

Appendix 4. Preferred topology (same as Fig. 7) showing all character changes. Character changes are reconstructed using DELTRAN assumptions for ambiguous branches. Character state changes at nodes are as follows:

Node 1 #13 (1→0), #58 (1→0), #70 (0→1), #95 (1→0), #129 (0→1), #140 (0→2), #141 (0→1),
#144 (0→1), #198 (0→1), #207 (0→1), #232 (1→0)

Node 2 #28 (0→1), #42 (1→0), #61 (2→1), #72 (0→1), #79 (0→1), #85 (3→0), #111 (1→0),
#114 (1→0), #128 (0→2), #132 (1→2), #133 (2→3), #134 (1→2), #138 (0→1), #139
(0→1), #167 (2→1), #172 (1→2), #218 (0→1), #225 (0→1), #226 (1→0), #227 (0→1)

Node 3 #22 (0→1), #78 (0→1), #150 (1→0), #168 (1→0), #173 (0→1), #174 (1→2), #179
(2→3), #181 (1→0), #182 (1→0), #194 (0→1), #215 (1→2), #231 (0→2)

Node 4 #90 (0→1), #96 (1→0), #143 (0→2), #144 (1→0), #177 (0→1), #180 (3→2), #231
(2→1), #249 (0→1)

Node 5 #61 (1→2), #64 (0→1), #153 (1→0)

Node 6 #6 (1→0), #51 (1→2), #73 (0→1), #74 (0→1), #76 (1→2), #83 (0→2), #199 (0→1),
#200 (1→2), #204 (1→0), #221 (1→0), #229 (0→1)

Node 7 #1 (1→0), #28 (1→0), #62 (0→1), #77 (0→1), #82 (0→2), #102 (0→1), #197 (0→1),
#208 (0→1), #213 (2→1)

Node 8 #22 (1→0), #150 (0→1), #179 (3→2), #186 (1→0), #231 (1→0)

Node 9 #73 (1→2), #82 (2→1), #83 (2→3), #92 (1→2), #171 (0→1), #205 (1→2), #249 (1→0)

Node 10 #28 (0→1), #176 (0→1), #218 (1→0), #219 (1→0)

Node 11 #126 (1→0), #142 (0→1), #157 (0→1)

Node 12 #71 (0→1), #94 (1→0), #114 (0→1), #179 (2→3), #195 (0→1), #197 (1→2), #231
(0→2), #249 (0→1)

Node 13 #68 (0→1), #171 (1→0), #202 (0→1), #206 (0→1), #218 (0→1), #250 (0→1)

Node 14 #66 (1→0), #73 (2→1), #79 (1→2)

Node 15 #82 (1→2), #115 (1→0), #205 (2→1)

Node 16 #65 (0→2), #80 (1→0), #158 (0→1), #209 (2→1), #210 (0→1), #211 (0→2), #231
(2→1), #249 (1→0)

Node 17 #66 (1→0), #73 (2→3), #114 (1→0), #122 (0→2), #195 (1→2), #211 (0→1)

Node 18 #70 (1→0), #170 (0→3), #210 (0→1), #211 (0→1)

Node 19 #62 (1→0), #65 (0→1), #73 (2→0)

Node 20 #28 (1→0), #231 (0→1)

Node 21 #1 (1→0), #30 (0→1), #63 (0→1), #64 (0→1), #66 (1→0), #68 (0→1), #108 (0→2),
#112 (0→1), #162 (1→0), #170 (0→2), #224 (1→0)

Node 22 #122 (0→2), #138 (0→1)

Node 23 #83 (3→2), #180 (2→3), #213 (1→2), #219 (0→1), #231 (2→1)

Node 24 #34 (1→0), #153 (0→1), #183 (0→1)

Node 25 #83 (3→2), #185 (0→1), #189 (1→2)

Node 26 #64 (1→0), #82 (2→0), #83 (3→2), #196 (1→0), #200 (2→1), #215 (2→1), #219
(0→1)

Node 27 #68 (0→1), #114 (1→0), #171 (1→0), #195 (1→2)

Node 28 #65 (2→1), #183 (0→1), #184 (0→1), #196 (1→0)

Node 29 #195 (1→2), #211 (2→3), #212 (1→0), #213 (1→2), #218 (0→1)

Node 30 #79 (1→2), #184 (0→1), #185 (0→1), #186 (0→1), #196 (1→0), #219 (0→1)

Node 31 #31 (0→1), #62 (1→0), #142 (1→0), #143 (2→0)

Node 32 #71 (0→1), #82 (1→0), #153 (0→2), #180 (2→3)

Node 33 #33 (1→0), #83 (3→1), #150 (1→0), #184 (0→1), #213 (1→2)

Node 34 #83 (3→2), #171 (1→0)

Node 35

Node 36 #183 (0→1), #184 (0→1)

Node 37 #1 (0→1), #6 (0→2), #114 (0→1), #177 (1→0), #180 (2→3)

Node 38 #65 (0→2), #70 (1→0), #211 (0→1), #223 (0→1), #229 (1→0)

Node 39 #33 (1→0), #66 (1→0), #71 (0→1), #95 (0→1), #108 (0→1), #158 (0→1), #170
(0→3), #177 (1→0), #180 (2→3), #196 (1→0), #215 (2→1), #218 (1→0)

Node 40 #65 (0→2), #158 (0→1), #176 (0→1), #183 (0→1), #189 (1→2), #195 (0→1), #196
(1→0), #233 (1→0)

Node 41 #121 (1→0), #167 (1→2), #170 (0→3), #172 (2→1), #185 (0→1), #197 (0→2), #215
(2→1), #219 (1→0), #222 (1→0), #233 (1→0)

Node 42 #14 (1→0), #66 (1→0), #73 (0→2), #115 (1→0), #139 (1→0), #141 (1→0), #173
(1→0), #174 (2→1), #224 (1→0)

Node 43 #33 (1→0), #59 (0→1), #73 (0→2), #82 (0→1), #92 (1→2), #94 (1→0), #115 (1→0),
#176 (0→1), #181 (0→1), #183 (0→1), #184 (0→1), #186 (1→0), #189 (1→2), #216
(0→1), #218 (1→0), #224 (1→0)

Node 44 #74 (0→1), #82 (0→1)

Node 45 #14 (1→0), #23 (0→1), #54 (0→1), #73 (0→1), #74 (0→1), #85 (0→2), #92 (1→2),
#95 (0→1), #113 (1→0), #199 (0→1), #208 (0→1)

Node 46 #91 (0→1), #94 (1→0), #96 (1→0), #115 (1→0), #153 (1→0), #170 (0→3), #204
(1→0), #233 (1→0)

Node 47 #14 (1→0), #97 (0→1), #134 (1→0)

Node 48 #139 (0→1), #144 (1→0), #233 (1→0)

Node 49 #2 (1→0), #67 (1→0), #69 (0→1)

Node 50 #61 (2→1), #66 (1→0), #67 (1→0), #97 (0→1), #102 (0→1), #111 (1→0), #115
(1→0), #132 (1→2), #134 (1→0), #140 (0→1), #170 (0→2), #204 (1→0), #208 (0→1),
#213 (2→0), #216 (0→1), #223 (0→1)

Node 51 #12 (1→0), #13 (0→1), #25 (2→0), #27 (0→1), #40 (1→0), #135 (1→0), #141 (1→0),
#142 (1→0), #151 (2→1), #156 (0→1), #230 (0→1)

Node 52 #2 (0→1), #20 (0→1), #39 (1→0), #44 (1→0), #46 (1→0), #110 (0→1), #116 (1→3),
#119 (1→0), #134 (0→1), #149 (1→0), #153 (0→1), #155 (0→2), #165 (0→2), #167
(0→2), #169 (0→1), #235 (0→1), #244 (2→0), #247 (1→0)

Node 53 #105 (1→0), #107 (1→0), #113 (0→1), #118 (0→1), #127 (1→0), #154 (2→1), #168
(0→1), #170 (1→0), #174 (0→1), #234 (2→0), #238 (0→1)

Node 54 #226 (0→1), #230 (1→0)

Node 55 #4 (0→2), #6 (3→2), #10 (1→0), #21 (1→0), #48 (0→1), #104 (0→1), #122 (0→2),
#144 (1→0), #233 (0→1)

Node 56 #14 (0→1), #42 (0→1), #53 (0→1), #88 (2→1), #92 (1→0)

Node 57 #9 (1→0), #32 (1→2), #36 (0→1), #54 (0→1), #58 (2→1), #85 (0→3), #117 (0→1),
#183 (1→0), #215 (0→1), #219 (1→0)

Node 58 #54 (1→2), #94 (0→1), #96 (0→1), #122 (2→3), #136 (2→1), #139 (1→0), #175
(0→1), #178 (0→1), #180 (2→3), #188 (0→1), #190 (1→2), #192 (0→1), #196 (0→1),
#201 (0→1), #213 (0→2)

Node 59 #4 (2→0), #59 (1→0), #61 (0→2), #95 (0→1), #152 (0→2), #179 (1→2)

Node 60 #43 (0→1), #86 (0→1), #91 (1→0), #114 (0→1), #217 (1→0), #223 (1→0), #232
(0→1)

Node 61 #38 (0→1), #53 (1→0), #54 (2→0), #69 (1→0), #76 (0→1), #92 (0→1), #104 (1→0),
#117 (0→1), #162 (0→1), #186 (0→1), #187 (0→1), #191 (0→1), #193 (0→1), #203
(0→1)

Node 62 #16 (1→0), #83 (0→2)

Node 63 #16 (1→0), #105 (0→1), #124 (0→1), #130 (0→1), #154 (1→2), #175 (1→0), #183
(0→1), #192 (1→0)

Node 64 #21 (0→1), #37 (0→1), #49 (0→1), #61 (2→0), #96 (1→0), #98 (0→1), #127 (0→1),
#133 (2→3), #136 (1→2), #137 (0→1), #148 (0→1), #226 (1→0)

Node 65 #1 (1→2), #52 (0→1), #57 (1→0), #60 (0→1), #76 (1→2), #78 (0→1), #94 (1→2),
#97 (0→1), #119 (0→1), #134 (1→0), #140 (0→1), #152 (2→1), #169 (1→2), #181
(1→0), #182 (1→0), #188 (1→0), #222 (1→0)

Node 66 #15 (1→0), #63 (0→1), #68 (0→2), #85 (3→0), #114 (1→0), #191 (1→2)

Node 67 #14 (1→0), #66 (1→0), #76 (2→3), #83 (0→5), #106 (1→0), #152 (1→2), #168
(1→0)

Node 68 #58 (1→2), #59 (0→1), #68 (0→2), #152 (2→0), #169 (1→2), #181 (1→0)

Node 69 #38 (0→1), #68 (0→1), #86 (0→1), #94 (0→2)

Node 70 #37 (0→2), #67 (1→0), #124 (0→1)

Node 71 #34 (1→0), #54 (1→2), #70 (0→1), #81 (0→2)

Node 72 #97 (0→1), #98 (0→1), #168 (1→0), #170 (0→3), #182 (1→0)

Node 73 #139 (1→0), #234 (0→1)

Node 74 #4 (2→0), #27 (1→0), #96 (0→1), #122 (2→1), #232 (0→1)

Node 75 #115 (1→0)

Node 76 #26 (0→1), #29 (0→2), #38 (0→1), #47 (0→1), #54 (0→1), #107 (1→0), #110 (0→1),
#112 (0→1), #132 (1→0), #136 (2→1), #143 (0→1), #152 (0→2), #167 (0→1), #213
(0→1), #234 (2→0), #248 (0→1)

Node 77 #2 (0→1), #3 (1→0), #31 (0→1), #116 (1→3), #146 (0→1), #163 (0→1), #164 (0→3),
#165 (0→1), #169 (0→1), #181 (1→0), #217 (1→0), #220 (1→0), #230 (0→1), #237
(1→0), #244 (2→3)

Node 78 #118 (0→1), #123 (0→1), #148 (0→1), #243 (0→2)

Node 79 #28 (0→1), #29 (2→1), #32 (1→2), #37 (0→1), #149 (1→0), #152 (2→1), #164
(0→2), #165 (0→1), #228 (0→1), #230 (0→1), #237 (1→0), #242 (0→3)

Node 80 #2 (0→1), #15 (1→0), #23 (0→1), #27 (0→1), #53 (0→1), #61 (0→2), #66 (1→0),
#108 (0→1), #180 (2→3), #219 (1→0)

Node 81 #6 (2→1), #37 (0→2), #50 (1→2), #55 (1→0), #88 (1→2), #122 (3→0), #150 (0→1),
#160 (0→1), #165 (2→0), #219 (0→1), #230 (0→1)

Node 82 #38 (1→0)

Node 83 #14 (1→0), #15 (1→0)

Node 84 #57 (0→1), #74 (0→1), #81 (0→2), #91 (0→1), #92 (1→0), #108 (0→1), #113 (1→0),
#116 (3→1), #117 (0→1), #119 (1→0), #122 (3→1), #140 (1→0), #156 (1→0), #164
(0→1), #170 (0→1), #194 (0→1), #197 (0→2), #200 (1→2), #205 (1→0), #208 (0→1),
#213 (2→3), #215 (1→0), #216 (0→1), #217 (0→1), #219 (0→1), #220 (1→0), #230
(0→1), #231 (0→1), #233 (1→0), #234 (0→1), #235 (1→0), #237 (1→0), #247 (0→1),
#248 (0→1)

Node 85 #23 (0→1), #30 (0→1), #45 (0→1), #59 (0→1), #82 (0→1), #88 (1→2), #111 (1→0),
#115 (1→0), #137 (1→2), #176 (0→2), #217 (0→3)

Node 86 #34 (1→0), #45 (0→1), #58 (1→2), #83 (0→4), #105 (1→0), #115 (1→0), #205
(1→0)

Node 87 #20 (0→1), #23 (0→1), #85 (3→1), #88 (1→0), #91 (0→1), #184 (0→1), #207 (0→1),
#215 (1→2), #235 (1→0)

Node 88 #119 (0→1), #152 (2→0), #179 (2→0), #180 (3→2), #182 (1→0), #228 (0→1)

Node 89 #1 (1→2), #14 (1→0), #52 (0→1), #54 (0→1), #60 (0→1), #113 (1→0), #115 (1→0),
#168 (1→0)

Node 90 #20 (0→1), #66 (1→0), #99 (0→1), #114 (1→0), #184 (0→1), #230 (0→1)

Node 91 #81 (0→2), #118 (1→0), #132 (1→0), #168 (1→0), #180 (3→2), #234 (0→1)

Node 92 #14 (1→0), #37 (0→1), #47 (0→1), #68 (0→1), #88 (1→2), #102 (0→1), #113 (1→0),
#130 (0→1), #140 (0→2), #143 (0→2), #184 (0→1)

Node 93 #23 (0→1), #85 (3→1), #122 (3→0), #132 (1→0), #144 (0→1), #205 (1→0), #219
(0→1)

Node 94 #12 (0→1), #14 (1→0), #27 (1→0), #68 (0→1), #87 (0→1), #91 (1→0), #103 (0→1),
#113 (1→0), #121 (1→0), #132 (1→0), #140 (0→2), #197 (0→1)

Node 95 #14 (1→0), #61 (0→2), #76 (0→1), #87 (0→1), #91 (1→0), #121 (1→0), #130 (0→1),
#138 (0→1), #169 (1→0), #178 (0→1)

Node 96 #4 (2→0), #52 (0→1), #68 (1→2), #69 (1→0), #122 (2→3)

Node 97 #76 (0→1), #114 (0→1), #122 (2→0), #175 (0→1)

Node 98 #38 (1→0), #68 (1→2), #85 (3→0), #87 (0→1), #88 (1→0), #114 (0→1), #221 (1→0),
#228 (0→1), #232 (0→1)

Node 99 #57 (1→0), #85 (3→2)

Node 100 #138 (0→1), #228 (0→1), #234 (0→1)

Node 101 #21 (0→1), #28 (0→1), #45 (0→1), #54 (1→2), #56 (1→0), #81 (0→1), #87 (0→1),
#125 (0→1), #139 (1→0), #168 (1→0), #170 (0→3), #180 (2→3)

Node 102 #45 (0→1), #56 (1→0)

Node 103 #19 (1→0), #27 (1→0), #28 (0→1), #45 (0→1), #55 (1→0), #56 (1→0), #59 (1→0),
#61 (0→2), #67 (1→0), #85 (0→1), #101 (1→0), #103 (1→0), #240 (1→0)

Node 104 #9 (1→0), #16 (1→0), #37 (0→1), #54 (0→1), #69 (1→0), #114 (0→1), #121 (1→0),
#132 (1→2), #166 (0→1), #168 (1→0), #169 (1→0), #170 (0→3), #181 (1→0)

Node 105 #153 (1→0), #160 (0→1), #172 (1→2), #228 (0→1), #232 (0→1)

Node 106 #114 (0→1), #125 (0→1), #130 (0→1), #132 (1→0), #139 (1→0), #166 (0→1), #182
(1→0), #184 (0→1), #189 (1→2), #233 (0→1)

Node 107 #1 (1→2), #14 (0→1), #15 (1→0), #32 (1→2), #34 (1→0), #36 (0→1), #37 (0→2),
#45 (0→1), #51 (1→0), #56 (1→0), #59 (1→0), #70 (0→1), #92 (1→0), #94 (0→2),
#117 (0→1), #124 (0→1), #125 (0→1), #132 (1→2), #148 (0→1), #170 (1→3), #175
(0→1), #180 (2→0), #234 (2→1)

Node 108 #8 (2→1), #39 (1→2), #42 (0→1), #47 (0→1), #53 (0→1), #54 (0→1), #55 (1→0),
#101 (1→0), #109 (1→0), #111 (1→0), #121 (1→0), #128 (0→1), #133 (2→3), #138
(1→0), #139 (1→0), #140 (0→2), #146 (0→1), #155 (0→1), #161 (1→0), #164 (0→4),
#179 (1→2), #180 (2→0), #237 (1→0), #248 (0→1)

Node 109 #114 (0→1), #153 (0→2), #154 (2→0), #155 (0→2), #167 (1→0), #179 (1→2), #234
(0→1), #248 (1→0)

Node 110 #32 (1→2), #36 (0→1), #39 (1→2), #47 (1→0), #53 (0→1), #66 (1→0), #85 (0→3),
#87 (0→1), #132 (0→1), #136 (1→2), #155 (0→1), #242 (0→1)

Node 111 #10 (1→0), #28 (0→1), #45 (0→1), #85 (0→1), #88 (2→1), #114 (0→1), #179
(1→2), #189 (1→0), #243 (0→1)

Node 112 #1 (1→2), #4 (0→2), #6 (3→4), #13 (0→1), #31 (0→1), #61 (0→2), #72 (0→1),
#146 (0→1), #163 (0→1), #164 (0→1), #183 (1→0), #244 (2→3)

Node 113 #107 (0→1), #112 (1→0), #116 (1→0), #121 (1→0), #127 (1→0), #149 (1→0), #155
(0→1), #242 (0→3), #248 (1→0)

Node 114 #13 (0→1), #116 (1→3), #179 (1→3), #190 (1→0)

Node 115 #10 (1→0), #12 (1→0), #39 (1→2), #85 (0→2), #118 (0→1), #140 (0→1), #143
(1→2), #169 (0→1), #183 (1→0), #213 (1→2), #215 (0→1), #244 (2→1)

Node 116 #34 (1→0), #118 (0→1), #169 (0→1), #179 (1→2), #234 (0→1)

Node 117 #45 (0→1), #113 (1→0), #118 (1→0)

Node 118 #40 (0→1), #51 (0→1), #132 (1→0), #192 (1→0), #217 (0→1)

Node 119 #35 (1→2), #107 (0→1), #161 (2→1), #228 (0→1)

Node 120 #180 (0→2)

Node 121 #241 (0→1)

Node 122 #1 (0→1), #4 (0→1), #6 (0→1), #17 (0→1), #93 (0→1), #181 (0→1), #228 (1→0)

Node 123 #16 (0→1), #57 (0→1), #61 (2→0), #136 (0→1), #205 (0→1)

Node 124 #8 (0→1), #33 (0→1), #89 (1→0), #144 (0→1), #164 (0→1), #189 (0→1), #241
(1→0)

Node 125 #6 (1→3), #39 (3→1), #133 (0→2), #139 (0→1), #165 (2→0), #236 (0→1)

Node 126 #2 (1→0), #4 (1→2), #5 (0→1), #7 (0→1), #20 (0→1), #21 (0→1), #25 (0→1), #50
(0→1), #53 (1→0), #105 (0→1), #111 (0→1), #138 (0→1), #146 (0→1), #151 (1→2),
#154 (1→0), #159 (0→1), #167 (1→0), #172 (0→1), #244 (0→1)

Node 127 #3 (1→0), #12 (0→1), #91 (0→1), #115 (0→1), #132 (0→1), #135 (0→1), #142
(0→1), #164 (1→0), #200 (0→1)

Node 128 #75 (0→1), #136 (1→2), #245 (0→1), #246 (0→1)

Node 129 #4 (2→0), #8 (1→2), #109 (0→1), #116 (0→1), #127 (0→1), #141 (0→1), #242
(3→0), #247 (0→1)

Node 130 #25 (1→2), #120 (0→1), #121 (0→1), #146 (1→0), #239 (0→1), #241 (0→2)

Node 131 #26 (0→1), #28 (0→1), #48 (0→1), #215 (0→1), #217 (1→0)

Node 132 #116 (0→1), #131 (0→1), #151 (1→0), #166 (0→1), #226 (0→1), #228 (0→1)

Node 133 #6 (1→2), #11 (0→1), #12 (0→1), #32 (0→1), #54 (0→2), #55 (1→0), #56 (0→1),
#114 (0→1), #161 (1→2)

Node 134 #19 (1→0), #28 (0→1), #44 (1→0), #59 (0→1), #121 (0→1), #239 (0→1), #241
(0→2), #244 (0→1)

Node 135 #4 (1→0), #27 (0→1), #39 (3→0), #75 (0→1), #106 (1→0), #116 (0→2), #120
(0→1), #141 (0→1), #171 (0→1), #172 (0→1), #234 (2→0), #245 (0→1), #246 (0→1)

Node 136 #6 (2→1), #8 (1→0), #21 (0→1), #29 (0→1), #36 (0→1), #46 (1→0), #104 (0→1),
#105 (0→1), #109 (0→1), #118 (0→1), #123 (0→1), #134 (0→1), #171 (1→0), #248
(0→1)

Node 137 #134 (0→1), #161 (1→2), #172 (0→1), #234 (2→1)

Node 138 #108 (0→2), #116 (0→1), #118 (0→1), #131 (0→1), #172 (0→1)

Node 139 #9 (1→0), #14 (0→1), #18 (0→1), #27 (0→1), #28 (0→1), #39 (3→2), #116 (0→1),
#120 (0→1), #147 (0→1)

Node 140 #33 (0→1), #57 (0→1), #146 (0→1), #214 (1→0)

Node 141 #18 (1→0), #151 (1→0), #154 (1→0)

Node 142 #3 (0→1), #23 (1→0), #32 (0→1), #45 (1→0), #56 (0→1), #59 (0→1), #66 (0→1),
#154 (0→2), #223 (0→1), #240 (0→1), #244 (1→2)

Node 143 #13 (0→1), #32 (0→2), #40 (1→0), #46 (1→0), #75 (1→0), #112 (0→1)

Node 144 #27 (0→1), #28 (0→1), #47 (0→1), #48 (0→1), #74 (0→1), #85 (0→2), #86 (0→1),
#107 (1→0), #108 (0→1), #132 (1→0), #163 (0→1), #243 (0→1), #244 (1→2), #248
(0→1)

Node 145 #121 (0→1)

Node 146 #1 (1→2), #6 (3→4), #10 (1→0), #13 (0→1), #14 (0→1), #23 (1→0), #33 (1→0),
#47 (0→1), #54 (0→1), #85 (0→2), #88 (2→1), #127 (0→1), #128 (0→1), #139 (1→0),
#147 (0→1), #180 (2→1), #237 (1→0), #244 (1→0)

Node 147 #2 (0→1), #21 (1→0), #24 (0→1), #32 (0→1), #41 (1→0), #50 (1→0), #64 (0→1),
#66 (0→1), #101 (1→0), #107 (1→0), #109 (0→1), #116 (0→1), #149 (1→0), #152
(0→1), #155 (0→1), #188 (0→1), #190 (1→0), #220 (1→0), #228 (0→1), #248 (0→1)

Node 148 #14 (0→1), #29 (0→1), #32 (0→1), #38 (0→1), #45 (1→0), #56 (0→1), #59 (0→1),
#66 (0→1), #120 (0→1), #143 (0→1), #237 (1→0), #239 (0→1), #245 (0→1), #246
(0→1)

Node 149 #40 (1→0), #101 (0→1), #156 (0→1), #180 (2→3), #181 (1→0), #183 (1→0), #248
(0→1)

Node 150 #46 (1→0), #133 (2→1), #136 (1→0), #161 (1→0), #164 (1→0), #180 (2→3)

Node 151 #118 (0→1), #119 (1→0), #127 (0→1), #132 (0→1), #150 (0→1), #152 (0→2), #156
(0→1), #159 (0→1), #179 (1→2)

Node 152 #1 (1→0), #16 (1→0), #18 (0→1), #20 (0→1), #39 (3→1), #45 (1→0), #63 (0→1),
#72 (0→1), #101 (0→1), #118 (0→1), #136 (1→0), #143 (0→1), #146 (0→1), #147
(0→1), #165 (2→0), #167 (1→0), #180 (2→0), #183 (1→0)

Node 153 #45 (1→0), #122 (0→3), #128 (0→1), #133 (0→1), #145 (1→0), #164 (1→3), #237
(1→0), #247 (0→1)

Node 154 #85 (0→2), #88 (2→1), #136 (1→0), #144 (1→0), #164 (1→4), #165 (2→1), #167
(1→0), #228 (0→1)

Node 155 #8 (1→0), #14 (0→1), #29 (0→2), #38 (0→1), #45 (1→0), #46 (1→0), #61 (0→2),
#105 (0→1), #109 (0→1), #111 (0→1), #122 (0→3), #123 (0→1), #140 (0→2), #164
(1→0), #236 (0→1), #237 (1→0), #242 (3→2)

Node 156 #106 (0→1), #114 (1→0), #122 (0→3), #133 (0→1), #136 (1→0), #244 (1→0)

Node 157 #114 (1→0), #146 (0→1), #237 (1→0), #244 (1→0)

Node 158 #123 (0→2), #125 (0→1), #131 (0→1), #133 (0→1), #135 (0→1), #142 (0→1), #153
(0→2), #180 (2→0), #248 (0→1)

Node 159 #5 (0→1), #36 (0→1), #44 (0→1), #101 (0→1), #105 (0→1), #109 (0→1), #115
(0→1), #116 (2→3), #118 (0→1), #126 (1→0), #127 (0→1), #128 (0→1), #133 (0→3),
#136 (1→2), #146 (0→1), #153 (0→1), #156 (0→1), #165 (2→1), #225 (0→1), #234
(0→1), #240 (0→1), #242 (3→2), #248 (0→1)

Node 160 #38 (0→1), #39 (3→2), #40 (1→0), #41 (1→0), #54 (2→1), #61 (0→2), #72 (0→1),
#107 (1→0), #113 (0→1), #116 (0→3), #118 (0→1), #134 (0→1), #154 (1→0), #164
(1→3), #234 (2→1), #247 (0→1)

Node 161 #27 (0→1), #39 (3→0), #55 (1→0), #80 (1→0), #116 (0→2), #133 (0→1), #139
(0→1), #146 (0→1), #179 (1→0), #204 (1→0), #234 (2→0)

Node 162 #11 (0→1), #14 (0→1), #19 (1→0), #21 (0→1), #39 (3→0), #45 (1→0), #46 (1→0),
#51 (1→0), #122 (0→3), #179 (1→2), #180 (2→3), #189 (0→1)

Node 163 #116 (0→2), #146 (0→1)

Node 164 #119 (1→0), #133 (0→1), #146 (0→1), #150 (0→1), #234 (2→0)

Node 165 #134 (0→1), #136 (0→1), #143 (0→1), #144 (0→1), #234 (2→1)

Node 166 #132 (0→2), #139 (0→1), #150 (0→1), #161 (1→0), #236 (0→1)

Node 167 #18 (0→1), #39 (3→1), #89 (1→0), #143 (0→1), #144 (0→1)

Node 168 #12 (0→1), #35 (1→2), #41 (1→0), #61 (2→0), #220 (1→0)

Node 169 #16 (0→1), #55 (1→0), #110 (0→1), #120 (1→0), #218 (0→1), #234 (2→0), #241
(0→1)

Node 170 #35 (1→0), #93 (0→1), #107 (0→1), #108 (0→2), #116 (1→2), #121 (0→1), #141
(0→1), #237 (1→0)

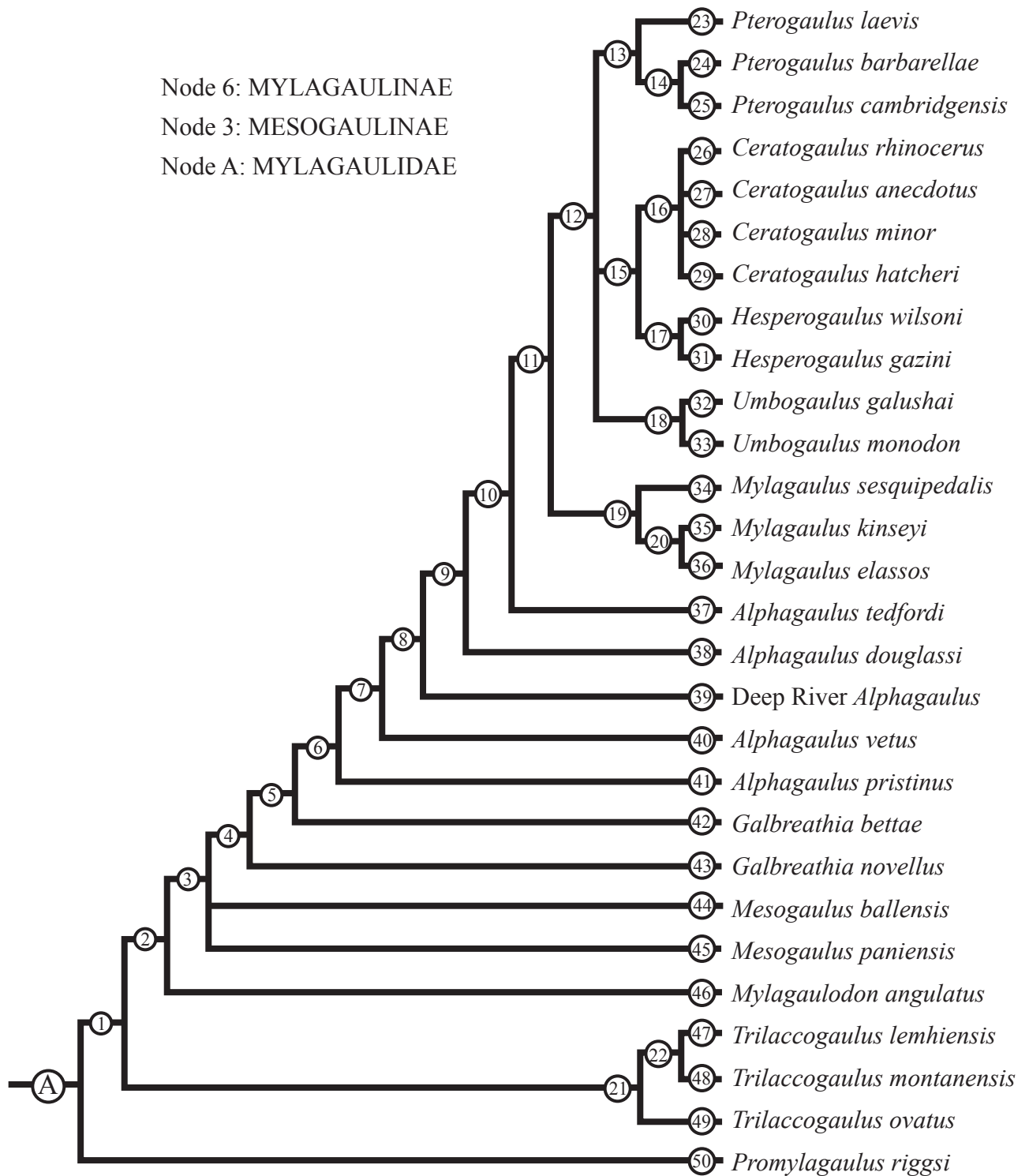
Node 171 #19 (1→0), #45 (1→0), #46 (1→0), #56 (0→1), #128 (0→1)

Node 172 #107 (0→1), #114 (0→1), #155 (0→1), #234 (2→0), #241 (0→1)

Node 173 #3 (1→0), #39 (3→1), #44 (1→0), #101 (0→1), #144 (0→1), #152 (0→1), #167
(1→0)

Node 174 #14 (0→2), #21 (0→1), #24 (0→1), #39 (3→0), #108 (0→2), #123 (0→2), #146
(0→1), #216 (0→1)

Node 175 #123 (0→1), #125 (0→1), #134 (0→1), #153 (0→2), #172 (0→1)





Node 126: ALLOMYINAE
 Node 134: ANSOMYINAE
 Node C: APLODONTIDAE

