157	1	==>	0	node_156
		1	node_194	1	-->	0	node_186
		1	node_176	0	==>	1	node_175
		1	node_184	0	==>	1	node_183
		1	node_196	1	-->	0	Anatosuchus
		1	node_195	1	-->	0	Mahajangasuchus
57 (Rostrum, type of)	0.182	1	node_198	1	==>	2	node_166
		1	node_118	2	==>	1	node_117
		1	node_113	1	==>	2	Geosaurusgigante
		1	node_127	2	==>	1	node_126
		1	node_162	2	==>	1	node_161
		1	node_158	1	-->	2	node_151
		1	node_157	1	-->	2	Diplocynodon
		1	node_176	1	==>	2	node_175
		1	node_184	1	==>	0	node_183
		1	node_193	1	-->	2	node_192
		1	node_195	1	==>	2	Kaprosuchus
58 (Rostrum, morpholog)	0.222	1	node_139	0	==>	1	node_138
		1	node_162	0	==>	1	Bernissartia
		1	node_158	0	-->	1	node_151
		1	node_157	0	-->	1	Diplocynodon
		1	node_166	0	==>	1	node_165
		1	node_176	0	==>	2	node_175
		1	node_193	0	-->	2	node_192

	1	node_191	2 ==>	1	node_190
	1	node_195	0 ==>	1	Kaprosuchus
59 (Rostrum, presence)	0.333	node_203	0 -->	1	node_105
	1	node_202	0 -->	1	Junggarsuchus
	1	node_199	0 ==>	1	node_198
60 (Rostrum, morpholog)	0.500	node_193	0 -->	1	node_192
	1	node_190	1 ==>	0	Caririsuchus
61 (Rostrum, presence)	1.000	node_192	0 ==>	1	node_188
62 (PONC Premaxillae a)	0.667	node_194	2 ==>	1	node_186
	1	node_174	1 -->	0	node_173
	1	node_176	1 -->	2	node_175
63 (Premaxilla, type o)	1.000	node_202	0 ==>	1	node_201
64 (Premaxillae, later)	0.333	node_127	0 ==>	1	node_126
	1	node_142	0 ==>	1	Stolokrosuchus
	1	node_147	0 ==>	1	node_146
65 (Premaxillae, gener)	0.364	node_108	0 -->	3	node_107
	1	node_142	0 ==>	3	node_141
	1	node_118	3 -->	0	Pelagosaurus
	1	node_118	3 -->	1	node_117
	1	node_138	3 ==>	4	node_137
	1	node_162	0 ==>	3	Bernissartia
	1	node_159	0 -->	3	node_148
	1	node_158	0 -->	3	node_151
	1	node_173	0 ==>	2	node_172
	1	node_191	0 -->	3	CfHamadasuchus
66 (PONC Premaxillae,)	0.222	node_189	0 -->	3	Sebecus
	1	node_199	0 -->	1	node_198
	1	node_140	1 ==>	0	Calsoyasuchus
	1	node_152	1 ==>	2	Brachychampsa
	1	node_167	1 -->	0	Mariliasuchus
	1	node_173	1 -->	0	node_172
	1	node_175	1 -->	0	Baurusuchus
	1	node_182	1 -->	0	node_181
	1	node_189	1 -->	0	Sebecus
	1	node_195	1 -->	0	Kaprosuchus
67 (Premaxillae, posit)	0.250	node_120	0 -->	1	Dyrosaurusmaghri
	1	node_137	0 ==>	1	Amphicotylusluca
	1	node_142	0 ==>	2	Stolokrosuchus
	1	node_162	0 ==>	1	Bernissartia
	1	node_148	0 -->	1	Tomistoma
	1	node_159	0 -->	1	node_158
	1	node_155	1 ==>	2	node_154
	1	node_167	0 -->	{12}	Notosuchus
68 (Premaxillae, contr)	0.143	node_127	1 ==>	0	node_126
	1	node_134	1 -->	0	HulkeGoniopholid
	1	node_162	1 -->	0	node_161
	1	node_152	0 ==>	1	Brachychampsa
	1	node_167	1 -->	0	Notosuchus
	1	node_178	1 -->	0	Uruguaysuchus
	1	node_191	1 -->	0	CfHamadasuchus
69 (Premaxillae, shape)	0.455	node_164	4 ==>	1	node_142
	1	node_124	1 -->	4	Elosuchus
	1	node_132	1 -->	3	node_131
	1	node_159	4 -->	2	node_148
	1	node_147	2 ==>	1	node_146
	1	node_159	4 -->	0	node_158
	1	node_151	0 -->	2	node_149
	1	node_152	0 ==>	5	Brachychampsa
	1	node_155	0 ==>	2	Paleosuchus
	1	node_167	4 -->	0	Notosuchus
	1	node_193	4 -->	5	node_192
70 (Premaxillae, shape)	0.182	node_141	2 ==>	0	node_127
	1	node_110	0 -->	1	Cricosaurusarauc
	1	node_124	0 -->	2	Elosuchus
	1	node_142	2 ==>	1	Stolokrosuchus
	1	node_147	2 -->	0	node_146
	1	node_148	2 ==>	1	Tomistoma
	1	node_159	2 -->	0	node_158
	1	node_151	0 ==>	1	node_149
	1	node_152	0 ==>	2	Brachychampsa
	1	node_155	0 ==>	1	Paleosuchus
	1	node_167	2 -->	1	Notosuchus
71 (Premaxilla, presen)	0.250	node_173	0 -->	1	node_167
	1	node_175	0 -->	1	Baurusuchus
	1	node_181	0 -->	1	Araripesuchusweg
	1	node_196	0 ==>	1	Anatosuchus
72 (ORD Nasals, length)	0.286	node_164	2 ==>	1	node_142
	1	node_127	1 ==>	0	node_119
	1	node_138	1 ==>	2	Siamosuchusphuph
	1	node_162	2 ==>	1	Bernissartia
	1	node_159	2 ==>	1	node_148
	1	node_147	1 ==>	0	node_146
	1	node_157	2 ==>	1	Diplocynodon
73 (ORD Nasals, morpho)	0.333	node_203	1 ==>	0	Gracilisuchus

	1	node_127	1 ==>	0	node_119
	1	node_176	1 ==>	0	node_174
74 (Nasals, general st)	0.250	node_198	1 ==>	0	node_166
	1	node_127	0 ==>	1	node_119
	1	node_140	0 ==>	1	Calsoyasuchus
	1	node_185	1 ==>	0	node_184
75 (Nasals, dorsal sur)	0.500	node_199	0 ==>	2	node_108
	1	node_119	0 ==>	2	node_118
	1	node_140	0 ==>	2	Calsoyasuchus
	1	node_177	0 -->	1	node_176
76 (Nasals, morphology)	0.100	node_105	1 -->	0	Sphenosuchus
	1	node_202	1 -->	0	Junggarsuchus
	1	node_106	1 -->	0	Protosuchus
	1	node_138	1 ==>	0	node_137
	1	node_176	1 ==>	0	node_174
	1	node_171	0 -->	1	Armadillosuchus
	1	node_170	0 -->	1	Sphagesaurushuen
	1	node_182	1 ==>	0	node_181
	1	node_184	1 ==>	0	CratoForm
	1	node_195	1 -->	0	Kaprosuchus
77 (Nasals, fusion at)	0.500	node_122	0 ==>	1	node_121
	1	node_196	0 ==>	1	node_195
78 (Maxilla, participa)	0.143	node_143	0 ==>	1	Susisuchus
	1	node_144	0 ==>	1	Iharkutosuchus
	1	node_165	0 ==>	1	Theriosuchusguim
	1	node_167	0 -->	1	Mariliasuchus
	1	node_168	0 -->	1	Adamantinasuchus
	1	node_177	0 -->	1	Malawisuchus
	1	node_178	0 -->	1	Uruguaysuchus
79 (Maxilla, morpholog)	0.143	node_199	0 -->	1	node_108
	1	node_127	0 -->	1	node_119
	1	node_141	0 -->	1	node_140
	1	node_179	0 -->	1	node_177
	1	node_184	0 -->	1	CratoForm
	1	node_186	0 -->	1	Libycosuchus
	1	node_196	0 -->	1	Anatosuchus
80 (Maxilla, projectio)	0.182	node_202	1 ==>	2	node_201
	1	node_199	2 ==>	1	node_198
	1	node_164	1 ==>	0	node_142
	1	node_124	0 ==>	1	Elosuchus
	1	node_140	0 ==>	1	node_139
	1	node_161	1 ==>	0	node_143
	1	node_144	1 -->	0	Iharkutosuchus
	1	node_148	1 ==>	0	node_147
	1	node_174	1 ==>	0	node_173
	1	node_186	1 ==>	0	Libycosuchus
	1	node_189	1 -->	2	Sebecus
81 (PONC Maxilla, proj)	0.154	node_199	0 -->	1	node_198
	1	node_141	1 ==>	0	node_127
	1	node_124	0 ==>	1	Elosuchus
	1	node_130	1 -->	0	node_128
	1	node_163	1 ==>	0	Rugosuchus
	1	node_161	1 -->	2	node_143
	1	node_160	1 -->	2	node_145
	1	node_148	1 -->	0	node_147
	1	node_158	1 -->	2	node_157
	1	node_197	1 -->	0	node_194
	1	node_183	0 -->	1	node_182
	1	node_184	0 -->	1	CratoForm
	1	node_188	0 ==>	1	Uberabasuchus
82 (Maxilla, number of)	0.111	node_139	0 ==>	1	node_138
	1	node_133	1 -->	0	HoolleyGoniopholi
	1	node_134	1 -->	0	HulkeGoniopholid
	1	node_164	0 -->	1	node_163
	1	node_148	1 -->	0	Tomistoma
	1	node_166	0 -->	1	node_165
	1	node_188	0 -->	1	node_187
	1	node_192	0 -->	1	node_191
	1	node_195	0 ==>	1	Kaprosuchus
83 (Maxilla, lateral e)	0.250	node_122	0 ==>	1	node_121
	1	node_124	0 -->	1	Elosuchus
	1	node_159	0 -->	1	node_148
	1	node_158	0 -->	1	node_151
84 (Maxilla, position)	0.500	node_202	0 -->	1	node_201
	1	node_198	1 -->	0	node_197
85 (Maxilla, presence)	1.000	node_151	0 ==>	1	node_149
86 (Maxilla, presence)	0.250	node_199	0 ==>	1	node_108
	1	node_141	0 ==>	1	node_140
	1	node_136	1 ==>	0	Nannosuchus
	1	node_163	0 ==>	1	Rugosuchus
87 (Maxilla, presence)	1.000	node_163	0 ==>	1	Rugosuchus
88 (Maxilla, presence)	1.000	node_199	0 ==>	1	node_108
89 (Maxilla, presence)	0.500	node_141	0 ==>	1	node_140
	1	node_136	1 ==>	0	Nannosuchus

90 (Maxilla, morpholog)	1.000	1	node_136	0 ==>	1	node_135
91 (Maxilla, extent of)	0.333	1	node_144	1 -->	0	Iharkutosuchus
		1	node_172	1 ==>	0	node_168
		1	node_174	1 ==>	0	Comahuesuchus
92 (Maxilla, presence)	0.500	1	node_145	0 ==>	1	node_144
		1	node_156	0 ==>	1	node_152
93 (Maxilla, presence)	0.200	1	node_145	0 ==>	1	node_144
		1	node_156	0 ==>	1	node_152
		1	node_183	0 ==>	1	Araripesuchustsa
		1	node_192	0 ==>	1	node_188
		1	node_197	0 ==>	1	node_196
94 (Lachrymal, relativ)	0.125	1	node_200	0 -->	1	node_199
		1	node_113	1 -->	0	Geosaurusgigante
		1	node_136	1 ==>	0	Nannosuchus
		1	node_145	1 ==>	0	node_144
		1	node_155	1 ==>	0	node_154
		1	node_166	1 -->	0	node_165
		1	node_194	1 -->	0	node_186
		1	node_192	1 -->	0	node_188
95 (Lachrymal, proport)	0.200	1	node_131	0 ==>	1	GoniopholisDORCM
		1	node_134	0 ==>	1	HulkeGoniopholid
		1	node_142	0 ==>	1	Stolokrosuchus
		1	node_148	0 ==>	1	node_147
		1	node_179	0 ==>	1	node_178
96 (Lachrymal, exposur)	0.333	1	node_106	1 ==>	0	Hemiprotosuchus
		1	node_118	1 ==>	0	node_117
		1	node_176	1 ==>	0	node_175
97 (Lachrymal, presenc)	0.333	1	node_202	0 -->	1	Junggarsuchus
		1	node_201	0 -->	1	node_106
		1	node_119	0 -->	1	node_109
		1	node_118	0 -->	1	Pelagosaurus
		1	node_182	0 -->	2	node_181
		1	node_184	0 -->	1	CratoForm
98 (Lachrymal, extent)	0.100	1	node_200	1 ==>	0	Gobiosuchus
		1	node_162	1 ==>	0	Bernissartia
		1	node_145	1 ==>	0	node_144
		1	node_156	1 ==>	0	node_152
		1	node_165	1 ==>	0	Theriosuchusguim
		1	node_198	1 ==>	0	node_197
		1	node_174	0 ==>	1	node_173
		1	node_177	0 ==>	1	Malawisuchus
		1	node_181	0 ==>	1	node_180
		1	node_192	0 ==>	1	node_191
99 (PONC Prefrontal-la)	0.250	1	node_139	0 ==>	1	node_138
		1	node_135	1 ==>	0	node_134
		1	node_149	0 -->	1	Crocodylusporosu
		1	node_151	0 -->	1	node_150
		1	node_152	0 -->	1	Alligatormississ
		1	node_154	0 -->	1	Caimanocrodilus
		1	node_154	0 -->	2	node_153
		1	node_195	0 ==>	2	Mahajangasuchus
100 (Transverse rostra)	1.000	1	node_155	0 ==>	1	node_154
101 (Transverse fronta)	0.500	1	node_138	0 ==>	1	node_137
		1	node_135	1 ==>	0	node_134
102 (Frontal sagittal)	0.071	1	node_105	0 -->	1	Sphenosuchus
		1	node_128	0 ==>	1	Sunosuchusjungga
		1	node_138	0 ==>	1	Siamosuchusphuph
		1	node_163	0 ==>	1	Rugosuchus
		1	node_166	0 ==>	1	node_165
		1	node_173	0 -->	1	node_167
		1	node_168	0 -->	1	Adamantinasuchus
		1	node_169	0 -->	1	Sphagesaurusmont
		1	node_176	0 -->	1	node_175
		1	node_181	0 ==>	1	Araripesuchusweg
		1	node_184	0 ==>	1	CratoForm
		1	node_189	0 -->	1	Sebecus
		1	node_196	0 -->	1	Anatosuchus
		1	node_195	0 -->	1	Kaprosuchus
103 (Parietal sagittal)	0.500	1	node_163	0 ==>	1	Rugosuchus
		1	node_166	0 ==>	1	node_165
104 (Crests margining)	0.200	1	node_136	0 ==>	1	Nannosuchus
		1	node_163	0 ==>	1	Rugosuchus
		1	node_144	0 -->	1	Hylaeochampsia
		1	node_150	0 ==>	1	Voay
		1	node_165	0 -->	1	Theriosuchuspusi
105 (Supratemporal fen)	0.250	1	node_140	0 ==>	1	node_139
		1	node_145	0 ==>	1	Allodaposuchus
		1	node_165	0 -->	1	Theriosuchuspusi
		1	node_167	0 -->	1	Notosuchus
106 (Supratemporal fen)	0.182	1	node_203	0 ==>	1	node_105
		1	node_141	0 ==>	2	node_127
		1	node_118	2 ==>	1	Pelagosaurus
		1	node_122	2 ==>	1	Pholidosaurusssch
		1	node_123	2 -->	1	Sarcosuchusimper

	1	node_132	0	-->	1	node_131
	1	node_135	0	-->	1	node_134
	1	node_147	0	==>	1	node_146
	1	node_152	0	==>	1	Brachychampsa
	1	node_171	0	==>	1	Armadillosuchus
	1	node_176	0	==>	1	node_175
107 (Supratemporal fos) 0.125	1	node_203	0	==>	2	node_105
	1	node_202	0	==>	1	Junggarsuchus
	1	node_200	0	==>	1	Gobiosuchus
	1	node_141	0	==>	2	node_127
	1	node_123	2	-->	1	Sarcosuchusimper
	1	node_137	0	-->	1	Amphicotylusluca
	1	node_135	0	-->	1	node_132
	1	node_135	0	-->	2	node_134
	1	node_142	0	==>	1	Stolokrosuchus
	1	node_147	0	==>	1	node_146
	1	node_173	0	==>	1	node_172
	1	node_171	1	==>	2	Armadillosuchus
	1	node_176	0	==>	2	node_175
	1	node_193	0	-->	1	node_192
	1	node_190	1	==>	0	Caririsuchus
	1	node_196	0	==>	2	node_195
108 (PONC Supratempora) 0.500	1	node_144	0	==>	2	Iharkutosuchus
	1	node_151	0	==>	1	node_150
	1	node_155	0	-->	1	node_154
	1	node_155	0	-->	2	Paleosuchus
109 (Supratemporal fos) 0.077	1	node_199	1	==>	0	node_108
	1	node_122	1	-->	0	Pholidosaurussch
	1	node_126	1	-->	0	node_125
	1	node_129	1	-->	0	Sunosuchusmiaoi
	1	node_138	1	-->	0	node_137
	1	node_142	1	-->	0	Stolokrosuchus
	1	node_155	1	-->	0	node_154
	1	node_167	1	-->	0	Mariliasuchus
	1	node_168	1	-->	0	Yacarerani
	1	node_174	1	-->	0	Comahuesuchus
	1	node_185	1	==>	0	node_184
	1	node_181	0	==>	1	node_180
	1	node_195	1	==>	0	Kaprosuchus
110 (Supratemporal fos) 0.111	1	node_202	2	==>	0	node_201
	1	node_142	0	-->	2	node_141
	1	node_139	2	-->	1	node_130
	1	node_163	0	-->	1	Rugosuchus
	1	node_143	0	-->	2	Isisfordia
	1	node_145	0	-->	2	Allodaposuchus
	1	node_144	0	-->	1	Hylaeochampsa
	1	node_147	0	-->	2	node_146
	1	node_151	0	-->	2	node_149
	1	node_150	0	-->	2	Voay
	1	node_152	0	-->	2	Brachychampsa
	1	node_165	0	-->	1	Theriosuchuspusi
	1	node_174	0	-->	1	node_173
	1	node_171	1	-->	2	Armadillosuchus
	1	node_176	0	-->	2	node_175
	1	node_186	0	==>	1	Libycosuchus
	1	node_193	0	-->	2	node_192
	1	node_195	0	-->	2	Mahajangasuchus
111 (Supratemporal fos) 0.235	1	node_203	0	==>	4	Gracilisuchus
	1	node_122	0	==>	1	Pholidosaurussch
	1	node_123	0	-->	3	Sarcosuchusimper
	1	node_125	0	-->	2	node_124
	1	node_137	0	==>	3	Amphicotylusluca
	1	node_136	0	==>	1	node_135
	1	node_134	1	==>	3	node_133
	1	node_142	0	==>	3	Stolokrosuchus
	1	node_145	0	==>	4	Allodaposuchus
	1	node_146	0	-->	2	Piscogavialis
	1	node_167	0	==>	3	Mariliasuchus
	1	node_168	0	==>	3	Yacarerani
	1	node_176	0	==>	4	node_175
	1	node_185	0	==>	3	node_184
	1	node_181	3	==>	0	node_180
	1	node_188	0	==>	4	Uberabasuchus
	1	node_195	0	==>	4	Mahajangasuchus
112 (Supratemporal fos) 1.000	1	node_116	0	==>	1	node_115
113 (Supratemporal fos) 0.143	1	node_107	0	==>	1	Hsisosuchuschowii
	1	node_119	0	==>	1	node_109
	1	node_109	1	==>	2	Steneosaurusboll
	1	node_111	0	-->	2	node_110
	1	node_117	0	-->	2	node_116
	1	node_121	0	==>	1	Guarinisuchus
	1	node_124	0	==>	1	Vectisuchus
	1	node_128	0	==>	1	Eutretauranosuch
	1	node_131	0	==>	1	Goniopholissimus

	1	node_134	0 ==>	1 HulkeGoniopholid
	1	node_145	0 ==>	2 Allodaposuchus
	1	node_168	0 ==>	1 Yacarerani
	1	node_184	0 ==>	1 CratoForm
	1	node_195	0 ==>	1 Mahajangasuchus
114 (Supratemporal fos)	1.000	node_155	0 -->	1 node_154
115 (Skull roof at orb)	0.500	node_126	0 ==>	1 node_125
	1	node_135	0 ==>	1 node_134
	1	node_151	0 -->	1 node_149
116 (Skull roof, align)	1.000	node_109	0 ==>	1 Steneosaurus herb
117 (Supratemporal sku)	0.500	node_121	0 ==>	1 Guarinisuchus
	1	node_202	0 ==>	1 node_201
118 (Supratemporal sku)	0.250	node_127	1 ==>	0 node_119
	1	node_184	1 ==>	0 node_183
	1	node_181	0 ==>	1 node_180
119 (Supratemporal sku)	0.500	node_160	0 ==>	1 node_159
	1	node_196	0 ==>	1 node_195
120 (Supratemporal sku)	0.125	node_105	1 -->	2 Pseudhesperosuch
	1	node_105	1 -->	0 Sphenosuchus
	1	node_106	1 -->	0 Protosuchus
	1	node_200	1 -->	0 Gobiosuchus
	1	node_122	1 ==>	0 Pholidosaurus sch
	1	node_123	1 -->	2 Sarcosuchus imper
	1	node_132	1 ==>	2 node_131
	1	node_146	1 -->	0 Piscogavialis
	1	node_147	1 -->	0 Eosuchus
	1	node_159	1 -->	0 node_158
	1	node_150	0 ==>	1 Osteolaemus
	1	node_154	0 -->	1 node_153
	1	node_155	0 -->	1 Paleosuchus
	1	node_167	1 ==>	0 Mariliasuchus
	1	node_169	1 -->	0 Sphagesaurus mont
	1	node_176	1 ==>	0 node_175
121 (Supratemporal sku)	1.000	node_137	0 ==>	1 Amphicotylus luca
122 (PONC Supratempora)	0.167	node_203	1 ==>	0 Gracilisuchus
	1	node_200	1 -->	2 Gobiosuchus
	1	node_199	1 -->	2 node_108
	1	node_127	1 ==>	2 node_119
	1	node_122	1 ==>	2 Pholidosaurus sch
	1	node_123	1 -->	0 Sarcosuchus imper
	1	node_141	1 ==>	0 node_140
	1	node_137	0 ==>	2 node_136
	1	node_151	1 ==>	0 node_149
	1	node_155	1 ==>	0 node_154
	1	node_198	1 -->	0 node_197
	1	node_188	0 ==>	{12} Uberabasuchus
123 (Supratemporal sku)	0.125	node_107	0 ==>	1 Hsisosuchus dasha
	1	node_108	0 ==>	2 Hsisosuchus chung
	1	node_127	0 ==>	2 node_119
	1	node_122	0 ==>	1 Pholidosaurus sch
	1	node_136	0 -->	1 Nannosuchus
	1	node_132	0 -->	1 node_131
	1	node_162	0 -->	2 Bernissartia
	1	node_160	0 -->	2 node_145
	1	node_147	0 -->	2 Eosuchus
	1	node_148	0 -->	2 Tomistoma
	1	node_152	0 ==>	2 Brachychampsa
	1	node_198	0 ==>	1 node_197
	1	node_172	1 ==>	0 node_171
	1	node_192	1 -->	2 node_188
	1	node_191	1 -->	2 CfHamadasuchus
	1	node_195	1 ==>	2 Kaprosuchus
124 (Supratemporal sku)	0.167	node_122	0 -->	1 Pholidosaurus sch
	1	node_126	0 -->	1 node_125
	1	node_138	0 ==>	1 node_137
	1	node_148	0 ==>	1 Tomistoma
	1	node_158	0 ==>	1 node_151
	1	node_196	0 ==>	1 node_195
	1	node_118	0 ==>	1 node_117
125 (Prefrontal, later)	1.000	node_200	0 ==>	1 Gobiosuchus
126 (PONC Prefrontals,)	0.286	node_122	0 ==>	1 Pholidosaurus sch
	1	node_137	0 -->	1 node_136
	1	node_134	1 ==>	2 node_133
	1	node_152	0 ==>	1 Brachychampsa
	1	node_177	0 ==>	1 Malawisuchus
	1	node_196	0 ==>	1 node_195
127 (Prefrontal pillar)	0.250	node_105	1 -->	0 Sphenosuchus
	1	node_106	1 -->	0 Protosuchus
	1	node_109	1 -->	0 Steneosaurus boll
	1	node_118	1 -->	0 Pelagosaurus
128 (Prefrontal pillar)	0.500	node_166	0 ==>	1 node_164
	1	node_184	0 -->	1 node_183
129 (Prefrontal pillar)	0.333	node_201	1 ==>	0 node_200
	1	node_160	0 ==>	1 node_159

	1	node_183	0 ==>	1	Araripesuchustsa
130 (Prefrontal pillar) 0.333	1	node_200	1 -->	0	Gobiosuchus
	1	node_127	1 -->	0	node_126
	1	node_167	1 -->	0	Notosuchus
131 (Prefrontal pillar) 0.500	1	node_144	1 -->	0	Hylaeochampsa
	1	node_146	1 -->	0	Gavialis
132 (Frontals, fusion) 1.000	1	node_201	0 -->	1	node_200
133 (Frontal, width re) 0.167	1	node_200	1 ==>	0	node_199
	1	node_142	0 ==>	1	node_141
	1	node_146	0 ==>	1	Gavialis
	1	node_197	0 ==>	1	node_194
	1	node_174	1 ==>	0	Comahuesuchus
	1	node_184	1 ==>	0	node_183
134 (Frontal, proporti) 0.111	1	node_203	1 ==>	0	Gracilisuchus
	1	node_198	1 ==>	0	node_166
	1	node_127	0 ==>	1	node_119
	1	node_122	0 ==>	1	Pholidosaurus
	1	node_139	0 ==>	1	node_138
	1	node_146	0 ==>	1	Gavialis
	1	node_151	0 ==>	1	node_149
	1	node_174	1 ==>	0	Comahuesuchus
	1	node_184	1 ==>	0	node_183
135 (Frontal, general) 0.143	1	node_126	0 ==>	1	node_125
	1	node_164	0 -->	1	node_163
	1	node_146	1 -->	0	Piscogavialis
	1	node_147	1 -->	0	Eosuchus
	1	node_155	1 ==>	0	Paleosuchus
	1	node_166	0 -->	1	node_165
	1	node_195	0 ==>	1	Kaprosuchus
136 (Frontal, morpholo) 0.100	1	node_203	1 ==>	0	Gracilisuchus
	1	node_201	1 ==>	0	node_106
	1	node_200	1 ==>	2	Gobiosuchus
	1	node_110	1 -->	2	Cricosaurus
	1	node_111	1 -->	2	Rhacheosaurus
	1	node_137	1 ==>	2	node_136
	1	node_134	2 ==>	1	HulkeGoniopholid
	1	node_163	1 ==>	0	Rugosuchus
	1	node_162	1 ==>	2	node_161
	1	node_145	2 ==>	0	node_144
	1	node_147	2 ==>	1	node_146
	1	node_155	2 ==>	1	Paleosuchus
	1	node_168	1 ==>	0	Yacararani
	1	node_174	1 ==>	0	Comahuesuchus
	1	node_177	1 ==>	2	Malawisuchus
	1	node_178	1 ==>	2	Uruguaysuchus
	1	node_184	1 ==>	0	node_183
	1	node_188	1 ==>	2	Uberabasuchus
	1	node_189	1 -->	2	Sebecus
	1	node_196	1 ==>	2	node_195
137 (Frontal, morpholo) 0.053	1	node_203	0 -->	1	node_105
	1	node_202	0 -->	1	Junggarsuchus
	1	node_107	0 -->	1	Hsisosuchusdasha
	1	node_198	0 -->	1	node_166
	1	node_109	1 -->	0	Platysuchus
	1	node_129	1 -->	0	Sunosuchusmiaoi
	1	node_135	1 ==>	0	node_132
	1	node_142	1 -->	0	Stolokrosuchus
	1	node_161	1 ==>	0	node_143
	1	node_145	1 ==>	0	node_144
	1	node_155	1 ==>	0	Paleosuchus
	1	node_157	1 ==>	0	Diplocynodon
	1	node_173	0 -->	1	node_167
	1	node_172	0 -->	1	node_171
	1	node_175	0 ==>	1	Stratiosuchus
	1	node_178	0 ==>	1	Candidodon
	1	node_182	0 ==>	1	Araripesuchusbui
	1	node_189	0 -->	1	Sebecus
	1	node_195	0 ==>	1	Mahajangasuchus
138 (Frontal, medial s) 0.333	1	node_138	0 -->	1	node_137
	1	node_133	1 -->	0	DolloGoniopholid
	1	node_134	1 -->	0	HulkeGoniopholid
139 (Frontal, presence) 1.000	1	node_132	0 ==>	1	node_131
140 (Frontal, extensio) 0.111	1	node_201	1 ==>	0	node_106
	1	node_109	1 ==>	0	Platysuchus
	1	node_111	1 ==>	0	Rhacheosaurus
	1	node_133	1 ==>	0	DolloGoniopholid
	1	node_144	1 ==>	0	Hylaeochampsa
	1	node_167	1 ==>	0	Mariliasuchus
	1	node_168	1 ==>	0	Yacararani
	1	node_174	1 ==>	0	Comahuesuchus
	1	node_178	1 ==>	0	Candidodon
141 (Frontal, particip) 1.000	1	node_135	0 ==>	1	node_132
142 (Frontal (anterior) 0.167	1	node_200	0 ==>	1	Gobiosuchus
	1	node_111	0 ==>	1	node_110

	1	node_116	0	==>	1	node_115	
	1	node_127	0	==>	1	node_126	
	1	node_137	0	-->	1	node_136	
	1	node_147	0	==>	1	node_146	
143 (Frontal, presence)	0.500	1	node_123	0	-->	1	Sarcosuchusimper
		1	node_157	0	==>	1	Diplocynodon
144 (Parietals, fusion)	0.333	1	node_203	1	-->	0	Gracilisuchus
		1	node_105	1	-->	0	Pseudhesperosuch
		1	node_200	1	==>	0	Gobiosuchus
145 (ORD Parietal, mor)	0.133	1	node_203	0	-->	1	node_105
		1	node_105	1	==>	2	Sphenosuchus
		1	node_201	0	-->	1	node_106
		1	node_199	0	-->	1	node_108
		1	node_127	0	-->	1	node_119
		1	node_119	1	==>	2	node_109
		1	node_126	0	-->	1	node_122
		1	node_121	1	==>	2	Guarinisuchus
		1	node_134	0	==>	1	HulkeGoniopholid
		1	node_142	0	-->	1	Stolokrosuchus
		1	node_148	0	==>	1	node_147
		1	node_174	0	-->	1	node_173
		1	node_176	0	-->	1	node_175
		1	node_184	0	==>	1	CratoForm
		1	node_196	0	==>	1	node_195
146 (Parietal, dorsal)	0.250	1	node_203	0	==>	1	node_105
		1	node_109	0	==>	1	Steneosaurusherb
		1	node_121	0	==>	1	Guarinisuchus
		1	node_169	0	-->	1	Sphagesaurusmont
147 (Postparietal (=de))	1.000	1	node_203	0	==>	1	Gracilisuchus
148 (Upper temporal ba)	0.077	1	node_105	0	==>	1	Pseudhesperosuch
		1	node_127	0	==>	1	node_126
		1	node_142	0	==>	1	Stolokrosuchus
		1	node_163	0	==>	1	Rugosuchus
		1	node_145	0	-->	1	Allodaposuchus
		1	node_144	0	-->	1	Iharkutosuchus
		1	node_146	0	==>	1	Piscogavialis
		1	node_148	0	==>	1	Tomistoma
		1	node_151	0	==>	1	node_149
		1	node_171	0	==>	1	Armadillosuchus
		1	node_176	0	==>	1	node_175
		1	node_193	0	-->	1	node_192
		1	node_195	0	==>	1	Mahajangasuchus
149 (Upper temporal ba)	0.333	1	node_138	0	-->	1	node_137
		1	node_134	1	==>	0	HulkeGoniopholid
		1	node_162	0	==>	1	Bernissartia
150 (Upper temporal ba)	1.000	1	node_202	2	==>	0	node_201
		1	node_127	0	==>	1	node_119
151 (Upper temporal ba)	0.111	1	node_105	0	-->	1	Sphenosuchus
		1	node_142	0	==>	1	node_141
		1	node_145	0	-->	1	Allodaposuchus
		1	node_144	0	-->	1	Hylaeochamps
		1	node_147	0	==>	1	node_146
		1	node_176	0	==>	1	node_175
		1	node_183	0	==>	1	Araripesuchustsa
		1	node_196	0	-->	1	Anatosuchus
		1	node_195	0	-->	1	Kaprosuchus
152 (ORD Postorbital,)	0.500	1	node_127	0	==>	1	node_126
		1	node_123	1	-->	2	Sarcosuchusimper
		1	node_138	0	-->	1	node_137
153 (Postorbital, rela)	0.333	1	node_134	1	==>	2	node_133
		1	node_122	0	-->	1	node_121
		1	node_126	0	-->	1	node_125
		1	node_134	0	==>	1	node_133
154 (PONC Squamosals,)	0.667	1	node_151	0	==>	1	node_149
		1	node_150	0	==>	2	Voay
		1	node_195	0	==>	2	Mahajangasuchus
155 (Squamosal, presen)	1.000	1	node_166	0	==>	1	node_165
156 (Squamosal, orient)	0.333	1	node_202	1	==>	0	node_201
		1	node_176	0	-->	1	node_174
		1	node_177	0	-->	1	Malawisuchus
157 (ORD Orbits, orien)	0.222	1	node_201	0	==>	1	node_200
		1	node_119	1	-->	2	node_109
		1	node_118	1	==>	0	node_117
		1	node_122	1	-->	2	node_121
		1	node_126	1	-->	2	node_125
		1	node_134	1	==>	2	node_133
		1	node_148	1	==>	2	node_147
		1	node_149	1	==>	2	Crocodylusporosu
		1	node_176	1	==>	0	node_175
158 (Orbits, orientati)	0.250	1	node_200	0	==>	1	Gobiosuchus
		1	node_125	0	==>	1	node_124
		1	node_173	0	-->	1	node_167
		1	node_168	0	-->	1	Yacararani
159 (Orbits, presence)	1.000	1	node_119	0	==>	1	node_118

160 (PONC Orbit, compo) 0.400	1	node_203 2 --> 1 node_202
	1	node_106 1 --> 2 Hemiprotosuchus
	1	node_199 1 --> 2 node_108
	1	node_119 1 ==> 2 node_118
	1	node_136 1 --> 0 node_135
161 (Orbit, morphology) 0.500	1	node_135 0 --> 1 node_132
	1	node_134 0 --> 1 HulkeGoniopholid
162 (Laterotemporal fe) 0.200	1	node_203 0 ==> 1 node_105
	1	node_201 0 ==> 1 node_106
	1	node_199 0 ==> 1 node_198
	1	node_143 1 ==> 0 Susisuchus
	1	node_196 1 ==> 0 Anatosuchus
163 (Laterotemporal fe) 1.000	1	node_203 0 ==> 1 node_105
164 (Laterotemporal fe) 0.143	1	node_203 1 ==> 0 node_105
	1	node_200 1 ==> 0 Gobiosuchus
	1	node_108 1 ==> 0 node_107
	1	node_119 1 --> 0 node_109
	1	node_118 1 --> 0 node_117
	1	node_184 1 --> 0 node_183
	1	node_181 0 ==> 1 node_180
165 (Laterotemporal fe) 0.500	1	node_201 0 ==> 1 node_200
	1	node_127 1 ==> 0 node_119
166 (PONC Laterotempor) 0.182	1	node_203 1 --> 0 Gracilisuchus
	1	node_105 1 --> 0 Pseudhesperosuch
	1	node_199 1 ==> 0 node_198
	1	node_127 0 ==> 2 node_119
	1	node_137 0 ==> 1 Amphicotylusluca
	1	node_143 0 ==> 1 Susisuchus
	1	node_158 0 ==> 2 node_151
	1	node_155 0 ==> 1 Paleosuchus
	1	node_185 0 ==> 1 node_179
	1	node_188 0 ==> 1 Uberabasuchus
	1	node_195 0 ==> 1 Mahajangasuchus
167 (Laterotemporal fe) 0.167	1	node_126 0 ==> 1 node_122
	1	node_137 0 --> 1 node_136
	1	node_163 0 --> 1 node_162
	1	node_150 1 ==> 0 Voay
	1	node_152 1 --> 0 Alligatormississ
	1	node_156 1 --> 0 node_155
168 (Laterotemporal fe) 0.333	1	node_163 1 --> 0 node_162
	1	node_159 0 ==> 1 node_158
	1	node_149 1 ==> 0 Crocodylusniloti
169 (Laterotemporal fe) 0.500	1	node_159 0 ==> 1 node_158
	1	node_149 1 ==> 0 Crocodylusniloti
170 (Laterotemporal fe) 1.000	1	node_159 1 ==> 0 node_158
171 (Jugal, participat) 1.000	1	node_119 1 ==> 0 node_109
172 (Jugal, cross-sect) 0.500	1	node_119 1 ==> 0 node_118
	1	node_169 1 --> 0 Sphagesaurusmont
173 (Jugal, cross-sect) 0.125	1	node_127 1 ==> 0 node_119
	1	node_122 1 ==> 0 Pholidosaurussch
	1	node_135 1 ==> 0 node_134
	1	node_147 1 ==> 0 node_146
	1	node_185 1 ==> 0 node_179
	1	node_168 0 ==> 1 Adamantinasuchus
	1	node_176 0 ==> 1 node_175
	1	node_196 1 ==> 0 node_195
174 (Jugal, height of) 0.143	1	node_105 0 ==> 1 Sphenosuchus
	1	node_200 0 --> 1 node_199
	1	node_108 1 --> 0 Hsisosuchuschung
	1	node_119 1 ==> 0 node_118
	1	node_166 1 --> 0 node_165
	1	node_172 1 ==> 0 node_168
	1	node_169 1 --> 0 Sphagesaurusmont
175 (Jugal (anterior r) 0.091	1	node_200 0 ==> 1 node_199
	1	node_119 1 ==> 0 node_118
	1	node_122 1 ==> 0 Pholidosaurussch
	1	node_136 1 ==> 0 Nannosuchus
	1	node_134 1 ==> 0 node_133
	1	node_166 1 ==> 0 node_165
	1	node_186 1 ==> 0 node_185
	1	node_174 0 --> 1 Comahuesuchus
	1	node_176 0 --> 1 node_175
	1	node_180 0 --> 1 Araripesuchusgom
	1	node_181 0 --> 1 Araripesuchusweg
176 (Jugal, alignment) 1.000	1	node_196 0 ==> 1 node_195
177 (Jugal, presence o) 1.000	1	node_196 0 ==> 1 node_195
178 (PONC Jugal (anter) 0.125	1	node_107 0 --> 1 Hsisosuchuschowi
	1	node_126 0 --> 1 node_125
	1	node_124 1 ==> 2 Elosuchus
	1	node_140 0 --> 1 node_139
	1	node_135 1 ==> 0 node_134
	1	node_142 0 ==> 2 Stolokrosuchus
	1	node_164 0 --> 1 node_163
	1	node_186 0 ==> 1 node_185

	1	node_172	1 ==>	0	node_168
	1	node_169	1 -->	0	Sphagesaurusmont
	1	node_175	1 -->	2	Baurusuchus
	1	node_178	1 ==>	0	Uruguaysuchus
	1	node_192	0 ==>	2	node_191
	1	node_190	2 ==>	1	Caririsuchus
	1	node_196	0 -->	1	Anatosuchus
	1	node_196	0 -->	2	node_195
179 (PONC Jugal (anter) 0.250	1	node_108	0 -->	1	Hsisosuchuschung
	1	node_166	0 ==>	2	node_164
	1	node_127	2 ==>	0	node_119
	1	node_140	2 ==>	0	Calsoyasuchus
	1	node_198	0 -->	1	node_197
	1	node_185	1 ==>	0	node_179
	1	node_173	0 ==>	1	node_167
	1	node_180	1 ==>	2	Araripesuchusgom
180 (PONC Jugal (anter) 0.333	1	node_126	1 ==>	2	node_122
	1	node_136	1 ==>	2	node_135
	1	node_163	1 -->	2	node_162
	1	node_176	1 ==>	0	node_174
	1	node_167	0 ==>	1	Notosuchus
	1	node_195	1 -->	2	Kaprosuchus
181 (Jugal (anterior r) 0.100	1	node_202	1 -->	0	Junggarsuchus
	1	node_201	1 -->	0	node_106
	1	node_143	1 ==>	0	Susisuchus
	1	node_144	1 ==>	0	Iharkutosuchus
	1	node_166	1 ==>	0	node_165
	1	node_174	1 -->	0	node_173
	1	node_171	0 ==>	1	node_170
	1	node_177	1 -->	0	Malawisuchus
	1	node_178	1 -->	0	Uruguaysuchus
	1	node_183	1 -->	0	Araripesuchustsa
182 (Jugal (anterior r) 0.077	1	node_203	0 ==>	1	Gracilisuchus
	1	node_201	0 ==>	1	node_200
	1	node_118	1 ==>	0	Pelagosaurus
	1	node_122	1 ==>	0	node_121
	1	node_123	1 -->	0	Sarcosuchusimper
	1	node_136	1 ==>	0	Nannosuchus
	1	node_143	1 ==>	0	Susisuchus
	1	node_145	1 ==>	0	node_144
	1	node_166	1 ==>	0	node_165
	1	node_185	1 ==>	0	node_179
	1	node_176	0 ==>	1	node_175
	1	node_191	1 ==>	0	node_190
	1	node_196	1 ==>	0	Anatosuchus
183 (Jugal, morphology) 0.333	1	node_176	0 ==>	2	node_175
	1	node_182	0 -->	1	node_181
	1	node_187	0 -->	1	Montealtosuchus
	1	node_188	0 -->	2	Uberabasuchus
	1	node_195	0 -->	1	Kaprosuchus
	1	node_195	0 -->	2	Mahajangasuchus
184 (Jugal fit to maxi) 1.000	1	node_173	0 ==>	1	node_172
185 (Jugal, presence o) 1.000	1	node_168	0 ==>	1	Yacararani
186 (Palpebrals, prese) 1.000	1	node_198	2 ==>	1	node_166
	1	node_127	1 ==>	0	node_119
187 (Palpebrals, overa) 0.667	1	node_166	1 ==>	0	node_164
	1	node_137	0 -->	1	node_136
	1	node_134	1 ==>	2	node_133
188 (Palpebral (anteri) 0.400	1	node_201	2 -->	1	node_200
	1	node_134	1 ==>	2	node_133
	1	node_160	1 -->	0	node_159
	1	node_173	1 ==>	0	node_167
	1	node_184	1 -->	0	node_183
189 (PONC Palpebral (a) 0.333	1	node_122	1 -->	2	Pholidosaurussch
	1	node_121	1 -->	0	Guarinisuchus
	1	node_138	1 -->	2	node_137
	1	node_162	1 -->	0	Bernissartia
	1	node_159	1 -->	0	node_158
	1	node_173	1 ==>	0	node_167
190 (Palpebrals, conta) 0.667	1	node_174	2 -->	0	node_173
	1	node_175	2 -->	1	Baurusuchus
	1	node_184	2 -->	0	node_183
191 (Postorbital bar,) 0.125	1	node_105	1 ==>	0	Pseudhesperosuch
	1	node_142	1 ==>	0	Stolokrosuchus
	1	node_163	1 ==>	0	node_162
	1	node_145	0 ==>	1	node_144
	1	node_147	0 ==>	1	node_146
	1	node_186	1 ==>	0	node_185
	1	node_176	0 ==>	1	node_175
	1	node_196	1 ==>	0	Anatosuchus
192 (Postorbital bar,) 0.167	1	node_199	1 ==>	0	node_198
	1	node_141	0 ==>	1	node_127
	1	node_122	1 ==>	0	Pholidosaurussch
	1	node_145	0 ==>	1	node_144

	1	node_148	0 ==>	1	node_147
	1	node_186	0 ==>	1	Libycosuchus
193 (Postorbital bar,)	0.500	node_201	1 ==>	0	node_200
	1	node_127	0 ==>	1	node_119
194 (Postorbital bar,)	0.143	node_203	0 ==>	1	Gracilisuchus
	1	node_200	0 ==>	1	node_199
	1	node_118	1 ==>	0	node_117
	1	node_127	1 ==>	0	node_126
	1	node_124	0 ==>	1	Elosuchus
	1	node_136	1 -->	0	Nannosuchus
	1	node_135	1 -->	0	node_134
195 (Postorbital bar,)	0.250	node_201	0 -->	1	node_200
	1	node_141	1 ==>	0	node_127
	1	node_124	0 ==>	1	Elosuchus
	1	node_134	1 ==>	0	node_133
196 (Postorbital bar,)	0.250	node_166	0 -->	1	node_164
	1	node_127	1 -->	0	node_119
	1	node_142	1 -->	0	Stolokrosuchus
	1	node_162	1 -->	2	Bernissartia
	1	node_144	1 -->	2	Hylaeochampsia
	1	node_147	1 -->	2	node_146
	1	node_192	0 -->	1	node_188
	1	node_195	0 -->	{12}	
					Mahajangasuchus
197 (Postorbital bar,)	0.333	node_166	0 ==>	1	node_164
	1	node_188	0 -->	1	Uberabasuchus
	1	node_189	0 -->	1	Sebecus
198 (Postorbital bar,)	0.500	node_132	1 -->	0	Goniopholisbaryg
	1	node_165	1 -->	0	Theriosuchusguim
199 (Postorbital bar,)	1.000	node_127	0 ==>	1	node_119
200 (Postorbital bar,)	0.500	node_202	0 -->	1	node_201
	1	node_199	1 -->	0	node_108
	1	node_127	1 ==>	2	node_119
	1	node_195	1 -->	2	Mahajangasuchus
201 (Postorbital bar ()	0.500	node_203	1 ==>	0	Gracilisuchus
	1	node_127	1 ==>	0	node_119
202 (Postorbital bar ()	0.143	node_122	0 -->	1	Pholidosaurussch
	1	node_124	0 -->	1	Elosuchus
	1	node_141	0 -->	1	node_140
	1	node_138	1 ==>	0	Siamosuchusphuph
	1	node_161	0 -->	1	node_160
	1	node_166	0 -->	1	node_165
	1	node_184	0 -->	1	node_183
203 (Quadratojugal, mo)	0.333	node_202	0 ==>	1	node_201
	1	node_199	1 ==>	0	node_198
	1	node_176	0 ==>	1	node_175
204 (Quadratojugal, ex)	0.250	node_151	0 -->	1	node_149
	1	node_150	0 -->	1	Voay
	1	node_156	0 ==>	1	node_155
	1	node_184	0 -->	1	node_183
205 (Maxillo-palatine)	0.667	node_140	0 -->	2	Calsoyasuchus
	1	node_139	0 -->	2	node_130
	1	node_173	0 ==>	1	node_167
206 (ORD Suborbital fe)	0.500	node_201	0 ==>	2	node_200
	1	node_199	2 -->	1	node_108
	1	node_144	2 ==>	1	Iharkutosuchus
207 (Suborbital fenest)	0.500	node_127	0 ==>	1	node_119
	1	node_145	0 ==>	1	node_144
208 (ORD Anterochoanal)	0.667	node_148	0 ==>	1	Tomistoma
	2	node_158	0 ==>	2	node_151
209 (Parachoanal fossa)	0.500	node_171	0 -->	1	node_170
	1	node_175	0 -->	1	Stratiotosuchus
210 (Palate, presence)	1.000	node_201	0 -->	1	node_200
211 (Palate, presence)	1.000	node_201	0 -->	1	node_200
212 (ORD Palate, prese)	1.000	node_201	0 -->	1	node_200
	1	node_199	1 ==>	2	node_198
213 (Palate, relation)	0.500	node_199	0 ==>	1	node_198
	1	node_128	1 -->	0	Eutretauranosuch
214 (Palate, participa)	1.000	node_168	0 -->	1	Yacararani
215 (Palate, compositi)	0.111	node_137	0 -->	1	Amphicotylusluca
	1	node_135	0 -->	1	node_134
	1	node_164	0 -->	1	node_163
	1	node_146	1 ==>	0	Gavialis
	1	node_152	1 ==>	0	Brachychampsia
	1	node_165	0 -->	1	Theriosuchuspusi
	1	node_177	0 ==>	1	node_176
	1	node_168	1 -->	0	Yacararani
	1	node_196	0 -->	1	node_195
216 (Palate, presence)	0.250	node_164	0 ==>	1	node_142
	1	node_127	1 ==>	0	node_119
	1	node_143	0 -->	1	Isisfordia
	1	node_160	0 -->	1	node_159
217 (Palate, direction)	0.182	node_164	1 -->	2	node_142
	1	node_123	2 -->	0	Sarcosuchusimper

	1	node_140	2	==>	1	Calsoyasuchus	
	1	node_163	1	-->	0	node_162	
	1	node_145	0	==>	1	Allodaposuchus	
	1	node_150	0	==>	1	Voay	
	1	node_157	0	-->	1	node_156	
	1	node_186	1	-->	2	node_185	
	1	node_180	2	-->	1	Araripesuchusgom	
	1	node_186	1	-->	0	Libycosuchus	
	1	node_188	1	-->	2	node_187	
218 (Palate, presence)	1.000	1	node_195	0	==>	1	Kaprosuchus
219 (Palate, relative)	0.167	1	node_107	0	==>	1	Hsisosuchuschowi
		1	node_123	0	-->	1	Sarcosuchusimper
		1	node_163	0	-->	1	node_162
		1	node_158	1	==>	0	node_157
		1	node_167	0	-->	1	Mariliasuchus
		1	node_173	0	-->	1	node_172
220 (Palate canals, pr)	0.500	1	node_118	0	-->	1	Pelagosaurus
		1	node_116	0	-->	1	Metriorhynchus
221 (Vomer, ventral ex)	0.200	1	node_201	1	==>	0	node_200
		1	node_122	0	==>	1	Pholidosaurusssch
		1	node_153	0	==>	1	Melanosuchus
		1	node_174	0	==>	1	node_173
		1	node_191	0	==>	1	CfHamadasuchus
222 (Palatines, progre)	0.333	1	node_150	1	==>	0	Osteolaemus
		1	node_177	1	==>	0	node_176
		1	node_168	0	-->	1	Yacarerani
223 (Palatines, propor)	0.167	1	node_166	0	==>	1	node_164
		1	node_141	1	==>	0	node_140
		1	node_135	0	==>	1	node_134
		1	node_160	1	==>	0	node_145
		1	node_152	1	==>	0	Brachychampsa
		1	node_177	0	==>	1	Malawisuchus
224 (Palatines, overal)	0.154	1	node_164	0	-->	1	node_142
		1	node_124	1	-->	2	Elosuchus
		1	node_140	1	==>	2	node_139
		1	node_137	2	==>	0	Amphicotylusluca
		1	node_134	2	==>	1	HulkeGoniopholid
		1	node_164	0	-->	2	node_163
		1	node_162	2	-->	1	Bernissartia
		1	node_160	2	==>	0	node_145
		1	node_147	2	==>	1	node_146
		1	node_148	2	==>	0	Tomistoma
		1	node_150	2	==>	1	Osteolaemus
		1	node_177	0	==>	2	Malawisuchus
		1	node_196	0	-->	2	node_195
225 (Palatines, morpho)	0.222	1	node_119	0	==>	2	node_118
		1	node_130	0	-->	1	node_128
		1	node_136	0	-->	1	node_135
		1	node_143	0	-->	1	Isisfordia
		1	node_149	0	==>	1	Crocodylusporosu
		1	node_158	0	==>	1	node_157
		1	node_178	0	-->	1	Uruguaysuchus
		1	node_188	0	-->	2	node_187
		1	node_191	0	-->	2	CfHamadasuchus
226 (Palatines, presen)	0.500	1	node_119	0	-->	1	node_109
		1	node_118	0	-->	1	node_117
227 (Palatines, heart-)	1.000	1	node_155	0	==>	1	Paleosuchus
228 (PONC Palatine bar)	1.000	1	node_176	0	-->	1	node_174
		1	node_176	0	-->	2	node_175
229 (Nasopharyngeal du)	0.200	1	node_152	0	==>	1	Brachychampsa
		1	node_198	0	-->	1	node_197
		1	node_176	1	-->	0	node_174
		1	node_178	1	-->	0	Candidodon
		1	node_180	1	==>	0	Araripesuchuspat
230 (Nasopharyngeal du)	1.000	1	node_134	0	==>	1	node_133
231 (Nasopharyngeal du)	0.500	1	node_170	0	-->	1	Sphagesaurushuen
		1	node_176	0	==>	1	node_175
232 (Anterochoanal sag)	1.000	1	node_151	0	==>	1	node_150
		1	node_168	0	==>	2	Yacarerani
233 (Choanae, size (ar)	1.000	1	node_161	1	==>	0	node_160
234 (PONC Choanae and)	0.250	1	node_162	1	-->	0	Bernissartia
		1	node_161	1	-->	0	node_160
		1	node_185	1	-->	2	node_179
		1	node_184	1	-->	2	CratoForm
		1	node_187	1	-->	2	Montealtosuchus
		1	node_191	1	-->	0	CfHamadasuchus
		1	node_196	1	-->	0	Anatosuchus
		1	node_195	1	-->	0	Kaprosuchus
235 (ORD Choanae, posi)	0.286	1	node_199	0	==>	1	node_198
		1	node_127	1	-->	2	node_119
		1	node_122	1	-->	2	node_121
		1	node_125	1	-->	2	node_124
		1	node_163	1	==>	2	node_162
		1	node_191	1	==>	2	CfHamadasuchus

	1	node_197	1 ==>	2	node_196
236 (Choanae, position)	1.000	node_161	0 ==>	1	node_160
237 (PONC Choanae, pos)	0.500	node_199	0 ==>	2	node_198
	1	node_197	2 ==>	1	node_194
	1	node_177	1 ==>	0	Malawisuchus
	1	node_191	1 ==>	2	CfHamadasuchus
238 (Choanae, shape of)	0.250	node_128	0 -->	1	Eutretauranosuch
	1	node_132	0 ==>	1	node_131
	1	node_163	0 ==>	1	Rugosuchus
	1	node_165	0 -->	1	Theriosuchuspusi
239 (Choanae, shape in)	0.500	node_152	0 -->	3	Alligatormississ
	1	node_156	0 -->	3	node_155
	1	node_157	0 -->	4	Diplocynodon
	1	node_177	0 ==>	1	node_176
	1	node_168	1 -->	0	Yacarerani
	1	node_181	0 ==>	2	node_180
	1	node_195	0 -->	2	Kaprosuchus
	1	node_195	0 -->	1	Mahajangasuchus
240 (PONC Choanae, gen)	0.154	node_141	2 ==>	1	node_127
	1	node_118	1 ==>	2	Pelagosaurus
	1	node_122	1 ==>	2	Pholidosaurussch
	1	node_162	2 -->	1	node_161
	1	node_146	1 ==>	0	Gavialis
	1	node_150	1 ==>	0	Osteolaemus
	1	node_155	1 ==>	0	node_154
	1	node_177	2 -->	1	node_176
	1	node_168	1 -->	2	Yacarerani
	1	node_184	2 ==>	1	CratoForm
	1	node_188	2 -->	1	node_187
	1	node_195	2 -->	0	Kaprosuchus
	1	node_195	2 -->	1	Mahajangasuchus
241 (Choanae, orientat)	0.143	node_198	1 ==>	0	node_166
	1	node_123	0 -->	1	Sarcosuchusimper
	1	node_148	0 ==>	1	node_147
	1	node_151	0 ==>	1	node_149
	1	node_157	0 ==>	1	Diplocynodon
	1	node_191	1 ==>	0	CfHamadasuchus
	1	node_195	1 ==>	0	Kaprosuchus
242 (PONC Choanae, par)	0.500	node_199	0 ==>	1	node_198
	1	node_122	1 ==>	2	node_121
	1	node_125	1 ==>	2	node_124
	1	node_164	1 ==>	2	node_163
	1	node_162	2 ==>	3	node_161
	1	node_195	1 ==>	2	Mahajangasuchus
243 (Choanae, presence)	1.000	node_161	0 ==>	1	node_160
244 (Interchoanal sept)	0.250	node_127	1 ==>	0	node_119
	1	node_161	1 ==>	0	node_160
	1	node_147	0 ==>	1	Eosuchus
	1	node_158	0 ==>	1	node_157
245 (Interchoanal (nas))	0.250	node_140	0 ==>	1	Calsoyasuchus
	1	node_134	0 ==>	1	HulkeGoniopholid
	1	node_165	0 -->	1	Theriosuchuspusi
	1	node_197	0 ==>	1	node_196
246 (Interchoanal sept)	0.250	node_168	0 -->	1	Yacarerani
	1	node_181	0 -->	1	node_180
	1	node_182	0 -->	1	Araripesuchusbui
	1	node_195	0 ==>	1	Kaprosuchus
247 (Interchoanal sept)	0.333	node_124	0 -->	{12}	Elosuchus
	1	node_174	0 -->	1	node_173
	1	node_169	1 -->	2	Sphagesaurusmont
	1	node_175	0 -->	1	Stratitotosuchus
	1	node_183	0 ==>	1	node_182
	1	node_196	0 -->	1	node_195
248 (Interchoanal sept)	0.600	node_124	0 -->	1	Elosuchus
	1	node_167	0 -->	3	Mariliasuchus
	1	node_182	0 ==>	1	node_181
	1	node_195	0 -->	3	Kaprosuchus
	1	node_195	0 -->	2	Mahajangasuchus
249 (Perichoanal ridge)	0.333	node_149	0 -->	1	Crocodylusporosu
	1	node_151	0 -->	1	node_150
	1	node_153	0 ==>	1	Melanosuchus
250 (Perichoanal ridge)	0.500	node_150	0 ==>	1	Voay
	1	node_158	0 ==>	1	node_157
251 (Perichoanal ridge)	1.000	node_151	0 ==>	1	node_150
252 (Ectopterygoid, re)	0.333	node_161	1 ==>	0	node_160
	1	node_158	0 ==>	1	node_157
	1	node_186	1 ==>	0	Libycosuchus
253 (Ectopterygoid, pr)	1.000	node_200	0 ==>	1	node_199
254 (Ectopterygoid, mo)	0.500	node_173	0 ==>	1	node_167
	1	node_176	0 ==>	1	node_175
255 (Ectopterygoid, de)	0.500	node_167	0 ==>	1	Notosuchus
	1	node_176	0 ==>	1	node_175
256 (Ectopterygoid, mo)	0.333	node_197	0 -->	1	node_194
	1	node_177	1 -->	0	node_176

257 (Ectopterygoid, le) 0.250	1	node_196 0 --> 1 node_195
	1	node_162 1 ==> 0 Bernissartia
	1	node_146 1 ==> 0 Gavialis
	1	node_189 1 --> 0 Sebecus
	1	node_195 1 ==> 0 Mahajangasuchus
258 (Pterygoids, fusio) 0.500	1	node_200 0 ==> 1 node_199
	1	node_112 1 --> 0 Dakosaurusandini
259 (Pterygoid, partic) 0.500	1	node_108 0 --> 1 node_107
	1	node_177 0 ==> 1 node_176
260 (Pterygoid, presen) 0.500	1	node_177 0 ==> 1 node_176
	1	node_167 1 ==> 0 Mariliasuchus
261 (ORD Pterygoid ven) 0.286	1	node_200 1 ==> 0 Gobiosuchus
	1	node_127 1 ==> 0 node_119
	1	node_144 1 --> 0 Iharkutosuchus
	1	node_146 1 ==> 0 Gavialis
	1	node_176 1 ==> 2 node_175
	1	node_192 1 ==> 2 node_191
	1	node_196 1 ==> 2 node_195
262 (Pterygoid ventral) 0.500	1	node_199 0 ==> 1 node_108
	1	node_197 0 ==> 1 node_196
263 (Pterygoid ventral) 0.333	1	node_109 0 ==> 1 Steneosaurusherb
	1	node_144 0 --> 1 Iharkutosuchus
	1	node_185 0 ==> 1 node_179
264 (Pterygoid ventral) 0.250	1	node_148 0 --> 1 Tomistoma
	1	node_159 0 --> 1 node_158
	1	node_176 0 ==> 1 node_175
	1	node_193 0 --> 1 node_192
265 (Pterygoid ventral) 0.200	1	node_166 0 ==> 1 node_164
	1	node_127 1 ==> 0 node_119
	1	node_144 1 ==> 0 Iharkutosuchus
	1	node_171 0 --> 1 node_170
	1	node_191 0 --> 1 CfHamadasuchus
266 (PONC Supraoccipit) 0.500	1	node_109 0 ==> 1 Steneosaurusherb
	1	node_122 0 ==> 2 node_121
	1	node_144 0 --> 1 Hylaeochampsia
	1	node_148 0 ==> 1 Tomistoma
267 (Supraoccipital, m) 1.000	1	node_122 0 ==> 1 node_121
268 (Exoccipitals, ove) 1.000	1	node_148 0 ==> 1 node_147
	1	node_156 0 ==> 2 node_155
269 (Exoccipitals, pre) 0.250	1	node_201 0 --> 1 node_106
	1	node_200 0 --> 1 Gobiosuchus
	1	node_127 0 ==> 1 node_119
	1	node_174 0 --> 1 node_173
270 (Exoccipitals, pre) 1.000	1	node_203 0 ==> 1 node_202
271 (Exoccipitals, pre) 1.000	1	node_199 0 ==> 1 node_108
272 (Exoccipitals, par) 0.500	1	node_108 0 ==> 1 node_107
	1	node_122 0 ==> 1 node_121
273 (Exoccipital, pres) 0.333	1	node_201 0 ==> 1 node_106
	1	node_132 0 --> 1 Goniopholisbaryg
	1	node_183 0 ==> 1 Araripesuchustsa
274 (Exoccipital, exte) 1.000	1	node_201 0 ==> 1 node_200
275 (Exoccipital, pres) 1.000	1	node_203 0 ==> 1 node_202
276 (Exoccipital, pres) 0.333	1	node_201 1 --> 0 node_106
	1	node_118 1 ==> 0 Pelagosaurus
	1	node_163 1 ==> 0 Rugosuchus
277 (Exoccipitals, pre) 0.200	1	node_141 0 --> 1 node_127
	1	node_118 1 ==> 0 Pelagosaurus
	1	node_139 0 --> 1 node_138
	1	node_162 0 ==> 1 Bernissartia
	1	node_160 0 ==> 1 node_145
278 (Exoccipitals, elo) 0.333	1	node_160 0 ==> 1 node_159
	1	node_191 0 ==> 1 CfHamadasuchus
	1	node_195 0 --> 1 Mahajangasuchus
279 (Exoccipital, proj) 0.500	1	node_202 1 --> 0 node_201
	1	node_122 0 ==> 1 node_121
280 (Exoccipital, morp) 1.000	1	node_122 0 ==> 1 node_121
281 (Crista interfenes) 1.000	1	node_201 0 --> 1 node_200
282 (Mastoid antrum, e) 1.000	1	node_141 1 ==> 0 node_127
283 (Lateral carotid f) 0.500	1	node_148 0 ==> 1 Tomistoma
	1	node_158 0 ==> 1 node_151
284 (Anterior foramen) 1.000	1	node_147 1 ==> 0 node_146
285 (Laterosphenoid, o) 0.500	1	node_161 0 --> 1 node_160
	1	node_147 1 --> 0 node_146
286 (ORD Basisphenoid,) 0.400	1	node_200 2 ==> 1 node_199
	1	node_166 1 ==> 0 node_164
	2	node_127 0 ==> 2 node_119
	1	node_121 0 ==> 1 Guarinisuchus
287 (Basioccipital, cr) 1.000	1	node_122 0 ==> 1 node_121
288 (Basioccipital, pr) 0.333	1	node_127 0 ==> 1 node_119
	1	node_122 0 ==> 1 node_121
	1	node_146 0 ==> 1 Gavialis
289 (Basipterygoid pro) 1.000	1	node_203 0 --> 1 node_105
290 (Eustachian tubes,) 1.000	1	node_105 1 --> 0 Sphenosuchus
291 (ORD Quadrate, ori) 0.333	1	node_203 0 ==> 1 node_202

	1	node_198	1 ==>	2	node_166	
	1	node_117	2 -->	1	node_111	
	2	node_112	2 -->	0	Dakosaurusandini	
	1	node_176	1 ==>	0	node_175	
292 (ORD Quadrate, ori)	0.286	2	node_200	0 ==>	2	node_199
		2	node_127	2 ==>	0	node_119
		1	node_194	2 -->	1	node_186
		1	node_192	2 -->	1	node_188
		1	node_196	2 -->	1	Anatosuchus
293 (Quadrate, orienta)	0.200	1	node_105	0 ==>	1	Pseudhesperosuch
		1	node_144	0 -->	1	Iharkutosuchus
		1	node_194	0 -->	1	node_186
		1	node_187	0 -->	1	Montealtosuchus
		1	node_191	0 -->	1	node_190
294 (Quadrate, presenc)	0.167	1	node_202	0 ==>	1	node_201
		1	node_166	1 ==>	0	node_164
		1	node_128	0 -->	1	Sunosuchusjungga
		1	node_148	0 -->	1	Tomistoma
		1	node_159	0 -->	1	node_158
		1	node_195	1 -->	0	Mahajangasuchus
295 (Quadrate, presenc)	0.250	1	node_105	1 -->	0	Sphenosuchus
		1	node_199	1 ==>	0	node_198
		1	node_173	0 ==>	1	node_167
		1	node_181	0 ==>	1	Araripesuchusweg
296 (Quadrate, structu)	0.500	1	node_198	1 ==>	0	node_166
		1	node_175	1 -->	0	Baurusuchus
297 (Quadrate, morphol)	0.500	1	node_200	0 ==>	1	node_199
		1	node_127	1 ==>	0	node_119
298 (Quadrate, articul)	0.500	1	node_203	0 ==>	1	node_202
		1	node_127	1 ==>	0	node_119
299 (Quadrate, positio)	0.667	1	node_131	0 -->	2	GoniopholisDORCM
		1	node_158	0 ==>	1	node_157
		1	node_192	0 ==>	1	node_191
300 (Quadrate condyle,)	1.000	1	node_179	0 ==>	1	node_177
301 (Quadrate condyle,)	0.500	1	node_148	0 ==>	1	Tomistoma
		1	node_158	0 ==>	1	node_151
302 (External auditory)	1.000	1	node_160	0 ==>	1	node_159
303 (External auditory)	1.000	1	node_162	1 -->	0	node_161
304 (External auditory)	1.000	1	node_157	0 ==>	1	node_156
305 (Otic aperture, mo)	0.500	1	node_148	0 -->	1	Tomistoma
		1	node_159	0 -->	1	node_158
306 (Cranioquadrate ca)	1.000	1	node_201	0 ==>	2	node_200
		1	node_118	2 ==>	1	node_117
307 (Cranioquadrate ca)	0.429	1	node_199	0 ==>	3	node_198
		1	node_127	3 ==>	1	node_119
		1	node_122	3 ==>	0	Pholidosaurus
		1	node_138	3 -->	0	node_137
		1	node_160	3 ==>	0	node_145
		1	node_185	3 ==>	2	node_179
		1	node_196	3 ==>	0	Anatosuchus
308 (Cranioquadrate ca)	1.000	1	node_160	0 ==>	1	node_159
309 (Cranioquadrate pa)	0.333	1	node_164	0 ==>	1	node_142
		1	node_127	1 ==>	0	node_119
		1	node_162	0 ==>	1	Bernissartia
310 (Oral symphyseal f)	1.000	1	node_171	0 -->	1	node_170
311 (Posteroventral sy)	1.000	1	node_121	0 ==>	1	node_120
312 (External mandibul)	0.167	1	node_201	2 -->	0	node_200
		1	node_199	0 -->	2	node_198
		1	node_118	2 -->	0	node_117
		1	node_120	2 -->	1	Dyrosaurusmaghri
		1	node_123	2 -->	1	Sarcosuchusimper
		1	node_136	2 -->	0	node_135
		1	node_131	0 -->	1	Goniopholissimus
		1	node_164	2 -->	0	node_163
		1	node_143	0 -->	2	Isisfordia
		1	node_160	0 -->	2	node_159
		1	node_165	2 -->	0	Theriosuchuspusi
		1	node_183	2 ==>	1	Araripesuchustsa
313 (PONC External man)	0.143	1	node_203	1 ==>	0	Gracilisuchus
		1	node_201	1 ==>	0	node_200
		1	node_119	0 ==>	2	node_109
		1	node_118	0 ==>	1	Pelagosaurus
		1	node_125	0 ==>	2	node_124
		1	node_139	0 ==>	1	node_130
		1	node_143	0 -->	{12}	Isisfordia
		1	node_160	0 -->	1	node_159
		1	node_146	1 -->	2	Piscogavialis
		1	node_147	1 -->	2	Eosuchus
		1	node_197	0 ==>	1	node_194
		1	node_167	1 ==>	2	Notosuchus
		1	node_177	1 ==>	2	Malawisuchus
		1	node_189	1 -->	0	Sebecus
314 (External mandibul)	0.100	1	node_203	1 -->	0	Gracilisuchus
		1	node_201	1 -->	0	node_106

	1	node_127	1	==>	0	node_119
	1	node_124	1	==>	0	Vectisuchus
	1	node_165	1	-->	0	Theriosuchusguim
	1	node_194	1	-->	0	node_186
	1	node_167	0	-->	1	Mariliasuchus
	1	node_168	0	-->	1	Adamantinasuchus
	1	node_176	0	-->	1	node_175
	1	node_183	0	==>	1	Araripesuchustsa
315 (External mandibul)	0.417	node_203	0	==>	2	Gracilisuchus
	1	node_106	0	==>	5	Protosuchus
	1	node_119	0	-->	1	node_109
	1	node_118	0	-->	2	Pelagosaurus
	1	node_124	0	==>	1	Vectisuchus
	1	node_130	0	==>	4	node_129
	1	node_131	0	-->	1	Goniopholisissimus
	1	node_198	0	==>	3	node_197
	1	node_177	3	-->	0	node_176
	1	node_167	0	==>	1	Notosuchus
	1	node_178	3	-->	0	Uruguaysuchus
	1	node_183	3	-->	0	Araripesuchustsa
316 (External mandibul)	0.167	node_203	0	==>	1	Gracilisuchus
	1	node_118	0	-->	1	Pelagosaurus
	1	node_130	0	==>	1	node_129
	1	node_198	0	==>	1	node_197
	1	node_185	1	-->	0	node_179
	1	node_183	1	-->	0	Araripesuchustsa
317 (Mandible, presenc)	0.125	node_198	0	==>	1	node_166
	1	node_118	1	==>	0	node_117
	1	node_121	1	-->	0	node_120
	1	node_125	1	==>	0	node_123
	1	node_144	1	-->	0	Iharkutosuchus
	1	node_148	1	==>	0	node_147
	1	node_176	0	==>	1	node_175
	1	node_194	0	==>	1	node_193
318 (Mandible, presenc)	0.222	node_140	0	-->	1	node_139
	1	node_162	0	==>	2	Bernissartia
	1	node_159	0	==>	2	node_158
	1	node_166	0	==>	2	node_165
	1	node_198	0	==>	1	node_197
	1	node_174	1	-->	0	node_173
	1	node_176	1	-->	0	node_175
	1	node_186	1	==>	0	Libycosuchus
	1	node_190	1	==>	0	node_189
319 (Mandible, overall)	0.333	node_157	0	==>	1	node_156
	1	node_174	0	==>	1	Comahuesuchus
	1	node_197	0	==>	1	node_196
320 (Mandible, orienta)	0.200	node_144	0	-->	1	Iharkutosuchus
	1	node_157	0	==>	1	node_156
	1	node_176	0	==>	1	node_174
	1	node_186	0	==>	1	Libycosuchus
	1	node_197	0	==>	1	node_196
321 (Mandible, morphol)	1.000	node_174	0	==>	1	node_173
322 (ORD Mandible, ven)	0.250	node_201	0	-->	1	node_200
	1	node_132	1	==>	2	Goniopholisbaryg
	1	node_133	1	==>	2	HooleyGoniopholi
	1	node_144	1	-->	2	Iharkutosuchus
	1	node_152	1	==>	0	Brachychamps
	1	node_179	1	==>	0	node_177
	1	node_188	1	==>	2	Uberabasuchus
	1	node_197	1	==>	0	node_196
323 (Mandible, morphol)	0.250	node_198	0	==>	1	node_166
	1	node_118	1	==>	0	node_117
	1	node_194	0	==>	1	node_193
	1	node_187	1	-->	0	Montealtosuchus
324 (PONC Mandible, do)	0.286	node_140	1	-->	0	node_139
	1	node_147	1	==>	0	node_146
	1	node_165	1	-->	0	Theriosuchusguim
	1	node_179	1	-->	2	node_177
	1	node_178	1	-->	0	Uruguaysuchus
	1	node_194	1	-->	2	node_193
	1	node_190	2	-->	0	Caririsuchus
325 (Mandible, presenc)	0.333	node_118	0	==>	1	node_117
	1	node_144	0	-->	1	Iharkutosuchus
	1	node_148	0	==>	1	Tomistoma
326 (Mandible, relatio)	1.000	node_159	1	==>	0	node_148
327 (Mandible, positio)	1.000	node_156	0	==>	1	node_155
328 (Mandible, morphol)	0.167	node_105	0	-->	1	Sphenosuchus
	1	node_148	0	==>	1	Tomistoma
	1	node_151	0	-->	1	node_149
	1	node_150	0	-->	1	Osteolaemus
	1	node_156	0	==>	1	node_155
	1	node_195	0	==>	1	Kaprosuchus
329 (Mandible, presenc)	0.333	node_133	0	-->	1	DolloGoniopholid
	1	node_162	0	-->	1	Bernissartia

	1	node_159	0	-->	1	node_158	
330 (Mandible, presenc)	0.250	1	node_121	0	==>	1	Congosaurus
		1	node_158	0	==>	1	node_151
		1	node_193	0	==>	1	node_192
		1	node_196	0	==>	1	node_195
331 (Symphysis, orient)	0.167	1	node_203	1	==>	0	Gracilisuchus
		1	node_201	1	-->	0	node_200
		1	node_167	0	==>	1	Notosuchus
		1	node_175	0	-->	1	Baurusuchus
		1	node_186	0	==>	1	Libycosuchus
		1	node_197	0	==>	1	node_196
332 (PONC Symphysis, 1)	0.200	1	node_107	0	-->	1	Hsisosuchuschowii
		1	node_141	0	==>	2	node_127
		1	node_115	2	-->	1	node_114
		1	node_139	0	==>	1	node_130
		1	node_159	0	==>	2	node_148
		1	node_165	0	==>	1	Theriosuchusguim
		1	node_186	0	-->	1	node_185
		1	node_174	1	==>	0	Comahuesuchus
		1	node_181	1	==>	0	Araripesuchusweg
		1	node_194	0	-->	1	node_193
333 (Symphysis, morpho)	0.300	1	node_142	0	-->	1	node_141
		1	node_119	1	==>	0	node_118
		1	node_121	1	-->	3	node_120
		1	node_125	1	-->	2	node_123
		1	node_163	0	-->	1	Rugosuchus
		1	node_147	0	-->	3	node_146
		1	node_148	0	-->	3	Tomistoma
		1	node_151	0	==>	1	node_149
		1	node_175	0	-->	1	Baurusuchus
334 (Symphysis, morpho)	0.500	1	node_194	0	==>	1	node_193
		1	node_175	0	-->	1	Baurusuchus
335 (Symphysis, presen)	0.167	1	node_180	0	-->	1	Araripesuchusgom
		1	node_194	0	-->	1	node_186
		1	node_169	1	-->	0	Sphagesaurusmont
		1	node_175	1	-->	0	Baurusuchus
		1	node_180	1	-->	0	Araripesuchusgom
		1	node_181	1	-->	0	Araripesuchusweg
		1	node_192	0	-->	1	node_188
336 (ORD Symphysis, sh)	0.200	1	node_198	2	==>	1	node_166
		1	node_119	1	-->	2	node_118
		1	node_125	1	==>	0	node_123
		1	node_144	1	-->	2	Iharkutosuchus
		1	node_147	1	-->	2	Eosuchus
		1	node_148	1	-->	2	Tomistoma
		1	node_176	2	==>	1	node_175
		1	node_181	2	==>	1	Araripesuchusweg
		1	node_192	2	-->	1	node_188
		1	node_193	2	-->	1	FRAGSMNS81977
337 (Dentary, presence)	1.000	1	node_151	0	==>	2	node_149
		1	node_195	0	==>	1	Mahajangasuchus
338 (Dentary, morpholo)	0.143	1	node_203	2	==>	0	Gracilisuchus
		1	node_199	2	==>	0	node_108
		1	node_141	2	-->	0	node_127
		1	node_109	0	-->	1	Steneosaurusherb
		1	node_120	0	-->	2	Dyrosaurusmaghri
		1	node_164	2	-->	0	node_163
		1	node_162	0	-->	2	node_161
		1	node_144	2	-->	1	Iharkutosuchus
		1	node_146	2	-->	0	Gavialis
		1	node_174	2	-->	1	node_173
		1	node_169	1	-->	0	Sphagesaurusmont
		1	node_175	2	-->	0	Baurusuchus
		1	node_183	2	==>	0	Araripesuchustsa
		1	node_195	2	==>	0	Mahajangasuchus
339 (Dentary, morpholo)	0.250	1	node_180	0	-->	1	Araripesuchusgom
		1	node_192	0	-->	1	node_188
		1	node_196	0	-->	1	Anatosuchus
		1	node_195	0	-->	1	Mahajangasuchus
340 (Dentary distal en)	0.167	1	node_203	0	-->	1	node_202
		1	node_119	1	==>	0	node_118
		1	node_162	1	==>	0	Bernissartia
		1	node_177	1	==>	0	node_176
		1	node_182	1	==>	0	Araripesuchusbui
		1	node_187	1	-->	0	Montealtosuchus
341 (Splenials, genera)	0.167	1	node_123	0	-->	1	Sarcosuchusimper
		1	node_140	0	-->	1	node_139
		1	node_142	0	-->	1	Stolokrosuchus
		1	node_198	0	==>	1	node_197
		1	node_167	1	-->	0	Notosuchus
		1	node_184	1	-->	0	node_183
342 (Splenials, involv)	0.250	1	node_200	0	==>	1	node_199
		1	node_144	1	-->	0	Iharkutosuchus
		1	node_159	1	-->	0	node_158

	1	node_195	1 ==>	0	Mahajangasuchus
343 (PONC Splenials, e) 0.286	1	node_200	0 ==>	1	node_199
	1	node_141	1 ==>	2	node_127
	1	node_163	1 ==>	0	node_162
	1	node_159	0 ==>	1	node_148
	1	node_147	1 ==>	2	node_146
	1	node_176	1 ==>	0	node_174
	1	node_197	1 ==>	0	node_196
344 (Splenials, morpho) 0.167	1	node_133	0 -->	1	HooleyGoniopholi
	1	node_176	0 ==>	1	node_174
	1	node_182	0 ==>	1	Araripesuchusbui
	1	node_186	0 ==>	1	Libycosuchus
	1	node_188	0 ==>	1	Uberabasuchus
	1	node_196	0 -->	1	Anatosuchus
345 (Splenial, partici) 0.333	1	node_144	0 -->	1	Iharkutosuchus
	1	node_186	0 -->	1	node_185
	1	node_187	0 -->	1	Montealtosuchus
346 (Surangular, exten) 0.077	1	node_105	0 ==>	1	Sphenosuchus
	1	node_107	0 -->	1	Hsisosuchuschowii
	1	node_127	0 -->	1	node_119
	1	node_114	1 ==>	0	node_112
	1	node_123	0 -->	1	Sarcosuchusimper
	1	node_124	0 -->	1	Elosuchus
	1	node_130	0 -->	1	node_129
	1	node_131	0 -->	1	Goniopholissimus
	1	node_168	0 ==>	1	Yacararani
	1	node_174	0 ==>	1	Comahuesuchus
	1	node_184	0 -->	1	CratoForm
	1	node_186	0 -->	1	Libycosuchus
	1	node_193	0 -->	1	node_192
347 (Surangular, propo) 0.500	1	node_197	0 -->	1	node_194
	1	node_183	1 -->	0	Araripesuchustsa
348 (Surangular, morph) 0.111	1	node_117	0 ==>	1	node_116
	1	node_126	0 ==>	1	node_125
	1	node_130	0 ==>	1	node_128
	1	node_135	0 ==>	1	node_132
	1	node_143	0 -->	1	Isisfordia
	1	node_160	0 -->	1	node_159
	1	node_198	0 ==>	1	node_197
	1	node_172	1 ==>	0	node_168
	1	node_177	1 ==>	0	Malawisuchus
349 (PONC Surangular,) 0.250	1	node_117	0 ==>	2	node_116
	1	node_114	2 ==>	1	node_112
	1	node_158	0 ==>	1	node_157
	1	node_173	0 -->	2	node_167
	1	node_169	0 -->	2	Sphagesaurusmont
	1	node_176	0 ==>	1	node_175
	1	node_188	0 ==>	1	Uberabasuchus
	1	node_195	0 ==>	1	Kaprosuchus
350 (Surangular, prese) 0.200	1	node_199	1 ==>	0	node_198
	1	node_123	0 -->	1	Sarcosuchusimper
	1	node_158	0 ==>	1	node_151
	1	node_156	0 ==>	1	node_155
	1	node_175	0 -->	1	Baurusuchus
351 (PONC Coronoid, re) 1.000	1	node_155	0 -->	1	node_154
	1	node_155	0 -->	2	Paleosuchus
352 (Coronoid, morphol) 0.500	1	node_159	1 -->	0	node_148
	1	node_155	1 ==>	0	node_154
353 (Angular, presence) 0.250	1	node_127	0 ==>	1	node_126
	1	node_160	0 ==>	1	node_159
	1	node_194	0 -->	1	node_186
	1	node_197	0 -->	1	node_196
354 (Prearticular, pre) 0.500	1	node_201	1 -->	0	node_200
	1	node_119	0 -->	1	node_118
355 (Mandiblular gleno) 1.000	1	node_186	0 ==>	1	node_185
356 (PONC Mandibular g) 0.667	1	node_194	2 ==>	1	node_186
	1	node_179	1 ==>	0	node_177
	1	node_176	0 ==>	2	node_175
357 (Mandibular glenoi) 0.250	1	node_122	0 ==>	1	node_121
	1	node_189	0 -->	1	Sebecus
	1	node_196	0 -->	1	Anatosuchus
	1	node_195	0 -->	1	Mahajangasuchus
358 (Retroarticular pr) 1.000	1	node_201	0 ==>	1	node_200
359 (ORD Retroarticula) 0.222	1	node_199	0 -->	1	node_198
	1	node_118	1 ==>	0	node_117
	1	node_115	0 ==>	1	Dakosauruscarpen
	1	node_122	1 ==>	2	node_121
	1	node_123	1 -->	0	Sarcosuchusimper
	1	node_140	1 -->	0	node_139
	1	node_162	1 -->	0	Bernissartia
	1	node_194	1 -->	0	node_186
	1	node_183	0 ==>	1	Araripesuchustsa
360 (ORD Retroarticula) 0.222	1	node_198	0 ==>	1	node_166
	1	node_127	1 -->	2	node_119

	1	node_126	1 --> 2	node_122
	1	node_124	1 --> 2	Elosuchus
	1	node_160	1 --> 2	node_159
	1	node_184	0 ==> 1	node_183
	2	node_194	0 ==> 2	node_193
	1	node_195	0 ==> 1	Mahajangasuchus
361 (Retroarticular pr) 0.250	1	node_122	0 ==> 1	node_121
	1	node_159	0 ==> 1	node_148
	1	node_151	0 ==> 1	node_149
	1	node_188	0 ==> 1	Uberabasuchus
362 (Retroarticular pr) 0.500	1	node_198	1 --> 0	node_166
	1	node_194	1 ==> 0	node_193
363 (Retroarticular pr) 0.286	1	node_198	2 --> 0	node_166
	1	node_126	0 --> 1	node_122
	1	node_124	0 --> 1	Vectisuchus
	1	node_163	0 ==> 1	Rugosuchus
	1	node_181	2 --> 1	node_180
	1	node_183	2 --> 0	Araripesuchustsa
	1	node_193	2 --> 1	node_192
364 (Retroarticular pr) 0.333	1	node_127	0 ==> 1	node_119
	1	node_122	0 ==> 1	node_121
	1	node_160	0 --> 1	node_159
365 (Retroarticular pr) 1.000	1	node_122	0 ==> 1	node_121
366 (Retroarticular pr) 1.000	1	node_158	0 ==> 1	node_157
367 (Dentition, relati) 1.000	1	node_168	0 ==> 1	Yacararani
368 (PONC Posterior ma) 0.222	1	node_200	0 ==> 1	Gobiosuchus
	1	node_164	0 ==> 1	node_142
	1	node_115	1 ==> 0	node_114
	1	node_161	0 ==> 1	node_160
	1	node_174	0 ==> 2	node_173
	1	node_181	0 ==> 1	node_180
	1	node_188	0 ==> 1	Uberabasuchus
	1	node_191	0 ==> 1	CfHamadasuchus
	1	node_196	0 ==> 1	Anatosuchus
369 (PONC Mid to poste) 0.286	1	node_200	0 ==> 1	Gobiosuchus
	1	node_142	0 --> 1	node_141
	1	node_115	1 --> 0	node_114
	1	node_161	0 ==> 1	node_160
	1	node_171	0 --> 2	node_170
	1	node_188	0 ==> 1	Uberabasuchus
	1	node_196	0 ==> 1	Anatosuchus
370 (Dentition, presen) 1.000	1	node_114	0 ==> 1	node_113
371 (Dentition, presen) 0.333	1	node_199	0 ==> 1	node_108
	1	node_114	0 ==> 1	node_113
	1	node_191	0 ==> 1	node_190
372 (Dentition, presen) 0.500	1	node_177	0 --> 1	Malawisuchus
	1	node_179	0 --> 1	node_178
373 (Anterior to mid d) 0.167	1	node_122	0 --> 1	Pholidosaurussch
	1	node_126	0 --> 1	node_125
	1	node_139	0 ==> 1	node_138
	1	node_136	1 ==> 0	Nannosuchus
	1	node_144	0 ==> 1	Iharkutosuchus
	1	node_188	0 ==> 1	Uberabasuchus
374 (Mid to posterior) 1.000	1	node_172	0 ==> 1	node_171
375 (Mid to posterior) 0.500	1	node_142	0 --> 2	node_141
	1	node_119	2 ==> 0	node_118
	1	node_115	0 ==> 2	Dakosauruscarpen
	1	node_125	2 ==> 3	node_123
	1	node_162	0 ==> {13}	Bernissartia
	1	node_145	0 ==> 1	Allodaposuchus
	1	node_159	0 ==> 1	node_148
	1	node_167	0 ==> 4	Mariliasuchus
376 (Mid to posterior) 0.500	1	node_167	0 ==> 1	Notosuchus
	1	node_172	0 ==> 1	node_171
377 (Mid to posterior) 1.000	1	node_144	0 --> 2	Iharkutosuchus
	1	node_177	0 ==> 1	Malawisuchus
378 (Carinae, presence) 0.125	1	node_111	1 ==> 0	node_110
	1	node_162	1 ==> 0	Bernissartia
	1	node_144	1 --> 0	Iharkutosuchus
	1	node_165	1 --> 0	Theriosuchuspusi
	1	node_186	1 --> 0	node_185
	1	node_168	0 ==> 1	Yacararani
	1	node_176	0 ==> 1	node_175
	1	node_193	1 --> 0	FRAGSMNS81977
379 (PONC Carinae (mid) 0.250	1	node_202	0 --> 1	node_201
	1	node_199	1 --> 0	node_108
	1	node_115	1 ==> 0	node_114
	1	node_174	1 ==> 2	node_173
	1	node_176	1 ==> 0	node_175
	1	node_182	1 --> 0	node_181
	1	node_193	1 ==> 0	node_192
	1	node_195	1 --> 0	Mahajangasuchus
380 (Carinae (maxillae) 0.333	1	node_167	0 --> 1	Notosuchus
	1	node_168	0 --> 1	Yacararani

	1	node_172	0	-->	1	node_171
381 (Carinae (mid-post))	0.500	node_168	0	-->	1	Yacarerani
	1	node_171	0	-->	1	node_170
382 (Occlusion, relati)	0.143	node_203	0	==>	1	Gracilisuchus
	1	node_107	0	-->	1	Hsisosuchuschowii
	1	node_194	0	-->	1	node_186
	1	node_177	1	==>	0	node_176
	1	node_183	1	==>	0	Araripesuchustsa
	1	node_192	0	-->	1	node_188
383 (Occlusion, relati)	0.200	node_196	0	-->	1	Anatosuchus
	1	node_142	1	-->	0	node_141
	1	node_161	1	==>	0	node_160
	1	node_157	0	==>	1	node_156
	1	node_173	1	==>	0	node_172
384 (Occlusion, relati)	0.167	node_195	1	-->	0	Kaprosuchus
	1	node_141	1	-->	0	node_127
	1	node_139	1	-->	0	node_138
	1	node_161	1	==>	0	node_160
	1	node_151	0	==>	1	node_150
	1	node_157	0	==>	1	node_156
385 (Premaxillary teet)	0.143	node_173	1	==>	0	node_172
	1	node_199	0	-->	1	node_198
	1	node_118	1	==>	0	node_117
	1	node_122	1	-->	0	node_121
	1	node_143	1	-->	0	Isisfordia
	1	node_144	1	-->	0	Iharkutosuchus
	1	node_147	1	-->	0	node_146
	1	node_148	1	-->	0	Tomistoma
	1	node_177	1	-->	2	node_176
	1	node_174	2	==>	0	Comahuesuchus
	1	node_180	1	==>	0	Araripesuchusgom
	1	node_184	1	==>	0	CratoForm
	1	node_188	1	==>	2	Uberabasuchus
	1	node_196	1	-->	0	Anatosuchus
	1	node_195	1	-->	2	Kaprosuchus
386 (Premaxillary enla)	0.500	node_123	0	-->	1	Sarcosuchusimper
	1	node_174	0	==>	1	node_173
387 (Premaxillary alve)	0.143	node_107	0	-->	1	Hsisosuchuschowii
	1	node_123	0	-->	1	Sarcosuchusimper
	1	node_137	0	==>	1	Amphicotylusluca
	1	node_152	0	==>	1	Brachychampsia
	1	node_177	0	==>	1	Malawisuchus
	1	node_182	0	-->	1	Araripesuchusbui
	1	node_183	0	-->	1	Araripesuchustsa
388 (Premaxillary alve)	0.500	node_107	0	-->	1	Hsisosuchuschowii
	1	node_123	0	-->	1	Sarcosuchusimper
389 (Premaxillary alve)	1.000	node_192	0	==>	1	node_188
390 (Premaxillary alve)	0.250	node_125	0	==>	1	node_123
	1	node_144	0	-->	1	Iharkutosuchus
	1	node_186	0	==>	1	Libycosuchus
	1	node_197	0	==>	1	node_196
391 (PONC Last premaxi)	0.333	node_126	1	==>	2	node_125
	1	node_139	1	==>	2	node_138
	1	node_174	1	==>	0	Comahuesuchus
	1	node_185	1	-->	0	node_184
	1	node_186	1	-->	0	Libycosuchus
	1	node_196	1	==>	0	Anatosuchus
392 (Maxillary dentiti)	0.154	node_201	1	-->	0	node_106
	1	node_200	1	-->	0	Gobiosuchus
	1	node_141	1	==>	0	node_127
	1	node_124	0	==>	1	Elosuchus
	1	node_161	1	==>	0	node_143
	1	node_144	1	-->	0	Iharkutosuchus
	1	node_148	1	==>	0	node_147
	1	node_185	1	==>	2	node_179
	1	node_174	2	-->	0	node_173
	1	node_174	2	-->	1	Comahuesuchus
	1	node_192	1	-->	2	node_188
	1	node_191	1	-->	2	CfHamadasuchus
	1	node_195	1	==>	2	Kaprosuchus
393 (Maxillary dentiti)	0.273	node_139	0	==>	1	node_138
	1	node_136	1	==>	0	Nannosuchus
	1	node_162	0	==>	1	Bernissartia
	1	node_145	0	-->	1	Allodaposuchus
	1	node_145	0	-->	2	node_144
	1	node_166	0	==>	2	node_165
	1	node_186	0	-->	2	node_185
	1	node_177	2	==>	0	node_176
	1	node_174	0	==>	3	node_173
	1	node_193	0	-->	1	node_192
	1	node_190	1	==>	0	node_189
394 (PONC Maxillary to)	0.200	node_203	1	-->	2	node_202
	1	node_199	2	==>	0	node_108
	1	node_115	2	-->	0	node_114

	1	node_123	2	-->	1	Sarcosuchusimper	
	1	node_142	2	==>	1	Stolokrosuchus	
	1	node_177	2	-->	0	node_176	
	1	node_174	0	==>	1	node_173	
	1	node_184	2	==>	{01}	CratoForm	
	1	node_186	2	==>	1	Libycosuchus	
	1	node_195	2	==>	1	Mahajangasuchus	
395 (Maxillary tooth r)	0.333	1	node_162	0	-->	1	Bernissartia
		1	node_160	0	-->	1	node_145
		1	node_159	0	-->	1	node_158
396 (Maxillary/dentary)	0.200	1	node_200	0	==>	1	Gobiosuchus
		1	node_194	0	==>	1	node_186
		1	node_170	1	-->	0	Sphagesaurushuen
		1	node_174	1	-->	0	Comahuesuchus
		1	node_176	1	-->	0	node_175
397 (PONC Maxillary/de)	0.231	1	node_201	1	-->	0	node_106
		1	node_200	1	-->	0	Gobiosuchus
		1	node_116	1	-->	0	node_115
		1	node_123	1	-->	0	Sarcosuchusimper
		1	node_139	1	==>	2	node_138
		1	node_164	1	==>	2	node_163
		1	node_143	2	-->	0	Isisfordia
		1	node_145	2	==>	3	node_144
		1	node_148	2	-->	1	Tomistoma
		1	node_181	1	==>	2	Araripesuchusweg
		1	node_191	1	==>	2	CfHamadasuchus
		1	node_193	1	==>	2	FRAGSMNS81977
		1	node_195	1	==>	2	Kaprosuchus
398 (PONC Symphyseal d)	0.500	1	node_125	0	==>	2	node_123
		1	node_135	0	-->	1	node_132
		1	node_134	0	-->	2	node_133
		1	node_174	0	==>	{12}	Comahuesuchus
399 (Symphyseal dentit)	1.000	1	node_173	0	==>	1	node_172
400 (Symphyseal dentit)	1.000	1	node_172	0	==>	1	node_171
401 (Symphyseal dentit)	0.667	1	node_125	0	==>	2	node_123
		1	node_174	0	==>	1	node_173
		1	node_171	1	==>	0	node_170
402 (Symphyseal alveol)	0.500	1	node_125	0	-->	1	node_123
		1	node_136	0	-->	1	node_135
403 (Symphyseal alveol)	0.250	1	node_142	0	-->	1	node_141
		1	node_118	1	==>	0	node_117
		1	node_122	1	==>	0	node_121
		1	node_157	0	==>	1	Diplocynodon
404 (Symphyseal alveol)	0.111	1	node_105	0	-->	1	Sphenosuchus
		1	node_106	0	-->	1	Protosuchus
		1	node_162	0	==>	1	Bernissartia
		1	node_158	0	-->	1	node_151
		1	node_157	0	-->	1	node_156
		1	node_175	0	-->	1	Baurusuchus
		1	node_181	0	==>	1	Araripesuchusweg
		1	node_194	0	==>	1	node_193
		1	node_189	1	==>	0	Sebecus
405 (PONC Symphyseal a)	0.333	1	node_142	1	-->	2	node_141
		1	node_125	2	-->	0	node_123
		1	node_134	2	-->	0	node_133
		1	node_159	1	==>	2	node_148
		1	node_174	1	==>	2	node_173
		1	node_190	1	-->	2	node_189
406 (Symphyseal alveol)	0.200	1	node_122	0	==>	1	node_121
		1	node_148	0	==>	1	Tomistoma
		1	node_173	0	==>	1	node_172
		1	node_178	0	-->	1	Candidodon
		1	node_190	0	-->	1	node_189
407 (PONC Symphyseal a)	0.222	1	node_119	0	-->	1	node_109
		1	node_118	0	-->	1	Pelagosaurus
		1	node_126	0	==>	2	node_122
		1	node_130	0	-->	1	node_128
		1	node_159	0	==>	2	node_148
		1	node_147	2	==>	1	Eosuchus
		1	node_174	0	==>	1	node_173
		1	node_178	0	-->	1	Candidodon
		1	node_190	0	-->	1	node_189
408 (Dentary tooth opp)	0.111	1	node_203	1	==>	0	Gracilisuchus
		1	node_118	1	==>	0	node_117
		1	node_113	0	==>	1	Geosaurusgigante
		1	node_126	1	==>	0	node_125
		1	node_144	1	-->	0	Iharkutosuchus
		1	node_148	1	==>	0	node_147
		1	node_176	1	==>	0	node_174
		1	node_186	1	==>	0	Libycosuchus
		1	node_196	1	==>	0	Anatosuchus
409 (Dentary tooth opp)	0.250	1	node_200	0	==>	1	Gobiosuchus
		1	node_176	0	==>	1	node_175
		1	node_193	0	-->	1	node_192

410 (Dentary tooth opp)	0.286	1	node_196	0 ==>	1	node_195
		1	node_202	1 ==>	0	node_201
		1	node_145	0 -->	1	Allodaposuchus
		1	node_158	0 ==>	1	node_157
		1	node_186	0 -->	2	node_185
		1	node_176	2 ==>	0	node_175
		1	node_183	2 ==>	1	Araripesuchustsa
		1	node_196	0 ==>	1	Anatosuchus
411 (PONC Dentary toot)	0.500	1	node_125	1 ==>	2	node_123
		1	node_173	1 ==>	0	node_172
		1	node_186	1 ==>	0	Libycosuchus
		1	node_196	1 ==>	0	node_195
412 (Maxillary dentiti)	1.000	1	node_172	0 ==>	1	node_171
413 (Mandibular teeth)	1.000	1	node_122	0 ==>	1	node_121
414 (ORD Maxillary tee)	1.000	1	node_174	0 ==>	1	node_173
		1	node_173	1 ==>	2	node_172
415 (Middle and poster)	1.000	1	node_173	0 ==>	1	node_172
416 (Middle and poster)	0.500	1	node_142	0 -->	1	node_141
		1	node_159	0 ==>	1	node_148
417 (Middle and poster)	0.500	1	node_177	0 ==>	1	Malawisuchus
		1	node_178	0 ==>	1	Candidodon
418 (Posterior teeth,)	1.000	1	node_115	0 ==>	1	node_114
419 (Vertebrae, presen)	1.000	1	node_161	0 ==>	1	node_160
420 (Presacral vertebr)	0.250	1	node_202	0 ==>	1	Junggarsuchus
		1	node_122	0 ==>	1	Pholidosaurusssch
		1	node_162	0 ==>	1	node_161
		1	node_165	0 -->	1	Theriosuchusguim
421 (Presacral vertebr)	0.143	1	node_202	0 -->	1	Junggarsuchus
		1	node_107	0 -->	1	Hsisosuchuschowi
		1	node_126	0 ==>	1	node_122
		1	node_138	0 -->	1	Siamosuchusphuph
		1	node_132	0 -->	1	Goniopholisbaryg
		1	node_160	0 -->	1	node_159
		1	node_180	0 -->	1	Araripesuchusgom
422 (Caudal vertebrae,)	1.000	1	node_163	0 ==>	1	node_162
423 (Axis, proportiona)	0.200	1	node_203	1 -->	0	Gracilisuchus
		1	node_105	1 -->	0	Sphenosuchus
		1	node_123	1 -->	0	Sarcosuchusimper
		1	node_173	1 -->	0	node_167
		1	node_183	1 -->	0	Araripesuchustsa
424 (Axis, development)	1.000	1	node_177	1 -->	0	node_176
425 (Axis, morphology)	1.000	1	node_157	1 -->	0	node_156
426 (Axial hypapophysi)	0.500	1	node_163	1 -->	0	node_162
		1	node_148	0 ==>	1	node_147
427 (Third cervical ve)	1.000	1	node_173	1 -->	0	node_167
428 (Anterior (postaxi)	0.250	1	node_123	1 -->	0	Sarcosuchusimper
		1	node_177	1 -->	0	node_176
		1	node_180	1 -->	0	Araripesuchusgom
		1	node_196	1 -->	0	Anatosuchus
429 (Posterior cervica)	0.250	1	node_123	1 -->	0	Sarcosuchusimper
		1	node_173	1 -->	0	node_167
		1	node_180	1 -->	0	Araripesuchusgom
		1	node_196	1 -->	0	Anatosuchus
430 (Anterior cervical)	1.000	1	node_174	0 -->	1	node_173
431 (Posterior cervica)	0.333	1	node_146	0 -->	1	Gavialis
		1	node_159	0 -->	1	node_158
		1	node_173	0 -->	1	node_167
432 (Sacral vertebrae,)	0.500	1	node_177	0 -->	1	node_176
		1	node_180	0 -->	1	Araripesuchusgom
433 (Sacral vertebrae,)	1.000	1	node_127	0 ==>	1	node_119
434 (Sacral vertebrae,)	1.000	1	node_119	0 ==>	1	node_118
435 (Caudal vertebrae,)	1.000	1	node_122	0 -->	1	node_121
436 (Tail, vertebrae m)	1.000	1	node_118	0 ==>	1	node_117
437 (Atlantal ribs, pr)	1.000	1	node_156	0 ==>	1	node_155
438 (Scapulocoracoid s)	1.000	1	node_156	0 ==>	1	node_155
439 (Scapula, symmetry)	0.250	1	node_203	0 -->	1	node_202
		1	node_159	1 ==>	0	node_158
		1	node_150	0 ==>	1	Voay
		1	node_155	0 ==>	1	Paleosuchus
440 (Coracoid, length)	0.500	1	node_199	0 ==>	1	node_198
		1	node_167	1 -->	0	Notosuchus
441 (Ilium, relative l)	0.500	1	node_201	0 -->	1	node_200
		1	node_127	1 ==>	0	node_119
442 (Ilium, presence o)	0.500	1	node_148	0 -->	1	Tomistoma
		1	node_151	0 -->	2	node_149
		1	node_151	0 -->	1	node_150
		1	node_157	0 -->	1	node_156
443 (Ilium, morphology)	0.667	1	node_163	0 -->	1	node_162
		1	node_155	1 ==>	0	Paleosuchus
		1	node_157	1 ==>	2	Diplocynodon
444 (Ischium, presence)	1.000	1	node_203	0 -->	1	node_202
445 (Pubis, exclusion)	1.000	1	node_203	0 -->	1	node_202
446 (Pubis, presence o)	0.500	1	node_203	0 -->	1	node_202
		1	node_127	1 ==>	0	node_119

447 (Pubis, expansion)	1.000	1	node_106	1	-->	0	Protosuchus
448 (ORD Limb bones, l)	0.500	1	node_203	1	-->	2	node_105
		1	node_202	1	-->	2	Junggarsuchus
		1	node_198	1	-->	0	node_166
		1	node_124	0	-->	1	Vectisuchus
449 (PONC Limb bones,)	0.400	1	node_202	2	==>	1	node_201
		1	node_198	1	==>	0	node_166
		1	node_119	0	==>	2	node_109
		1	node_118	0	==>	1	Pelagosaurus
		1	node_124	0	-->	1	Vectisuchus
450 (Limb bones, relat)	0.400	1	node_203	0	-->	1	node_202
		1	node_119	1	==>	0	node_109
		1	node_146	1	-->	0	Gavialis
		1	node_177	1	-->	2	node_176
		1	node_195	1	-->	2	Mahajangasuchus
451 (Limb bones, gener)	1.000	1	node_118	0	==>	1	node_117
452 (ORD Limb bones (f))	0.500	1	node_105	1	-->	0	Pseudhesperosuch
		1	node_119	1	==>	2	node_109
		1	node_190	1	-->	2	Caririsuchus
		1	node_196	1	==>	2	Anatosuchus
453 (ORD Limb bones (h))	1.000	1	node_127	0	==>	1	node_119
		1	node_118	1	==>	2	node_117
454 (Humerus, relative)	0.500	1	node_198	0	-->	1	node_166
		1	node_127	1	==>	0	node_119
455 (Femur, relative o)	0.500	1	node_201	0	-->	1	node_200
		1	node_177	1	-->	0	node_176
456 (Humerus, presence)	0.500	1	node_162	1	-->	0	Bernissartia
		1	node_146	1	-->	0	Gavialis
		1	node_160	0	-->	1	node_159
457 (Ulna, morphology)	1.000	1	node_116	1	-->	0	Metriorhynchus
458 (Proximal carpals,)	1.000	1	node_201	0	-->	1	node_200
459 (Proximal carpals,)	0.167	1	node_119	1	-->	0	node_109
		1	node_111	1	-->	0	Rhacheosaurus
		1	node_133	1	-->	0	DolloGoniopholid
		1	node_165	1	-->	0	Theriosuchuspusi
		1	node_184	1	-->	0	node_183
460 (Proximal carpals,)	1.000	1	node_184	0	==>	1	node_183
461 (Proximal carpals,)	1.000	1	node_118	1	-->	0	node_117
462 (Proximal carpals,)	0.167	1	node_201	0	-->	1	node_200
		1	node_127	1	==>	0	node_119
		1	node_133	1	-->	0	DolloGoniopholid
		1	node_165	1	-->	0	Theriosuchuspusi
		1	node_167	1	-->	0	Notosuchus
		1	node_184	1	-->	0	node_183
463 (Proximal carpals,)	0.250	1	node_107	0	-->	1	Hsisosuchuschowii
		1	node_122	0	-->	1	node_121
		1	node_128	0	-->	1	Sunosuchusjungga
		1	node_198	0	-->	1	node_197
464 (Femur, general sh)	1.000	1	node_127	0	==>	1	node_119
465 (Pes, relative len)	1.000	1	node_118	0	==>	1	node_117
466 (Calcaneum tuber,)	1.000	1	node_111	1	==>	0	node_110
467 (Metatarsal I, mor)	1.000	1	node_111	0	-->	2	node_110
		1	node_111	0	-->	1	Rhacheosaurus
468 (Dermal armor, pre)	0.400	1	node_202	1	==>	2	node_201
		1	node_118	2	==>	0	node_117
		1	node_160	2	-->	1	node_159
		1	node_155	1	-->	2	node_154
		1	node_186	2	-->	1	node_185
469 (PONC Presacral nu)	0.333	1	node_127	0	-->	1	node_126
		1	node_163	0	-->	1	node_162
		1	node_143	1	-->	0	Susisuchus
		1	node_143	1	-->	2	Isisfordia
		1	node_158	1	==>	2	node_151
		1	node_196	0	-->	1	Anatosuchus
470 (PONC Presacral nu)	0.500	1	node_160	2	-->	1	node_159
		1	node_151	1	==>	0	node_149
		1	node_155	1	-->	0	node_154
		1	node_155	1	-->	2	Paleosuchus
		1	node_171	2	-->	3	Armadillosuchus
		1	node_196	2	-->	0	Anatosuchus
471 (Presacral nuchal)	0.333	1	node_162	0	==>	1	node_161
		1	node_148	1	==>	0	node_147
		1	node_171	0	-->	1	Armadillosuchus
472 (Presacral dorsal)	0.250	1	node_200	0	==>	1	Gobiosuchus
		1	node_127	0	-->	1	node_119
		1	node_122	0	-->	1	node_121
		1	node_162	0	==>	1	node_161
473 (PONC Presacral do)	0.400	1	node_122	0	-->	1	node_121
		1	node_164	0	==>	1	node_163
		1	node_147	1	-->	0	node_146
		1	node_150	1	==>	0	Voay
		1	node_156	1	==>	2	node_152
474 (Presacral dorsal)	1.000	1	node_160	0	-->	1	node_159
475 (Presacral dorsal)	0.250	1	node_203	1	-->	0	Gracilisuchus

	1	node_162	1 ==>	0	node_161	
	1	node_178	1 -->	0	Uruguaysuchus	
	1	node_195	1 -->	0	Mahajangasuchus	
476 (Presacral dorsal)	1.000	1	node_181	0 -->	1	node_180
477 (Presacral dorsal)	0.500	1	node_201	1 ==>	0	node_200
		1	node_142	0 -->	1	node_141
478 (Presacral dorsal)	0.125	1	node_107	1 -->	0	Hsisosuchuschowii
		1	node_118	1 -->	0	Pelagosaurus
		1	node_128	1 -->	0	Sunosuchus jungga
		1	node_136	1 -->	0	node_135
		1	node_171	1 -->	0	Armadillosuchus
		1	node_180	1 -->	0	Araripesuchuspat
		1	node_184	1 -->	0	CratoForm
		1	node_190	1 -->	0	Caririsuchus
479 (Presacral ventral)	1.000	1	node_146	1 -->	0	Gavialis
		1	node_154	1 ==>	2	node_153
480 (Presacral ventral)	0.500	1	node_156	0 -->	1	node_155
		1	node_157	0 -->	1	Diplocynodon
481 (Postsacral armor,)	0.167	1	node_203	0 -->	1	node_202
		1	node_107	1 -->	0	Hsisosuchuschowii
		1	node_142	1 -->	0	node_141
		1	node_162	1 ==>	0	Bernissartia
		1	node_180	1 -->	0	Araripesuchusgom
		1	node_184	1 -->	0	CratoForm
482 (Postsacral armor,)	1.000	1	node_123	1 -->	0	Sarcosuchusimper
483 (Tongue, presence)	1.000	1	node_157	0 -->	1	node_156
484 (Functional lingua)	1.000	1	node_157	1 -->	0	node_156
485 (Internal hypertro)	1.000	1	node_118	0 ==>	1	node_117
486 (M. caudofemoralis)	1.000	1	node_146	1 -->	0	Gavialis

Apomorphy lists:

Branch	Character	Steps	CI	Change

node_203 --> Gracilisuchus	1 (Skull height,)	1	0.111	0 ==> 1
	7 (ORD Rostrum,)	1	0.133	0 ==> 1
	8 (Rostrum, rela)	1	0.182	1 ==> 0
	49 (Antorbital c)	1	0.333	0 ==> 1
	50 (Antorbital c)	1	0.200	0 ==> 1
	56 (Rostrum, pre)	1	0.077	1 --> 0
	73 (ORD Nasals,)	1	0.333	1 ==> 0
	111 (Supratemporal)	1	0.235	0 ==> 4
	122 (PONC Suprat)	1	0.167	1 ==> 0
	134 (Frontal, pr)	1	0.111	1 ==> 0
	136 (Frontal, mo)	1	0.100	1 ==> 0
	144 (Parietals,)	1	0.333	1 --> 0
	147 (Postparieta)	1	1.000	0 ==> 1
	166 (PONC Latero)	1	0.182	1 --> 0
	182 (Jugal (ante)	1	0.077	0 ==> 1
	194 (Postorbital)	1	0.143	0 ==> 1
	201 (Postorbital)	1	0.500	1 ==> 0
	313 (PONC Extern)	1	0.143	1 ==> 0
	314 (External ma)	1	0.100	1 --> 0
	315 (External ma)	1	0.417	0 ==> 2
	316 (External ma)	1	0.167	0 ==> 1
	331 (Symphysis,)	1	0.167	1 ==> 0
	338 (Dentary, mo)	1	0.143	2 ==> 0
	382 (Occlusion,)	1	0.143	0 ==> 1
	408 (Dentary too)	1	0.111	1 ==> 0
	423 (Axis, propo)	1	0.200	1 --> 0
	475 (Presacral d)	1	0.250	1 --> 0
node_203 --> node_105	2 (Skull geometr)	1	0.455	0 ==> 4
	31 (ORD Naris, o)	1	0.222	0 ==> 1
	59 (Rostrum, pre)	1	0.333	0 --> 1
	106 (Supratemporal)	1	0.182	0 ==> 1
	107 (Supratemporal)	1	0.125	0 ==> 2
	137 (Frontal, mo)	1	0.053	0 --> 1
	145 (ORD Parieta)	1	0.133	0 --> 1
	146 (Parietal, d)	1	0.250	0 ==> 1
	162 (Laterotempo)	1	0.200	0 ==> 1
	163 (Laterotempo)	1	1.000	0 ==> 1
	164 (Laterotempo)	1	0.143	1 ==> 0
	289 (Basipterygo)	1	1.000	0 --> 1
	448 (ORD Limb bo)	1	0.500	1 --> 2
node_105 --> Pseudhesperosuch	120 (Supratemporal)	1	0.125	1 --> 2
	144 (Parietals,)	1	0.333	1 --> 0
	148 (Upper tempo)	1	0.077	0 ==> 1
	166 (PONC Latero)	1	0.182	1 --> 0
	191 (Postorbital)	1	0.125	1 ==> 0
	293 (Quadrate, o)	1	0.200	0 ==> 1
	452 (ORD Limb bo)	1	0.500	1 --> 0
node_105 --> Sphenosuchus	76 (Nasals, morp)	1	0.100	1 --> 0
	102 (Frontal sag)	1	0.071	0 --> 1
	120 (Supratemporal)	1	0.125	1 --> 0

	127 (Prefrontal)	1	0.250	1	-->	0
	145 (ORD Parieta)	1	0.133	1	==>	2
151 (Upper tempo)	1	0.111	0	-->	1	
	174 (Jugal, heig)	1	0.143	0	==>	1
	290 (Eustachian)	1	1.000	1	-->	0
	295 (Quadrate, p)	1	0.250	1	-->	0
	328 (Mandible, m)	1	0.167	0	-->	1
	346 (Surangular,)	1	0.077	0	==>	1
	404 (Symphyseal)	1	0.111	0	-->	1
	423 (Axis, propo)	1	0.200	1	-->	0
node_203 --> node_202	11 (Ornamentatio)	1	0.250	0	-->	1
	47 (Antorbital c)	1	1.000	1	==>	0
	48 (PONC Antorbi)	1	0.333	3	-->	1
	160 (PONC Orbit,)	1	0.400	2	-->	1
	270 (Exoccipital)	1	1.000	0	==>	1
	275 (Exoccipital)	1	1.000	0	==>	1
	291 (ORD Quadrat)	1	0.333	0	==>	1
	298 (Quadrate, a)	1	0.500	0	==>	1
	340 (Dentary dis)	1	0.167	0	-->	1
	394 (PONC Maxill)	1	0.200	1	-->	2
	439 (Scapula, sy)	1	0.250	0	-->	1
	444 (Ischium, pr)	1	1.000	0	-->	1
	445 (Pubis, excl)	1	1.000	0	-->	1
	446 (Pubis, pres)	1	0.500	0	-->	1
	450 (Limb bones,)	1	0.400	0	-->	1
	481 (Postsacral)	1	0.167	0	-->	1
node_202 --> Junggarsuchus	48 (PONC Antorbi)	1	0.333	1	-->	2
	56 (Rostrum, pre)	1	0.077	1	-->	0
	59 (Rostrum, pre)	1	0.333	0	-->	1
	76 (Nasals, morp)	1	0.100	1	-->	0
	97 (Lachrymal, p)	1	0.333	0	-->	1
	107 (Supratempor)	1	0.125	0	==>	1
	137 (Frontal, mo)	1	0.053	0	-->	1
	181 (Jugal (ante)	1	0.100	1	-->	0
	420 (Presacral v)	1	0.250	0	==>	1
	421 (Presacral v)	1	0.143	0	-->	1
	448 (ORD Limb bo)	1	0.500	1	-->	2
node_202 --> node_201	6 (ORD Rostrum,)	1	0.182	2	==>	1
	63 (Premaxilla,)	1	1.000	0	==>	1
	80 (Maxilla, pro)	1	0.182	1	==>	2
	84 (Maxilla, pos)	1	0.500	0	-->	1
	110 (Supratempor)	1	0.111	2	==>	0
	118 (Supratempor)	1	0.250	0	==>	1
	150 (Upper tempo)	1	1.000	2	==>	0
	156 (Squamosal,)	1	0.333	1	==>	0
	200 (Postorbital)	1	0.500	0	-->	1
	203 (Quadratojug)	1	0.333	0	==>	1
	279 (Exoccipital)	1	0.500	1	-->	0
	294 (Quadrate, p)	1	0.167	0	==>	1
	379 (PONC Carina)	1	0.250	0	-->	1
	410 (Dentary too)	1	0.286	1	==>	0
	449 (PONC Limb b)	1	0.400	2	==>	1
	468 (Dermal armo)	1	0.400	1	==>	2
node_201 --> node_106	5 (Rostrum, leng)	1	0.125	1	-->	0
	13 (Ornamentatio)	1	0.500	0	-->	1
	21 (Sculpturing,)	1	1.000	0	==>	1
	97 (Lachrymal, p)	1	0.333	0	-->	1
	136 (Frontal, mo)	1	0.100	1	==>	0
	140 (Frontal, ex)	1	0.111	1	==>	0
	145 (ORD Parieta)	1	0.133	0	-->	1
	162 (Laterotempo)	1	0.200	0	==>	1
	181 (Jugal (ante)	1	0.100	1	-->	0
	269 (Exoccipital)	1	0.250	0	-->	1
	273 (Exoccipital)	1	0.333	0	==>	1
	276 (Exoccipital)	1	0.333	1	-->	0
	314 (External ma)	1	0.100	1	-->	0
	392 (Maxillary d)	1	0.154	1	-->	0
	397 (PONC Maxill)	1	0.231	1	-->	0
node_106 --> Protosuchus	20 (Sculpturing,)	1	0.333	0	-->	1
	28 (Foramen at p)	1	0.100	0	==>	1
	76 (Nasals, morp)	1	0.100	1	-->	0
	120 (Supratempor)	1	0.125	1	-->	0
	127 (Prefrontal)	1	0.250	1	-->	0
	315 (External ma)	1	0.417	0	==>	5
	404 (Symphyseal)	1	0.111	0	-->	1
	447 (Pubis, expa)	1	1.000	1	-->	0
node_106 --> Hemiprotosuchus	16 (Ornamentatio)	1	0.200	1	-->	0
	96 (Lachrymal, e)	1	0.333	1	==>	0
	160 (PONC Orbit,)	1	0.400	1	-->	2
node_201 --> node_200	1 (Skull height,)	1	0.111	0	==>	1
	52 (Antorbital c)	1	0.167	0	-->	1
	54 (Rostrum, ori)	1	0.500	0	==>	1
	129 (Prefrontal)	1	0.333	1	==>	0
	132 (Frontals, f)	1	1.000	0	-->	1

	157 (ORD Orbits,)	1	0.222	0	==>	1
	165 (Laterotempo)	1	0.500	0	==>	1
	182 (Jugal (ante)	1	0.077	0	==>	1
	188 (Palpebral (	1	0.400	2	-->	1
	193 (Postorbital)	1	0.500	1	==>	0
	195 (Postorbital)	1	0.250	0	-->	1
	206 (ORD Suborbi)	2	0.500	0	==>	2
	210 (Palate, pre)	1	1.000	0	-->	1
	211 (Palate, pre)	1	1.000	0	-->	1
	212 (ORD Palate,)	1	1.000	0	-->	1
	221 (Vomer, vent)	1	0.200	1	==>	0
	274 (Exoccipital)	1	1.000	0	==>	1
	281 (Crista inte)	1	1.000	0	-->	1
	306 (Cranioquadr)	1	1.000	0	==>	2
	312 (External ma)	1	0.167	2	-->	0
	313 (PONC Extern)	1	0.143	1	==>	0
	322 (ORD Mandibl)	1	0.250	0	-->	1
	331 (Symphysis,)	1	0.167	1	-->	0
	354 (Preartacula)	1	0.500	1	-->	0
	358 (Retroarticu)	1	1.000	0	==>	1
	441 (Ilium, rela)	1	0.500	0	-->	1
	455 (Femur, rela)	1	0.500	0	-->	1
	459 (Proximal ca)	1	0.167	0	-->	1
	462 (Proximal ca)	1	0.167	0	-->	1
	477 (Presacral d)	1	0.500	1	==>	0
node_200 --> Gobiosuchus	5 (Rostrum, leng)	1	0.125	1	-->	0
	51 (Antorbital c)	1	0.500	0	==>	1
	56 (Rostrum, pre)	1	0.077	1	-->	0
	98 (Lachrymal, e)	1	0.100	1	==>	0
	107 (Supratempor)	1	0.125	0	==>	1
	120 (Supratempor)	1	0.125	1	-->	0
	122 (PONC Suprat)	1	0.167	1	-->	2
	126 (PONC Prefro)	1	0.286	0	==>	1
	130 (Prefrontal)	1	0.333	1	-->	0
	136 (Frontal, mo)	1	0.100	1	==>	2
	142 (Frontal (an)	1	0.167	0	==>	1
	144 (Parietals,)	1	0.333	1	==>	0
	158 (Orbits, ori)	1	0.250	0	==>	1
	164 (Laterotempo)	1	0.143	1	==>	0
	261 (ORD Pterygo)	1	0.286	1	==>	0
	269 (Exoccipital)	1	0.250	0	-->	1
	368 (PONC Poster)	1	0.222	0	==>	1
	369 (PONC Mid to)	1	0.286	0	==>	1
	392 (Maxillary d)	1	0.154	1	-->	0
	396 (Maxillary/d)	1	0.200	0	==>	1
	397 (PONC Maxill)	1	0.231	1	-->	0
	409 (Dentary too)	1	0.250	0	==>	1
	472 (Presacral d)	1	0.250	0	==>	1
node_200 --> node_199	7 (ORD Rostrum,)	1	0.133	0	-->	1
	94 (Lachrymal, r)	1	0.125	0	-->	1
	133 (Frontal, wi)	1	0.167	1	==>	0
	174 (Jugal, heig)	1	0.143	0	-->	1
	175 (Jugal (ante)	1	0.091	0	==>	1
	194 (Postorbital)	1	0.143	0	==>	1
	253 (Ectopterygo)	1	1.000	0	==>	1
	258 (Pterygoids,)	1	0.500	0	==>	1
	286 (ORD Basisph)	1	0.400	2	==>	1
	292 (ORD Quadrat)	2	0.286	0	==>	2
	297 (Quadrante, m)	1	0.500	0	==>	1
	342 (Spleniials,)	1	0.250	0	==>	1
	343 (PONC Spleni)	1	0.286	0	==>	1
node_199 --> node_108	55 (Rostrum, mor)	1	0.500	0	==>	1
	75 (Nasals, dors)	1	0.500	0	==>	2
	79 (Maxilla, mor)	1	0.143	0	-->	1
	86 (Maxilla, pre)	1	0.250	0	==>	1
	88 (Maxilla, pre)	1	1.000	0	==>	1
	109 (Supratempor)	1	0.077	1	==>	0
	122 (PONC Suprat)	1	0.167	1	-->	2
	145 (ORD Parieta)	1	0.133	0	-->	1
	160 (PONC Orbit,)	1	0.400	1	-->	2
	200 (Postorbital)	1	0.500	1	-->	0
	206 (ORD Suborbi)	1	0.500	2	-->	1
	262 (Pterygoid v)	1	0.500	0	==>	1
	271 (Exoccipital)	1	1.000	0	==>	1
	338 (Dentary, mo)	1	0.143	2	==>	0
	371 (Dentition,)	1	0.333	0	==>	1
	379 (PONC Carina)	1	0.250	1	-->	0
	394 (PONC Maxill)	1	0.200	2	==>	0
node_108 --> node_107	65 (Premaxillae,)	1	0.364	0	-->	3
	164 (Laterotempo)	1	0.143	1	==>	0
	259 (Pterygoid,)	1	0.500	0	-->	1
	272 (Exoccipital)	1	0.500	0	==>	1
node_107 --> Hsisosuchuschowii	113 (Supratempor)	1	0.143	0	==>	1
	178 (PONC Jugal)	1	0.125	0	-->	1

	219 (Palate, rel)	1	0.167	0	==>	1
	332 (PONC Symphy)	1	0.200	0	-->	1
	346 (Surangular,)	1	0.077	0	-->	1
	382 (Occlusion,)	1	0.143	0	-->	1
	387 (Premaxillar)	1	0.143	0	-->	1
	388 (Premaxillar)	1	0.500	0	-->	1
	421 (Presacral v)	1	0.143	0	-->	1
	463 (Proximal ca)	1	0.250	0	-->	1
	478 (Presacral d)	1	0.125	1	-->	0
	481 (Postsacral)	1	0.167	1	-->	0
node_107 --> Hsisosuchusdasha	123 (Supratempor)	1	0.125	0	==>	1
	137 (Frontal, mo)	1	0.053	0	-->	1
node_108 --> Hsisosuchuschung	7 (ORD Rostrum,)	1	0.133	1	-->	0
	50 (Antorbital c)	1	0.200	0	-->	1
	123 (Supratempor)	1	0.125	0	==>	2
	174 (Jugal, heig)	1	0.143	1	-->	0
	179 (PONC Jugal)	1	0.250	0	-->	1
node_199 --> node_198	6 (ORD Rostrum,)	1	0.182	1	-->	0
	45 (PONC Antorbi)	1	0.500	1	-->	0
	59 (Rostrum, pre)	1	0.333	0	==>	1
	66 (PONC Premaxi)	1	0.222	0	-->	1
	80 (Maxilla, pro)	1	0.182	2	==>	1
	81 (PONC Maxilla)	1	0.154	0	-->	1
	162 (Laterotempo)	1	0.200	0	==>	1
	166 (PONC Latero)	1	0.182	1	==>	0
	192 (Postorbital)	1	0.167	1	==>	0
	203 (Quadratojug)	1	0.333	1	==>	0
	212 (ORD Palate,)	1	1.000	1	==>	2
	213 (Palate, rel)	1	0.500	0	==>	1
	235 (ORD Choanae)	1	0.286	0	==>	1
	237 (PONC Choana)	1	0.500	0	==>	2
	242 (PONC Choana)	1	0.500	0	==>	1
	295 (Quadrate, p)	1	0.250	1	==>	0
	307 (Cranioquadr)	1	0.429	0	==>	3
	312 (External ma)	1	0.167	0	-->	2
	350 (Surangular,)	1	0.200	1	==>	0
	359 (ORD Retroar)	1	0.222	0	-->	1
	385 (Premaxillar)	1	0.143	0	-->	1
	440 (Coracoid, l)	1	0.500	0	==>	1
node_198 --> node_166	2 (Skull geometr)	1	0.455	0	==>	2
	4 (Skull geometr)	1	0.250	0	==>	1
	22 (Neurovascula)	1	1.000	0	==>	1
	31 (ORD Naris, o)	1	0.222	0	==>	1
	53 (PONC Lachrym)	1	0.250	2	-->	0
	57 (Rostrum, ty)	1	0.182	1	==>	2
	74 (Nasals, gene)	1	0.250	1	==>	0
	134 (Frontal, pr)	1	0.111	1	==>	0
	137 (Frontal, mo)	1	0.053	0	-->	1
	186 (Palpebrals,)	1	1.000	2	==>	1
	241 (Choanae, or)	1	0.143	1	==>	0
	291 (ORD Quadrat)	1	0.333	1	==>	2
	296 (Quadrate, s)	1	0.500	1	==>	0
	317 (Mandible, p)	1	0.125	0	==>	1
	323 (Mandible, m)	1	0.250	0	==>	1
	336 (ORD Symphys)	1	0.200	2	==>	1
	360 (ORD Retroar)	1	0.222	0	==>	1
	362 (Retroarticu)	1	0.500	1	-->	0
	363 (Retroarticu)	1	0.286	2	-->	0
	448 (ORD Limb bo)	1	0.500	1	-->	0
	449 (PONC Limb b)	1	0.400	1	==>	0
	454 (Humerus, re)	1	0.500	0	-->	1
node_166 --> node_164	36 (Naris, compo)	1	0.333	0	-->	1
	39 (Naris, prese)	1	0.111	1	-->	0
	48 (PONC Antorbi)	1	0.333	1	==>	0
	128 (Prefrontal)	1	0.500	0	==>	1
	179 (PONC Jugal)	1	0.250	0	==>	2
	187 (Palpebrals,)	1	0.667	1	==>	0
	196 (Postorbital)	1	0.250	0	-->	1
	197 (Postorbital)	1	0.333	0	==>	1
	223 (Palatines,)	1	0.167	0	==>	1
	265 (Pterygoid v)	1	0.200	0	==>	1
	286 (ORD Basisph)	1	0.400	1	==>	0
	294 (Quadrate, p)	1	0.167	1	==>	0
node_164 --> node_142	3 (Skull geometr)	1	0.250	0	==>	1
	5 (Rostrum, leng)	1	0.125	1	-->	3
	46 (Antorbital c)	1	0.250	0	-->	1
	69 (Premaxillae,)	1	0.455	4	==>	1
	72 (ORD Nasals,)	1	0.286	2	==>	1
	80 (Maxilla, pro)	1	0.182	1	==>	0
	216 (Palate, pre)	1	0.250	0	==>	1
	217 (Palate, dir)	1	0.182	1	-->	2
	224 (Palatines,)	1	0.154	0	-->	1
	309 (Cranioquadr)	1	0.333	0	==>	1
	368 (PONC Poster)	1	0.222	0	==>	1

node_142 --> node_141	37 (Naris, prese)	1	0.375	2	==>	0
	45 (PONC Antorbi)	1	0.500	0	-->	1
	50 (Antorbital c)	1	0.200	0	==>	1
	65 (Premaxillae,)	1	0.364	0	==>	3
	110 (Supratempor)	1	0.111	0	-->	2
	133 (Frontal, wi)	1	0.167	0	==>	1
	151 (Upper tempo)	1	0.111	0	==>	1
	333 (Symphysis,)	1	0.300	0	-->	1
	369 (PONC Mid to)	1	0.286	0	-->	1
	375 (Mid to post)	1	0.500	0	-->	2
	383 (Occlusion,)	1	0.200	1	-->	0
	403 (Symphyseal)	1	0.250	0	-->	1
	405 (PONC Symphy)	1	0.333	1	-->	2
	416 (Middle and)	1	0.500	0	-->	1
	477 (Presacral d)	1	0.500	0	-->	1
	481 (Postsacral)	1	0.167	1	-->	0
node_141 --> node_127	4 (Skull geometr)	1	0.250	1	==>	0
	5 (Rostrum, leng)	1	0.125	3	-->	2
	8 (Rostrum, rela)	1	0.182	1	==>	2
	70 (Premaxillae,)	1	0.182	2	==>	0
	81 (PONC Maxilla)	1	0.154	1	==>	0
	106 (Supratempor)	1	0.182	0	==>	2
	107 (Supratempor)	1	0.125	0	==>	2
	192 (Postorbital)	1	0.167	0	==>	1
	195 (Postorbital)	1	0.250	1	==>	0
	240 (PONC Choana)	1	0.154	2	==>	1
	277 (Exoccipital)	1	0.200	0	-->	1
	282 (Mastoid ant)	1	1.000	1	==>	0
	332 (PONC Symphy)	1	0.200	0	==>	2
	338 (Dentary, mo)	1	0.143	2	-->	0
	343 (PONC Spleni)	1	0.286	1	==>	2
	384 (Occlusion,)	1	0.167	1	-->	0
	392 (Maxillary d)	1	0.154	1	==>	0
node_127 --> node_119	6 (ORD Rostrum,)	1	0.182	0	-->	1
	12 (Ornamentatio)	1	0.333	1	==>	0
	13 (Ornamentatio)	1	0.500	0	==>	1
	15 (Ornamentatio)	1	0.333	1	==>	0
	51 (Antorbital c)	1	0.500	0	-->	1
	72 (ORD Nasals,)	1	0.286	1	==>	0
	73 (ORD Nasals,)	1	0.333	1	==>	0
	74 (Nasals, gene)	1	0.250	0	==>	1
	79 (Maxilla, mor)	1	0.143	0	-->	1
	118 (Supratempor)	1	0.250	1	==>	0
	122 (PONC Suprat)	1	0.167	1	==>	2
	123 (Supratempor)	1	0.125	0	==>	2
	134 (Frontal, pr)	1	0.111	0	==>	1
	145 (ORD Parieta)	1	0.133	0	-->	1
	150 (Upper tempo)	1	1.000	0	==>	1
	165 (Laterotempo)	1	0.500	1	==>	0
	166 (PONC Latero)	1	0.182	0	==>	2
	173 (Jugal, cros)	1	0.125	1	==>	0
	179 (PONC Jugal)	1	0.250	2	==>	0
	186 (Palpebrals,)	1	1.000	1	==>	0
	193 (Postorbital)	1	0.500	0	==>	1
	196 (Postorbital)	1	0.250	1	-->	0
	199 (Postorbital)	1	1.000	0	==>	1
	200 (Postorbital)	1	0.500	1	==>	2
	201 (Postorbital)	1	0.500	1	==>	0
	207 (Suborbital)	1	0.500	0	==>	1
	216 (Palate, pre)	1	0.250	1	==>	0
	235 (ORD Choanae)	1	0.286	1	-->	2
	244 (Interchoana)	1	0.250	1	==>	0
	261 (ORD Pterygo)	1	0.286	1	==>	0
	265 (Pterygoid v)	1	0.200	1	==>	0
	269 (Exoccipital)	1	0.250	0	==>	1
	286 (ORD Basisph)	2	0.400	0	==>	2
	288 (Basioccipit)	1	0.333	0	==>	1
	292 (ORD Quadrat)	2	0.286	2	==>	0
	297 (Quadrata, m)	1	0.500	1	==>	0
	298 (Quadrata, a)	1	0.500	1	==>	0
	307 (Cranioquadr)	1	0.429	3	==>	1
	309 (Cranioquadr)	1	0.333	1	==>	0
	314 (External ma)	1	0.100	1	==>	0
	346 (Surangular,)	1	0.077	0	-->	1
	360 (ORD Retrooar)	1	0.222	1	-->	2
	364 (Retroarticu)	1	0.333	0	==>	1
	433 (Sacral vert)	1	1.000	0	==>	1
	441 (Ilium, rela)	1	0.500	1	==>	0
	446 (Pubis, pres)	1	0.500	1	==>	0
	453 (ORD Limb bo)	1	1.000	0	==>	1
	454 (Humerus, re)	1	0.500	1	==>	0
	462 (Proximal ca)	1	0.167	1	==>	0
	464 (Femur, gene)	1	1.000	0	==>	1
	472 (Presacral d)	1	0.250	0	-->	1

node_119 --> node_109	2 (Skull geometr)	1	0.455	2	-->	0
	3 (Skull geometr)	1	0.250	1	==>	0
	97 (Lachrymal, p)	1	0.333	0	-->	1
	113 (Supratempor)	1	0.143	0	==>	1
	145 (ORD Parieta)	1	0.133	1	==>	2
	157 (ORD Orbits,)	1	0.222	1	-->	2
	164 (Laterotempo)	1	0.143	1	-->	0
	171 (Jugal, part)	1	1.000	1	==>	0
	226 (Palatines,)	1	0.500	0	-->	1
	313 (PONC Extern)	1	0.143	0	==>	2
	315 (External ma)	1	0.417	0	-->	1
	407 (PONC Symphy)	1	0.222	0	-->	1
	449 (PONC Limb b)	1	0.400	0	==>	2
	450 (Limb bones,)	1	0.400	1	==>	0
	452 (ORD Limb bo)	1	0.500	1	==>	2
	459 (Proximal ca)	1	0.167	1	-->	0
node_109 --> Platysuchus	137 (Frontal, mo)	1	0.053	1	-->	0
	140 (Frontal, ex)	1	0.111	1	==>	0
node_109 --> Steneosaurus herb	17 (Ornamentatio)	1	0.167	1	-->	0
	18 (Ornamentatio)	1	0.200	1	-->	0
	45 (PONC Antorbi)	1	0.500	1	-->	0
	46 (Antorbital c)	1	0.250	1	-->	0
	117 (Supratempor)	1	0.500	0	==>	1
	146 (Parietal, d)	1	0.250	0	==>	1
	263 (Pterygoid v)	1	0.333	0	==>	1
	266 (PONC Suprao)	1	0.500	0	==>	1
	338 (Dentary, mo)	1	0.143	0	-->	1
node_109 --> Steneosaurus boll	113 (Supratempor)	1	0.143	1	==>	2
	127 (Prefrontal)	1	0.250	1	-->	0
node_119 --> node_118	75 (Nasals, dors)	1	0.500	0	==>	2
	159 (Orbits, pre)	1	1.000	0	==>	1
	160 (PONC Orbit,)	1	0.400	1	==>	2
	172 (Jugal, cros)	1	0.500	1	==>	0
	174 (Jugal, heig)	1	0.143	1	==>	0
	175 (Jugal (ante)	1	0.091	1	==>	0
	225 (Palatines,)	1	0.222	0	==>	2
	333 (Symphysis,)	1	0.300	1	==>	0
	336 (ORD Symphys)	1	0.200	1	-->	2
	340 (Dentary dis)	1	0.167	1	==>	0
	354 (Preartacula)	1	0.500	0	-->	1
	375 (Mid to post)	1	0.500	2	==>	0
	434 (Sacral vert)	1	1.000	0	==>	1
node_118 --> Pelagosaurus	4 (Skull geometr)	1	0.250	0	==>	1
	14 (Ornamentatio)	1	1.000	1	-->	0
	50 (Antorbital c)	1	0.200	1	==>	0
	65 (Premaxillae,)	1	0.364	3	-->	0
	97 (Lachrymal, p)	1	0.333	0	-->	1
	106 (Supratempor)	1	0.182	2	==>	1
	127 (Prefrontal)	1	0.250	1	-->	0
	182 (Jugal (ante)	1	0.077	1	==>	0
	220 (Palate cana)	1	0.500	0	-->	1
	240 (PONC Choana)	1	0.154	1	==>	2
	276 (Exoccipital)	1	0.333	1	==>	0
	277 (Exoccipital)	1	0.200	1	==>	0
	313 (PONC Extern)	1	0.143	0	==>	1
	315 (External ma)	1	0.417	0	-->	2
	316 (External ma)	1	0.167	0	-->	1
	407 (PONC Symphy)	1	0.222	0	-->	1
	449 (PONC Limb b)	1	0.400	0	==>	1
	478 (Presacral d)	1	0.125	1	-->	0
node_118 --> node_117	2 (Skull geometr)	1	0.455	2	-->	3
	11 (Ornamentatio)	1	0.250	1	==>	0
	32 (Naris, shape)	1	0.571	0	==>	3
	42 (Intranarial)	1	1.000	0	==>	1
	45 (PONC Antorbi)	1	0.500	1	-->	2
	49 (Antorbital c)	1	0.333	0	==>	1
	53 (PONC Lachrym)	1	0.250	0	==>	2
	56 (Rostrum, pre)	1	0.077	1	==>	0
	57 (Rostrum, ty)	1	0.182	2	==>	1
	65 (Premaxillae,)	1	0.364	3	-->	1
	96 (Lachrymal, e)	1	0.333	1	==>	0
	125 (Prefrontal,)	1	1.000	0	==>	1
	157 (ORD Orbits,)	1	0.222	1	==>	0
	164 (Laterotempo)	1	0.143	1	-->	0
	194 (Postorbital)	1	0.143	1	==>	0
	226 (Palatines,)	1	0.500	0	-->	1
	306 (Cranioquadr)	1	1.000	2	==>	1
	312 (External ma)	1	0.167	2	-->	0
	317 (Mandible, p)	1	0.125	1	==>	0
	323 (Mandible, m)	1	0.250	1	==>	0
	325 (Mandible, p)	1	0.333	0	==>	1
	359 (ORD Retroar)	1	0.222	1	==>	0
	385 (Premaxillar)	1	0.143	1	==>	0
	403 (Symphyseal)	1	0.250	1	==>	0

	408 (Dentary too)	1	0.111	1	==>	0
	436 (Tail, verte)	1	1.000	0	==>	1
	451 (Limb bones,)	1	1.000	0	==>	1
	453 (ORD Limb bo)	1	1.000	1	==>	2
	461 (Proximal ca)	1	1.000	1	-->	0
	465 (Pes, relati)	1	1.000	0	==>	1
	468 (Dermal armo)	1	0.400	2	==>	0
	485 (Internal hy)	1	1.000	0	==>	1
node_117 --> node_111	33 (Naris, dista)	1	0.333	0	==>	1
	37 (Naris, prese)	1	0.375	0	==>	3
	39 (Naris, prese)	1	0.111	0	==>	1
	291 (ORD Quadrat)	1	0.333	2	-->	1
node_111 --> node_110	1 (Skull height,)	1	0.111	1	==>	0
	8 (Rostrum, rela)	1	0.182	2	-->	0
	30 (Lachrymal cr)	1	0.500	0	==>	1
	113 (Supratempor)	1	0.143	0	-->	2
	142 (Frontal (an)	1	0.167	0	==>	1
	378 (Carinae, pr)	1	0.125	1	==>	0
	466 (Calcaneum t)	1	1.000	1	==>	0
	467 (Metatarsal)	1	1.000	0	-->	2
node_110 --> Cricosaurusarauc	70 (Premaxillae,)	1	0.182	0	-->	1
	136 (Frontal, mo)	1	0.100	1	-->	2
node_111 --> Rhacheosaurus	7 (ORD Rostrum,)	1	0.133	1	==>	0
	136 (Frontal, mo)	1	0.100	1	-->	2
	140 (Frontal, ex)	1	0.111	1	==>	0
	459 (Proximal ca)	1	0.167	1	-->	0
	467 (Metatarsal)	1	1.000	0	-->	1
node_117 --> node_116	5 (Rostrum, leng)	1	0.125	2	==>	1
	8 (Rostrum, rela)	1	0.182	2	-->	0
	113 (Supratempor)	1	0.143	0	-->	2
	348 (Surangular,)	1	0.111	0	==>	1
	349 (PONC Surang)	1	0.250	0	==>	2
node_116 --> Metriorhynchus	220 (Palate cana)	1	0.500	0	-->	1
	458 (Proximal ca)	1	1.000	1	-->	0
node_116 --> node_115	112 (Supratempor)	1	1.000	0	==>	1
	142 (Frontal (an)	1	0.167	0	==>	1
	397 (PONC Maxill)	1	0.231	1	-->	0
node_115 --> Dakosauruscarpen	359 (ORD Retroar)	1	0.222	0	==>	1
	375 (Mid to post)	1	0.500	0	==>	2
node_115 --> node_114	1 (Skull height,)	1	0.111	1	-->	0
	6 (ORD Rostrum,)	1	0.182	1	==>	2
	7 (ORD Rostrum,)	1	0.133	1	-->	0
	332 (PONC Symphy)	1	0.200	2	-->	1
	368 (PONC Poster)	1	0.222	1	==>	0
	369 (PONC Mid to)	1	0.286	1	-->	0
	379 (PONC Carina)	1	0.250	1	==>	0
	394 (PONC Maxill)	1	0.200	2	-->	0
	418 (Posterior t)	1	1.000	0	==>	1
node_114 --> node_112	346 (Surangular,)	1	0.077	1	==>	0
	349 (PONC Surang)	1	0.250	2	==>	1
node_112 --> Dakosaurusandini	26 (Neurovascula)	1	0.500	0	==>	1
	52 (Antorbital c)	1	0.167	1	-->	0
	258 (Pterygoids,)	1	0.500	1	-->	0
	291 (ORD Quadrat)	2	0.333	2	-->	0
node_114 --> node_113	30 (Lachrymal cr)	1	0.500	0	==>	1
	370 (Dentition,)	1	1.000	0	==>	1
	371 (Dentition,)	1	0.333	0	==>	1
node_113 --> Geosaurusgigante	56 (Rostrum, pre)	1	0.077	0	==>	1
	57 (Rostrum, ty)	1	0.182	1	==>	2
	94 (Lachrymal, r)	1	0.125	1	-->	0
	408 (Dentary too)	1	0.111	0	==>	1
node_127 --> node_126	2 (Skull geometr)	1	0.455	2	-->	0
	43 (Antorbital c)	1	0.143	1	==>	0
	44 (Antorbital c)	1	0.167	1	==>	0
	57 (Rostrum, ty)	1	0.182	2	==>	1
	64 (Premaxillae,)	1	0.333	0	==>	1
	68 (Premaxillae,)	1	0.143	1	==>	0
	130 (Prefrontal)	1	0.333	1	-->	0
	142 (Frontal (an)	1	0.167	0	==>	1
	148 (Upper tempo)	1	0.077	0	==>	1
	152 (ORD Postorb)	1	0.500	0	==>	1
	194 (Postorbital)	1	0.143	1	==>	0
	353 (Angular, pr)	1	0.250	0	==>	1
	469 (PONC Presac)	1	0.333	0	-->	1
node_126 --> node_122	31 (ORD Naris, o)	1	0.222	1	-->	2
	145 (ORD Parieta)	1	0.133	0	-->	1
	167 (Laterotempo)	1	0.167	0	==>	1
	180 (PONC Jugal)	1	0.333	1	==>	2
	360 (ORD Retroar)	1	0.222	1	-->	2
	363 (Retroarticu)	1	0.286	0	-->	1
	407 (PONC Symphy)	1	0.222	0	==>	2
	421 (Presacral v)	1	0.143	0	==>	1
node_122 --> Pholidosaurusch	3 (Skull geometr)	1	0.250	1	==>	0
	5 (Rostrum, leng)	1	0.125	2	==>	3

	7 (ORD Rostrum,)	1	0.133	1 ==>	0	
	53 (PONC Lachrym)	1	0.250	0 ==>	1	
	106 (Supratempor)	1	0.182	2 ==>	1	
	109 (Supratempor)	1	0.077	1 -->	0	
	111 (Supratempor)	1	0.235	0 ==>	1	
	120 (Supratempor)	1	0.125	1 ==>	0	
	122 (PONC Suprat)	1	0.167	1 ==>	2	
	123 (Supratempor)	1	0.125	0 ==>	1	
	124 (Supratempor)	1	0.167	0 -->	1	
	126 (PONC Prefro)	1	0.286	0 ==>	1	
	134 (Frontal, pr)	1	0.111	0 ==>	1	
	173 (Jugal, cros)	1	0.125	1 ==>	0	
	175 (Jugal, ante)	1	0.091	1 ==>	0	
	189 (PONC Palpeb)	1	0.333	1 -->	2	
	192 (Postorbital)	1	0.167	1 ==>	0	
	202 (Postorbital)	1	0.143	0 -->	1	
	221 (Vomer, vent)	1	0.200	0 ==>	1	
	240 (PONC Choana)	1	0.154	1 ==>	2	
	307 (Cranioquadr)	1	0.429	3 ==>	0	
	373 (Anterior to)	1	0.167	0 -->	1	
	420 (Presacral v)	1	0.250	0 ==>	1	
node_122 -->	node_121	2 (Skull geometr)	1	0.455	0 -->	3
	6 (ORD Rostrum,)	1	0.182	0 -->	1	
	23 (Neurovascula)	1	0.333	1 -->	0	
	24 (Neurovascula)	1	0.250	1 -->	0	
	77 (Nasals, fusi)	1	0.500	0 ==>	1	
	83 (Maxilla, lat)	1	0.250	0 ==>	1	
	153 (Postorbital)	1	0.333	0 -->	1	
	157 (ORD Orbits,)	1	0.222	1 -->	2	
	182 (Jugal, ante)	1	0.077	1 ==>	0	
	235 (ORD Choanae)	1	0.286	1 -->	2	
	242 (PONC Choana)	1	0.500	1 ==>	2	
	266 (PONC Suprao)	1	0.500	0 ==>	2	
	267 (Supraoccipi)	1	1.000	0 ==>	1	
	272 (Exoccipital)	1	0.500	0 ==>	1	
	279 (Exoccipital)	1	0.500	0 ==>	1	
	280 (Exoccipital)	1	1.000	0 ==>	1	
	287 (Basioccipit)	1	1.000	0 ==>	1	
	288 (Basioccipit)	1	0.333	0 ==>	1	
	357 (Mandibular)	1	0.250	0 ==>	1	
	359 (ORD Retroar)	1	0.222	1 ==>	2	
	361 (Retroarticu)	1	0.250	0 ==>	1	
	364 (Retroarticu)	1	0.333	0 ==>	1	
	365 (Retroarticu)	1	1.000	0 ==>	1	
	385 (Premaxillar)	1	0.143	1 -->	0	
	403 (Symphyseal)	1	0.250	1 ==>	0	
	406 (Symphyseal)	1	0.200	0 ==>	1	
	413 (Mandibular)	1	1.000	0 ==>	1	
	435 (Caudal vert)	1	1.000	0 -->	1	
	463 (Proximal ca)	1	0.250	0 -->	1	
	472 (Presacral d)	1	0.250	0 -->	1	
	473 (PONC Presac)	1	0.400	0 -->	1	
node_121 -->	node_120	311 (Posterovent)	1	1.000	0 ==>	1
	317 (Mandible, p)	1	0.125	1 -->	0	
	333 (Symphysis,)	1	0.300	1 -->	3	
node_120 -->	Dyrosaurusmaghri	17 (Ornamentatio)	1	0.167	1 -->	0
	18 (Ornamentatio)	1	0.200	1 -->	0	
	67 (Premaxillae,)	1	0.250	0 -->	1	
	312 (External ma)	1	0.167	2 -->	1	
	338 (Dentary, mo)	1	0.143	0 -->	2	
node_121 -->	Congosaurus	330 (Mandible, p)	1	0.250	0 ==>	1
node_121 -->	Guarinisuchus	5 (Rostrum, leng)	1	0.125	2 ==>	1
	8 (Rostrum, rela)	1	0.182	2 ==>	1	
	113 (Supratempor)	1	0.143	0 ==>	1	
	117 (Supratempor)	1	0.500	0 ==>	1	
	145 (ORD Parieta)	1	0.133	1 ==>	2	
	146 (Parietal, d)	1	0.250	0 ==>	1	
	189 (PONC Palpeb)	1	0.333	1 -->	0	
	286 (ORD Basisph)	1	0.400	0 ==>	1	
node_126 -->	node_125	109 (Supratempor)	1	0.077	1 -->	0
	115 (Skull roof)	1	0.500	0 ==>	1	
	124 (Supratempor)	1	0.167	0 -->	1	
	135 (Frontal, ge)	1	0.143	0 ==>	1	
	153 (Postorbital)	1	0.333	0 -->	1	
	157 (ORD Orbits,)	1	0.222	1 -->	2	
	178 (PONC Jugal)	1	0.125	0 -->	1	
	348 (Surangular,)	1	0.111	0 ==>	1	
	373 (Anterior to)	1	0.167	0 -->	1	
	391 (PONC Last p)	1	0.333	1 ==>	2	
	408 (Dentary too)	1	0.111	1 ==>	0	
node_125 -->	node_123	317 (Mandible, p)	1	0.125	1 ==>	0
	333 (Symphysis,)	1	0.300	1 -->	2	
	336 (ORD Symphys)	1	0.200	1 ==>	0	
	375 (Mid to post)	1	0.500	2 ==>	3	

	390 (Premaxillar)	1	0.250	0	==>	1
	398 (PONC Symphy)	1	0.500	0	==>	2
	401 (Symphyseal)	1	0.667	0	==>	2
	402 (Symphyseal)	1	0.500	0	-->	1
	405 (PONC Symphy)	1	0.333	2	-->	0
	411 (PONC Dentar)	1	0.500	1	==>	2
node_123 --> Sarcosuchusimper	2 (Skull geometr)	1	0.455	0	-->	2
	4 (Skull geometr)	1	0.250	0	-->	1
	106 (Supratempor)	1	0.182	2	-->	1
	107 (Supratempor)	1	0.125	2	-->	1
	111 (Supratempor)	1	0.235	0	-->	3
	120 (Supratempor)	1	0.125	1	-->	2
	122 (PONC Suprat)	1	0.167	1	-->	0
	143 (Frontal, pr)	1	0.500	0	-->	1
	152 (ORD Postorb)	1	0.500	1	-->	2
	182 (Jugal (ante)	1	0.077	1	-->	0
	217 (Palate, dir)	1	0.182	2	-->	0
	219 (Palate, rel)	1	0.167	0	-->	1
	241 (Choanae, or)	1	0.143	0	-->	1
	312 (External ma)	1	0.167	2	-->	1
	341 (Splentials,)	1	0.167	0	-->	1
	346 (Surangular,)	1	0.077	0	-->	1
	350 (Surangular,)	1	0.200	0	-->	1
	359 (ORD Retroar)	1	0.222	1	-->	0
	386 (Premaxillar)	1	0.500	0	-->	1
	387 (Premaxillar)	1	0.143	0	-->	1
	388 (Premaxillar)	1	0.500	0	-->	1
	394 (PONC Maxill)	1	0.200	2	-->	1
	397 (PONC Maxill)	1	0.231	1	-->	0
	423 (Axis, propo)	1	0.200	1	-->	0
	428 (Anterior (p)	1	0.250	1	-->	0
	429 (Posterior c)	1	0.250	1	-->	0
	482 (Postsacral)	1	1.000	1	-->	0
node_125 --> node_124	3 (Skull geometr)	1	0.250	1	==>	0
	6 (ORD Rostrum,)	1	0.182	0	-->	1
	53 (PONC Lachrym)	1	0.250	0	==>	1
	111 (Supratempor)	1	0.235	0	-->	2
	158 (Orbits, ori)	1	0.250	0	==>	1
	235 (ORD Choanae)	1	0.286	1	-->	2
	242 (PONC Choana)	1	0.500	1	==>	2
	313 (PONC Extern)	1	0.143	0	==>	2
node_124 --> Elosuchus	31 (ORD Naris, o)	1	0.222	1	-->	2
	69 (Premaxillae,)	1	0.455	1	-->	4
	70 (Premaxillae,)	1	0.182	0	-->	2
	80 (Maxilla, pro)	1	0.182	0	==>	1
	81 (PONC Maxilla)	1	0.154	0	==>	1
	83 (Maxilla, lat)	1	0.250	0	-->	1
	178 (PONC Jugal)	1	0.125	1	==>	2
	194 (Postorbital)	1	0.143	0	==>	1
	195 (Postorbital)	1	0.250	0	==>	1
	202 (Postorbital)	1	0.143	0	-->	1
	224 (Palatines,)	1	0.154	1	-->	2
	247 (Interchoana)	1	0.333	0	-->	
	{12}					
	248 (Interchoana)	1	0.600	0	-->	1
	346 (Surangular,)	1	0.077	0	-->	1
	360 (ORD Retroar)	1	0.222	1	-->	2
	392 (Maxillary d)	1	0.154	0	==>	1
node_124 --> Vectisuchus	7 (ORD Rostrum,)	1	0.133	1	==>	0
	113 (Supratempor)	1	0.143	0	==>	1
	314 (External ma)	1	0.100	1	==>	0
	315 (External ma)	1	0.417	0	==>	1
	363 (Retroarticu)	1	0.286	0	-->	1
	448 (ORD Limb bo)	1	0.500	0	-->	1
	449 (PONC Limb b)	1	0.400	0	-->	1
node_141 --> node_140	26 (Neurovascula)	1	0.500	0	==>	1
	79 (Maxilla, mor)	1	0.143	0	-->	1
	86 (Maxilla, pre)	1	0.250	0	==>	1
	89 (Maxilla, pre)	1	0.500	0	==>	1
	122 (PONC Suprat)	1	0.167	1	==>	0
	202 (Postorbital)	1	0.143	0	-->	1
	223 (Palatines,)	1	0.167	1	==>	0
node_140 --> Calsoyasuchus	48 (PONC Antorbi)	1	0.333	0	==>	2
	49 (Antorbital c)	1	0.333	0	-->	1
	66 (PONC Premaxi)	1	0.222	1	==>	0
	74 (Nasals, gene)	1	0.250	0	==>	1
	75 (Nasals, dors)	1	0.500	0	==>	2
	179 (PONC Jugal)	1	0.250	2	==>	0
	205 (Maxillo-pal)	1	0.667	0	-->	2
	217 (Palate, dir)	1	0.182	2	==>	1
	245 (Interchoana)	1	0.250	0	==>	1
node_140 --> node_139	5 (Rostrum, leng)	1	0.125	3	-->	1
	12 (Ornamentatio)	1	0.333	1	==>	0
	31 (ORD Naris, o)	1	0.222	1	==>	2

	43 (Antorbital c)	1	0.143	1	==>	0
	44 (Antorbital c)	1	0.167	1	==>	0
	53 (PONC Lachrym)	1	0.250	0	==>	1
	80 (Maxilla, pro)	1	0.182	0	==>	1
	105 (Supratempor)	1	0.250	0	==>	1
	178 (PONC Jugal)	1	0.125	0	-->	1
	224 (Palatines,)	1	0.154	1	==>	2
	318 (Mandible, p)	1	0.222	0	-->	1
	324 (PONC Mandib)	1	0.286	1	-->	0
	341 (Splentials,)	1	0.167	0	-->	1
	359 (ORD Retroar)	1	0.222	1	-->	0
node_139 --> node_130	110 (Supratempor)	1	0.111	2	-->	1
	205 (Maxillo-pal)	1	0.667	0	-->	2
	313 (PONC Extern)	1	0.143	0	==>	1
	332 (PONC Symphy)	1	0.200	0	==>	1
node_130 --> node_128	81 (PONC Maxilla)	1	0.154	1	-->	0
	225 (Palatines,)	1	0.222	0	-->	1
	348 (Surangular,)	1	0.111	0	==>	1
	407 (PONC Symphy)	1	0.222	0	-->	1
node_128 --> Eutretauranosuch	113 (Supratempor)	1	0.143	0	==>	1
	213 (Palate, rel)	1	0.500	1	-->	0
	238 (Choanae, sh)	1	0.250	0	-->	1
node_128 --> Sunosuchusjungga	5 (Rostrum, leng)	1	0.125	1	-->	2
	102 (Frontal sag)	1	0.071	0	==>	1
	294 (Quadrate, p)	1	0.167	0	-->	1
	463 (Proximal ca)	1	0.250	0	-->	1
	478 (Presacral d)	1	0.125	1	-->	0
node_130 --> node_129	315 (External ma)	1	0.417	0	==>	4
	316 (External ma)	1	0.167	0	==>	1
	346 (Surangular,)	1	0.077	0	-->	1
node_129 --> Sunosuchusmiaoi	7 (ORD Rostrum,)	1	0.133	1	-->	0
	109 (Supratempor)	1	0.077	1	-->	0
	137 (Frontal, mo)	1	0.053	1	-->	0
node_139 --> node_138	29 (Perinarial c)	1	0.333	0	==>	1
	58 (Rostrum, mor)	1	0.222	0	==>	1
	82 (Maxilla, num)	1	0.111	0	==>	1
	99 (PONC Prefron)	1	0.250	0	==>	1
	134 (Frontal, pr)	1	0.111	0	==>	1
	277 (Exoccipital)	1	0.200	0	-->	1
	373 (Anterior to)	1	0.167	0	==>	1
	384 (Occlusion,)	1	0.167	1	-->	0
	391 (PONC Last p)	1	0.333	1	==>	2
	393 (Maxillary d)	1	0.273	0	==>	1
	397 (PONC Maxill)	1	0.231	1	==>	2
node_138 --> Siamosuchusphuph	72 (ORD Nasals,)	1	0.286	1	==>	2
	102 (Frontal sag)	1	0.071	0	==>	1
	202 (Postorbital)	1	0.143	1	==>	0
	421 (Presacral v)	1	0.143	0	-->	1
node_138 --> node_137	41 (Postnarial f)	1	1.000	0	-->	1
	65 (Premaxillae,)	1	0.364	3	==>	4
	76 (Nasals, morp)	1	0.100	1	==>	0
	101 (Transverse)	1	0.500	0	==>	1
	109 (Supratempor)	1	0.077	1	-->	0
	124 (Supratempor)	1	0.167	0	==>	1
	138 (Frontal, me)	1	0.333	0	-->	1
	149 (Upper tempo)	1	0.333	0	-->	1
	152 (ORD Postorb)	1	0.500	0	-->	1
	189 (PONC Palpeb)	1	0.333	1	-->	2
	307 (Cranioquadr)	1	0.429	3	-->	0
node_137 --> Amphicotylusluca	67 (Premaxillae,)	1	0.250	0	==>	1
	107 (Supratempor)	1	0.125	0	-->	1
	111 (Supratempor)	1	0.235	0	==>	3
	121 (Supratempor)	1	1.000	0	==>	1
	166 (PONC Latero)	1	0.182	0	==>	1
	215 (Palate, com)	1	0.111	0	-->	1
	224 (Palatines,)	1	0.154	2	==>	0
	387 (Premaxillar)	1	0.143	0	==>	1
node_137 --> node_136	34 (Naris, prese)	1	0.500	0	-->	1
	122 (PONC Suprat)	1	0.167	0	==>	2
	126 (PONC Prefro)	1	0.286	0	-->	1
	136 (Frontal, mo)	1	0.100	1	==>	2
	142 (Frontal (an)	1	0.167	0	-->	1
	167 (Laterotempo)	1	0.167	0	-->	1
	187 (Palpebrals,)	1	0.667	0	-->	1
node_136 --> Nannosuchus	29 (Perinarial c)	1	0.333	1	==>	0
	86 (Maxilla, pre)	1	0.250	1	==>	0
	89 (Maxilla, pre)	1	0.500	1	==>	0
	94 (Lachrymal, r)	1	0.125	1	==>	0
	104 (Crests marg)	1	0.200	0	==>	1
	123 (Supratempor)	1	0.125	0	-->	1
	175 (Jugal (ante)	1	0.091	1	==>	0
	182 (Jugal (ante)	1	0.077	1	==>	0
	194 (Postorbital)	1	0.143	1	-->	0
	373 (Anterior to)	1	0.167	1	==>	0

	393 (Maxillary d)	1	0.273	1	==>	0
node_136 --> node_135	90 (Maxilla, mor)	1	1.000	0	==>	1
	111 (Supratempor)	1	0.235	0	==>	1
	160 (PONC Orbit,)	1	0.400	1	-->	0
	180 (PONC Jugal)	1	0.333	1	==>	2
	225 (Palatines,)	1	0.222	0	-->	1
	312 (External ma)	1	0.167	2	-->	0
	402 (Symphyseal)	1	0.500	0	-->	1
	478 (Presacral d)	1	0.125	1	-->	0
node_135 --> node_132	107 (Supratempor)	1	0.125	0	-->	1
	137 (Frontal, mo)	1	0.053	1	==>	0
	141 (Frontal, pa)	1	1.000	0	==>	1
	161 (Orbit, morp)	1	0.500	0	-->	1
	348 (Surangular,)	1	0.111	0	==>	1
	398 (PONC Symphy)	1	0.500	0	-->	1
node_132 --> node_131	32 (Naris, shape)	1	0.571	0	-->	1
	69 (Premaxillae,)	1	0.455	1	-->	3
	106 (Supratempor)	1	0.182	0	-->	1
	120 (Supratempor)	1	0.125	1	==>	2
	123 (Supratempor)	1	0.125	0	-->	1
	139 (Frontal, pr)	1	1.000	0	==>	1
	238 (Choanae, sh)	1	0.250	0	==>	1
node_131 --> Goniopholissimus	113 (Supratempor)	1	0.143	0	==>	1
	312 (External ma)	1	0.167	0	-->	1
	315 (External ma)	1	0.417	0	-->	1
	346 (Surangular,)	1	0.077	0	-->	1
node_131 --> GoniopholisDORCM	5 (Rostrum, leng)	1	0.125	1	==>	2
	95 (Lachrymal, p)	1	0.200	0	==>	1
	299 (Quadrate, p)	1	0.667	0	-->	2
node_132 --> Goniopholisbaryg	198 (Postorbital)	1	0.500	1	-->	0
	273 (Exoccipital)	1	0.333	0	-->	1
	322 (ORD Mandibl)	1	0.250	1	==>	2
	421 (Presacral v)	1	0.143	0	-->	1
node_135 --> node_134	99 (PONC Prefron)	1	0.250	1	==>	0
	101 (Transverse)	1	0.500	1	==>	0
	106 (Supratempor)	1	0.182	0	-->	1
	107 (Supratempor)	1	0.125	0	-->	2
	115 (Skull roof)	1	0.500	0	==>	1
	173 (Jugal, cros)	1	0.125	1	==>	0
	178 (PONC Jugal)	1	0.125	1	==>	0
	194 (Postorbital)	1	0.143	1	-->	0
	215 (Palate, com)	1	0.111	0	-->	1
	223 (Palatines,)	1	0.167	0	==>	1
node_134 --> node_133	111 (Supratempor)	1	0.235	1	==>	3
	126 (PONC Prefro)	1	0.286	1	==>	2
	152 (ORD Postorb)	1	0.500	1	==>	2
	153 (Postorbital)	1	0.333	0	==>	1
	157 (ORD Orbits,)	1	0.222	1	==>	2
	175 (Jugal (ante)	1	0.091	1	==>	0
	187 (Palpebrals,)	1	0.667	1	==>	2
	188 (Palpebral ()	1	0.400	1	==>	2
	195 (Postorbital)	1	0.250	1	==>	0
	230 (Nasopharyng)	1	1.000	0	==>	1
	398 (PONC Symphy)	1	0.500	0	-->	2
	405 (PONC Symphy)	1	0.333	2	-->	0
node_133 --> HooleyGoniopholi	82 (Maxilla, num)	1	0.111	1	-->	0
	322 (ORD Mandibl)	1	0.250	1	==>	2
	344 (Splentials,)	1	0.167	0	-->	1
node_133 --> DolloGoniopholid	138 (Frontal, me)	1	0.333	1	-->	0
	140 (Frontal, ex)	1	0.111	1	==>	0
	329 (Mandible, p)	1	0.333	0	-->	1
	459 (Proximal ca)	1	0.167	1	-->	0
	462 (Proximal ca)	1	0.167	1	-->	0
node_134 --> HulkeGoniopholid	5 (Rostrum, leng)	1	0.125	1	==>	3
	68 (Premaxillae,)	1	0.143	1	-->	0
	82 (Maxilla, num)	1	0.111	1	-->	0
	95 (Lachrymal, p)	1	0.200	0	==>	1
	113 (Supratempor)	1	0.143	0	==>	1
	136 (Frontal, mo)	1	0.100	2	==>	1
	138 (Frontal, me)	1	0.333	1	-->	0
	145 (ORD Parieta)	1	0.133	0	==>	1
	149 (Upper tempo)	1	0.333	1	==>	0
	161 (Orbit, morp)	1	0.500	0	-->	1
	224 (Palatines,)	1	0.154	2	==>	1
	245 (Interchoana)	1	0.250	0	==>	1
node_142 --> Stolokrosuchus	28 (Foramen at p)	1	0.100	0	==>	1
	35 (Naris, prese)	1	0.333	0	==>	1
	39 (Naris, prese)	1	0.111	0	-->	1
	40 (PONC Perinar)	1	0.400	0	==>	
	{12}					
	48 (PONC Antorbi)	1	0.333	0	==>	2
	53 (PONC Lachrym)	1	0.250	0	-->	2
	64 (Premaxillae,)	1	0.333	0	==>	1
	67 (Premaxillae,)	1	0.250	0	==>	2

	70 (Premaxillae,)	1	0.182	2	==>	1
	95 (Lachrymal, p)	1	0.200	0	==>	1
	107 (Supratempor)	1	0.125	0	==>	1
	109 (Supratempor)	1	0.077	1	-->	0
	111 (Supratempor)	1	0.235	0	==>	3
	137 (Frontal, mo)	1	0.053	1	-->	0
	145 (ORD Parieta)	1	0.133	0	-->	1
	148 (Upper tempo)	1	0.077	0	==>	1
	178 (PONC Jugal)	1	0.125	0	==>	2
	191 (Postorbital)	1	0.125	1	==>	0
	196 (Postorbital)	1	0.250	1	-->	0
	341 (Splentials,)	1	0.167	0	-->	1
	394 (PONC Maxill)	1	0.200	2	==>	1
node_164 --> node_163	5 (Rostrum, leng)	1	0.125	1	-->	2
	43 (Antorbital c)	1	0.143	1	==>	0
	82 (Maxilla, num)	1	0.111	0	-->	1
	135 (Frontal, ge)	1	0.143	0	-->	1
	178 (PONC Jugal)	1	0.125	0	-->	1
	215 (Palate, com)	1	0.111	0	-->	1
	224 (Palatines,)	1	0.154	0	-->	2
	242 (PONC Choana)	1	0.500	1	==>	2
	312 (External ma)	1	0.167	2	-->	0
	338 (Dentary, mo)	1	0.143	2	-->	0
	397 (PONC Maxill)	1	0.231	1	==>	2
	473 (PONC Presac)	1	0.400	0	==>	1
node_163 --> Rugosuchus	7 (ORD Rostrum,)	1	0.133	1	==>	0
	36 (Naris, compo)	1	0.333	1	-->	0
	81 (PONC Maxilla)	1	0.154	1	==>	0
	86 (Maxilla, pre)	1	0.250	0	==>	1
	87 (Maxilla, pre)	1	1.000	0	==>	1
	102 (Frontal sag)	1	0.071	0	==>	1
	103 (Parietal sa)	1	0.500	0	==>	1
	104 (Crests marg)	1	0.200	0	==>	1
	110 (Supratempor)	1	0.111	0	-->	1
	136 (Frontal, mo)	1	0.100	1	==>	0
	148 (Upper tempo)	1	0.077	0	==>	1
	238 (Choanae, sh)	1	0.250	0	==>	1
	276 (Exoccipital)	1	0.333	1	==>	0
	333 (Symphysis,)	1	0.300	0	-->	1
	363 (Retroarticu)	1	0.286	0	==>	1
node_163 --> node_162	2 (Skull geometr)	1	0.455	2	-->	1
	31 (ORD Naris, o)	1	0.222	1	-->	2
	37 (Naris, prese)	1	0.375	2	==>	0
	44 (Antorbital c)	1	0.167	1	-->	0
	167 (Laterotempo)	1	0.167	0	-->	1
	168 (Laterotempo)	1	0.333	1	-->	0
	180 (PONC Jugal)	1	0.333	1	-->	2
	191 (Postorbital)	1	0.125	1	==>	0
	217 (Palate, dir)	1	0.182	1	-->	0
	219 (Palate, rel)	1	0.167	0	-->	1
	235 (ORD Choanae)	1	0.286	1	==>	2
	343 (PONC Spleni)	1	0.286	1	==>	0
	422 (Caudal vert)	1	1.000	0	==>	1
	426 (Axial hypap)	1	0.500	1	-->	0
	443 (Ilium, morp)	1	0.667	0	-->	1
	469 (PONC Presac)	1	0.333	0	-->	1
node_162 --> Bernissartia	5 (Rostrum, leng)	1	0.125	2	-->	0
	58 (Rostrum, mor)	1	0.222	0	==>	1
	65 (Premaxillae,)	1	0.364	0	==>	3
	67 (Premaxillae,)	1	0.250	0	==>	1
	72 (ORD Nasals,)	1	0.286	2	==>	1
	98 (Lachrymal, e)	1	0.100	1	==>	0
	123 (Supratempor)	1	0.125	0	-->	2
	149 (Upper tempo)	1	0.333	0	==>	1
	189 (PONC Palpeb)	1	0.333	1	-->	0
	196 (Postorbital)	1	0.250	1	-->	2
	224 (Palatines,)	1	0.154	2	-->	1
	234 (PONC Choana)	1	0.250	1	-->	0
	257 (Ectopterygo)	1	0.250	1	==>	0
	277 (Exoccipital)	1	0.200	0	==>	1
	309 (Cranioquadr)	1	0.333	0	==>	1
	318 (Mandible, p)	1	0.222	0	==>	2
	329 (Mandible, p)	1	0.333	0	-->	1
	340 (Dentary dis)	1	0.167	1	==>	0
	359 (ORD Retroar)	1	0.222	1	-->	0
	375 (Mid to post)	1	0.500	0	==>	
	{13}					
	378 (Carinae, pr)	1	0.125	1	==>	0
	393 (Maxillary d)	1	0.273	0	==>	1
	395 (Maxillary t)	1	0.333	0	-->	1
	404 (Symphyseal)	1	0.111	0	==>	1
	456 (Humerus, pr)	1	0.500	1	-->	0
	481 (Postsacral)	1	0.167	1	==>	0
node_162 --> node_161	57 (Rostrum, ty)	1	0.182	2	==>	1

	68 (Premaxillae,)	1	0.143	1	-->	0
	136 (Frontal, mo)	1	0.100	1	==>	2
	240 (PONC Choana)	1	0.154	2	-->	1
	242 (PONC Choana)	1	0.500	2	==>	3
	303 (External au)	1	1.000	1	-->	0
	338 (Dentary, mo)	1	0.143	0	-->	2
	420 (Presacral v)	1	0.250	0	==>	1
	471 (Presacral n)	1	0.333	0	==>	1
	472 (Presacral d)	1	0.250	0	==>	1
	475 (Presacral d)	1	0.250	1	==>	0
node_161 --> node_143	32 (Naris, shape)	1	0.571	0	==>	2
	56 (Rostrum, pre)	1	0.077	1	-->	0
	80 (Maxilla, pro)	1	0.182	1	==>	0
	81 (PONC Maxilla)	1	0.154	1	-->	2
	137 (Frontal, mo)	1	0.053	1	==>	0
	392 (Maxillary d)	1	0.154	1	==>	0
node_143 --> Susisuchus	7 (ORD Rostrum,)	1	0.133	1	==>	2
	17 (Ornamentatio)	1	0.167	1	-->	0
	18 (Ornamentatio)	1	0.200	1	-->	0
	78 (Maxilla, par)	1	0.143	0	==>	1
	162 (Laterotempo)	1	0.200	1	==>	0
	166 (PONC Latero)	1	0.182	0	==>	1
	181 (Jugal (ante)	1	0.100	1	==>	0
	182 (Jugal (ante)	1	0.077	1	==>	0
	469 (PONC Presac)	1	0.333	1	-->	0
node_143 --> Isisfordia	110 (Supratempor)	1	0.111	0	-->	2
	216 (Palate, pre)	1	0.250	0	-->	1
	225 (Palatines,)	1	0.222	0	-->	1
	312 (External ma)	1	0.167	0	-->	2
	313 (PONC Extern)	1	0.143	0	-->	2
	{12}					
	348 (Surangular,)	1	0.111	0	-->	1
	385 (Premaxillar)	1	0.143	1	-->	0
	397 (PONC Maxill)	1	0.231	2	-->	0
	469 (PONC Presac)	1	0.333	1	-->	2
node_161 --> node_160	5 (Rostrum, leng)	1	0.125	2	-->	1
	202 (Postorbital)	1	0.143	0	-->	1
	233 (Choanae, si)	1	1.000	1	==>	0
	234 (PONC Choana)	1	0.250	1	-->	0
	236 (Choanae, po)	1	1.000	0	==>	1
	243 (Choanae, pr)	1	1.000	0	==>	1
	244 (Interchoana)	1	0.250	1	==>	0
	252 (Ectopterygo)	1	0.333	1	==>	0
	285 (Laterosphen)	1	0.500	0	-->	1
	368 (PONC Poster)	1	0.222	0	==>	1
	369 (PONC Mid to)	1	0.286	0	==>	1
	383 (Occlusion,)	1	0.200	1	==>	0
	384 (Occlusion,)	1	0.167	1	==>	0
	419 (Vertebrae,)	1	1.000	0	==>	1
node_160 --> node_145	56 (Rostrum, pre)	1	0.077	1	-->	0
	81 (PONC Maxilla)	1	0.154	1	-->	2
	123 (Supratempor)	1	0.125	0	-->	2
	223 (Palatines,)	1	0.167	1	==>	0
	224 (Palatines,)	1	0.154	2	==>	0
	277 (Exoccipital)	1	0.200	0	==>	1
	307 (Cranioquadr)	1	0.429	3	==>	0
	395 (Maxillary t)	1	0.333	0	-->	1
node_145 --> Allodaposuchus	105 (Supratempor)	1	0.250	0	==>	1
	110 (Supratempor)	1	0.111	0	-->	2
	111 (Supratempor)	1	0.235	0	==>	4
	113 (Supratempor)	1	0.143	0	==>	2
	148 (Upper tempo)	1	0.077	0	-->	1
	151 (Upper tempo)	1	0.111	0	-->	1
	217 (Palate, dir)	1	0.182	0	==>	1
	375 (Mid to post)	1	0.500	0	==>	1
	393 (Maxillary d)	1	0.273	0	-->	1
	410 (Dentary too)	1	0.286	0	-->	1
node_145 --> node_144	92 (Maxilla, pre)	1	0.500	0	==>	1
	93 (Maxilla, pre)	1	0.200	0	==>	1
	94 (Lachrymal, r)	1	0.125	1	==>	0
	98 (Lachrymal, e)	1	0.100	1	==>	0
	136 (Frontal, mo)	1	0.100	2	==>	0
	137 (Frontal, mo)	1	0.053	1	==>	0
	182 (Jugal (ante)	1	0.077	1	==>	0
	191 (Postorbital)	1	0.125	0	==>	1
	192 (Postorbital)	1	0.167	0	==>	1
	207 (Suborbital)	1	0.500	0	==>	1
	393 (Maxillary d)	1	0.273	0	-->	2
	397 (PONC Maxill)	1	0.231	2	==>	3
node_144 --> Iharkutosuchus	5 (Rostrum, leng)	1	0.125	1	-->	0
	78 (Maxilla, par)	1	0.143	0	==>	1
	80 (Maxilla, pro)	1	0.182	1	-->	0
	91 (Maxilla, ext)	1	0.333	1	-->	0
	108 (PONC Suprat)	1	0.500	0	==>	2

	148 (Upper tempo)	1	0.077	0	-->	1
	181 (Jugal (ante)	1	0.100	1	==>	0
	206 (ORD Suborbi)	1	0.500	2	==>	1
	261 (ORD Pterygo)	1	0.286	1	-->	0
	263 (Pterygoid v)	1	0.333	0	-->	1
	265 (Pterygoid v)	1	0.200	1	==>	0
	293 (Quadrate, o)	1	0.200	0	-->	1
	317 (Mandible, p)	1	0.125	1	-->	0
	320 (Mandible, o)	1	0.200	0	-->	1
	322 (ORD Mandibl)	1	0.250	1	-->	2
	325 (Mandible, p)	1	0.333	0	-->	1
	336 (ORD Symphys)	1	0.200	1	-->	2
	338 (Dentary, mo)	1	0.143	2	-->	1
	342 (Splentials,)	1	0.250	1	-->	0
	345 (Splential, p)	1	0.333	0	-->	1
	373 (Anterior to)	1	0.167	0	==>	1
	377 (Mid to post)	1	1.000	0	-->	2
	378 (Carinae, pr)	1	0.125	1	-->	0
	385 (Premaxillar)	1	0.143	1	-->	0
	390 (Premaxillar)	1	0.250	0	-->	1
	392 (Maxillary d)	1	0.154	1	-->	0
	408 (Dentary too)	1	0.111	1	-->	0
node_144 --> Hylaeochamps	104 (Crests marg)	1	0.200	0	-->	1
	110 (Supratempor)	1	0.111	0	-->	1
	131 (Prefrontal)	1	0.500	1	-->	0
	140 (Frontal, ex)	1	0.111	1	==>	0
	151 (Upper tempo)	1	0.111	0	-->	1
	196 (Postorbital)	1	0.250	1	-->	2
	266 (PONC Suprao)	1	0.500	0	-->	1
node_160 --> node_159	23 (Neurovascula)	1	0.333	1	-->	0
	24 (Neurovascula)	1	0.250	1	==>	0
	33 (Naris, dista)	1	0.333	0	==>	1
	119 (Supratempor)	1	0.500	0	==>	1
	129 (Prefrontal)	1	0.333	0	==>	1
	188 (Palpebral (	1	0.400	1	-->	0
	216 (Palate, pre)	1	0.250	0	-->	1
	278 (Exoccipital)	1	0.333	0	==>	1
	302 (External au)	1	1.000	0	==>	1
	308 (Cranioquadr)	1	1.000	0	==>	1
	312 (External ma)	1	0.167	0	-->	2
	313 (PONC Extern)	1	0.143	0	-->	1
	348 (Surangular,)	1	0.111	0	-->	1
	353 (Angular, pr)	1	0.250	0	==>	1
	360 (ORD Retroar)	1	0.222	1	-->	2
	364 (Retroarticu)	1	0.333	0	-->	1
	421 (Presacral v)	1	0.143	0	-->	1
	457 (Ulna, morph)	1	1.000	0	-->	1
	468 (Dermal armo)	1	0.400	2	-->	1
	470 (PONC Presac)	1	0.500	2	-->	1
	474 (Presacral d)	1	1.000	0	-->	1
node_159 --> node_148	5 (Rostrum, leng)	1	0.125	1	-->	3
	17 (Ornamentatio)	1	0.167	1	-->	0
	32 (Naris, shape)	1	0.571	0	==>	2
	65 (Premaxillae,)	1	0.364	0	-->	3
	69 (Premaxillae,)	1	0.455	4	-->	2
	72 (ORD Nasals,)	1	0.286	2	==>	1
	83 (Maxilla, lat)	1	0.250	0	-->	1
	326 (Mandible, r)	1	1.000	1	==>	0
	332 (PONC Symphy)	1	0.200	0	==>	2
	343 (PONC Spleni)	1	0.286	0	==>	1
	352 (Coronoid, m)	1	0.500	1	-->	0
	361 (Retroarticu)	1	0.250	0	==>	1
	375 (Mid to post)	1	0.500	0	==>	1
	405 (PONC Symphy)	1	0.333	1	==>	2
	407 (PONC Symphy)	1	0.222	0	==>	2
	416 (Middle and)	1	0.500	0	==>	1
node_148 --> node_147	15 (Ornamentatio)	1	0.333	1	==>	0
	80 (Maxilla, pro)	1	0.182	1	==>	0
	81 (PONC Maxilla)	1	0.154	1	-->	0
	95 (Lachrymal, p)	1	0.200	0	==>	1
	145 (ORD Parieta)	1	0.133	0	==>	1
	157 (ORD Orbits,)	1	0.222	1	==>	2
	192 (Postorbital)	1	0.167	0	==>	1
	241 (Choanae, or)	1	0.143	0	==>	1
	268 (Exoccipital)	1	1.000	0	==>	1
	317 (Mandible, p)	1	0.125	1	==>	0
	392 (Maxillary d)	1	0.154	1	==>	0
	408 (Dentary too)	1	0.111	1	==>	0
	426 (Axial hypap)	1	0.500	0	==>	1
	471 (Presacral n)	1	0.333	1	==>	0
node_147 --> node_146	6 (ORD Rostrum,)	1	0.182	0	==>	1
	8 (Rostrum, rela)	1	0.182	1	-->	2
	16 (Ornamentatio)	1	0.200	1	-->	0
	64 (Premaxillae,)	1	0.333	0	==>	1

	69 (Premaxillae,)	1	0.455	2	==>	1
	70 (Premaxillae,)	1	0.182	2	-->	0
	72 (ORD Nasals,)	1	0.286	1	==>	0
	106 (Supratempor)	1	0.182	0	==>	1
	107 (Supratempor)	1	0.125	0	==>	1
	110 (Supratempor)	1	0.111	0	-->	2
	136 (Frontal, mo)	1	0.100	2	==>	1
	142 (Frontal (an)	1	0.167	0	==>	1
	151 (Upper tempo)	1	0.111	0	==>	1
	173 (Jugal, cros)	1	0.125	1	==>	0
	191 (Postorbital)	1	0.125	0	==>	1
	196 (Postorbital)	1	0.250	1	-->	2
	224 (Palatines,)	1	0.154	2	==>	1
	284 (Anterior fo)	1	1.000	1	==>	0
	285 (Laterosphen)	1	0.500	1	-->	0
	324 (PONC Mandib)	1	0.286	1	==>	0
	333 (Symphysis,)	1	0.300	0	-->	3
	343 (PONC Spleni)	1	0.286	1	==>	2
	385 (Premaxillar)	1	0.143	1	-->	0
	473 (PONC Presac)	1	0.400	1	-->	0
node_146 --> Gavialis	7 (ORD Rostrum,)	1	0.133	1	==>	0
	131 (Prefrontal)	1	0.500	1	-->	0
	133 (Frontal, wi)	1	0.167	0	==>	1
	134 (Frontal, pr)	1	0.111	0	==>	1
	215 (Palate, com)	1	0.111	1	==>	0
	240 (PONC Choana)	1	0.154	1	==>	0
	257 (Ectopterygo)	1	0.250	1	==>	0
	261 (ORD Pterygo)	1	0.286	1	==>	0
	288 (Basioccipit)	1	0.333	0	==>	1
	338 (Dentary, mo)	1	0.143	2	-->	0
	431 (Posterior c)	1	0.333	0	-->	1
	450 (Limb bones,)	1	0.400	1	-->	0
	456 (Humerus, pr)	1	0.500	1	-->	0
	479 (Presacral v)	1	1.000	1	-->	0
	486 (M. caudofem)	1	1.000	1	-->	0
node_146 --> Piscogavialis	111 (Supratempor)	1	0.235	0	-->	2
	120 (Supratempor)	1	0.125	1	-->	0
	135 (Frontal, ge)	1	0.143	1	-->	0
	148 (Upper tempo)	1	0.077	0	==>	1
	313 (PONC Extern)	1	0.143	1	-->	2
node_147 --> Eosuchus	120 (Supratempor)	1	0.125	1	-->	0
	123 (Supratempor)	1	0.125	0	-->	2
	135 (Frontal, ge)	1	0.143	1	-->	0
	244 (Interchoana)	1	0.250	0	==>	1
	313 (PONC Extern)	1	0.143	1	-->	2
	336 (ORD Symphys)	1	0.200	1	-->	2
	407 (PONC Symphy)	1	0.222	2	==>	1
node_148 --> Tomistoma	8 (Rostrum, rela)	1	0.182	1	-->	2
	16 (Ornamentatio)	1	0.200	1	-->	0
	67 (Premaxillae,)	1	0.250	0	-->	1
	70 (Premaxillae,)	1	0.182	2	==>	1
	82 (Maxilla, num)	1	0.111	1	-->	0
	123 (Supratempor)	1	0.125	0	-->	2
	124 (Supratempor)	1	0.167	0	==>	1
	148 (Upper tempo)	1	0.077	0	==>	1
	208 (ORD Anteroc)	1	0.667	0	==>	1
	224 (Palatines,)	1	0.154	2	==>	0
	264 (Pterygoid v)	1	0.250	0	-->	1
	266 (PONC Suprao)	1	0.500	0	==>	1
	283 (Lateral car)	1	0.500	0	==>	1
	294 (Quadrate, p)	1	0.167	0	-->	1
	301 (Quadrate co)	1	0.500	0	==>	1
	305 (Otic apertu)	1	0.500	0	-->	1
	325 (Mandible, p)	1	0.333	0	==>	1
	328 (Mandible, m)	1	0.167	0	==>	1
	333 (Symphysis,)	1	0.300	0	-->	3
	336 (ORD Symphys)	1	0.200	1	-->	2
	385 (Premaxillar)	1	0.143	1	-->	0
	397 (PONC Maxill)	1	0.231	2	-->	1
	406 (Symphyseal)	1	0.200	0	==>	1
	442 (Ilium, pres)	1	0.500	0	-->	1
node_159 --> node_158	27 (Neurovascula)	1	1.000	0	-->	1
	67 (Premaxillae,)	1	0.250	0	-->	1
	69 (Premaxillae,)	1	0.455	4	-->	0
	70 (Premaxillae,)	1	0.182	2	-->	0
	120 (Supratempor)	1	0.125	1	-->	0
	168 (Laterotempo)	1	0.333	0	==>	1
	169 (Laterotempo)	1	0.500	0	==>	1
	170 (Laterotempo)	1	1.000	1	==>	0
	189 (PONC Palpeb)	1	0.333	1	-->	0
	264 (Pterygoid v)	1	0.250	0	-->	1
	294 (Quadrate, p)	1	0.167	0	-->	1
	305 (Otic apertu)	1	0.500	0	-->	1
	318 (Mandible, p)	1	0.222	0	==>	2

	329 (Mandible, p)	1	0.333	0	-->	1
	342 (Spleniials,)	1	0.250	1	-->	0
	395 (Maxillary t)	1	0.333	0	-->	1
	431 (Posterior c)	1	0.333	0	-->	1
	439 (Scapula, sy)	1	0.250	1	==>	0
node_158 --> node_151	57 (Rostrum, ty)	1	0.182	1	-->	2
	58 (Rostrum, mor)	1	0.222	0	-->	1
	65 (Premaxillae,)	1	0.364	0	-->	3
	83 (Maxilla, lat)	1	0.250	0	-->	1
	124 (Supratempor)	1	0.167	0	==>	1
	166 (PONC Latero)	1	0.182	0	==>	2
	208 (ORD Anteroc)	2	0.667	0	==>	2
	283 (Lateral car)	1	0.500	0	==>	1
	301 (Quadrate co)	1	0.500	0	==>	1
	330 (Mandible, p)	1	0.250	0	==>	1
	350 (Surangular,)	1	0.200	0	==>	1
	404 (Symphyseal)	1	0.111	0	-->	1
	469 (PONC Presac)	1	0.333	1	==>	2
node_151 --> node_149	32 (Naris, shape)	1	0.571	0	==>	2
	69 (Premaxillae,)	1	0.455	0	-->	2
	70 (Premaxillae,)	1	0.182	0	==>	1
	85 (Maxilla, pre)	1	1.000	0	==>	1
	110 (Supratempor)	1	0.111	0	-->	2
	116 (Skull roof,)	1	1.000	0	-->	1
	122 (PONC Suprat)	1	0.167	1	==>	0
	134 (Frontal, pr)	1	0.111	0	==>	1
	148 (Upper tempo)	1	0.077	0	==>	1
	154 (PONC Squamo)	1	0.667	0	==>	1
	204 (Quadratojug)	1	0.250	0	-->	1
	241 (Choanae, or)	1	0.143	0	==>	1
	328 (Mandible, m)	1	0.167	0	-->	1
	333 (Symphysis,)	1	0.300	0	==>	1
	337 (Dentary, pr)	1	1.000	0	==>	2
	361 (Retroarticu)	1	0.250	0	==>	1
	442 (Ilium, pres)	1	0.500	0	-->	2
	470 (PONC Presac)	1	0.500	1	==>	0
node_149 --> Crocodylusniloti	5 (Rostrum, leng)	1	0.125	1	-->	2
	168 (Laterotempo)	1	0.333	1	==>	0
	169 (Laterotempo)	1	0.500	1	==>	0
node_149 --> Crocodylusporosu	5 (Rostrum, leng)	1	0.125	1	-->	3
	99 (PONC Prefron)	1	0.250	0	-->	1
	157 (ORD Orbits,)	1	0.222	1	==>	2
	225 (Palatines,)	1	0.222	0	==>	1
	249 (Perichoanal)	1	0.333	0	-->	1
node_151 --> node_150	99 (PONC Prefron)	1	0.250	0	-->	1
	108 (PONC Suprat)	1	0.500	0	==>	1
	232 (Anterochoan)	1	1.000	0	==>	1
	249 (Perichoanal)	1	0.333	0	-->	1
	251 (Perichoanal)	1	1.000	0	==>	1
	384 (Occlusion,)	1	0.167	0	==>	1
	442 (Ilium, pres)	1	0.500	0	-->	1
node_150 --> Osteolaemus	37 (Naris, prese)	1	0.375	0	==>	1
	39 (Naris, prese)	1	0.111	0	==>	1
	120 (Supratempor)	1	0.125	0	==>	1
	222 (Palatines,)	1	0.333	1	==>	0
	224 (Palatines,)	1	0.154	2	==>	1
	240 (PONC Choana)	1	0.154	1	==>	0
	328 (Mandible, m)	1	0.167	0	-->	1
node_150 --> Voay	104 (Crests marg)	1	0.200	0	==>	1
	110 (Supratempor)	1	0.111	0	-->	2
	154 (PONC Squamo)	1	0.667	0	==>	2
	167 (Laterotempo)	1	0.167	1	==>	0
	204 (Quadratojug)	1	0.250	0	-->	1
	217 (Palate, dir)	1	0.182	0	==>	1
	250 (Perichoanal)	1	0.500	0	==>	1
	439 (Scapula, sy)	1	0.250	0	==>	1
	473 (PONC Presac)	1	0.400	1	==>	0
node_158 --> node_157	81 (PONC Maxilla)	1	0.154	1	-->	2
	219 (Palate, rel)	1	0.167	1	==>	0
	225 (Palatines,)	1	0.222	0	==>	1
	244 (Interchoana)	1	0.250	0	==>	1
	250 (Perichoanal)	1	0.500	0	==>	1
	252 (Ectopterygo)	1	0.333	0	==>	1
	299 (Quadrate, p)	1	0.667	0	==>	1
	349 (PONC Surang)	1	0.250	0	==>	1
	366 (Retroarticu)	1	1.000	0	==>	1
	410 (Dentary too)	1	0.286	0	==>	1
node_157 --> node_156	8 (Rostrum, rela)	1	0.182	1	==>	2
	56 (Rostrum, pre)	1	0.077	1	==>	0
	217 (Palate, dir)	1	0.182	0	-->	1
	304 (External au)	1	1.000	0	==>	1
	319 (Mandible, o)	1	0.333	0	==>	1
	320 (Mandible, o)	1	0.200	0	==>	1
	383 (Occlusion,)	1	0.200	0	==>	1

	384 (Occlusion,)	1	0.167	0 ==>	1
	404 (Symphyseal)	1	0.111	0 -->	1
	425 (Axis, morph)	1	1.000	1 -->	0
	442 (Ilium, pres)	1	0.500	0 -->	1
	483 (Tongue, pre)	1	1.000	0 -->	1
	484 (Functional)	1	1.000	1 -->	0
node_156 --> node_152	92 (Maxilla, pre)	1	0.500	0 ==>	1
	93 (Maxilla, pre)	1	0.200	0 ==>	1
	98 (Lachrymal, e)	1	0.100	1 ==>	0
	473 (PONC Presac)	1	0.400	1 ==>	2
node_152 --> Brachychampsa	32 (Naris, shape)	1	0.571	0 ==>	2
	33 (Naris, dista)	1	0.333	1 ==>	0
	66 (PONC Premaxi)	1	0.222	1 ==>	2
	68 (Premaxillae,)	1	0.143	0 ==>	1
	69 (Premaxillae,)	1	0.455	0 ==>	5
	70 (Premaxillae,)	1	0.182	0 ==>	2
	106 (Supratempor)	1	0.182	0 ==>	1
	110 (Supratempor)	1	0.111	0 -->	2
	123 (Supratempor)	1	0.125	0 ==>	2
	126 (PONC Prefro)	1	0.286	0 ==>	1
	215 (Palate, com)	1	0.111	1 ==>	0
	223 (Palatines,)	1	0.167	1 ==>	0
	229 (Nasopharyng)	1	0.200	0 ==>	1
	322 (ORD Mandibl)	1	0.250	1 ==>	0
	387 (Premaxillar)	1	0.143	0 ==>	1
node_152 --> Alligatormississ	37 (Naris, prese)	1	0.375	0 ==>	1
	39 (Naris, prese)	1	0.111	0 ==>	1
	99 (PONC Prefron)	1	0.250	0 -->	1
	167 (Laterotempo)	1	0.167	1 -->	0
node_156 --> node_155	239 (Choanae, sh)	1	0.500	0 -->	3
	167 (Laterotempo)	1	0.167	1 -->	0
	204 (Quadratojug)	1	0.250	0 ==>	1
	239 (Choanae, sh)	1	0.500	0 -->	3
	268 (Exoccipital)	1	1.000	0 ==>	2
	327 (Mandible, p)	1	1.000	0 ==>	1
	328 (Mandible, m)	1	0.167	0 ==>	1
	350 (Surangular,)	1	0.200	0 ==>	1
	437 (Atlantal ri)	1	1.000	0 ==>	1
	438 (Scapulocora)	1	1.000	0 ==>	1
	480 (Presacral v)	1	0.500	0 -->	1
node_155 --> node_154	67 (Premaxillae,)	1	0.250	1 ==>	2
	94 (Lachrymal, r)	1	0.125	1 ==>	0
	100 (Transverse)	1	1.000	0 ==>	1
	108 (PONC Suprat)	1	0.500	0 -->	1
	109 (Supratempor)	1	0.077	1 -->	0
	114 (Supratempor)	1	1.000	0 -->	1
	122 (PONC Suprat)	1	0.167	1 ==>	0
	240 (PONC Choana)	1	0.154	1 ==>	0
	351 (PONC Corono)	1	1.000	0 -->	1
	352 (Coronoid, m)	1	0.500	1 ==>	0
	468 (Dermal armo)	1	0.400	1 -->	2
	470 (PONC Presac)	1	0.500	1 -->	0
node_154 --> Caimanrocrodilus	99 (PONC Prefron)	1	0.250	0 -->	1
node_154 --> node_153	99 (PONC Prefron)	1	0.250	0 -->	2
	120 (Supratempor)	1	0.125	0 -->	1
	479 (Presacral v)	1	1.000	1 ==>	2
node_153 --> Melanosuchus	221 (Vomer, vent)	1	0.200	0 ==>	1
	249 (Perichoanal)	1	0.333	0 ==>	1
node_155 --> Paleosuchus	69 (Premaxillae,)	1	0.455	0 ==>	2
	70 (Premaxillae,)	1	0.182	0 ==>	1
	108 (PONC Suprat)	1	0.500	0 -->	2
	120 (Supratempor)	1	0.125	0 -->	1
	135 (Frontal, ge)	1	0.143	1 ==>	0
	136 (Frontal, mo)	1	0.100	2 ==>	1
	137 (Frontal, mo)	1	0.053	1 ==>	0
	166 (PONC Latero)	1	0.182	0 ==>	1
	227 (Palatines,)	1	1.000	0 ==>	1
	351 (PONC Corono)	1	1.000	0 -->	2
	439 (Scapula, sy)	1	0.250	0 ==>	1
	443 (Ilium, morp)	1	0.667	1 ==>	0
	470 (PONC Presac)	1	0.500	1 -->	2
node_157 --> Diplocynodon	57 (Rostrum, ty)	1	0.182	1 -->	2
	58 (Rostrum, mor)	1	0.222	0 -->	1
	72 (ORD Nasals,)	1	0.286	2 ==>	1
	137 (Frontal, mo)	1	0.053	1 ==>	0
	143 (Frontal, pr)	1	0.500	0 ==>	1
	239 (Choanae, sh)	1	0.500	0 -->	4
	241 (Choanae, or)	1	0.143	0 ==>	1
	403 (Symphyseal)	1	0.250	0 ==>	1
	443 (Ilium, morp)	1	0.667	1 ==>	2
	480 (Presacral v)	1	0.500	0 -->	1
node_166 --> node_165	5 (Rostrum, leng)	1	0.125	1 -->	0
	52 (Antorbital c)	1	0.167	1 -->	0
	53 (PONC Lachrym)	1	0.250	0 -->	1

	58 (Rostrum, mor)	1	0.222	0	==>	1
	82 (Maxilla, num)	1	0.111	0	-->	1
	94 (Lachrymal, r)	1	0.125	1	-->	0
	102 (Frontal sag)	1	0.071	0	==>	1
	103 (Parietal sa)	1	0.500	0	==>	1
	135 (Frontal, ge)	1	0.143	0	-->	1
	155 (Squamosal,)	1	1.000	0	==>	1
	174 (Jugal, heig)	1	0.143	1	-->	0
	175 (Jugal (ante)	1	0.091	1	==>	0
	181 (Jugal (ante)	1	0.100	1	==>	0
	182 (Jugal (ante)	1	0.077	1	==>	0
	202 (Postorbital)	1	0.143	0	-->	1
	318 (Mandible, p)	1	0.222	0	==>	2
	393 (Maxillary d)	1	0.273	0	==>	2
node_165 --> Theriosuchuspusi	104 (Crests marg)	1	0.200	0	-->	1
	105 (Supratempor)	1	0.250	0	-->	1
	110 (Supratempor)	1	0.111	0	-->	1
	215 (Palate, com)	1	0.111	0	-->	1
	238 (Choanae, sh)	1	0.250	0	-->	1
	245 (Interchoana)	1	0.250	0	-->	1
	312 (External ma)	1	0.167	2	-->	0
	378 (Carinae, pr)	1	0.125	1	-->	0
	459 (Proximal ca)	1	0.167	1	-->	0
	462 (Proximal ca)	1	0.167	1	-->	0
node_165 --> Theriosuchusguim	78 (Maxilla, par)	1	0.143	0	==>	1
	98 (Lachrymal, e)	1	0.100	1	==>	0
	198 (Postorbital)	1	0.500	1	-->	0
	314 (External ma)	1	0.100	1	-->	0
	324 (PONC Mandib)	1	0.286	1	-->	0
	332 (PONC Symphy)	1	0.200	0	==>	1
	420 (Presacral v)	1	0.250	0	-->	1
node_198 --> node_197	40 (PONC Perinar)	1	0.400	0	==>	2
	84 (Maxilla, pos)	1	0.500	1	-->	0
	98 (Lachrymal, e)	1	0.100	1	==>	0
	122 (PONC Suprat)	1	0.167	1	-->	0
	123 (Supratempor)	1	0.125	0	==>	1
	179 (PONC Jugal)	1	0.250	0	-->	1
	229 (Nasopharyng)	1	0.200	0	-->	1
	315 (External ma)	1	0.417	0	==>	3
	316 (External ma)	1	0.167	0	==>	1
	318 (Mandible, p)	1	0.222	0	==>	1
	341 (Splentials,)	1	0.167	0	==>	1
	348 (Surangular,)	1	0.111	0	==>	1
	463 (Proximal ca)	1	0.250	0	-->	1
node_197 --> node_194	1 (Skull height,)	1	0.111	1	==>	0
	6 (ORD Rostrum,)	1	0.182	0	-->	1
	12 (Ornamentatio)	1	0.333	1	==>	2
	38 (Naris, proje)	1	0.250	0	-->	1
	52 (Antorbital c)	1	0.167	1	-->	0
	81 (PONC Maxilla)	1	0.154	1	-->	0
	133 (Frontal, wi)	1	0.167	0	==>	1
	237 (PONC Choana)	1	0.500	2	==>	1
	256 (Ectopterygo)	1	0.333	0	-->	1
	313 (PONC Extern)	1	0.143	0	==>	1
	347 (Surangular,)	1	0.500	0	-->	1
node_194 --> node_186	56 (Rostrum, pre)	1	0.077	1	-->	0
	62 (PONC Premaxi)	1	0.667	2	==>	1
	94 (Lachrymal, r)	1	0.125	1	-->	0
	292 (ORD Quadrat)	1	0.286	2	-->	1
	293 (Quadrato, o)	1	0.200	0	-->	1
	314 (External ma)	1	0.100	1	-->	0
	335 (Symphysis,)	1	0.167	0	-->	1
	353 (Angular, pr)	1	0.250	0	-->	1
	356 (PONC Mandib)	1	0.667	2	==>	1
	359 (ORD Retroar)	1	0.222	1	-->	0
	382 (Occlusion,)	1	0.143	0	-->	1
	396 (Maxillary/d)	1	0.200	0	==>	1
node_186 --> node_185	175 (Jugal (ante)	1	0.091	1	==>	0
	178 (PONC Jugal)	1	0.125	0	==>	1
	191 (Postorbital)	1	0.125	1	==>	0
	217 (Palate, dir)	1	0.182	1	-->	2
	332 (PONC Symphy)	1	0.200	0	-->	1
	345 (Splential, p)	1	0.333	0	-->	1
	355 (Mandiblular)	1	1.000	0	==>	1
	378 (Carinae, pr)	1	0.125	1	-->	0
	393 (Maxillary d)	1	0.273	0	-->	2
	410 (Dentary too)	1	0.286	0	-->	2
	468 (Dermal armo)	1	0.400	2	-->	1
node_185 --> node_179	28 (Foramen at p)	1	0.100	0	-->	1
	35 (Naris, prese)	1	0.333	0	-->	1
	40 (PONC Perinar)	1	0.400	2	==>	1
	166 (PONC Latero)	1	0.182	0	==>	1
	173 (Jugal, cros)	1	0.125	1	==>	0
	179 (PONC Jugal)	1	0.250	1	==>	0

	182 (Jugal (ante))	1	0.077	1	==>	0
	234 (PONC Choana)	1	0.250	1	-->	2
	263 (Pterygoid v)	1	0.333	0	==>	1
	307 (Cranioquadr)	1	0.429	3	==>	2
	316 (External ma)	1	0.167	1	-->	0
	392 (Maxillary d)	1	0.154	1	==>	2
node_179 --> node_177	5 (Rostrum, leng)	1	0.125	1	==>	0
	19 (Ornamentatio)	1	1.000	1	==>	0
	48 (PONC Antorbi)	1	0.333	1	-->	0
	79 (Maxilla, mor)	1	0.143	0	-->	1
	300 (Quadrate co)	1	1.000	0	==>	1
	322 (ORD Mandibl)	1	0.250	1	==>	0
	324 (PONC Mandib)	1	0.286	1	-->	2
	356 (PONC Mandib)	1	0.667	1	==>	0
node_177 --> node_176	2 (Skull geometr)	1	0.455	0	==>	4
	10 (Ornamentatio)	1	1.000	0	-->	1
	11 (Ornamentatio)	1	0.250	1	-->	0
	43 (Antorbital c)	1	0.143	1	==>	0
	44 (Antorbital c)	1	0.167	1	==>	0
	75 (Nasals, dors)	1	0.500	0	-->	1
	215 (Palate, com)	1	0.111	0	==>	1
	222 (Palatines,)	1	0.333	1	==>	0
	239 (Choanae, sh)	1	0.500	0	==>	1
	240 (PONC Choana)	1	0.154	2	-->	1
	256 (Ectopterygo)	1	0.333	1	-->	0
	259 (Pterygoid,)	1	0.500	0	==>	1
	260 (Pterygoid,)	1	0.500	0	==>	1
	315 (External ma)	1	0.417	3	-->	0
	340 (Dentary dis)	1	0.167	1	==>	0
	382 (Occlusion,)	1	0.143	1	==>	0
	385 (Premaxillar)	1	0.143	1	-->	2
	393 (Maxillary d)	1	0.273	2	==>	0
	394 (PONC Maxill)	1	0.200	2	-->	0
	424 (Axis, devel)	1	1.000	1	-->	0
	428 (Anterior (p)	1	0.250	1	-->	0
	432 (Sacral vert)	1	0.500	0	-->	1
	450 (Limb bones,)	1	0.400	1	-->	2
	455 (Femur, rela)	1	0.500	1	-->	0
node_176 --> node_174	37 (Naris, prese)	1	0.375	2	==>	0
	73 (ORD Nasals,)	1	0.333	1	==>	0
	76 (Nasals, morp)	1	0.100	1	==>	0
	156 (Squamosal,)	1	0.333	0	-->	1
	180 (PONC Jugal)	1	0.333	1	==>	0
	228 (PONC Palati)	1	1.000	0	-->	1
	229 (Nasopharyng)	1	0.200	1	-->	0
	320 (Mandible, o)	1	0.200	0	==>	1
	343 (PONC Spleni)	1	0.286	1	==>	0
	344 (Splentials,)	1	0.167	0	==>	1
	408 (Dentary too)	1	0.111	1	==>	0
node_174 --> node_173	7 (ORD Rostrum,)	1	0.133	1	==>	0
	39 (Naris, prese)	1	0.111	1	-->	0
	55 (Rostrum, mor)	1	0.500	0	==>	1
	62 (PONC Premaxi)	1	0.667	1	-->	0
	80 (Maxilla, pro)	1	0.182	1	==>	0
	98 (Lachrymal, e)	1	0.100	0	==>	1
	110 (Supratempor)	1	0.111	0	-->	1
	145 (ORD Parieta)	1	0.133	0	-->	1
	181 (Jugal (ante)	1	0.100	1	-->	0
	190 (Palpebrals,)	1	0.667	2	-->	0
	221 (Vomer, vent)	1	0.200	0	==>	1
	247 (Interchoana)	1	0.333	0	-->	1
	269 (Exoccipital)	1	0.250	0	-->	1
	318 (Mandible, p)	1	0.222	1	-->	0
	321 (Mandible, m)	1	1.000	0	==>	1
	338 (Dentary, mo)	1	0.143	2	-->	1
	368 (PONC Poster)	1	0.222	0	==>	2
	379 (PONC Carina)	1	0.250	1	==>	2
	386 (Premaxillar)	1	0.500	0	==>	1
	392 (Maxillary d)	1	0.154	2	-->	0
	393 (Maxillary d)	1	0.273	0	==>	3
	394 (PONC Maxill)	1	0.200	0	==>	1
	401 (Symphyseal)	1	0.667	0	==>	1
	405 (PONC Symphy)	1	0.333	1	==>	2
	407 (PONC Symphy)	1	0.222	0	==>	1
	414 (ORD Maxilla)	1	1.000	0	==>	1
	430 (Anterior ce)	1	1.000	0	-->	1
node_173 --> node_167	1 (Skull height,)	1	0.111	0	==>	1
	71 (Premaxilla,)	1	0.250	0	-->	1
	102 (Frontal sag)	1	0.071	0	-->	1
	137 (Frontal, mo)	1	0.053	0	-->	1
	158 (Orbits, ori)	1	0.250	0	-->	1
	179 (PONC Jugal)	1	0.250	0	==>	1
	188 (Palpebral ()	1	0.400	1	==>	0
	189 (PONC Palpeb)	1	0.333	1	==>	0

	205 (Maxillo-pal)	1	0.667	0	==>	1
	254 (Ectopterygo)	1	0.500	0	==>	1
	295 (Quadrate, p)	1	0.250	0	==>	1
	349 (PONC Surang)	1	0.250	0	-->	2
	423 (Axis, propo)	1	0.200	1	-->	0
	427 (Third cervi)	1	1.000	1	-->	0
	429 (Posterior c)	1	0.250	1	-->	0
	431 (Posterior c)	1	0.333	0	-->	1
node_167 --> Notosuchus	43 (Antorbital c)	1	0.143	0	==>	1
	44 (Antorbital c)	1	0.167	0	==>	1
	48 (PONC Antorbi)	1	0.333	0	==>	1
	67 (Premaxillae,)	1	0.250	0	-->	1
	{12}					
	68 (Premaxillae,)	1	0.143	1	-->	0
	69 (Premaxillae,)	1	0.455	4	-->	0
	70 (Premaxillae,)	1	0.182	2	-->	1
	105 (Supratempor)	1	0.250	0	-->	1
	130 (Prefrontal)	1	0.333	1	-->	0
	180 (PONC Jugal)	1	0.333	0	==>	1
	255 (Ectopterygo)	1	0.500	0	==>	1
	313 (PONC Extern)	1	0.143	1	==>	2
	315 (External ma)	1	0.417	0	==>	1
	331 (Symphysis,)	1	0.167	0	==>	1
	341 (Splentials,)	1	0.167	1	-->	0
	376 (Mid to post)	1	0.500	0	==>	1
	380 (Carinae (ma)	1	0.333	0	-->	1
	440 (Coracoid, l)	1	0.500	1	-->	0
	462 (Proximal ca)	1	0.167	1	-->	0
node_167 --> Mariliasuchus	66 (PONC Premaxi)	1	0.222	1	-->	0
	78 (Maxilla, par)	1	0.143	0	-->	1
	109 (Supratempor)	1	0.077	1	-->	0
	111 (Supratempor)	1	0.235	0	==>	3
	120 (Supratempor)	1	0.125	1	==>	0
	140 (Frontal, ex)	1	0.111	1	==>	0
	219 (Palate, rel)	1	0.167	0	-->	1
	248 (Interchoana)	1	0.600	0	-->	3
	260 (Pterygoid,)	1	0.500	1	==>	0
	314 (External ma)	1	0.100	0	-->	1
	375 (Mid to post)	1	0.500	0	==>	4
node_173 --> node_172	9 (Rostrum, dors)	1	0.250	0	==>	1
	65 (Premaxillae,)	1	0.364	0	==>	2
	66 (PONC Premaxi)	1	0.222	1	-->	0
	107 (Supratempor)	1	0.125	0	==>	1
	184 (Jugal fit t)	1	1.000	0	==>	1
	219 (Palate, rel)	1	0.167	0	-->	1
	383 (Occlusion,)	1	0.200	1	==>	0
	384 (Occlusion,)	1	0.167	1	==>	0
	399 (Symphyseal)	1	1.000	0	==>	1
	406 (Symphyseal)	1	0.200	0	==>	1
	411 (PONC Dentar)	1	0.500	1	==>	0
	414 (ORD Maxilla)	1	1.000	1	==>	2
	415 (Middle and)	1	1.000	0	==>	1
node_172 --> node_168	91 (Maxilla, ext)	1	0.333	1	==>	0
	174 (Jugal, heig)	1	0.143	1	==>	0
	178 (PONC Jugal)	1	0.125	1	==>	0
	348 (Surangular,)	1	0.111	1	==>	0
node_168 --> Yacararani	1 (Skull height,)	1	0.111	0	==>	1
	39 (Naris, prese)	1	0.111	0	==>	1
	109 (Supratempor)	1	0.077	1	-->	0
	111 (Supratempor)	1	0.235	0	==>	3
	113 (Supratempor)	1	0.143	0	==>	1
	136 (Frontal, mo)	1	0.100	1	==>	0
	140 (Frontal, ex)	1	0.111	1	==>	0
	158 (Orbits, ori)	1	0.250	0	-->	1
	185 (Jugal, pres)	1	1.000	0	==>	1
	214 (Palate, par)	1	1.000	0	-->	1
	215 (Palate, com)	1	0.111	1	-->	0
	222 (Palatines,)	1	0.333	0	-->	1
	232 (Anterochoan)	1	1.000	0	==>	2
	239 (Choanae, sh)	1	0.500	1	-->	0
	240 (PONC Choana)	1	0.154	1	-->	2
	246 (Interchoana)	1	0.250	0	-->	1
	346 (Surangular,)	1	0.077	0	==>	1
	367 (Dentition,)	1	1.000	0	==>	1
	378 (Carinae, pr)	1	0.125	0	==>	1
	380 (Carinae (ma)	1	0.333	0	-->	1
	381 (Carinae (mi)	1	0.500	0	-->	1
node_168 --> Adamantinasuchus	78 (Maxilla, par)	1	0.143	0	-->	1
	102 (Frontal sag)	1	0.071	0	-->	1
	173 (Jugal, cros)	1	0.125	0	==>	1
	314 (External ma)	1	0.100	0	-->	1
node_172 --> node_171	123 (Supratempor)	1	0.125	1	==>	0
	137 (Frontal, mo)	1	0.053	0	-->	1
	374 (Mid to post)	1	1.000	0	==>	1

	376 (Mid to post)	1	0.500	0	==>	1
	380 (Carinae (ma)	1	0.333	0	-->	1
	400 (Symphyseal)	1	1.000	0	==>	1
	412 (Maxillary d)	1	1.000	0	==>	1
node_171 --> Armadillosuchus	76 (Nasals, morp)	1	0.100	0	-->	1
	106 (Supratempor)	1	0.182	0	==>	1
	107 (Supratempor)	1	0.125	1	==>	2
	110 (Supratempor)	1	0.111	1	-->	2
	148 (Upper tempo)	1	0.077	0	==>	1
	470 (PONC Presac)	1	0.500	2	-->	3
	471 (Presacral n)	1	0.333	0	-->	1
	478 (Presacral d)	1	0.125	1	-->	0
node_171 --> node_170	7 (ORD Rostrum,)	1	0.133	0	==>	1
	181 (Jugal (ante)	1	0.100	0	==>	1
	209 (Parachoanal)	1	0.500	0	-->	1
	265 (Pterygoid v)	1	0.200	0	-->	1
	310 (Oral symphy)	1	1.000	0	-->	1
	369 (PONC Mid to)	1	0.286	0	-->	2
	381 (Carinae (mi)	1	0.500	0	-->	1
	401 (Symphyseal)	1	0.667	1	==>	0
node_170 --> Sphagesaurushuen	76 (Nasals, morp)	1	0.100	0	-->	1
	231 (Nasopharyng)	1	0.500	0	-->	1
	396 (Maxillary/d)	1	0.200	1	-->	0
node_170 --> node_169	20 (Sculpturing,)	1	0.333	0	==>	1
node_169 --> Sphagesaurusmont	43 (Antorbital c)	1	0.143	0	==>	1
	44 (Antorbital c)	1	0.167	0	==>	1
	102 (Frontal sag)	1	0.071	0	-->	1
	120 (Supratempor)	1	0.125	1	-->	0
	146 (Parietal, d)	1	0.250	0	-->	1
	172 (Jugal, cros)	1	0.500	1	-->	0
	174 (Jugal, heig)	1	0.143	1	-->	0
	178 (PONC Jugal)	1	0.125	1	-->	0
	247 (Interchoana)	1	0.333	1	-->	2
	335 (Symphysis,)	1	0.167	1	-->	0
	338 (Dentary, mo)	1	0.143	1	-->	0
	349 (PONC Surang)	1	0.250	0	-->	2
node_169 --> FRAGDGM1411R	9 (Rostrum, dors)	1	0.250	1	==>	0
	11 (Ornamentatio)	1	0.250	0	==>	1
	12 (Ornamentatio)	1	0.333	2	-->	0
	28 (Foramen at p)	1	0.100	1	==>	0
node_174 --> Comahuesuchus	91 (Maxilla, ext)	1	0.333	1	==>	0
	109 (Supratempor)	1	0.077	1	-->	0
	133 (Frontal, wi)	1	0.167	1	==>	0
	134 (Frontal, pr)	1	0.111	1	==>	0
	136 (Frontal, mo)	1	0.100	1	==>	0
	140 (Frontal, ex)	1	0.111	1	==>	0
	175 (Jugal (ante)	1	0.091	0	-->	1
	319 (Mandible, o)	1	0.333	0	==>	1
	332 (PONC Symphy)	1	0.200	1	==>	0
	346 (Surangular,)	1	0.077	0	==>	1
	385 (Premaxillar)	1	0.143	2	==>	0
	391 (PONC Last p)	1	0.333	1	==>	0
	392 (Maxillary d)	1	0.154	2	-->	1
	396 (Maxillary/d)	1	0.200	1	-->	0
	398 (PONC Symphy)	1	0.500	0	==>	
	{12}					
node_176 --> node_175	5 (Rostrum, leng)	1	0.125	0	==>	2
	6 (ORD Rostrum,)	1	0.182	1	==>	2
	8 (Rostrum, rela)	1	0.182	1	==>	0
	20 (Sculpturing,)	1	0.333	0	==>	1
	38 (Naris, proje)	1	0.250	1	-->	0
	56 (Rostrum, pre)	1	0.077	0	==>	1
	57 (Rostrum, ty)	1	0.182	1	==>	2
	58 (Rostrum, mor)	1	0.222	0	==>	2
	62 (PONC Premaxi)	1	0.667	1	-->	2
	96 (Lachrymal, e)	1	0.333	1	==>	0
	102 (Frontal sag)	1	0.071	0	-->	1
	106 (Supratempor)	1	0.182	0	==>	1
	107 (Supratempor)	1	0.125	0	==>	2
	110 (Supratempor)	1	0.111	0	-->	2
	111 (Supratempor)	1	0.235	0	==>	4
	120 (Supratempor)	1	0.125	1	==>	0
	145 (ORD Parieta)	1	0.133	0	-->	1
	148 (Upper tempo)	1	0.077	0	==>	1
	151 (Upper tempo)	1	0.111	0	==>	1
	157 (ORD Orbits,)	1	0.222	1	==>	0
	173 (Jugal, cros)	1	0.125	0	==>	1
	175 (Jugal (ante)	1	0.091	0	-->	1
	182 (Jugal (ante)	1	0.077	0	==>	1
	183 (Jugal, morp)	1	0.333	0	==>	2
	191 (Postorbital)	1	0.125	0	==>	1
	203 (Quadratojug)	1	0.333	0	==>	1
	228 (PONC Palati)	1	1.000	0	-->	2
	231 (Nasopharyng)	1	0.500	0	==>	1

	254 (Ectopterygo)	1	0.500	0	==>	1
	255 (Ectopterygo)	1	0.500	0	==>	1
	261 (ORD Pterygo)	1	0.286	1	==>	2
	264 (Pterygoid v)	1	0.250	0	==>	1
	291 (ORD Quadrat)	1	0.333	1	==>	0
	314 (External ma)	1	0.100	0	-->	1
	317 (Mandible, p)	1	0.125	0	==>	1
	318 (Mandible, p)	1	0.222	1	-->	0
	336 (ORD Symphys)	1	0.200	2	==>	1
	349 (PONC Surang)	1	0.250	0	==>	1
	356 (PONC Mandib)	1	0.667	0	==>	2
	378 (Carinae, pr)	1	0.125	0	==>	1
	379 (PONC Carina)	1	0.250	1	==>	0
	396 (Maxillary/d)	1	0.200	1	-->	0
	409 (Dentary too)	1	0.250	0	==>	1
	410 (Dentary too)	1	0.286	2	==>	0
node_175 --> Baurusuchus	54 (Rostrum, ori)	1	0.500	1	==>	0
	66 (PONC Premaxi)	1	0.222	1	-->	0
	71 (Premaxilla,)	1	0.250	0	-->	1
	178 (PONC Jugal)	1	0.125	1	-->	2
	190 (Palpebrals,)	1	0.667	2	-->	1
	296 (Quadrates, s)	1	0.500	1	-->	0
	331 (Symphysis,)	1	0.167	0	-->	1
	333 (Symphysis,)	1	0.300	0	-->	1
	334 (Symphysis,)	1	0.500	0	-->	1
	335 (Symphysis,)	1	0.167	1	-->	0
	338 (Dentary, mo)	1	0.143	2	-->	0
	350 (Surangular,)	1	0.200	0	-->	1
	404 (Symphyseal)	1	0.111	0	-->	1
node_175 --> Stratiotosuchus	28 (Foramen at p)	1	0.100	1	==>	0
	137 (Frontal, mo)	1	0.053	0	==>	1
	209 (Parachoanal)	1	0.500	0	-->	1
	247 (Interchoana)	1	0.333	0	-->	1
node_177 --> Malawisuchus	46 (Antorbital c)	1	0.250	0	==>	1
	78 (Maxilla, par)	1	0.143	0	-->	1
	98 (Lachrymal, e)	1	0.100	0	==>	1
	126 (PONC Prefro)	1	0.286	0	==>	1
	136 (Frontal, mo)	1	0.100	1	==>	2
	156 (Squamosal,)	1	0.333	0	-->	1
	181 (Jugal (ante)	1	0.100	1	-->	0
	223 (Palatines,)	1	0.167	0	==>	1
	224 (Palatines,)	1	0.154	0	==>	2
	237 (PONC Choana)	1	0.500	1	==>	0
	313 (PONC Extern)	1	0.143	1	==>	2
	348 (Surangular,)	1	0.111	1	==>	0
	372 (Dentition,)	1	0.500	0	-->	1
	377 (Mid to post)	1	1.000	0	==>	1
	387 (Premaxillar)	1	0.143	0	==>	1
	417 (Middle and)	1	0.500	0	==>	1
node_179 --> node_178	7 (ORD Rostrum,)	1	0.133	1	==>	2
	9 (Rostrum, dors)	1	0.250	0	==>	1
	37 (Naris, prese)	1	0.375	2	==>	0
	95 (Lachrymal, p)	1	0.200	0	==>	1
	372 (Dentition,)	1	0.500	0	-->	1
node_178 --> Candidodon	48 (PONC Antorbi)	1	0.333	1	-->	0
	137 (Frontal, mo)	1	0.053	0	==>	1
	140 (Frontal, ex)	1	0.111	1	==>	0
	229 (Nasopharyng)	1	0.200	1	-->	0
	406 (Symphyseal)	1	0.200	0	-->	1
	407 (PONC Symphy)	1	0.222	0	-->	1
	417 (Middle and)	1	0.500	0	==>	1
node_178 --> Uruguaysuchus	39 (Naris, prese)	1	0.111	1	-->	0
	68 (Premaxillae,)	1	0.143	1	-->	0
	78 (Maxilla, par)	1	0.143	0	-->	1
	136 (Frontal, mo)	1	0.100	1	==>	2
	178 (PONC Jugal)	1	0.125	1	==>	0
	181 (Jugal (ante)	1	0.100	1	-->	0
	225 (Palatines,)	1	0.222	0	-->	1
	315 (External ma)	1	0.417	3	-->	0
	324 (PONC Mandib)	1	0.286	1	-->	0
	475 (Presacral d)	1	0.250	1	-->	0
node_185 --> node_184	16 (Ornamentatio)	1	0.200	1	==>	0
	17 (Ornamentatio)	1	0.167	1	-->	0
	74 (Nasals, gene)	1	0.250	1	==>	0
	109 (Supratempor)	1	0.077	1	==>	0
	111 (Supratempor)	1	0.235	0	==>	3
	391 (PONC Last p)	1	0.333	1	-->	0
node_184 --> node_183	56 (Rostrum, pre)	1	0.077	0	==>	1
	57 (Rostrum, ty)	1	0.182	1	==>	0
	118 (Supratempor)	1	0.250	1	==>	0
	128 (Prefrontal)	1	0.500	0	-->	1
	133 (Frontal, wi)	1	0.167	1	==>	0
	134 (Frontal, pr)	1	0.111	1	==>	0
	136 (Frontal, mo)	1	0.100	1	==>	0

	164 (Laterotempo)	1	0.143	1	-->	0
	188 (Palpebral (	1	0.400	1	-->	0
	190 (Palpebrals,)	1	0.667	2	-->	0
	202 (Postorbital)	1	0.143	0	-->	1
	204 (Quadratojug)	1	0.250	0	-->	1
	341 (Splentials,)	1	0.167	1	-->	0
	360 (ORD Retroar)	1	0.222	0	==>	1
	459 (Proximal ca)	1	0.167	1	-->	0
	460 (Proximal ca)	1	1.000	0	==>	1
	462 (Proximal ca)	1	0.167	1	-->	0
node_183 --> node_182	1 (Skull height,)	1	0.111	0	==>	1
	81 (PONC Maxilla)	1	0.154	0	-->	1
	247 (Interchoana)	1	0.333	0	==>	1
node_182 --> node_181	24 (Neurovascula)	1	0.250	1	-->	0
	25 (Neurovascula)	1	1.000	0	-->	1
	28 (Foramen at p)	1	0.100	0	-->	1
	66 (PONC Premaxi)	1	0.222	1	-->	0
	76 (Nasals, morp)	1	0.100	1	==>	0
	97 (Lachrymal, p)	1	0.333	0	-->	2
	183 (Jugal, morp)	1	0.333	0	-->	1
	248 (Interchoana)	1	0.600	0	==>	1
	379 (PONC Carina)	1	0.250	1	-->	0
node_181 --> node_180	98 (Lachrymal, e)	1	0.100	0	==>	1
	109 (Supratempor)	1	0.077	0	==>	1
	111 (Supratempor)	1	0.235	3	==>	0
	118 (Supratempor)	1	0.250	0	==>	1
	164 (Laterotempo)	1	0.143	0	==>	1
	239 (Choanae, sh)	1	0.500	0	==>	2
	246 (Interchoana)	1	0.250	0	-->	1
	363 (Retroarticu)	1	0.286	2	-->	1
	368 (PONC Poster)	1	0.222	0	==>	1
	476 (Presacral d)	1	1.000	0	-->	1
node_180 --> Araripesuchuspat	15 (Ornamentatio)	1	0.333	1	==>	0
	229 (Nasopharyng)	1	0.200	1	==>	0
	478 (Presacral d)	1	0.125	1	-->	0
node_180 --> Araripesuchusgom	175 (Jugal (ante)	1	0.091	0	-->	1
	179 (PONC Jugal)	1	0.250	1	==>	2
	217 (Palate, dir)	1	0.182	2	-->	1
	334 (Symphysis,)	1	0.500	0	-->	1
	335 (Symphysis,)	1	0.167	1	-->	0
	339 (Dentary, mo)	1	0.250	0	-->	1
	385 (Premaxillar)	1	0.143	1	==>	0
	421 (Presacral v)	1	0.143	0	-->	1
	428 (Anterior (p)	1	0.250	1	-->	0
	429 (Posterior c)	1	0.250	1	-->	0
	432 (Sacral vert)	1	0.500	0	-->	1
	481 (Postsacral)	1	0.167	1	-->	0
node_181 --> Araripesuchusweg	71 (Premaxilla,)	1	0.250	0	-->	1
	102 (Frontal sag)	1	0.071	0	==>	1
	175 (Jugal (ante)	1	0.091	0	-->	1
	295 (Quadrate, p)	1	0.250	0	==>	1
	332 (PONC Symphy)	1	0.200	1	==>	0
	335 (Symphysis,)	1	0.167	1	-->	0
	336 (ORD Symphys)	1	0.200	2	==>	1
	397 (PONC Maxill)	1	0.231	1	==>	2
	404 (Symphyseal)	1	0.111	0	==>	1
node_182 --> Araripesuchusbui	137 (Frontal, mo)	1	0.053	0	==>	1
	246 (Interchoana)	1	0.250	0	-->	1
	340 (Dentary dis)	1	0.167	1	==>	0
	344 (Splentials,)	1	0.167	0	==>	1
	387 (Premaxillar)	1	0.143	0	-->	1
node_183 --> Araripesuchustsa	8 (Rostrum, rela)	1	0.182	1	==>	2
	93 (Maxilla, pre)	1	0.200	0	==>	1
	129 (Prefrontal)	1	0.333	0	==>	1
	151 (Upper tempo)	1	0.111	0	==>	1
	181 (Jugal (ante)	1	0.100	1	-->	0
	273 (Exoccipital)	1	0.333	0	==>	1
	312 (External ma)	1	0.167	2	==>	1
	314 (External ma)	1	0.100	0	==>	1
	315 (External ma)	1	0.417	3	-->	0
	316 (External ma)	1	0.167	1	-->	0
	338 (Dentary, mo)	1	0.143	2	==>	0
	347 (Surangular,)	1	0.500	1	-->	0
	359 (ORD Retroar)	1	0.222	0	==>	1
	363 (Retroarticu)	1	0.286	2	-->	0
	382 (Occlusion,)	1	0.143	1	==>	0
	387 (Premaxillar)	1	0.143	0	-->	1
	410 (Dentary too)	1	0.286	2	==>	1
	423 (Axis, propo)	1	0.200	1	-->	0
node_184 --> CratoForm	18 (Ornamentatio)	1	0.200	1	==>	0
	28 (Foramen at p)	1	0.100	0	-->	1
	76 (Nasals, morp)	1	0.100	1	==>	0
	79 (Maxilla, mor)	1	0.143	0	-->	1
	81 (PONC Maxilla)	1	0.154	0	-->	1

	97 (Lachrymal, p)	1	0.333	0	-->	1
	102 (Frontal sag)	1	0.071	0	==>	1
	113 (Supratempor)	1	0.143	0	==>	1
	145 (ORD Parieta)	1	0.133	0	==>	1
	234 (PONC Choana)	1	0.250	1	-->	2
	240 (PONC Choana)	1	0.154	2	==>	1
	346 (Surangular,)	1	0.077	0	-->	1
	385 (Premaxillar)	1	0.143	1	==>	0
	394 (PONC Maxill)	1	0.200	2	==>	
	{01}					
	478 (Presacral d)	1	0.125	1	-->	0
	481 (Postsacral)	1	0.167	1	-->	0
node_186 --> Libycosuchus	35 (Naris, prese)	1	0.333	0	-->	1
	79 (Maxilla, mor)	1	0.143	0	-->	1
	80 (Maxilla, pro)	1	0.182	1	==>	0
	110 (Supratempor)	1	0.111	0	==>	1
	192 (Postorbital)	1	0.167	0	==>	1
	217 (Palate, dir)	1	0.182	1	-->	0
	252 (Ectopterygo)	1	0.333	1	==>	0
	318 (Mandible, p)	1	0.222	1	==>	0
	320 (Mandible, o)	1	0.200	0	==>	1
	331 (Symphysis,)	1	0.167	0	==>	1
	344 (Splentials,)	1	0.167	0	==>	1
	346 (Surangular,)	1	0.077	0	-->	1
	390 (Premaxillar)	1	0.250	0	==>	1
	391 (PONC Last p)	1	0.333	1	-->	0
	394 (PONC Maxill)	1	0.200	2	==>	1
	408 (Dentary too)	1	0.111	1	==>	0
	411 (PONC Dentar)	1	0.500	1	==>	0
node_194 --> node_193	317 (Mandible, p)	1	0.125	0	==>	1
	323 (Mandible, m)	1	0.250	0	==>	1
	324 (PONC Mandib)	1	0.286	1	-->	2
	332 (PONC Symphy)	1	0.200	0	-->	1
	333 (Symphysis,)	1	0.300	0	==>	1
	360 (ORD Retroar)	2	0.222	0	==>	2
	362 (Retroarticu)	1	0.500	1	==>	0
	404 (Symphyseal)	1	0.111	0	==>	1
node_193 --> node_192	24 (Neurovascula)	1	0.250	1	-->	0
	57 (Rostrum, ty)	1	0.182	1	-->	2
	58 (Rostrum, mor)	1	0.222	0	-->	2
	60 (Rostrum, mor)	1	0.500	0	-->	1
	69 (Premaxillae,)	1	0.455	4	-->	5
	107 (Supratempor)	1	0.125	0	-->	1
	110 (Supratempor)	1	0.111	0	-->	2
	148 (Upper tempo)	1	0.077	0	-->	1
	264 (Pterygoid v)	1	0.250	0	-->	1
	330 (Mandible, p)	1	0.250	0	==>	1
	346 (Surangular,)	1	0.077	0	-->	1
	363 (Retroarticu)	1	0.286	2	-->	1
	379 (PONC Carina)	1	0.250	1	==>	0
	393 (Maxillary d)	1	0.273	0	-->	1
	409 (Dentary too)	1	0.250	0	-->	1
node_192 --> node_188	61 (Rostrum, pre)	1	1.000	0	==>	1
	93 (Maxilla, pre)	1	0.200	0	==>	1
	94 (Lachrymal, r)	1	0.125	1	-->	0
	123 (Supratempor)	1	0.125	1	-->	2
	196 (Postorbital)	1	0.250	0	-->	1
	292 (ORD Quadrat)	1	0.286	2	-->	1
	335 (Symphysis,)	1	0.167	0	-->	1
	336 (ORD Symphys)	1	0.200	2	-->	1
	339 (Dentary, mo)	1	0.250	0	-->	1
	382 (Occlusion,)	1	0.143	0	-->	1
	389 (Premaxillar)	1	1.000	0	==>	1
	392 (Maxillary d)	1	0.154	1	-->	2
node_188 --> node_187	8 (Rostrum, rela)	1	0.182	1	==>	0
	12 (Ornamentatio)	1	0.333	2	==>	0
	82 (Maxilla, num)	1	0.111	0	-->	1
	217 (Palate, dir)	1	0.182	1	-->	2
	225 (Palatines,)	1	0.222	0	-->	2
	240 (PONC Choana)	1	0.154	2	-->	1
node_187 --> Montealtosuchus	28 (Foramen at p)	1	0.100	0	-->	1
	183 (Jugal, morp)	1	0.333	0	-->	1
	234 (PONC Choana)	1	0.250	1	-->	2
	293 (Quadrante, o)	1	0.200	0	-->	1
	323 (Mandible, m)	1	0.250	1	-->	0
	340 (Dentary dis)	1	0.167	1	-->	0
	345 (Splential, p)	1	0.333	0	-->	1
node_188 --> Uberabasuchus	2 (Skull geometr)	1	0.455	0	==>	4
	81 (PONC Maxilla)	1	0.154	0	==>	1
	111 (Supratempor)	1	0.235	0	==>	4
	122 (PONC Suprat)	1	0.167	0	==>	
	{12}					
	136 (Frontal, mo)	1	0.100	1	==>	2
	166 (PONC Latero)	1	0.182	0	==>	1

	183 (Jugal, morp)	1	0.333	0	-->	2
	197 (Postorbital)	1	0.333	0	-->	1
	322 (ORD Mandibl)	1	0.250	1	==>	2
	344 (Splentials,)	1	0.167	0	==>	1
	349 (PONC Surang)	1	0.250	0	==>	1
	361 (Retroarticu)	1	0.250	0	==>	1
	368 (PONC Poster)	1	0.222	0	==>	1
	369 (PONC Mid to)	1	0.286	0	==>	1
	373 (Anterior to)	1	0.167	0	==>	1
	385 (Premaxillar)	1	0.143	1	==>	2
node_192 --> node_191	2 (Skull geometr)	1	0.455	0	==>	5
	23 (Neurovascula)	1	0.333	1	==>	0
	36 (Naris, compo)	1	0.333	0	==>	1
	48 (PONC Antorbi)	1	0.333	1	==>	0
	82 (Maxilla, num)	1	0.111	0	-->	1
	98 (Lachrymal, e)	1	0.100	0	==>	1
	178 (PONC Jugal)	1	0.125	0	==>	2
	261 (ORD Pterygo)	1	0.286	1	==>	2
	299 (Quadrate, p)	1	0.667	0	==>	1
node_191 --> CfHamadasuchus	5 (Rostrum, leng)	1	0.125	1	-->	2
	6 (ORD Rostrum,)	1	0.182	1	-->	2
	12 (Ornamentatio)	1	0.333	2	==>	0
	52 (Antorbital c)	1	0.167	0	==>	1
	65 (Premaxillae,)	1	0.364	0	-->	3
	68 (Premaxillae,)	1	0.143	1	-->	0
	123 (Supratempor)	1	0.125	1	-->	2
	221 (Vomer, vent)	1	0.200	0	==>	1
	225 (Palatines,)	1	0.222	0	-->	2
	234 (PONC Choana)	1	0.250	1	-->	0
	235 (ORD Choanae)	1	0.286	1	==>	2
	237 (PONC Choana)	1	0.500	1	==>	2
	241 (Choanae, or)	1	0.143	1	==>	0
	265 (Pterygoid v)	1	0.200	0	-->	1
	278 (Exoccipital)	1	0.333	0	==>	1
	368 (PONC Poster)	1	0.222	0	==>	1
	392 (Maxillary d)	1	0.154	1	-->	2
	397 (PONC Maxill)	1	0.231	1	==>	2
node_191 --> node_190	31 (ORD Naris, o)	1	0.222	0	==>	1
	38 (Naris, proje)	1	0.250	1	==>	0
	58 (Rostrum, mor)	1	0.222	2	==>	1
	182 (Jugal (ante)	1	0.077	1	==>	0
	293 (Quadrate, o)	1	0.200	0	-->	1
	371 (Dentition,)	1	0.333	0	==>	1
node_190 --> Caririsuchus	5 (Rostrum, leng)	1	0.125	1	-->	2
	43 (Antorbital c)	1	0.143	1	==>	0
	60 (Rostrum, mor)	1	0.500	1	==>	0
	107 (Supratempor)	1	0.125	1	==>	0
	178 (PONC Jugal)	1	0.125	2	==>	1
	324 (PONC Mandib)	1	0.286	2	-->	0
	452 (ORD Limb bo)	1	0.500	1	-->	2
	478 (Presacral d)	1	0.125	1	-->	0
node_190 --> node_189	6 (ORD Rostrum,)	1	0.182	1	-->	2
	9 (Rostrum, dors)	1	0.250	0	==>	1
	318 (Mandible, p)	1	0.222	1	==>	0
	393 (Maxillary d)	1	0.273	1	==>	0
	405 (PONC Symphy)	1	0.333	1	-->	2
	406 (Symphyseal)	1	0.200	0	-->	1
	407 (PONC Symphy)	1	0.222	0	-->	1
node_189 --> Sebecus	40 (PONC Perinar)	1	0.400	2	-->	0
	65 (Premaxillae,)	1	0.364	0	-->	3
	66 (PONC Premaxi)	1	0.222	1	-->	0
	80 (Maxilla, pro)	1	0.182	1	-->	2
	102 (Frontal sag)	1	0.071	0	-->	1
	136 (Frontal, mo)	1	0.100	1	-->	2
	137 (Frontal, mo)	1	0.053	0	-->	1
	197 (Postorbital)	1	0.333	0	-->	1
	257 (Ectopterygo)	1	0.250	1	-->	0
	313 (PONC Extern)	1	0.143	1	-->	0
	357 (Mandibular)	1	0.250	0	-->	1
	404 (Symphyseal)	1	0.111	1	==>	0
node_189 --> FRAGBergisuchus	53 (PONC Lachrym)	1	0.250	2	==>	1
node_193 --> FRAGSMNS81977	336 (ORD Symphys)	1	0.200	2	-->	1
	378 (Carinae, pr)	1	0.125	1	-->	0
	397 (PONC Maxill)	1	0.231	1	==>	2
node_197 --> node_196	7 (ORD Rostrum,)	1	0.133	1	==>	2
	16 (Ornamentatio)	1	0.200	1	==>	0
	46 (Antorbital c)	1	0.250	0	==>	1
	93 (Maxilla, pre)	1	0.200	0	==>	1
	235 (ORD Choanae)	1	0.286	1	==>	2
	245 (Interchoana)	1	0.250	0	==>	1
	262 (Pterygoid v)	1	0.500	0	==>	1
	319 (Mandible, o)	1	0.333	0	==>	1
	320 (Mandible, o)	1	0.200	0	==>	1
	322 (ORD Mandibl)	1	0.250	1	==>	0

	331 (Symphysis,)	1	0.167	0	==>	1
	343 (PONC Spleni)	1	0.286	1	==>	0
	353 (Angular, pr)	1	0.250	0	-->	1
	390 (Premaxillar)	1	0.250	0	==>	1
node_196 --> Anatosuchus	28 (Foramen at p)	1	0.100	0	-->	1
	38 (Naris, proje)	1	0.250	0	-->	1
	52 (Antorbital c)	1	0.167	1	-->	0
	56 (Rostrum, pre)	1	0.077	1	-->	0
	71 (Premaxilla,)	1	0.250	0	==>	1
	79 (Maxilla, mor)	1	0.143	0	-->	1
	102 (Frontal sag)	1	0.071	0	-->	1
	151 (Upper tempo)	1	0.111	0	-->	1
	162 (Laterotempo)	1	0.200	1	==>	0
	178 (PONC Jugal)	1	0.125	0	-->	1
	182 (Jugal (ante)	1	0.077	1	==>	0
	191 (Postorbital)	1	0.125	1	==>	0
	234 (PONC Choana)	1	0.250	1	-->	0
	292 (ORD Quadrat)	1	0.286	2	-->	1
	307 (Cranioquadr)	1	0.429	3	==>	0
	339 (Dentary, mo)	1	0.250	0	-->	1
	344 (Splentials,)	1	0.167	0	-->	1
	357 (Mandibular)	1	0.250	0	-->	1
	368 (PONC Poster)	1	0.222	0	==>	1
	369 (PONC Mid to)	1	0.286	0	==>	1
	382 (Occlusion,)	1	0.143	0	-->	1
	385 (Premaxillar)	1	0.143	1	-->	0
	391 (PONC Last p)	1	0.333	1	==>	0
	408 (Dentary too)	1	0.111	1	==>	0
	410 (Dentary too)	1	0.286	0	==>	1
	428 (Anterior (p)	1	0.250	1	-->	0
	429 (Posterior c)	1	0.250	1	-->	0
	452 (ORD Limb bo)	1	0.500	1	==>	2
	469 (PONC Presac)	1	0.333	0	-->	1
	470 (PONC Presac)	1	0.500	2	-->	0
node_196 --> node_195	17 (Ornamentatio)	1	0.167	1	==>	0
	31 (ORD Naris, o)	1	0.222	0	==>	1
	77 (Nasals, fusi)	1	0.500	0	==>	1
	107 (Supratempor)	1	0.125	0	==>	2
	119 (Supratempor)	1	0.500	0	==>	1
	124 (Supratempor)	1	0.167	0	==>	1
	126 (PONC Prefro)	1	0.286	0	==>	1
	136 (Frontal, mo)	1	0.100	1	==>	2
	145 (ORD Parieta)	1	0.133	0	==>	1
	173 (Jugal, cros)	1	0.125	1	==>	0
	176 (Jugal, alig)	1	1.000	0	==>	1
	177 (Jugal, pres)	1	1.000	0	==>	1
	178 (PONC Jugal)	1	0.125	0	-->	2
	215 (Palate, com)	1	0.111	0	-->	1
	224 (Palatines,)	1	0.154	0	-->	2
	247 (Interchoana)	1	0.333	0	-->	1
	256 (Ectopterygo)	1	0.333	0	-->	1
	261 (ORD Pterygo)	1	0.286	1	==>	2
	330 (Mandible, p)	1	0.250	0	==>	1
	409 (Dentary too)	1	0.250	0	==>	1
	411 (PONC Dentar)	1	0.500	1	==>	0
node_195 --> Kaposuchus	1 (Skull height,)	1	0.111	1	==>	0
	5 (Rostrum, leng)	1	0.125	1	-->	3
	18 (Ornamentatio)	1	0.200	1	==>	0
	29 (Perinarial c)	1	0.333	0	-->	1
	31 (ORD Naris, o)	1	0.222	1	-->	2
	32 (Naris, shape)	1	0.571	0	-->	4
	34 (Naris, prese)	1	0.500	0	-->	1
	37 (Naris, prese)	1	0.375	2	-->	1
	39 (Naris, prese)	1	0.111	1	-->	0
	40 (PONC Perinar)	1	0.400	2	-->	1
	50 (Antorbital c)	1	0.200	0	==>	1
	57 (Rostrum, ty)	1	0.182	1	==>	2
	58 (Rostrum, mor)	1	0.222	0	==>	1
	66 (PONC Premaxi)	1	0.222	1	-->	0
	76 (Nasals, morp)	1	0.100	1	-->	0
	82 (Maxilla, num)	1	0.111	0	==>	1
	102 (Frontal sag)	1	0.071	0	-->	1
	109 (Supratempor)	1	0.077	1	==>	0
	123 (Supratempor)	1	0.125	1	==>	2
	135 (Frontal, ge)	1	0.143	0	==>	1
	151 (Upper tempo)	1	0.111	0	-->	1
	180 (PONC Jugal)	1	0.333	1	-->	2
	183 (Jugal, morp)	1	0.333	0	-->	1
	218 (Palate, pre)	1	1.000	0	==>	1
	234 (PONC Choana)	1	0.250	1	-->	0
	239 (Choanae, sh)	1	0.500	0	-->	2
	240 (PONC Choana)	1	0.154	2	-->	0
	241 (Choanae, or)	1	0.143	1	==>	0
	246 (Interchoana)	1	0.250	0	==>	1

	248 (Interchoana)	1	0.600	0	-->	3
	328 (Mandible, m)	1	0.167	0	==>	1
	349 (PONC Surang)	1	0.250	0	==>	1
	383 (Occlusion,)	1	0.200	1	-->	0
	385 (Premaxillar)	1	0.143	1	-->	2
	392 (Maxillary d)	1	0.154	1	==>	2
	397 (PONC Maxill)	1	0.231	1	==>	2
node_195 --> Mahajangasuchus	28 (Foramen at p)	1	0.100	0	-->	1
	56 (Rostrum, pre)	1	0.077	1	-->	0
	99 (PONC Prefron)	1	0.250	0	==>	2
	110 (Supratempor)	1	0.111	0	-->	2
	111 (Supratempor)	1	0.235	0	==>	4
	113 (Supratempor)	1	0.143	0	==>	1
	137 (Frontal, mo)	1	0.053	0	==>	1
	148 (Upper tempo)	1	0.077	0	==>	1
	154 (PONC Squamo)	1	0.667	0	==>	2
	166 (PONC Latero)	1	0.182	0	==>	1
	183 (Jugal, morp)	1	0.333	0	-->	2
	196 (Postorbital)	1	0.250	0	-->	
	{12}					
	200 (Postorbital)	1	0.500	1	-->	2
	239 (Choanae, sh)	1	0.500	0	-->	1
	240 (PONC Choana)	1	0.154	2	-->	1
	242 (PONC Choana)	1	0.500	1	==>	2
	248 (Interchoana)	1	0.600	0	-->	2
	257 (Ectopterygo)	1	0.250	1	==>	0
	278 (Exoccipital)	1	0.333	0	-->	1
	294 (Quadrate, p)	1	0.167	1	-->	0
	337 (Dentary, pr)	1	1.000	0	==>	1
	338 (Dentary, mo)	1	0.143	2	==>	0
	339 (Dentary, mo)	1	0.250	0	-->	1
	342 (Splentials,)	1	0.250	1	==>	0
	357 (Mandibular)	1	0.250	0	-->	1
	360 (ORD Retroar)	1	0.222	0	==>	1
	379 (PONC Carina)	1	0.250	1	-->	0
	394 (PONC Maxill)	1	0.200	2	==>	1
	450 (Limb bones,)	1	0.400	1	-->	2
	475 (Presacral d)	1	0.250	1	-->	0

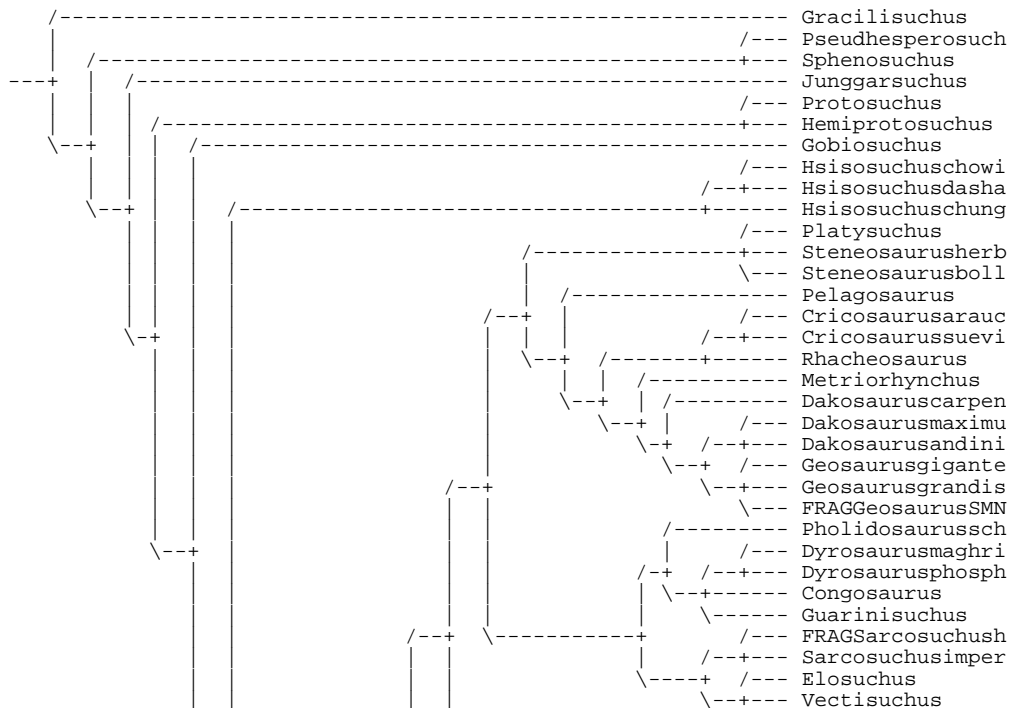
Outgroup status changed:

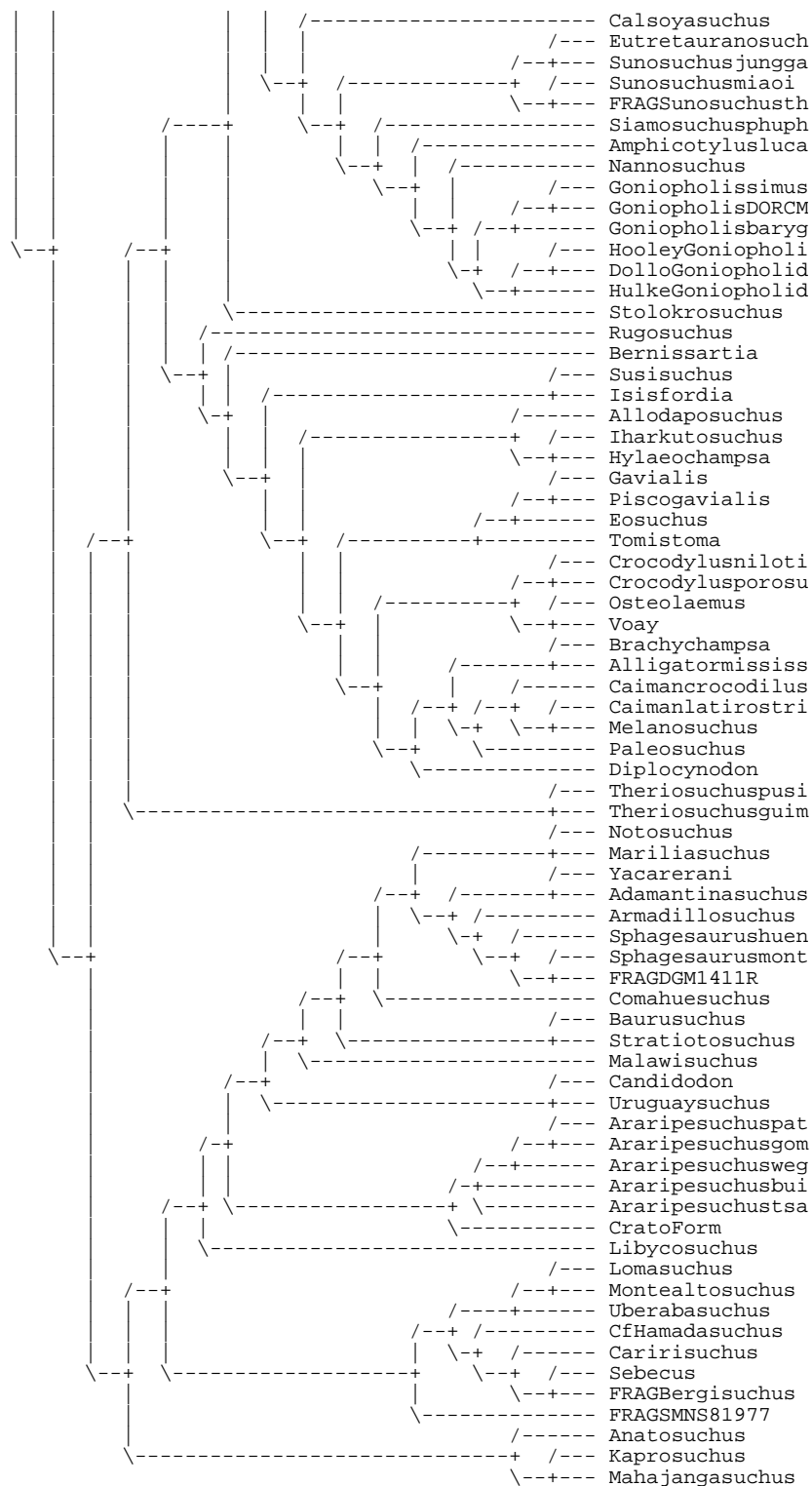
1 taxon transferred to outgroup
 Total number of taxa now in outgroup = 1
 Number of ingroup taxa = 103

2 trees converted from unrooted to rooted.

2 trees saved to file "C:\Documents and Settings\MarcoBranda\Desktop\PhD Analysis\CrocAnalysis.tre"

Strict consensus of 2 trees:





Consensus tree(s) written to treefile: C:\Documents and Settings\MarcoBranda\Desktop\PhD Analysis\CrocConStr.tre

2.1.2. COMPLEMENTARY ANALYSIS excluding:
-> Nannosuchus

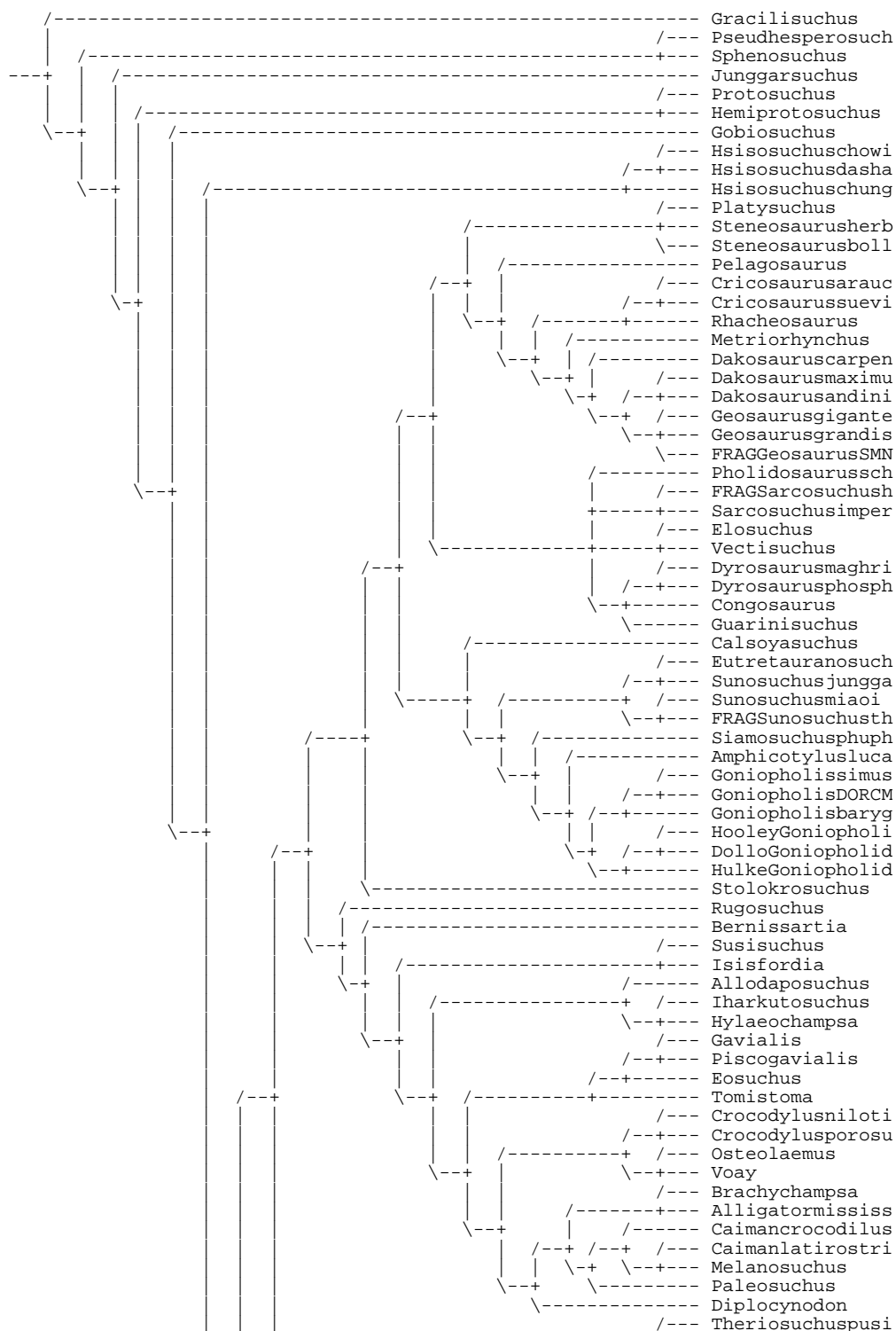
Heuristic search completed
Total number of rearrangements tried = 146662873
Score of best tree(s) found = 2174

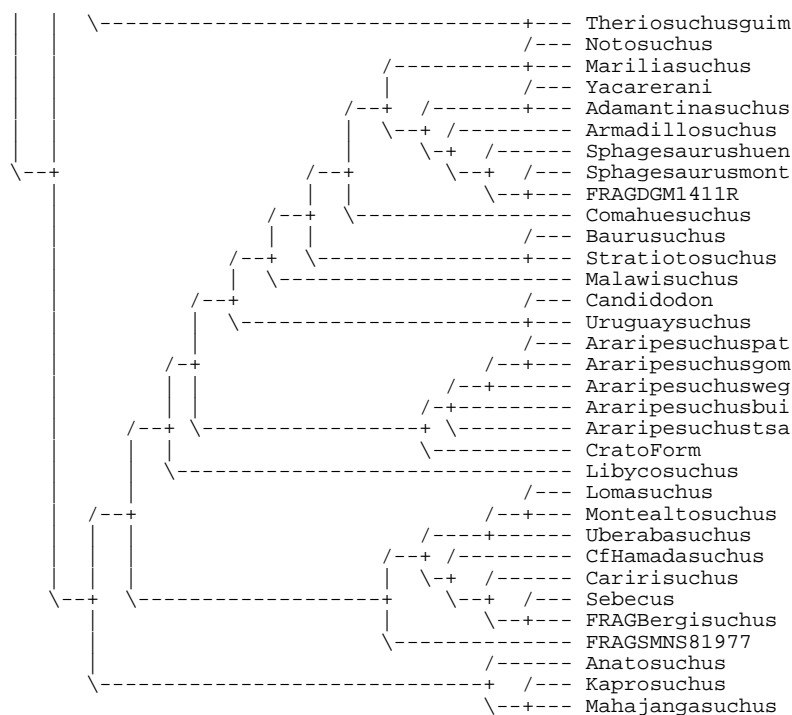
Number of trees retained = 6

Tree description:

Tree length = 2174
 Consistency index (CI) = 0.2971
 Homoplasy index (HI) = 0.7029
 CI excluding uninformative characters = 0.2919
 HI excluding uninformative characters = 0.7081
 Retention index (RI) = 0.7629
 Rescaled consistency index (RC) = 0.2267

Strict consensus of 6 trees:





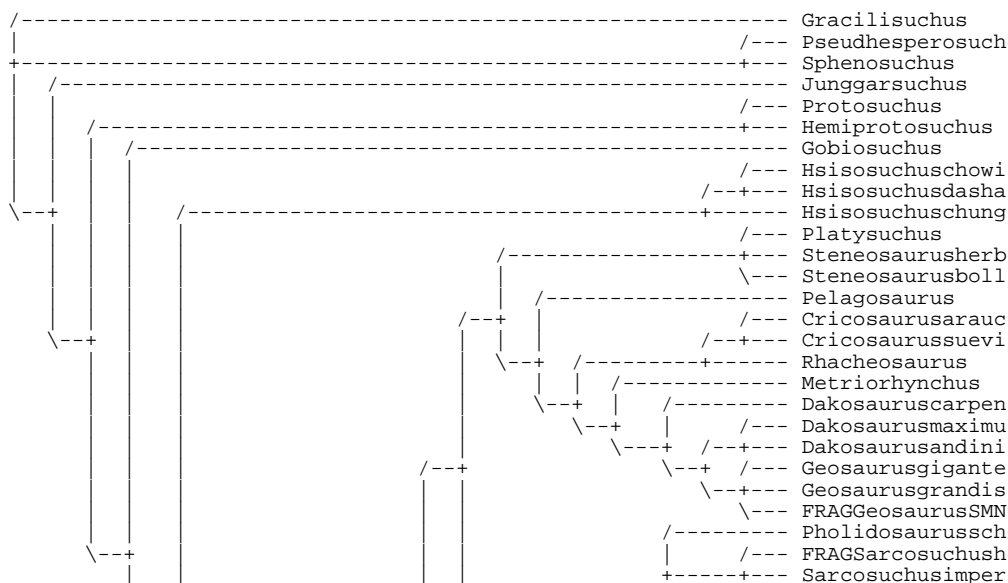
2.1.3. COMPLEMENTARY ANALYSIS including:
-> Denazinosuchus

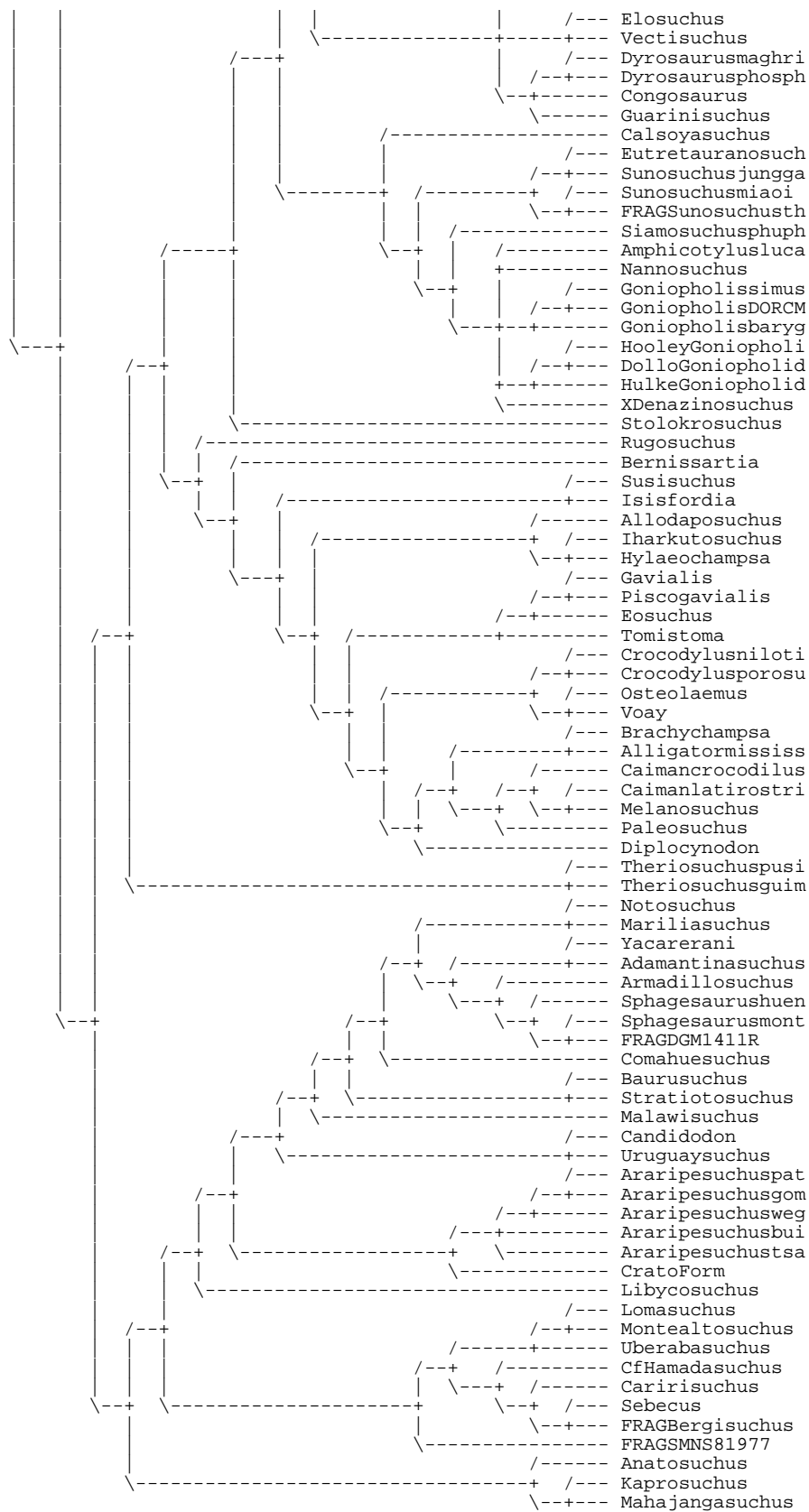
Heuristic search completed
Total number of rearrangements tried = 183263772
Score of best tree(s) found = 2189
Number of trees retained = 26

Tree description:

Tree length = 2189
Consistency index (CI) = 0.2951
Homoplasy index (HI) = 0.7049
CI excluding uninformative characters = 0.2902
HI excluding uninformative characters = 0.7098
Retention index (RI) = 0.7628
Rescaled consistency index (RC) = 0.2251

Strict consensus of 26 trees:





2.1.4. COMPLEMENTARY ANALYSIS including:

-> "Goniopholis" phuwiangensis

Heuristic search completed

Total number of rearrangements tried = 152826770

Score of best tree(s) found = 2186

Number of trees retained = 10

Tree description:

Tree length = 2186

Consistency index (CI) = 0.2955

Homoplasy index (HI) = 0.7045

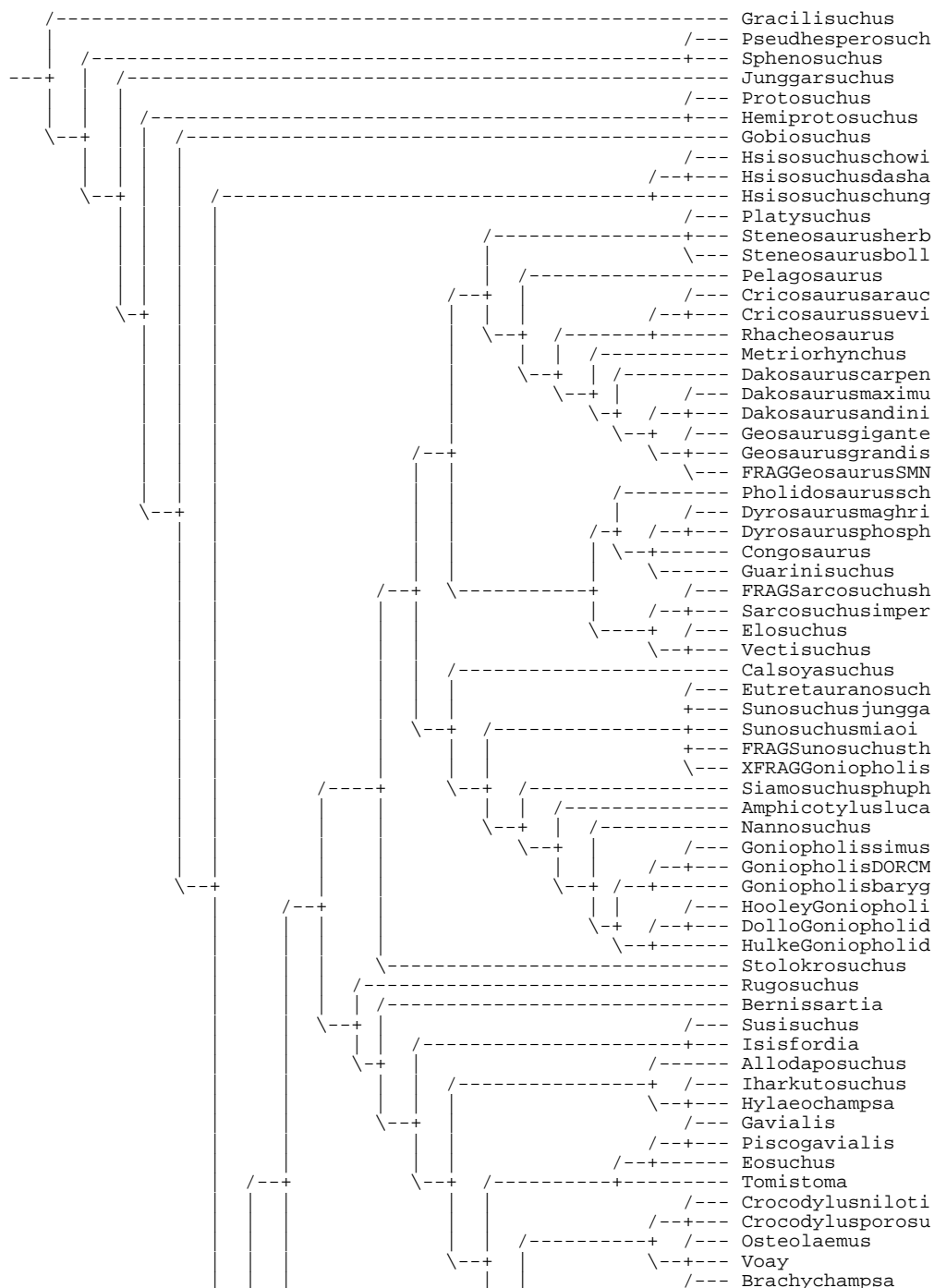
CI excluding uninformative characters = 0.2903

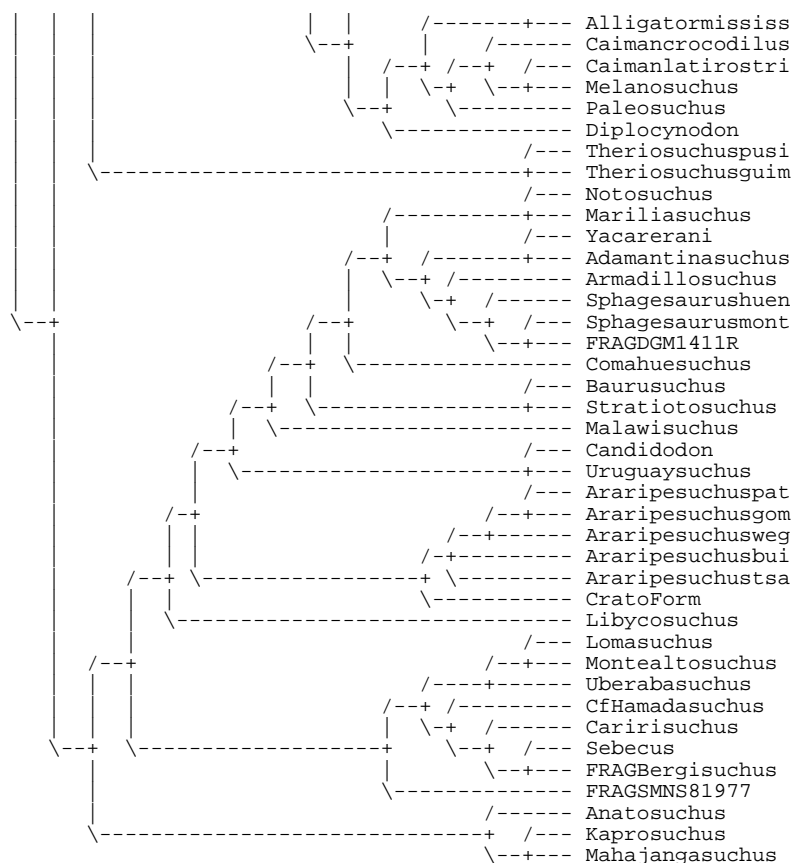
HI excluding uninformative characters = 0.7097

Retention index (RI) = 0.7627

Rescaled consistency index (RC) = 0.2254

Strict consensus of 10 trees:





2.1.5. COMPLEMENTARY ANALYSIS including:

-> ALTSiamosuchus

Obs1: terminal 'Siamosuchus' excluded from the analysis.

Obs2: terminal 'ALTSiamosuchus' is a hybrid OTU, combining scores of Siamosuchus and "G." phuwiangensis.

Heuristic search completed

Total number of rearrangements tried = 203193755

Score of best tree(s) found = 2191

Number of trees retained = 12

Tree description:

Tree length = 2191

Consistency index (CI) = 0.2948

Homoplasy index (HI) = 0.7052

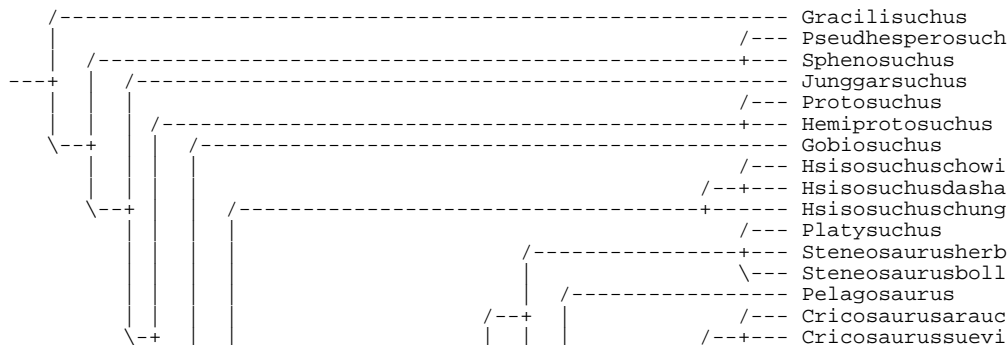
CI excluding uninformative characters = 0.2897

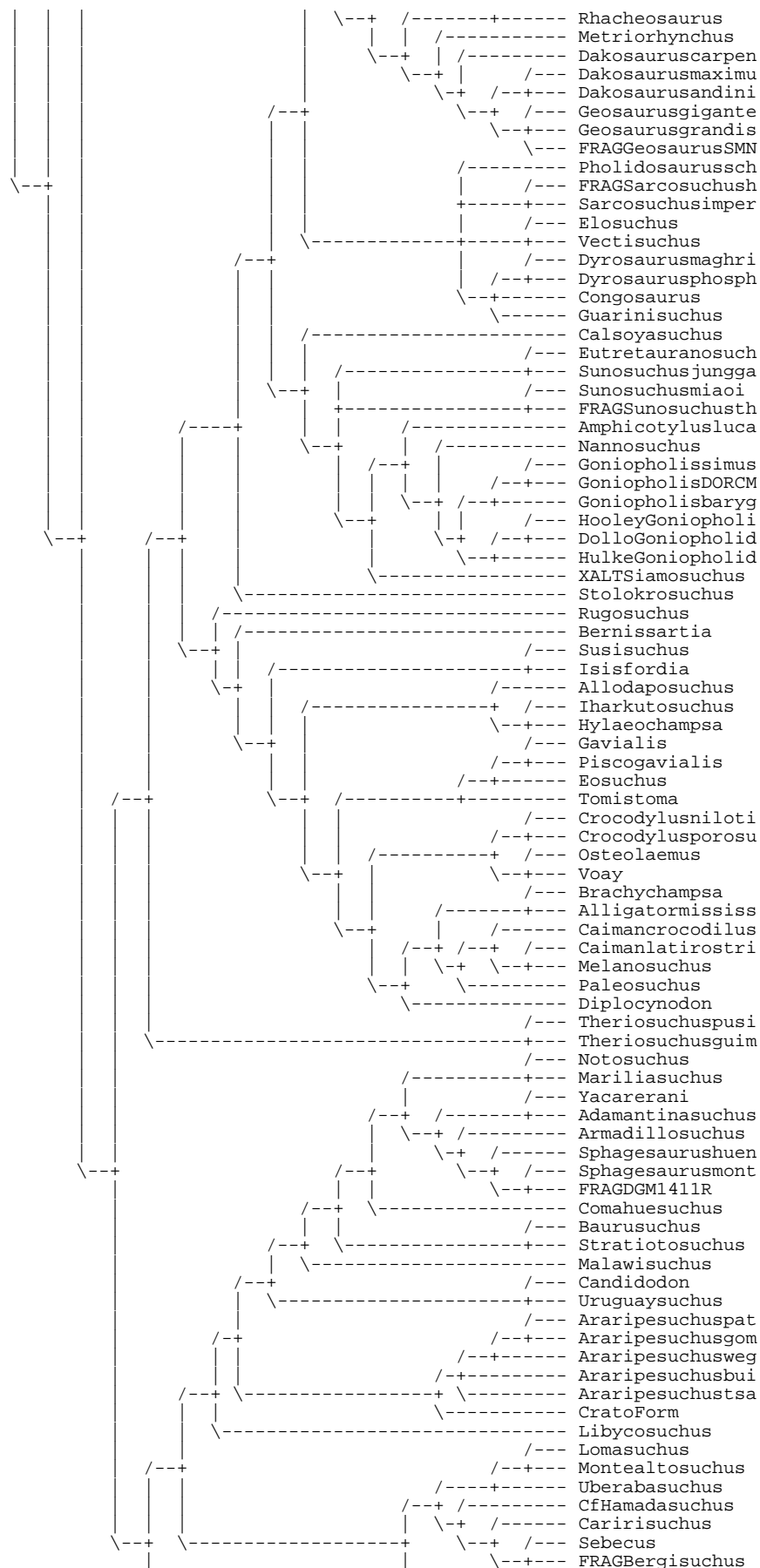
HI excluding uninformative characters = 0.7103

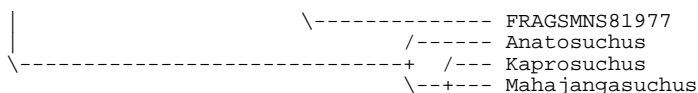
Retention index (RI) = 0.7619

Rescaled consistency index (RC) = 0.2247

Strict consensus of 12 trees:







2.2. Edited log file taken from PAUP, with results from bootstrap and jackknife, from core analysis.

PAUP *
Version 4.0b10 for 32-bit Microsoft Windows

-----NOTICE-----
This is a beta-test version. Please report any crashes, apparent calculation errors, or other anomalous results. There are no restrictions on publication of results obtained with this version, but you should check the WWW site frequently for bug announcements and/or updated versions. See the README file on the distribution media for details.

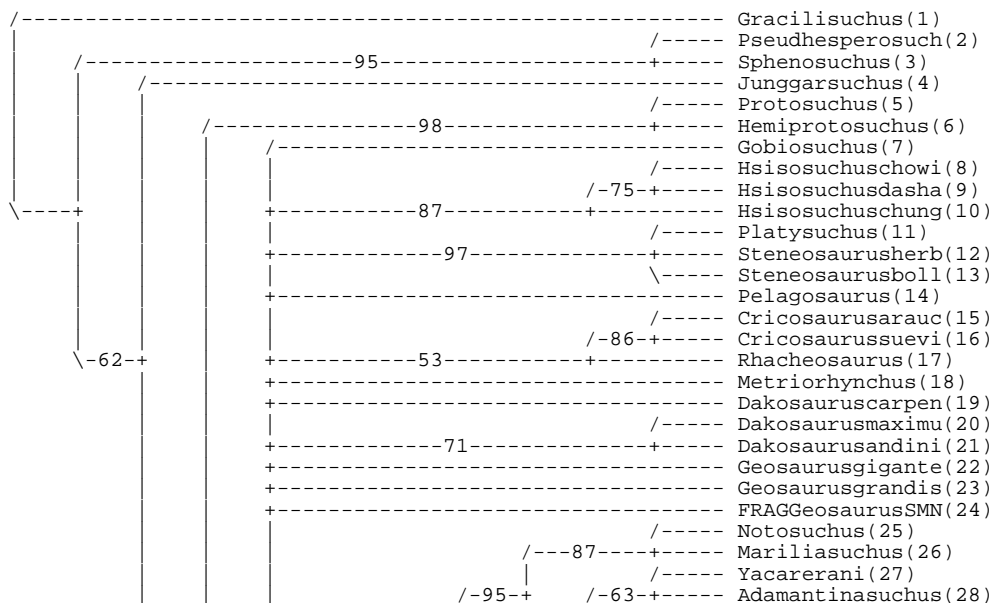
BOOTSTRAP

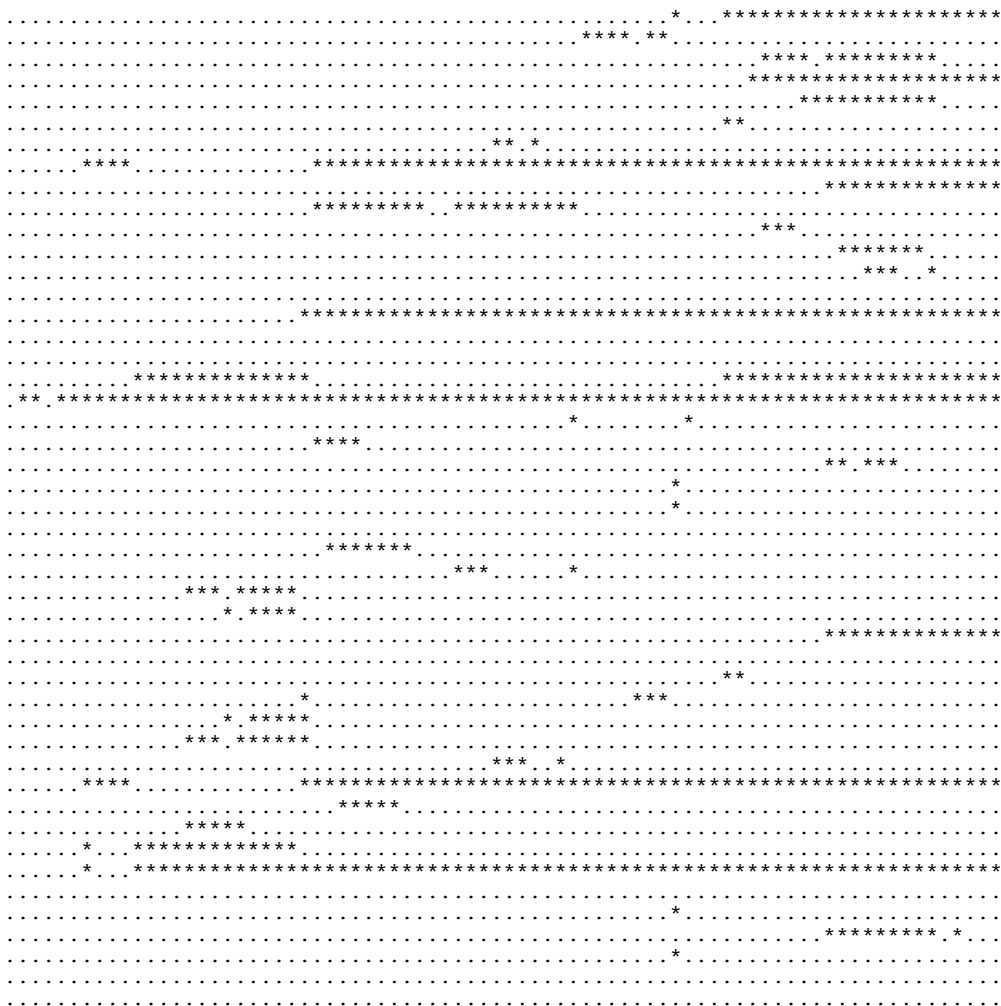
Bootstrap method with fast-heuristic search:
Number of bootstrap replicates = 1000
Starting seed = 1626865829
Optimality criterion = parsimony
Character-status summary:
Of 486 total characters:
24 characters are of type 'ord' (Wagner)
462 characters are of type 'unord'
All characters have equal weight
15 characters are parsimony-uninformative
Number of parsimony-informative characters = 471
Gaps are treated as "missing"
Multistate taxa interpretation depends on "{" versus "(" designation
Starting tree(s) obtained via stepwise addition with random addition sequence
Branch-swapping algorithm: none
Branches collapsed (creating polytomies) if minimum branch length is zero ("amb-")
Topological constraints not enforced
Trees are unrooted

1000 bootstrap replicates completed
Time used = 11.75 sec

Trees for each replicate written to treefile: C:\Documents and Settings\MarcoBranda\Desktop\PhD Analysis\CrocBoot.tre

Bootstrap 50% majority-rule consensus tree





				1	1		
78	9		0		0		
90123456789012345678901234					Freq	%	
.....**.....					988	98.8%	
.....*					984	98.4%	
.....***.					983	98.3%	
.....*					977	97.7%	
.....*					974	97.4%	
.....*					973	97.3%	
.....*					973	97.3%	
.....*					963	96.3%	
.....*					950	95.0%	
.....**					948	94.8%	
.....*					945	94.5%	
.....**					937	93.7%	
.....**					936	93.6%	
.....*					929	92.9%	
***.					918	91.8%	
.....*					871	87.1%	
.....*					866	86.6%	
.....*					859	85.9%	
.....*					856	85.6%	
*****					854	85.4%	
.....*					841	84.1%	
*****					812	81.2%	
.....*					809	80.9%	
.....*					804	80.4%	
.....*					799	79.9%	
.....*					799	79.9%	
.....*					767	76.7%	
.....*					752	75.2%	
.....*					747	74.7%	
.....*					735	73.5%	
.....*					723	72.3%	
.....*					722	72.2%	

.....	712	71.2%
.....***	710	71.0%
.....	706	70.6%
.....**	700	70.0%
.....	696	69.6%
.....	687	68.7%
.....	674	67.4%
.....**	665	66.5%
.....	665	66.5%
.....	661	66.1%
.....**	660	66.0%
.....	639	63.9%
.....	630	63.0%
.....*****	621	62.1%
*****	616	61.6%
**	611	61.1%
.....	608	60.8%
.....	566	56.6%
.....	533	53.3%
.....	527	52.7%
.....***	507	50.7%
.....	490	49.0%
.....	488	48.8%
.....	474	47.4%
*****	474	47.4%
.....	461	46.1%
.....	461	46.1%
.....	450	45.0%
.....	450	45.0%
.....	435	43.5%
.....	426	42.6%
.....*****	424	42.4%
.....****	424	42.4%
.....	420	42.0%
.....	412	41.2%
.....	412	41.2%
.....	405	40.5%
.....	391	39.1%
.....	375	37.5%
.....	375	37.5%
.....*	373	37.3%
.....	366	36.6%
.....	340	34.0%
.....*****	320	32.0%
*****	320	32.0%
.....	269	26.9%
.....	266	26.6%
.....	259	25.9%
.....	256	25.6%
.....*****	249	24.9%
.....	247	24.7%
.....	239	23.9%
.....	239	23.9%
.....	238	23.8%
.....	238	23.8%
.....	221	22.1%
*****	220	22.0%
.....	219	21.9%
.....	216	21.6%
.....	212	21.2%
.....****	210	21.0%
.....	208	20.8%
.....	208	20.8%
*****	199	19.9%
.....	197	19.7%
.....	193	19.3%
.....	192	19.2%
.....*****	191	19.1%
.....*****	181	18.1%
.....	178	17.8%
.....	174	17.4%
.....	171	17.1%
.....	166	16.6%
.....	163	16.3%
.....	162	16.2%
.....	158	15.8%
.....	155	15.5%
.....	154	15.4%
.....	154	15.4%
*****	147	14.7%
.....	141	14.1%
.....	139	13.9%
.....	137	13.7%
.....	137	13.7%

****	135	13.5%
.....	134	13.4%
.....	132	13.2%
.....	130	13.0%
.....	130	13.0%
..... ** *	126	12.6%
.....	125	12.5%
****	123	12.3%
*****	120	12.0%
.....	119	11.9%
.....	118	11.8%
.....	116	11.6%
..... * **	114	11.4%
.....	114	11.4%
.....	113	11.3%
.....	111	11.1%
.....	108	10.8%
.....	107	10.7%
.....	107	10.7%
..... *****	106	10.6%
..... *****	105	10.5%
..... *****	104	10.4%
.....	104	10.4%
****	104	10.4%
.....	103	10.3%
..... * **	102	10.2%
.....	101	10.1%
.....	100	10.0%
.....	98	9.8%
*****	97	9.7%
.....	97	9.7%
.....	96	9.6%
.....	96	9.6%
.....	96	9.6%
.....	96	9.6%
.....	95	9.5%
*****	95	9.5%
.....	94	9.4%
..... **	93	9.3%
.....	92	9.2%
.....	91	9.1%
.....	90	9.0%
.....	90	9.0%
..... ** *****	89	8.9%
.....	89	8.9%
..... ***	89	8.9%
.....	87	8.7%
.....	86	8.6%
.....	86	8.6%
.....	86	8.6%
.....	86	8.6%
*****	85	8.5%
..... *****	82	8.2%
****	81	8.1%
.....	80	8.0%
*****	79	7.9%
.....	78	7.8%
.....	76	7.6%
*****	74	7.4%
.....	72	7.2%
..... **	72	7.2%
.....	71	7.1%
*****	70	7.0%
****	69	6.9%
.....	69	6.9%
.....	69	6.9%
.....	69	6.9%
.....	69	6.9%
..... **	68	6.8%
*****	68	6.8%
..... ** *	67	6.7%
..... *****	66	6.6%
*****	65	6.5%
*****	65	6.5%
.....	65	6.5%
.....	65	6.5%
.....	64	6.4%
..... *****	64	6.4%
..... *****	64	6.4%
..... *****	64	6.4%
..... *****	63	6.3%
.....	62	6.2%
.....	60	6.0%
.....	60	6.0%
.....	60	6.0%
.....	59	5.9%
..... * **	56	5.6%

.....*****	56	5.6%
.....	56	5.6%
.....	56	5.6%
.....	56	5.6%
.....	56	5.6%
.....	56	5.6%
*****	55	5.5%
.....	53	5.3%
.....	52	5.2%
.....	52	5.2%
*****	52	5.2%
.....*****	51	5.1%
.....*****	51	5.1%
.....	51	5.1%
.....*****	50	5.0%
****	50	5.0%
.....*	50	5.0%

9242 groups at (relative) frequency less than 5% not shown

 JACKKNIFE

Jackknife method with fast-heuristic search:

Number of jackknife replicates = 1000

Nominal percentage of characters deleted in each replicate = 50

Starting seed = 2106454104

Optimality criterion = parsimony

Character-status summary:

Of 486 total characters:

24 characters are of type 'ord' (Wagner)

462 characters are of type 'unord'

All characters have equal weight

15 characters are parsimony-uninformative

Number of parsimony-informative characters = 471

Gaps are treated as "missing"

Multistate taxa interpretation depends on "{" versus "(" designation

Starting tree(s) obtained via stepwise addition with random addition sequence

Branch-swapping algorithm: none

Branches collapsed (creating polytomies) if minimum branch length is zero ("amb-")

Topological constraints not enforced

Trees are unrooted

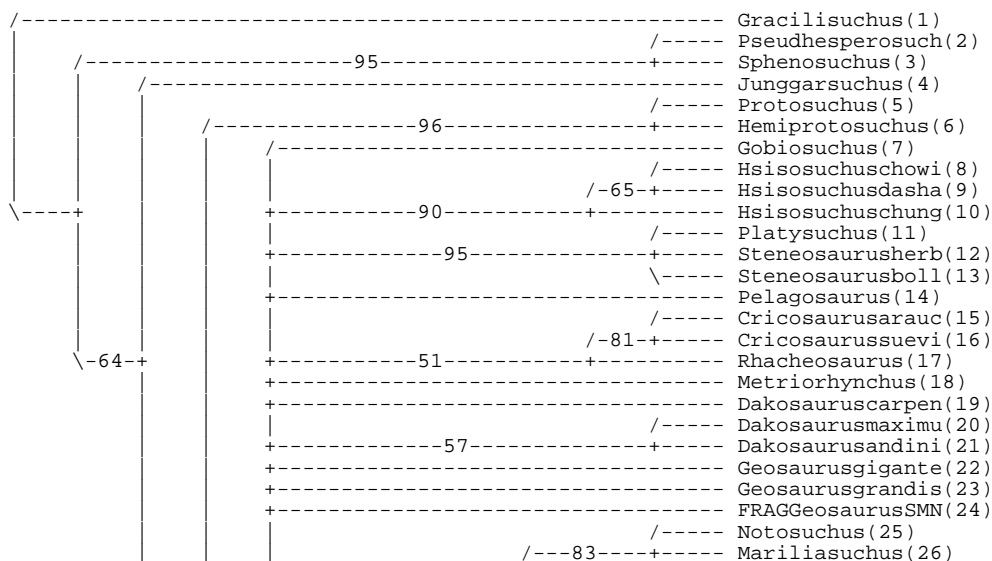
Note: 243 characters are deleted in each replicate; actual deletion percentage = 50.000

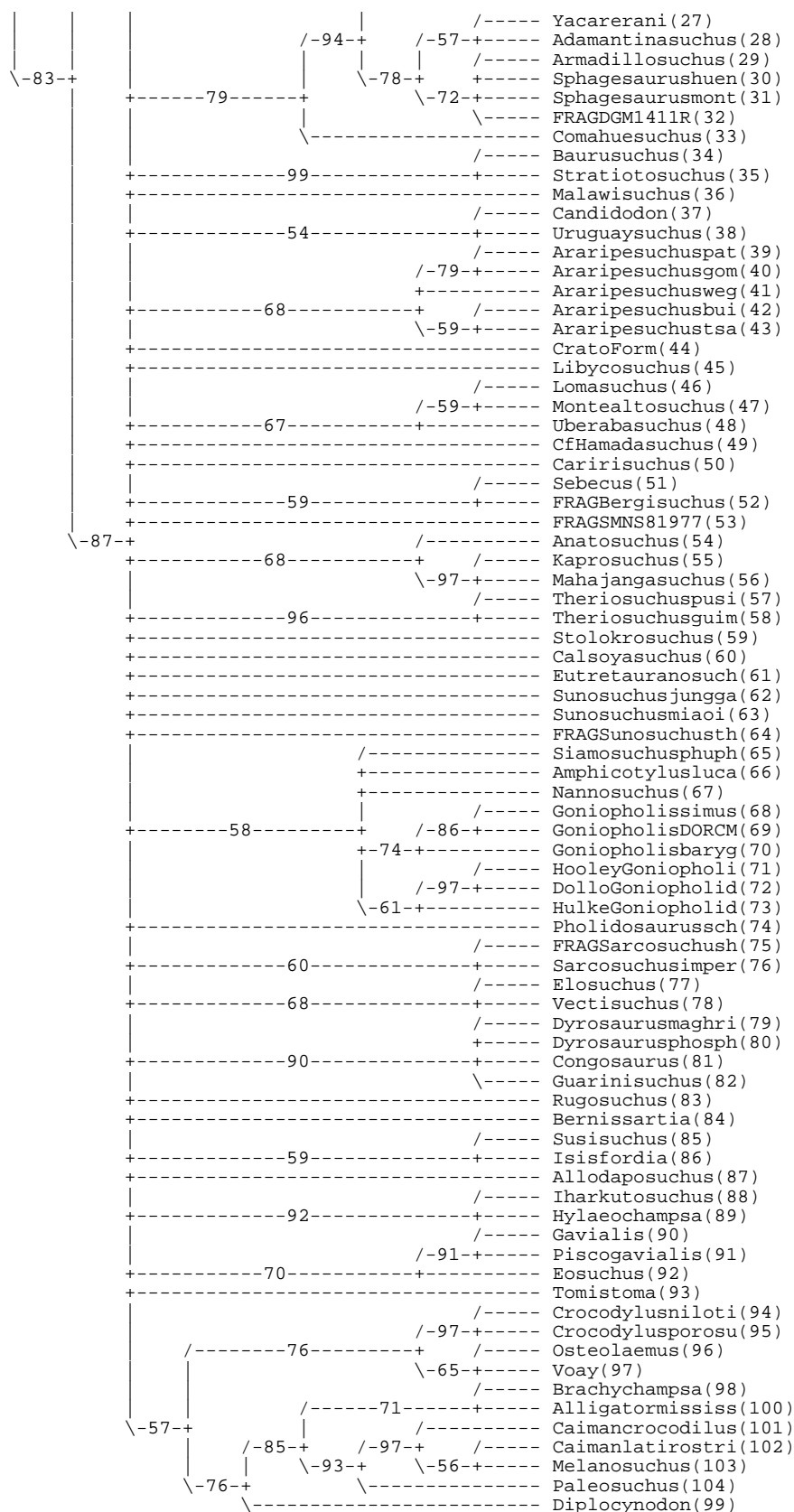
1000 jackknife replicates completed

Time used = 6.49 sec

Trees for each replicate written to treefile: C:\Documents and Settings\MarcoBranda\Desktop\PhD Analysis\CrocJack.tre

Jackknife 50% majority-rule consensus tree





Bipartitions found in one or more trees and frequency of occurrence (jackknife support values):

1 2 3 4 5 6 7 7
 1234567890123456789012345678901234567890123456789012345678

.....	793	79.3%
.....	782	78.2%
..... *****	764	76.4%
..... ****	756	75.6%
.....	736	73.6%
.....	721	72.1%
..... * *	710	71.0%
..... ***	697	69.7%
.....	683	68.3%
.....	683	68.3%
.....	678	67.8%
.....	673	67.3%
..... *	649	64.9%
.....	646	64.6%
*****	636	63.6%
.....	613	61.3%
.....	596	59.6%
.....	593	59.3%
..... **	592	59.2%
.....	592	59.2%
.....	591	59.1%
.....	582	58.2%
..... *****	573	57.3%
.....	572	57.2%
.....	570	57.0%
..... **	557	55.7%
.....	535	53.5%
.....	510	51.0%
.....	499	49.9%
.....	495	49.5%
**	476	47.6%
.....	452	45.2%
*****	452	45.2%
.....	447	44.7%
..... ***	440	44.0%
.....	434	43.4%
.....	433	43.3%
.....	432	43.2%
.....	429	42.9%
.....	420	42.0%
..... ****	416	41.6%
.....	410	41.0%
.....	399	39.9%
..... *****	391	39.1%
.....	383	38.3%
.....	363	36.3%
.....	351	35.1%
.....	350	35.0%
..... *	348	34.8%
.....	345	34.5%
.....	333	33.3%
*****	327	32.7%
.....	323	32.3%
.....	306	30.6%
..... *****	304	30.4%
..... *****	277	27.7%
.....	259	25.9%
.....	259	25.9%
.....	243	24.3%
.....	238	23.8%
.....	234	23.4%
.....	233	23.3%
.....	229	22.9%
..... *****	227	22.7%
.....	226	22.6%
.....	226	22.6%
.....	217	21.7%
..... *****	215	21.5%
.....	209	20.9%
.....	195	19.5%
.....	194	19.4%
.....	191	19.1%
.....	189	18.9%
*****	187	18.7%
.....	176	17.6%
.....	174	17.4%
.....	170	17.0%
.....	167	16.7%
.....	164	16.4%
..... *****	163	16.3%
.....	162	16.2%
*****	162	16.2%
.....	162	16.2%
.....	159	15.9%

.....	151	15.1%
.....	149	14.9%
.....	149	14.9%
.....	148	14.8%
.....	146	14.6%
.....	143	14.3%
.....**..*	142	14.2%
.....	139	13.9%
****.	135	13.5%
.....	129	12.9%
.....	127	12.7%
.....	123	12.3%
****.	123	12.3%
.....	121	12.1%
.....	121	12.1%
.....	117	11.7%
.....	116	11.6%
.....	115	11.5%
.....*..**	114	11.4%
.....	114	11.4%
.....*****	112	11.2%
.....	107	10.7%
.....	107	10.7%
.....	106	10.6%
.....	106	10.6%
.....	104	10.4%
****.	103	10.3%
.....*****	103	10.3%
****.	100	10.0%
.....	100	10.0%
.....	98	9.8%
.....***	97	9.7%
.....	97	9.7%
.....	96	9.6%
****.	96	9.6%
.....*..***	96	9.6%
.....	96	9.6%
.....*****	93	9.3%
.....	92	9.2%
.....	92	9.2%
*****	91	9.1%
*****	91	9.1%
.....	90	9.0%
.....	89	8.9%
.....	87	8.7%
.....**	86	8.6%
.....	85	8.5%
*****	85	8.5%
.....**..*****	84	8.4%
*****	84	8.4%
.....*****	84	8.4%
.....	83	8.3%
.....	82	8.2%
.....**	82	8.2%
.....	81	8.1%
.....	81	8.1%
.....	81	8.1%
.....	79	7.9%
.....	78	7.8%
****.	78	7.8%
.....	78	7.8%
*****	78	7.8%
.....	77	7.7%
.....	77	7.7%
.....*****	77	7.7%
.....	76	7.6%
.....	75	7.5%
.....	73	7.3%
.....*****.*****	73	7.3%
.....	73	7.3%
.....*****	73	7.3%
.....	72	7.2%
.....	72	7.2%
.....	70	7.0%
.....**..**	70	7.0%
.....	69	6.9%
*****	68	6.8%
.....	67	6.7%
.....	65	6.5%
.....	64	6.4%
****.	63	6.3%
.....***	63	6.3%
*****	63	6.3%
.....	63	6.3%

.....	62	6.2%
..... *****	62	6.2%
..... *****	62	6.2%
*****	61	6.1%
.....	61	6.1%
*****	61	6.1%
..... *****	61	6.1%
****	61	6.1%
.....	59	5.9%
.....	59	5.9%
.....	58	5.8%
.....	58	5.8%
..... *****	58	5.8%
.....	57	5.7%
.....	57	5.7%
.....	57	5.7%
.....	57	5.7%
..... * .. *	56	5.6%
.....	55	5.5%
..... **	54	5.4%
*****	54	5.4%
.....	54	5.4%
.....	54	5.4%
.....	53	5.3%
.....	52	5.2%
.....	52	5.2%
.....	52	5.2%
.....	52	5.2%
.....	51	5.1%
.....	51	5.1%
.....	50	5.0%
.....	50	5.0%
.....	50	5.0%

9663 groups at (relative) frequency less than 5% not shown