

[illegible]

```

graph LR
    623 --- 7
    623 --- 89
    89 --- 7
    89 --- 13
    13 --- 7
    13 --- 2
    2 --- 2
    2 --- 1
  
```

Phylogenetic tree showing relationships between 12 taxa. The tree is rooted on the left and branches to the right. Bootstrap values are shown at the nodes. The taxa are numbered 1 through 12 on the right side of the tree.

Key values and relationships:

- Root node: 12
- Node 13: 275 (left branch), 13 (right branch)
- Node 14: 261 (left branch), 14 (right branch)
- Node 15: 251 (left branch), 15 (right branch)
- Node 16: 305 (left branch), 16 (right branch)
- Node 17: 282 (left branch), 17 (right branch)
- Node 18: 287 (left branch), 18 (right branch)
- Node 19: 293 (left branch), 19 (right branch)
- Node 20: 290 (left branch), 20 (right branch)
- Node 21: 264 (left branch), 21 (right branch)
- Node 22: 315 (left branch), 22 (right branch)
- Node 23: 312 (left branch), 23 (right branch)
- Node 24: 312 (left branch), 24 (right branch)
- Node 25: 51 (left branch), 25 (right branch)
- Node 26: 51 (left branch), 26 (right branch)
- Node 27: 84 (left branch), 27 (right branch)
- Node 28: 84 (left branch), 28 (right branch)
- Node 29: 61 (left branch), 29 (right branch)
- Node 30: 61 (left branch), 30 (right branch)

The dendrogram illustrates the hierarchical clustering of four samples (1, 2, 3, 4) based on their gene expression profiles. The tree structure shows that samples 1 and 2 are the most similar, with a distance of 275. Sample 3 joins this cluster at a distance of 355. Finally, sample 4 joins the entire cluster at a distance of 516. The distance scale ranges from 0 to 630.

Cluster	Members	Distance
1	1, 2	275
2	1, 2, 3	355
3	1, 2, 3, 4	516

[illegible][illegible]

A horizontal phylogenetic tree showing the relationships between six taxa (1-6). The tree is rooted on the left and branches to the right. The root splits into two main lineages. The upper lineage splits into a clade containing taxa 1 and 2, and a clade containing taxa 3 and 4. The lower lineage splits into a clade containing taxa 5 and 6, and a clade containing taxa 1 and 2. The branch lengths are labeled with numbers: 7, 259, 8, 369, 10, 269, 439, 11, 199, 499, 3, 398, 398.

```

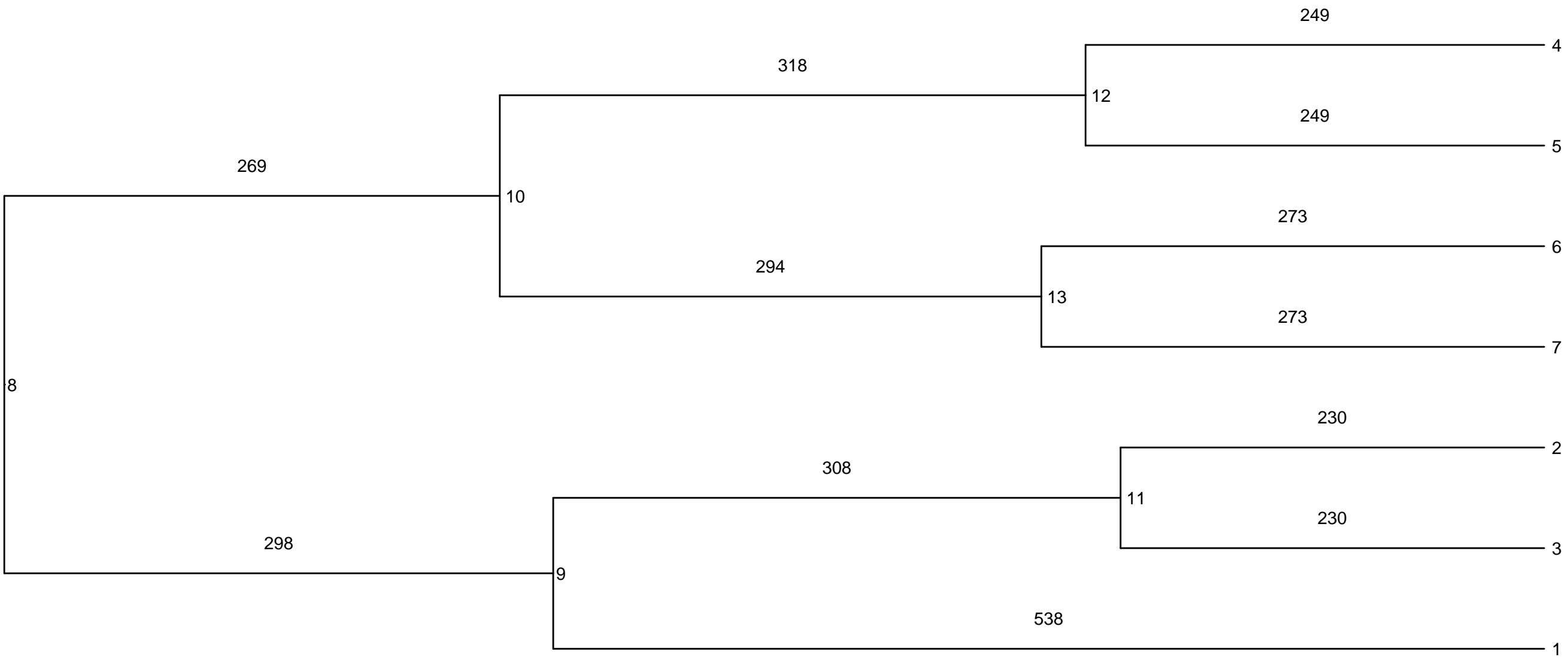
graph LR
    Root ---|7| Node1
    Node1 ---|259| Node2
    Node1 ---|499| Node3
    Node2 ---|8| Node4
    Node2 ---|439| Node5
    Node3 ---|3| Node6
    Node3 ---|398| Node7
    Node4 ---|369| Node8
    Node4 ---|10| Node9
    Node5 ---|11| Node10
    Node5 ---|199| Node11
    Node8 ---|269| Node12
    Node8 ---|269| Node13
    Node9 ---|269| Node14
    Node9 ---|269| Node15
    Node10 ---|199| Node16
    Node10 ---|199| Node17
    Node12 ---|269| Node18
    Node12 ---|269| Node19
    Node14 ---|269| Node20
    Node14 ---|269| Node21
    Node16 ---|199| Node22
    Node16 ---|199| Node23
    Node18 ---|269| Node24
    Node18 ---|269| Node25
    Node20 ---|269| Node26
    Node20 ---|269| Node27
    Node22 ---|199| Node28
    Node22 ---|199| Node29
    Node24 ---|269| Node30
    Node24 ---|269| Node31
    Node26 ---|269| Node32
    Node26 ---|269| Node33
    Node28 ---|199| Node34
    Node28 ---|199| Node35
    Node30 ---|269| Node36
    Node30 ---|269| Node37
    Node32 ---|269| Node38
    Node32 ---|269| Node39
    Node34 ---|199| Node40
    Node34 ---|199| Node41
    Node36 ---|269| Node42
    Node36 ---|269| Node43
    Node38 ---|269| Node44
    Node38 ---|269| Node45
    Node40 ---|199| Node46
    Node40 ---|199| Node47
    Node42 ---|269| Node48
    Node42 ---|269| Node49
    Node44 ---|269| Node50
    Node44 ---|269| Node51
    Node46 ---|199| Node52
    Node46 ---|199| Node53
    Node48 ---|269| Node54
    Node48 ---|269| Node55
    Node50 ---|269| Node56
    Node50 ---|269| Node57
    Node52 ---|199| Node58
    Node52 ---|199| Node59
    Node54 ---|269| Node60
    Node54 ---|269| Node61
    Node56 ---|269| Node62
    Node56 ---|269| Node63
    Node58 ---|199| Node64
    Node58 ---|199| Node65
    Node60 ---|269| Node66
    Node60 ---|269| Node67
    Node62 ---|269| Node68
    Node62 ---|269| Node69
    Node64 ---|199| Node70
    Node64 ---|199| Node71
    Node66 ---|269| Node72
    Node66 ---|269| Node73
    Node68 ---|269| Node74
    Node68 ---|269| Node75
    Node70 ---|199| Node76
    Node70 ---|199| Node77
    Node72 ---|269| Node78
    Node72 ---|269| Node79
    Node74 ---|269| Node80
    Node74 ---|269| Node81
    Node76 ---|199| Node82
    Node76 ---|199| Node83
    Node78 ---|269| Node84
    Node78 ---|269| Node85
    Node80 ---|269| Node86
    Node80 ---|269| Node87
    Node82 ---|199| Node88
    Node82 ---|199| Node89
    Node84 ---|269| Node90
    Node84 ---|269| Node91
    Node86 ---|269| Node92
    Node86 ---|269| Node93
    Node88 ---|199| Node94
    Node88 ---|199| Node95
    Node90 ---|269| Node96
    Node90 ---|269| Node97
    Node92 ---|269| Node98
    Node92 ---|269| Node99
    Node94 ---|199| Node100
    Node94 ---|199| Node101
    Node96 ---|269| Node102
    Node96 ---|269| Node103
    Node98 ---|269| Node104
    Node98 ---|269| Node105
    Node100 ---|199| Node106
    Node100 ---|199| Node107
    Node102 ---|269| Node108
    Node102 ---|269| Node109
    Node104 ---|269| Node110
    Node104 ---|269| Node111
    Node106 ---|199| Node112
    Node106 ---|199| Node113
    Node108 ---|269| Node114
    Node108 ---|269| Node115
    Node110 ---|269| Node116
    Node110 ---|269| Node117
    Node112 ---|199| Node118
    Node112 ---|199| Node119
    Node114 ---|269| Node120
    Node114 ---|269| Node121
    Node116 ---|269| Node122
    Node116 ---|269| Node123
    Node118 ---|199| Node124
    Node118 ---|199| Node125
    Node120 ---|269| Node126
    Node120 ---|269| Node127
    Node122 ---|269| Node128
    Node122 ---|269| Node129
    Node124 ---|199| Node130
    Node124 ---|199| Node131
    Node126 ---|269| Node132
    Node126 ---|269| Node133
    Node128 ---|269| Node134
    Node128 ---|269| Node135
    Node130 ---|199| Node136
    Node130 ---|199| Node137
    Node132 ---|269| Node138
    Node132 ---|269| Node139
    Node134 ---|269| Node140
    Node134 ---|269| Node141
    Node136 ---|199| Node142
    Node136 ---|199| Node143
    Node138 ---|269| Node144
    Node138 ---|269| Node145
    Node140 ---|269| Node146
    Node140 ---|269| Node147
    Node142 ---|199| Node148
    Node142 ---|199| Node149
    Node144 ---|269| Node150
    Node144 ---|269| Node151
    Node146 ---|269| Node152
    Node146 ---|269| Node153
    Node148 ---|199| Node154
    Node148 ---|199| Node155
    Node150 ---|269| Node156
    Node150 ---|269| Node157
    Node152 ---|269| Node158
    Node152 ---|269| Node159
    Node154 ---|199| Node160
    Node154 ---|199| Node161
    Node156 ---|269| Node162
    Node156 ---|269| Node163
    Node158 ---|269| Node164
    Node158 ---|269| Node165
    Node160 ---|199| Node166
    Node160 ---|199| Node167
    Node162 ---|269| Node168
    Node162 ---|269| Node169
    Node164 ---|269| Node170
    Node164 ---|269| Node171
    Node166 ---|199| Node172
    Node166 ---|199| Node173
    Node168 ---|269| Node174
    Node168 ---|269| Node175
    Node170 ---|269| Node176
    Node170 ---|269| Node177
    Node172 ---|199| Node178
    Node172 ---|199| Node179
    Node174 ---|269| Node180
    Node174 ---|269| Node181
    Node176 ---|269| Node182
    Node176 ---|269| Node183
    Node178 ---|199| Node184
    Node178 ---|199| Node185
    Node180 ---|269| Node186
    Node180 ---|269| Node187
    Node182 ---|269| Node188
    Node182 ---|269| Node189
    Node184 ---|199| Node190
    Node184 ---|199| Node191
    Node186 ---|269| Node192
    Node186 ---|269| Node193
    Node188 ---|269| Node194
    Node188 ---|269| Node195
    Node190 ---|199| Node196
    Node190 ---|199| Node197
    Node192 ---|269| Node198
    Node192 ---|269| Node199
    Node194 ---|269| Node200
    Node194 ---|269| Node201
    Node196 ---|199| Node202
    Node196 ---|199| Node203
    Node198 ---|269| Node204
    Node198 ---|269| Node205
    Node200 ---|269| Node206
    Node200 ---|269| Node207
    Node202 ---|199| Node208
    Node202 ---|199| Node209
    Node204 ---|269| Node210
    Node204 ---|269| Node211
    Node206 ---|269| Node212
    Node206 ---|269| Node213
    Node208 ---|199| Node214
    Node208 ---|199| Node215
    Node210 ---|269| Node216
    Node210 ---|269| Node217
    Node212 ---|269| Node218
    Node212 ---|269| Node219
    Node214 ---|199| Node220
    Node214 ---|199| Node221
    Node216 ---|269| Node222
    Node216 ---|269| Node223
    Node218 ---|269| Node224
    Node218 ---|269| Node225
    Node220 ---|199| Node226
    Node220 ---|199| Node227
    Node222 ---|269| Node228
    Node222 ---|269| Node229
    Node224 ---|269| Node230
    Node224 ---|269| Node231
    Node226 ---|199| Node232
    Node226 ---|199| Node233
    Node228 ---|269| Node234
    Node228 ---|269| Node235
    Node230 ---|269| Node236
    Node230 ---|269| Node237
    Node232 ---|199| Node238
    Node232 ---|199| Node239
    Node234 ---|269| Node240
    Node234 ---|269| Node241
    Node236 ---|269| Node242
    Node236 ---|269| Node243
    Node238 ---|199| Node244
    Node238 ---|199| Node245
    Node240 ---|269| Node246
    Node240 ---|269| Node247
    Node242 ---|269| Node248
    Node242 ---|269| Node249
    Node244 ---|199| Node25
```

Phylogenetic tree of the 18S rDNA sequences of the 19 isolates. The tree shows two main clusters. The top cluster (27) includes isolates 18, 19, 20, 21, 23, 24, and 22. The bottom cluster (26) includes isolates 13, 14, 12, 15, and 16. Bootstrap values are indicated at the nodes.

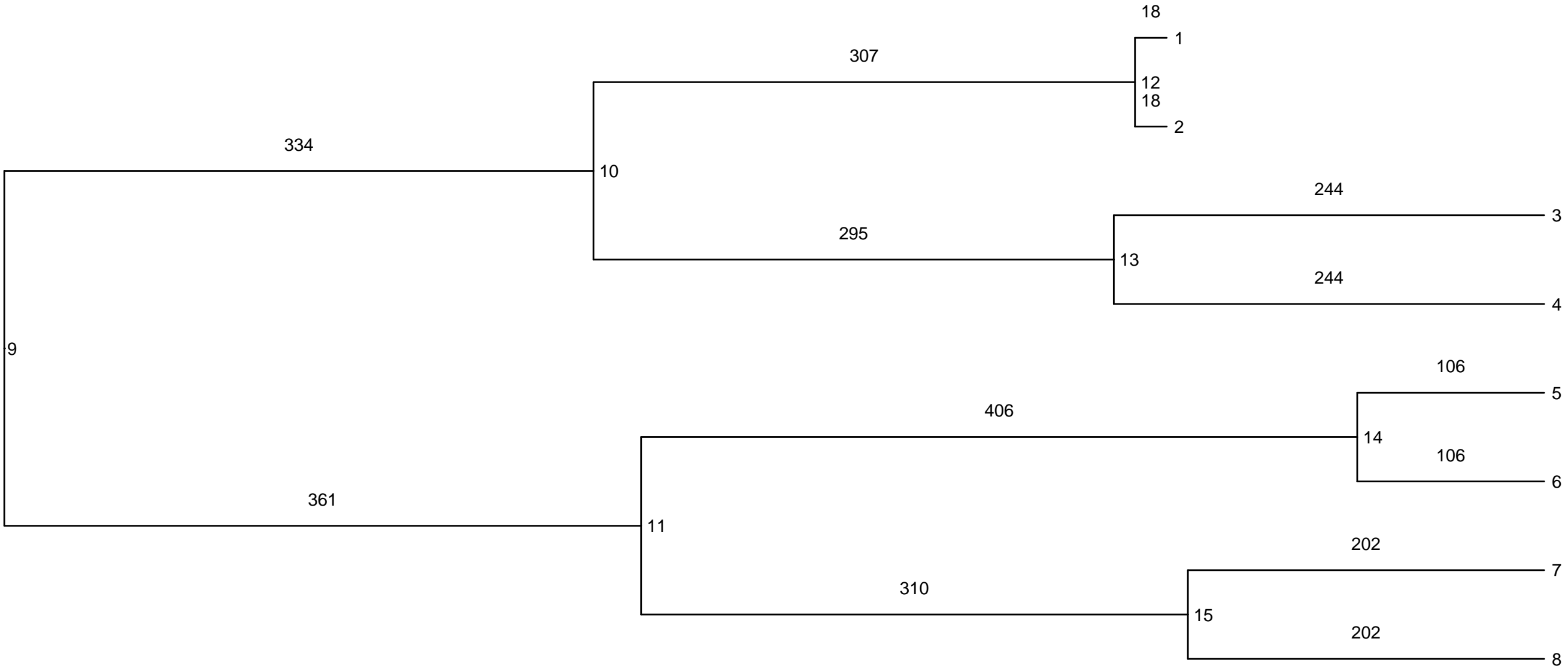
A phylogenetic tree with six taxa labeled 1 through 6. The tree is rooted on the left. The first major split is at a node with a bootstrap value of 7, separating taxon 1 from a clade containing taxa 2, 3, 4, 5, and 6. The clade containing taxa 2, 3, 4, 5, and 6 is supported by a bootstrap value of 457 at its base. This clade splits at a node with a bootstrap value of 8 into taxon 2 and a clade containing taxa 3, 4, 5, and 6. The clade containing taxa 3, 4, 5, and 6 is supported by a bootstrap value of 326 at its base. This clade splits at a node with a bootstrap value of 10 into taxon 3 and a clade containing taxa 4, 5, and 6. The clade containing taxa 4, 5, and 6 is supported by a bootstrap value of 145 at its base. This clade splits at a node with a bootstrap value of 145 into taxon 4 and a clade containing taxa 5 and 6. The clade containing taxa 5 and 6 is supported by a bootstrap value of 78 at its base. This clade splits at a node with a bootstrap value of 11 into taxon 5 and taxon 6. The clade containing taxa 1 and 2 is supported by a bootstrap value of 335 at its base. This clade splits at a node with a bootstrap value of 9 into taxon 1 and a clade containing taxa 3, 4, 5, and 6. The clade containing taxa 3, 4, 5, and 6 is supported by a bootstrap value of 515 at its base. This clade splits at a node with a bootstrap value of 593 into taxon 3 and a clade containing taxa 4, 5, and 6. The clade containing taxa 4, 5, and 6 is supported by a bootstrap value of 78 at its base. This clade splits at a node with a bootstrap value of 78 into taxon 4 and a clade containing taxa 5 and 6. The clade containing taxa 5 and 6 is supported by a bootstrap value of 11 at its base. This clade splits at a node with a bootstrap value of 11 into taxon 5 and taxon 6.

[illegible]

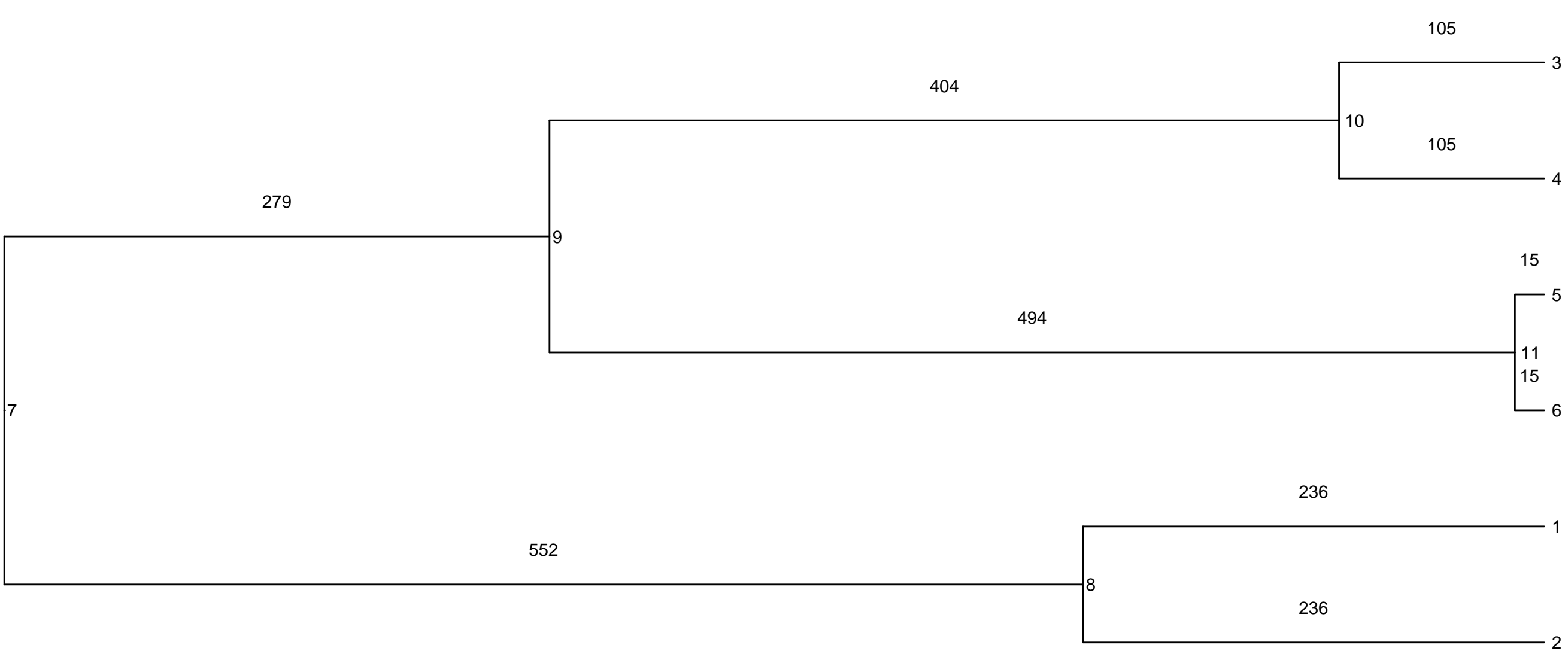
early_P5_OE_74



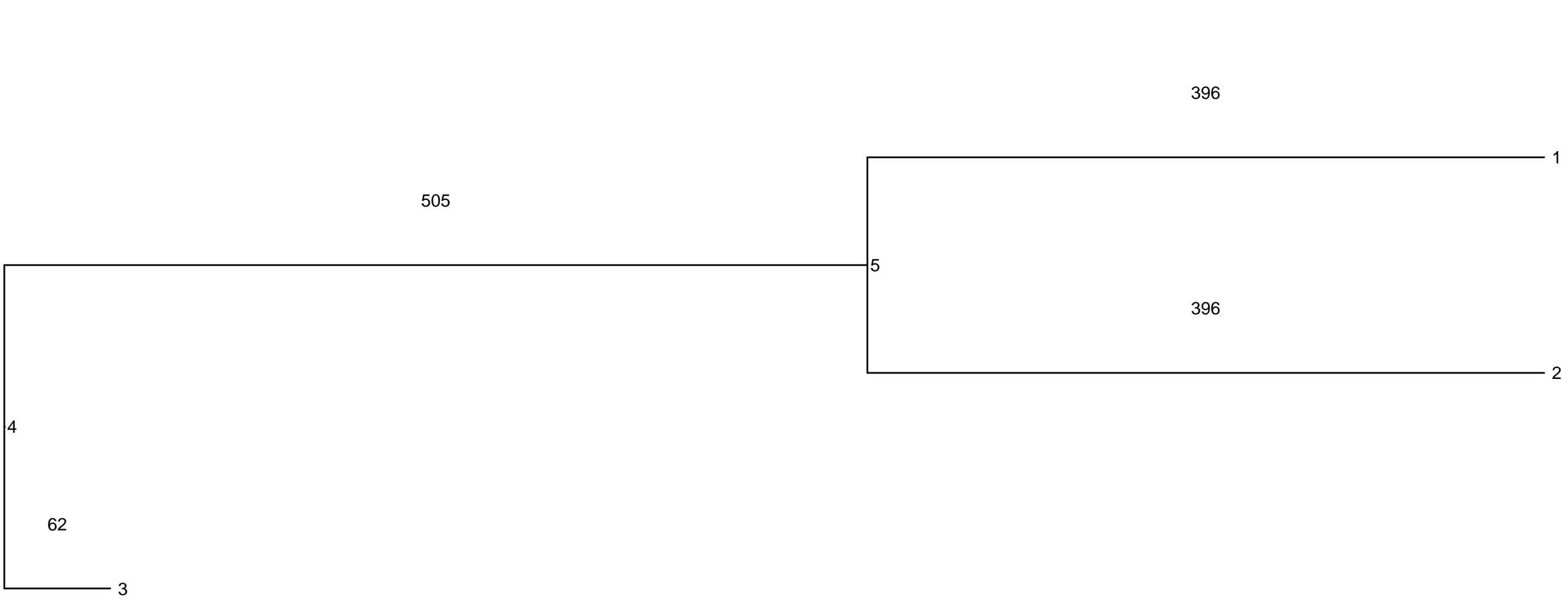
early_P6_OE_111



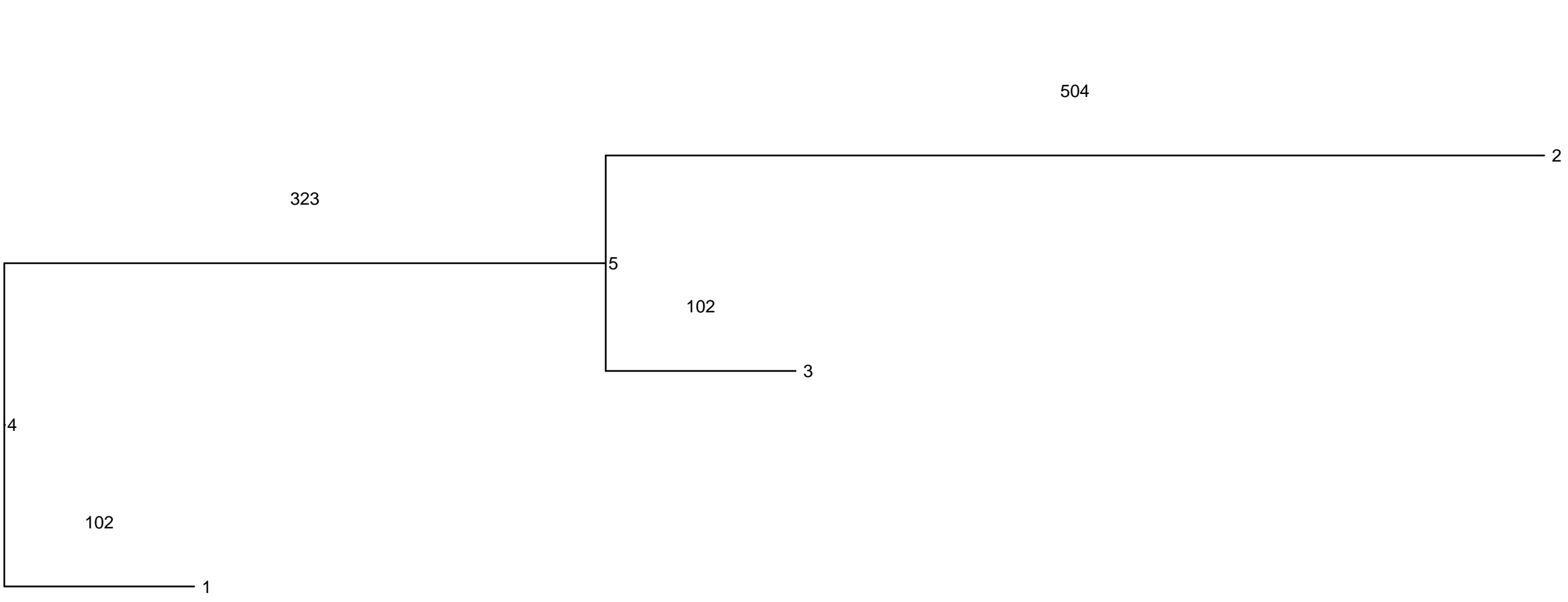
early_P6_OE_142



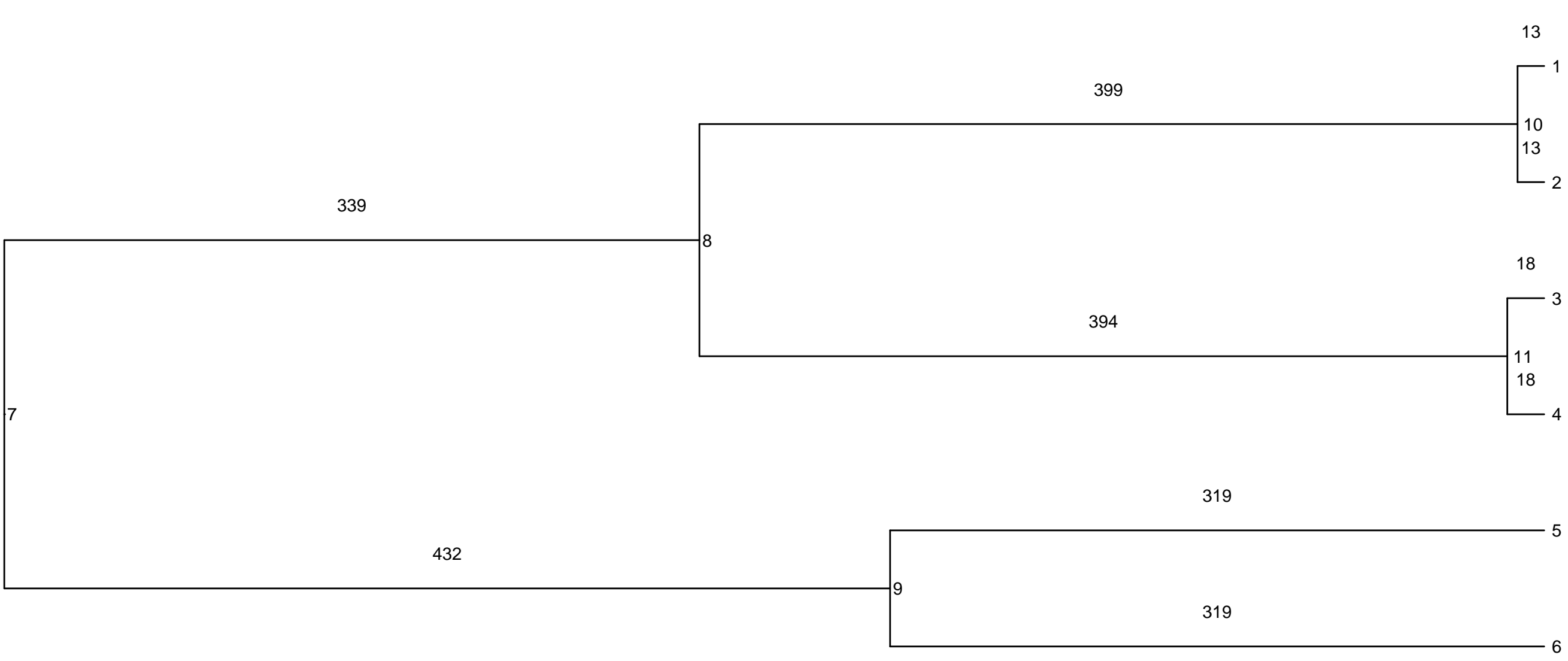
early_P6_OE_164



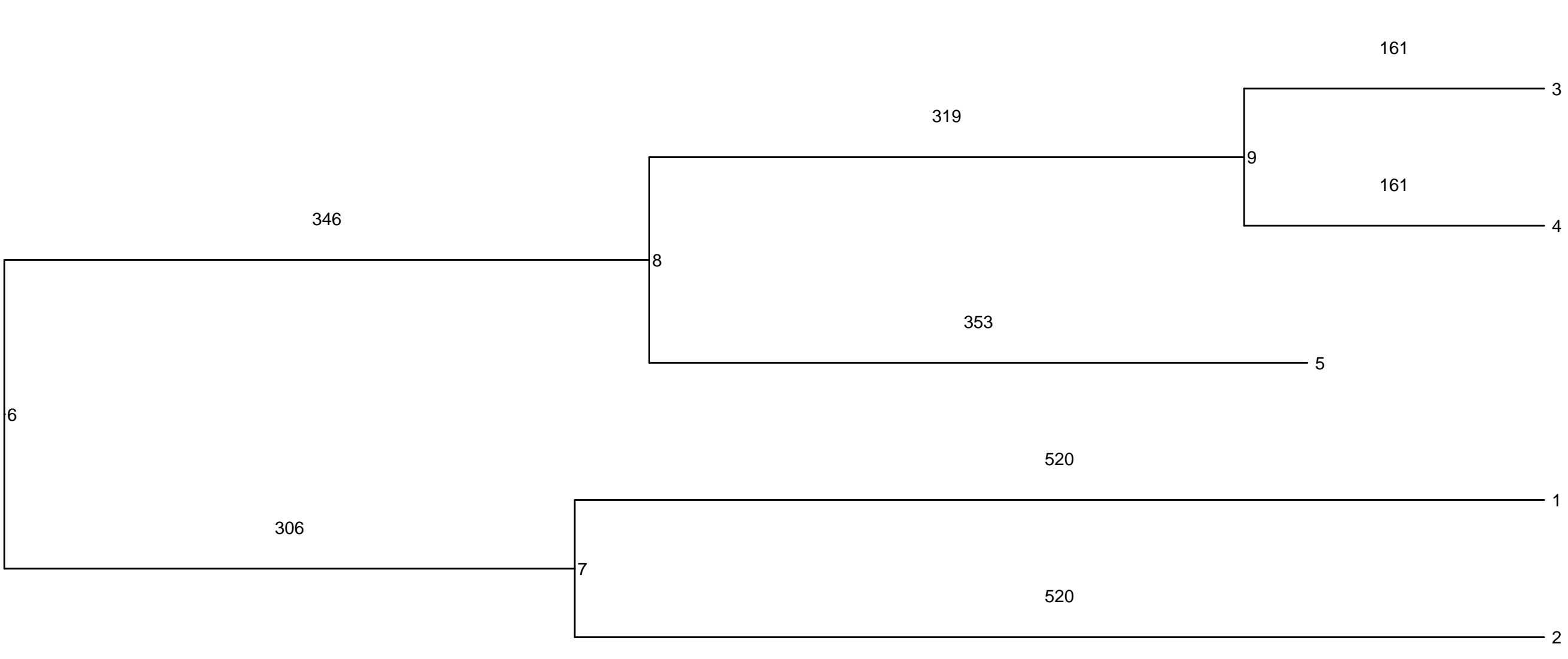
early_P6_OE_186



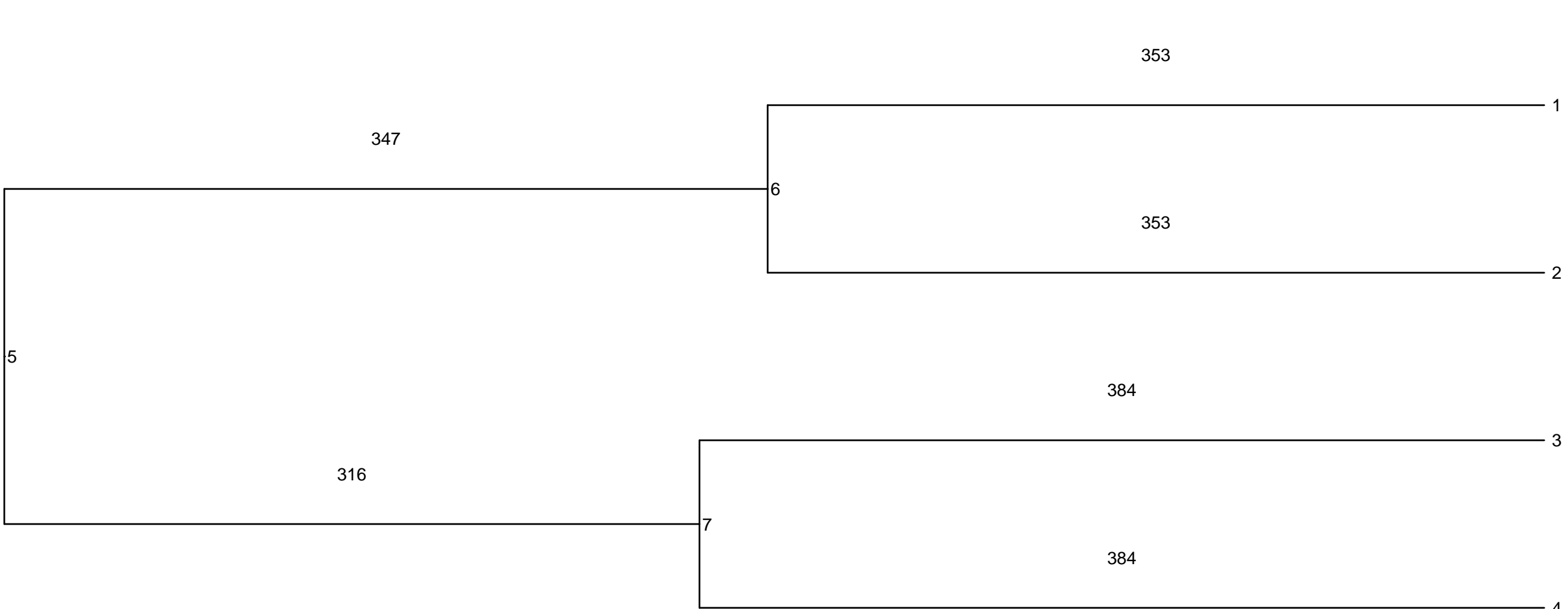
early_P6_OE_210



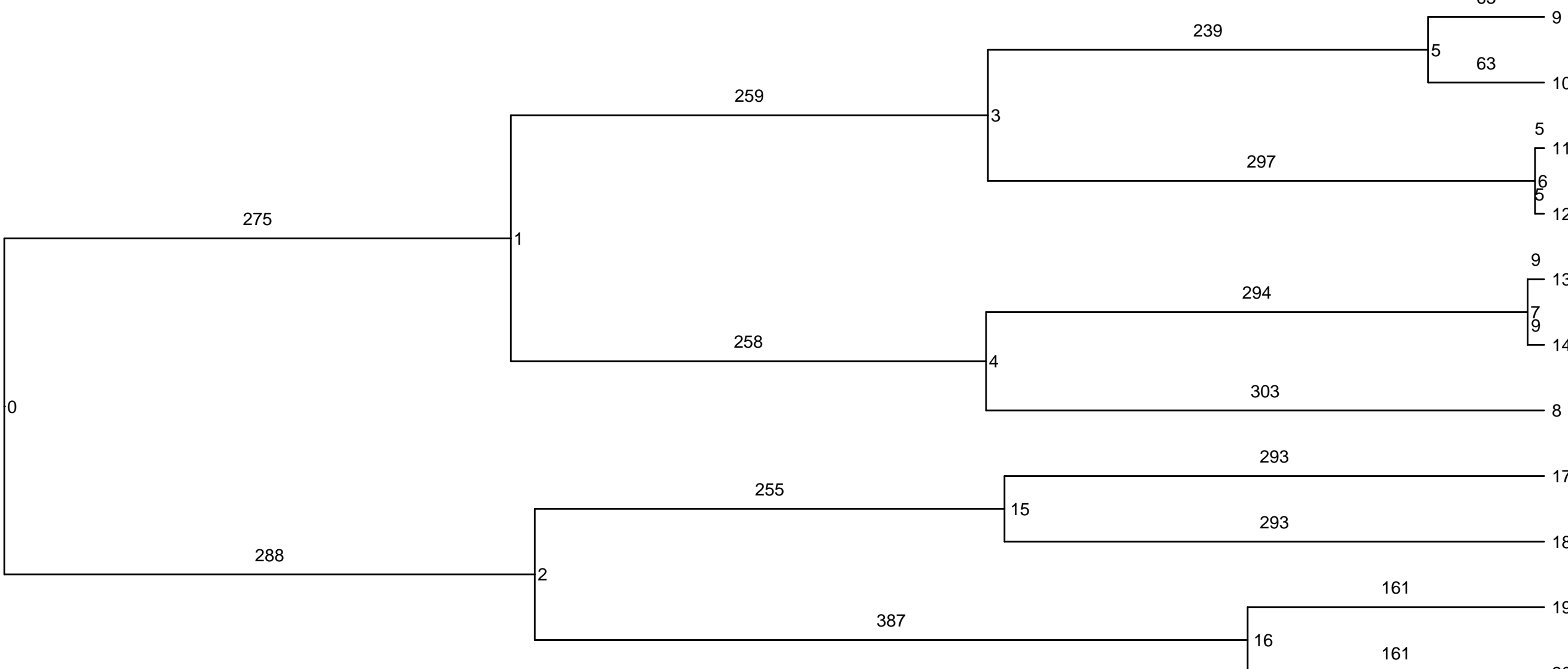
early_P6_OE_231



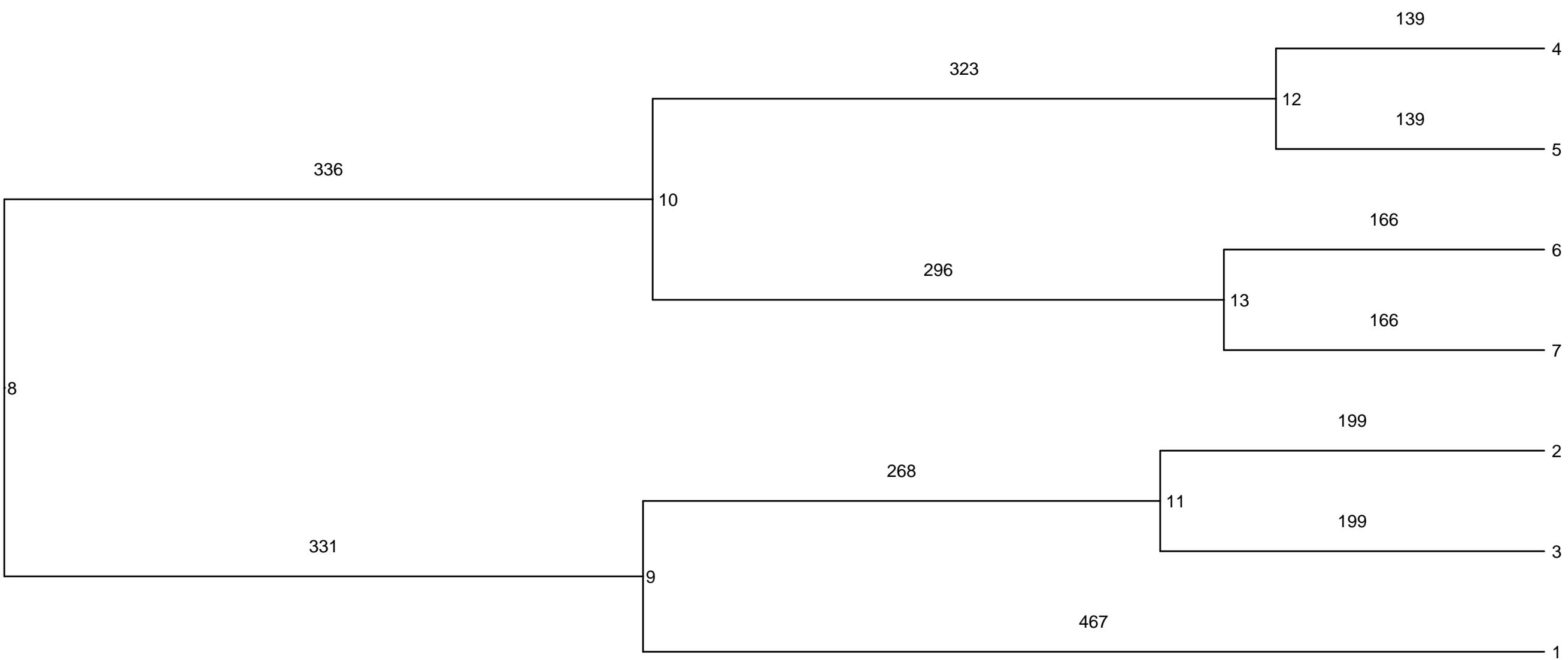
early_P5_OE_7



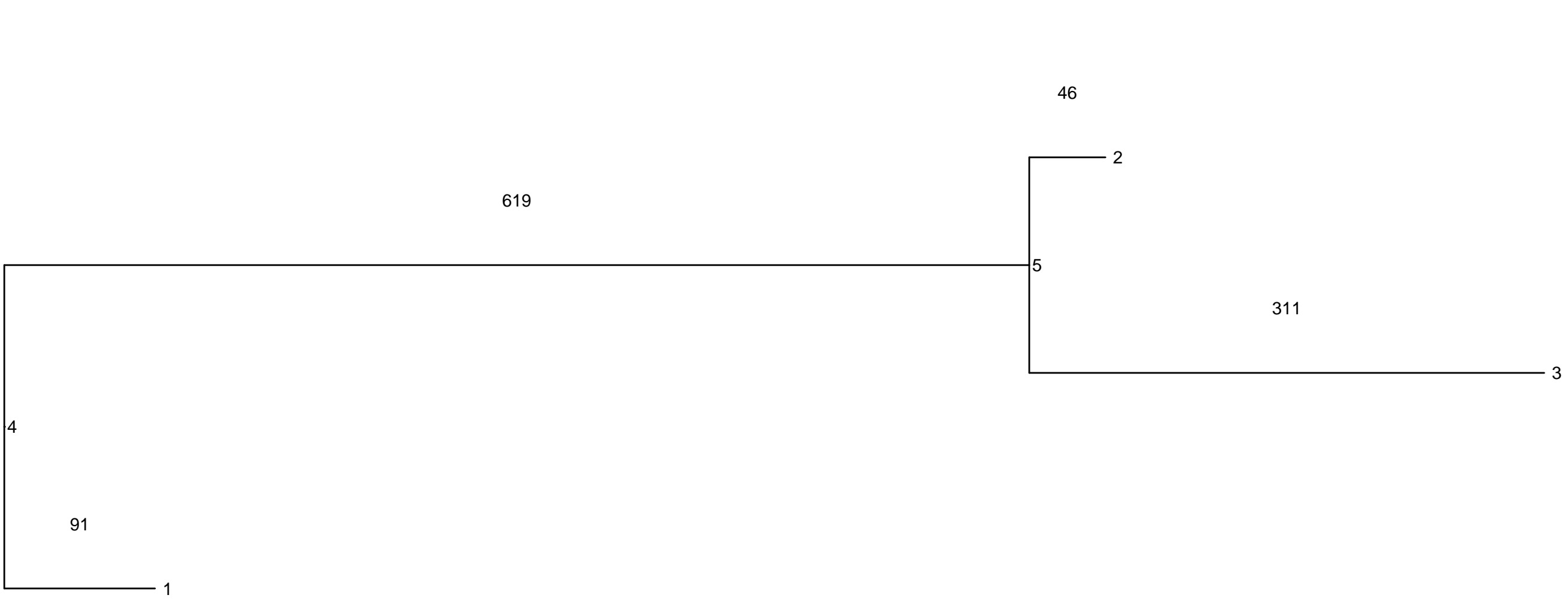
early_P5_OE_98



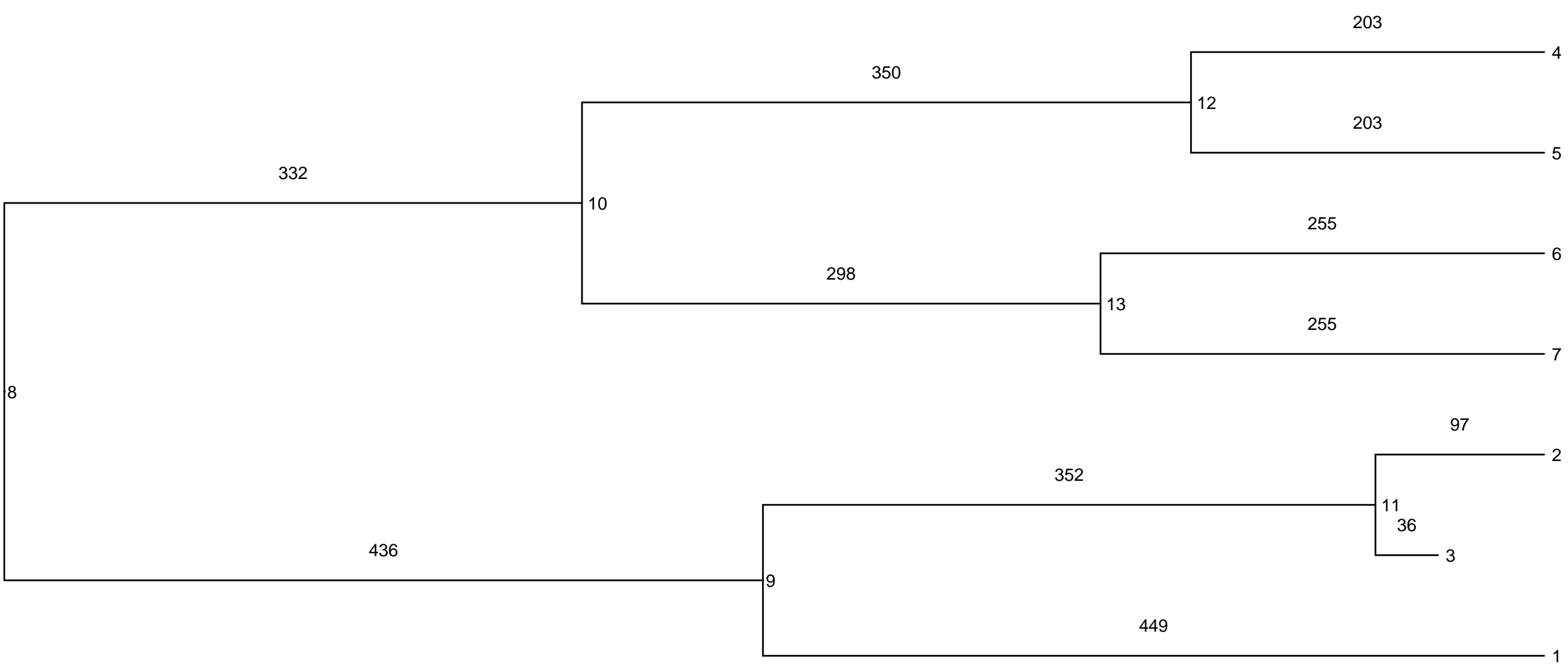
early_P6_OE_128



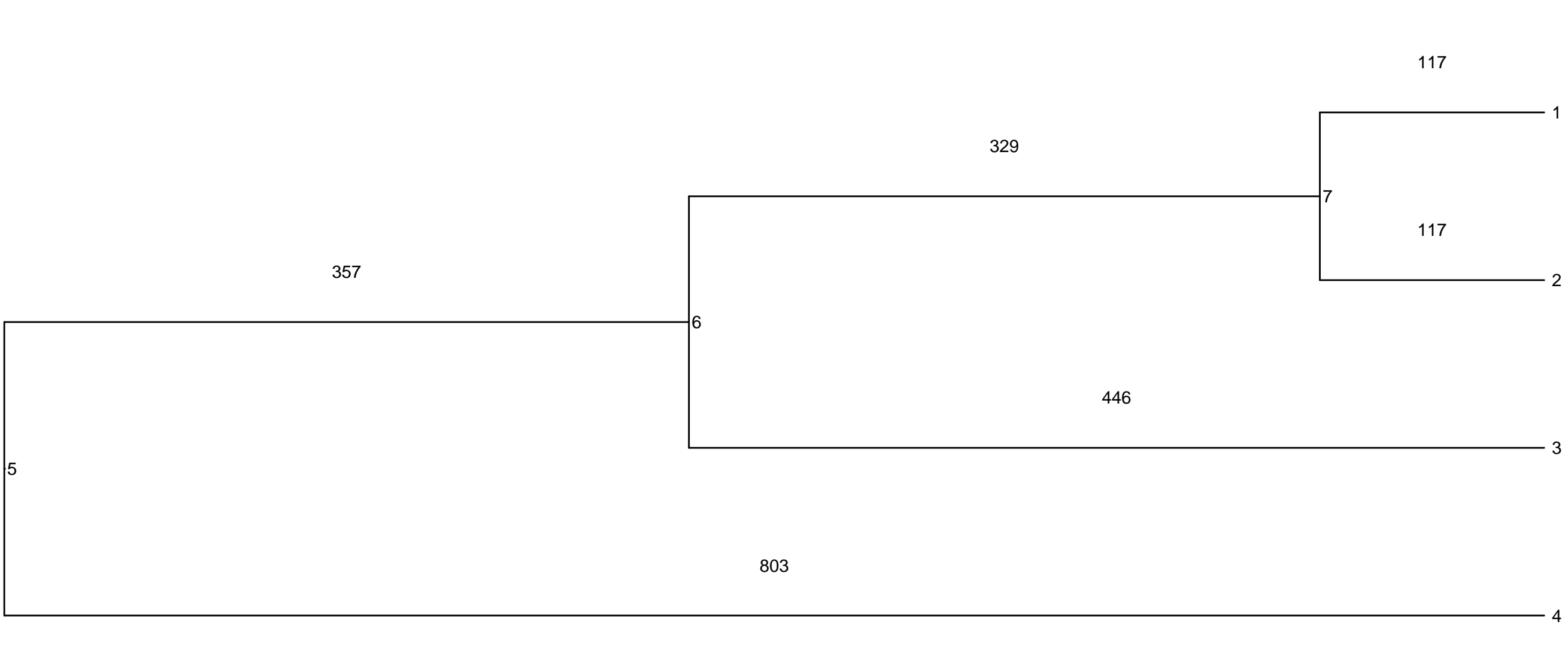
early_P6_OE_154



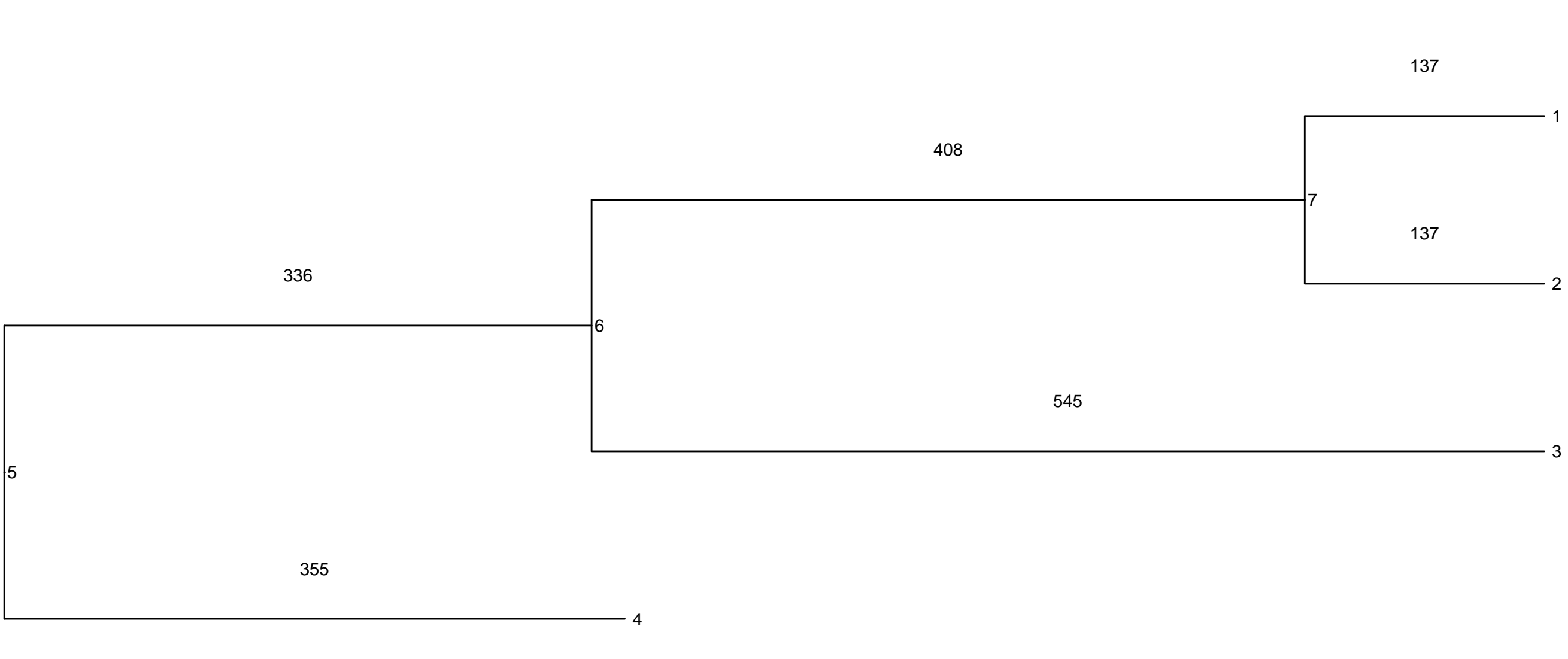
early_P6_OE_174



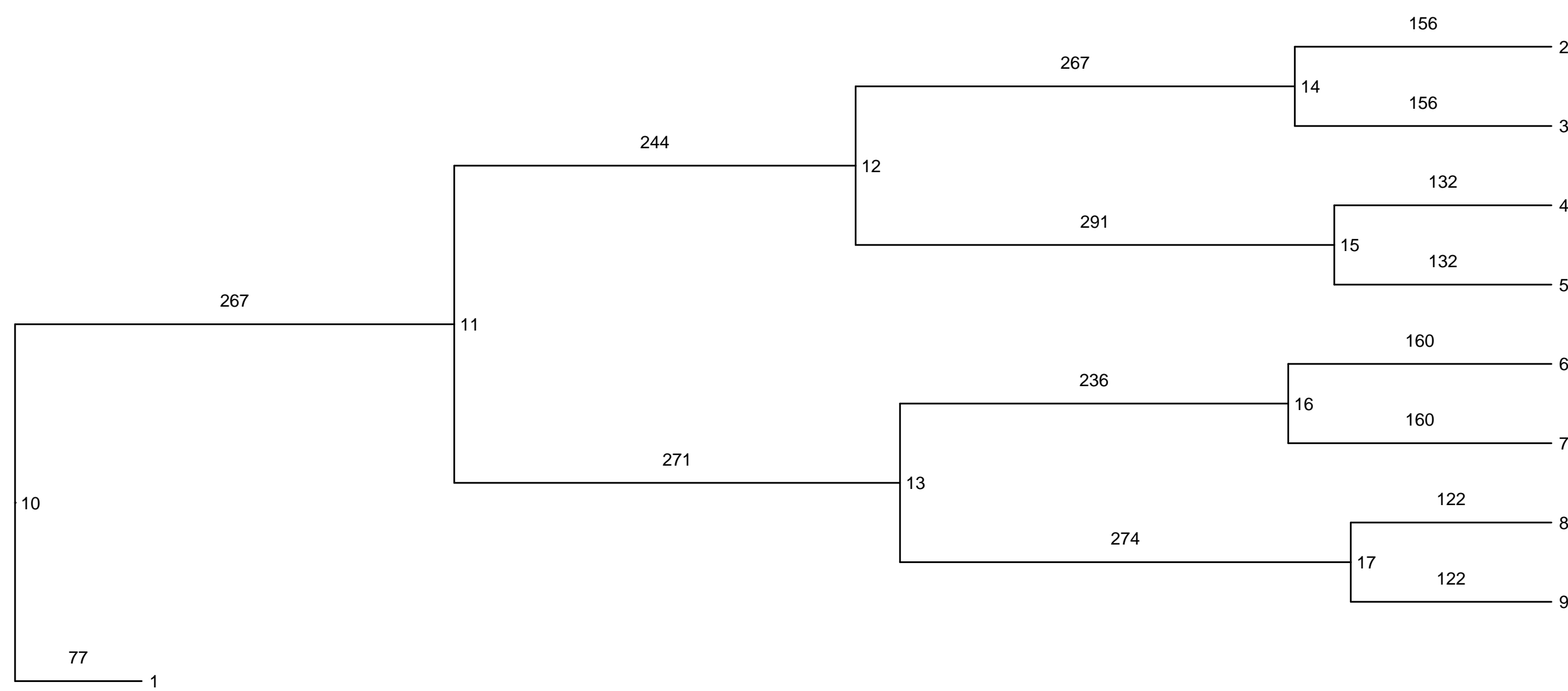
early_P6_OE_198



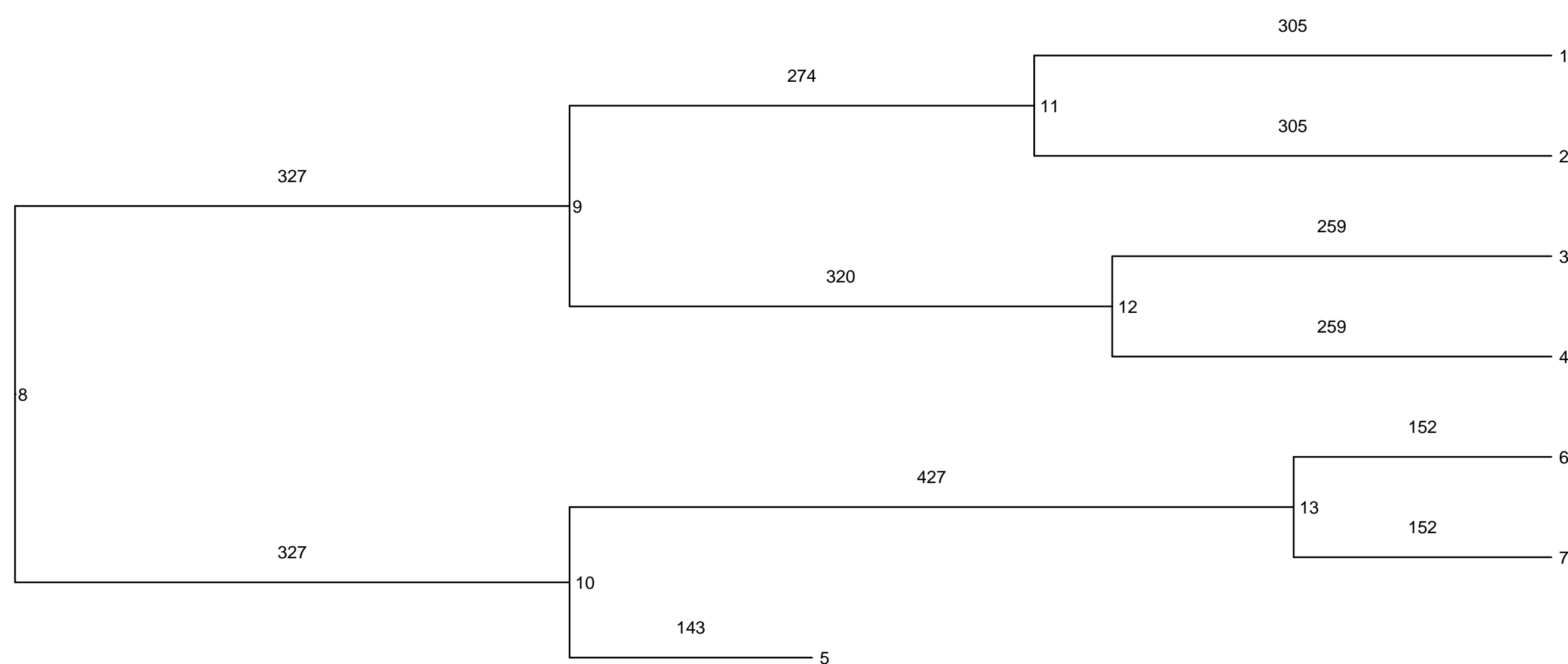
early_P6_OE_222



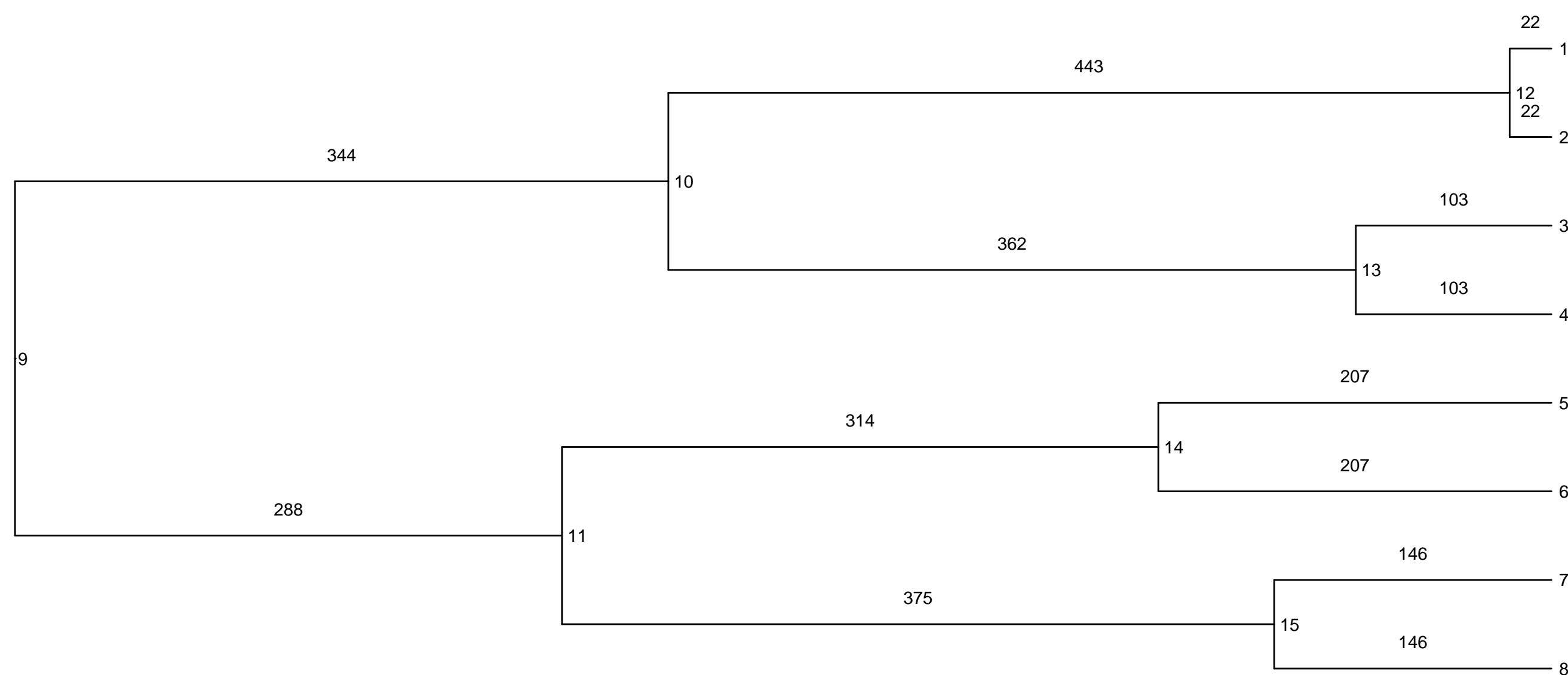
early_P6_OE_249



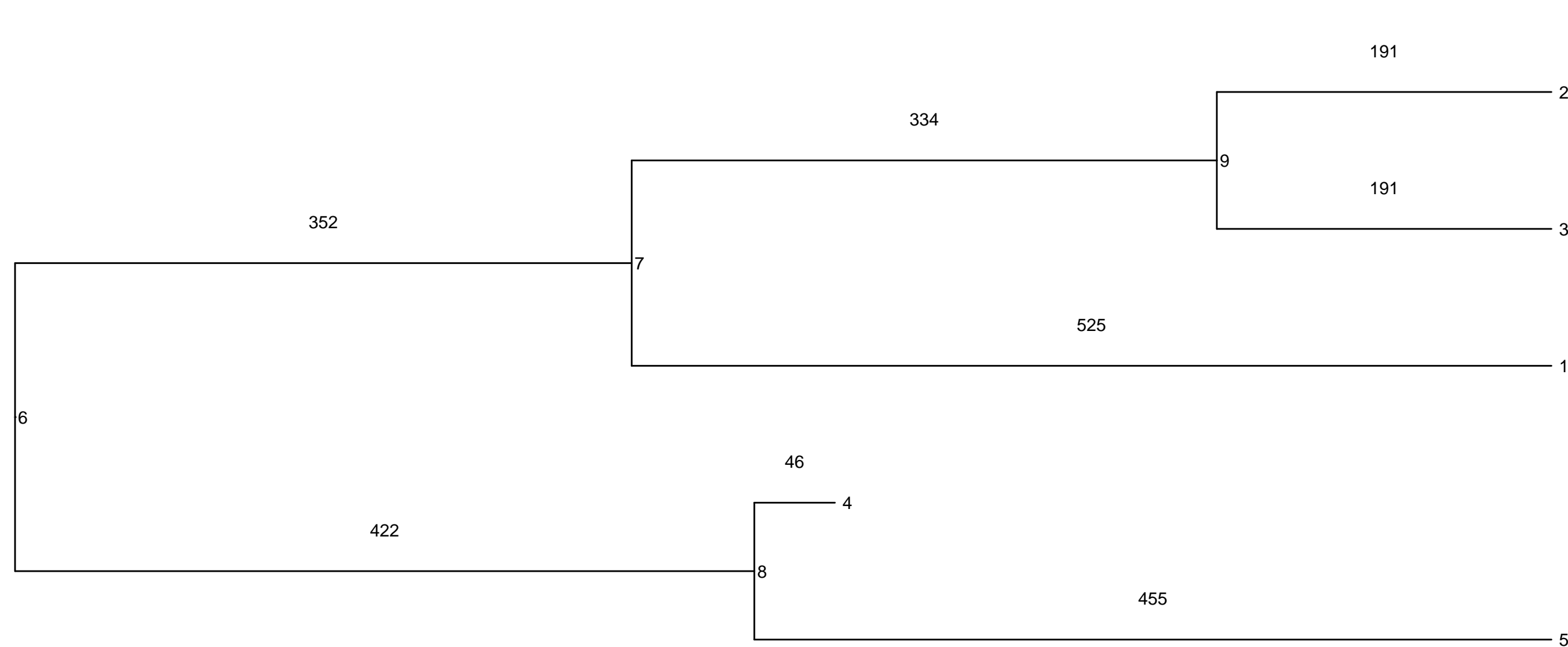
early_P6_OE_296



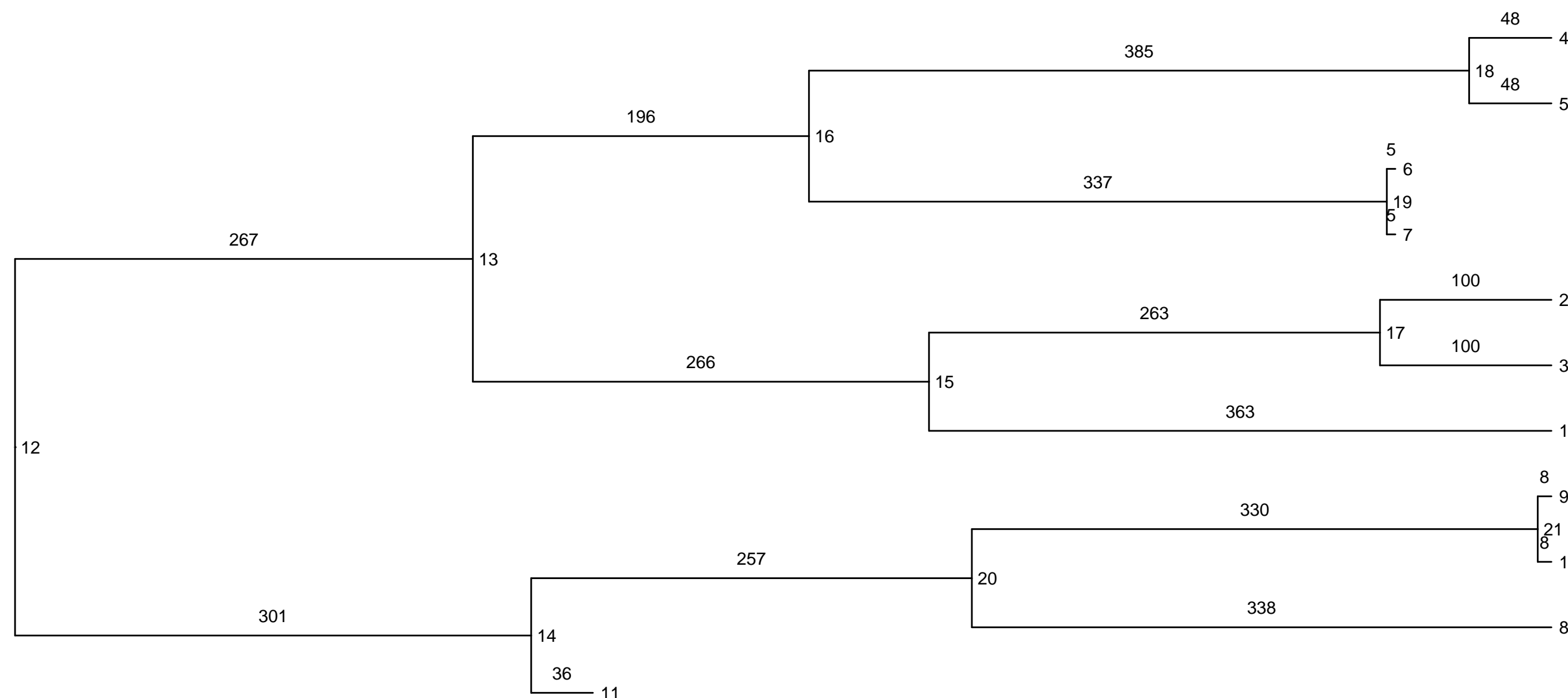
early_P6_OE_324



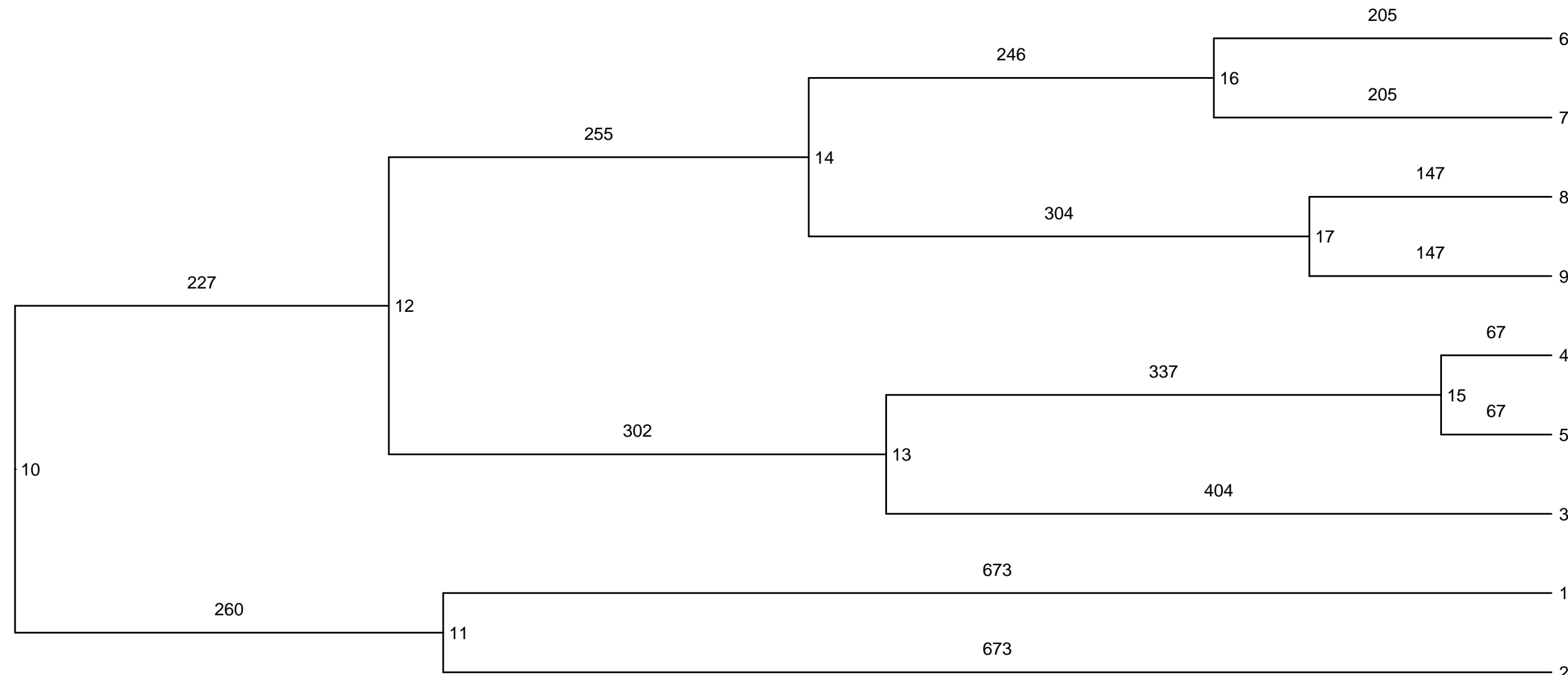
early_P6_OE_66



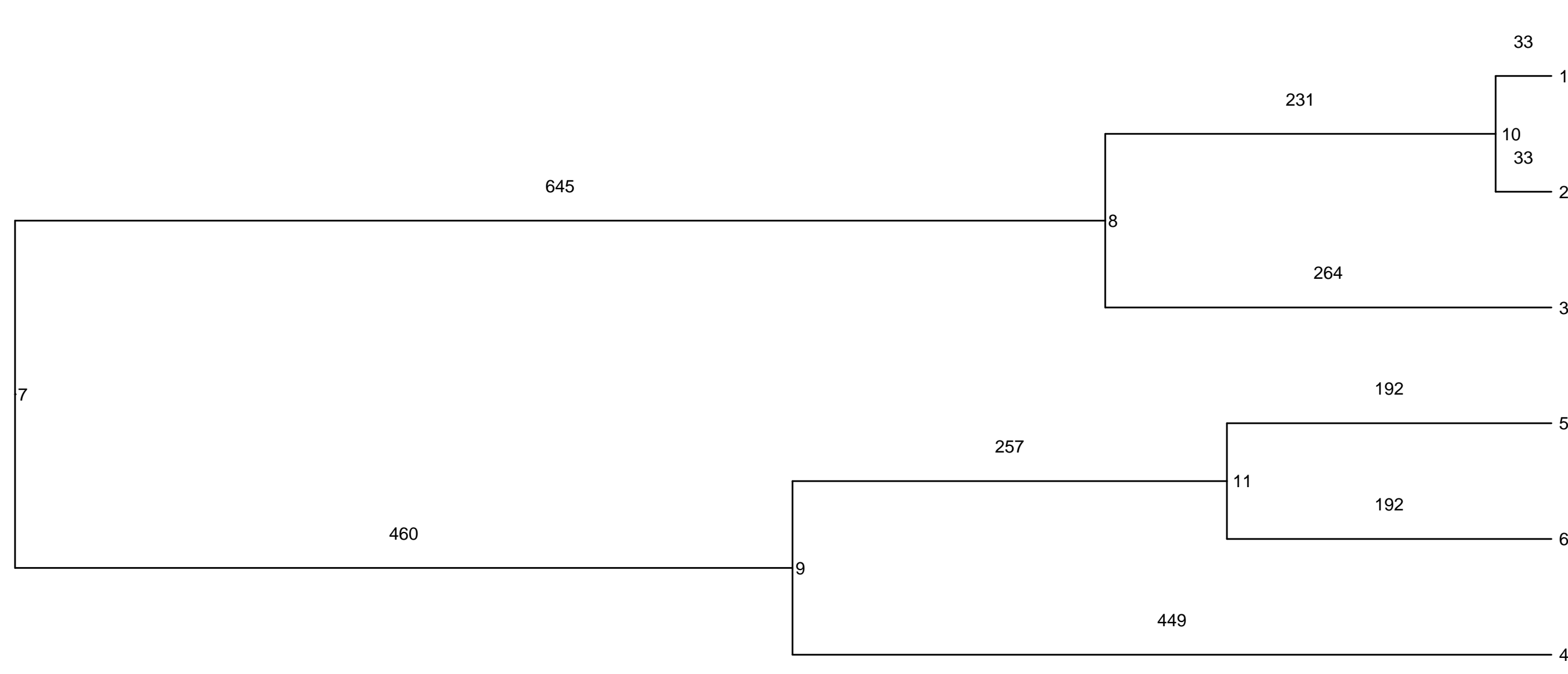
early_P6_OE_93



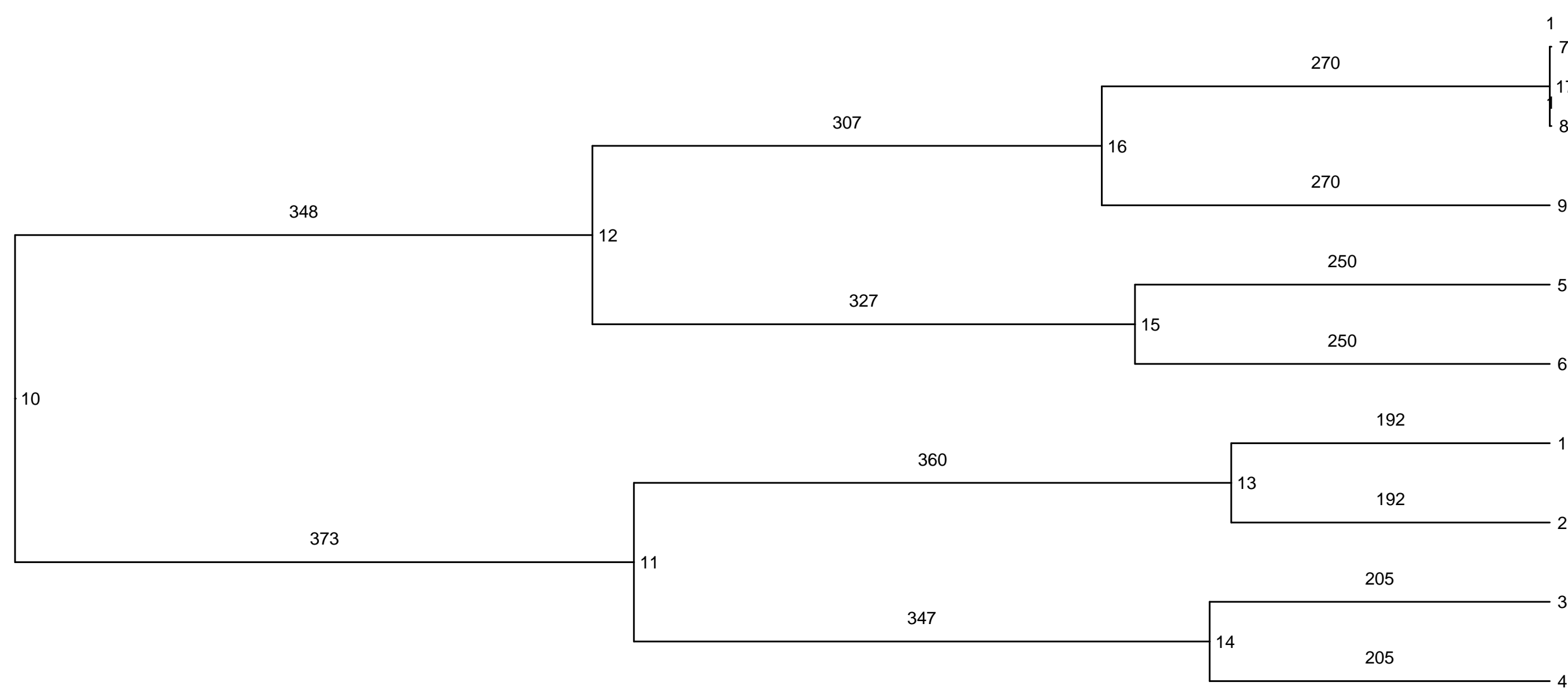
early_P7_OE_116



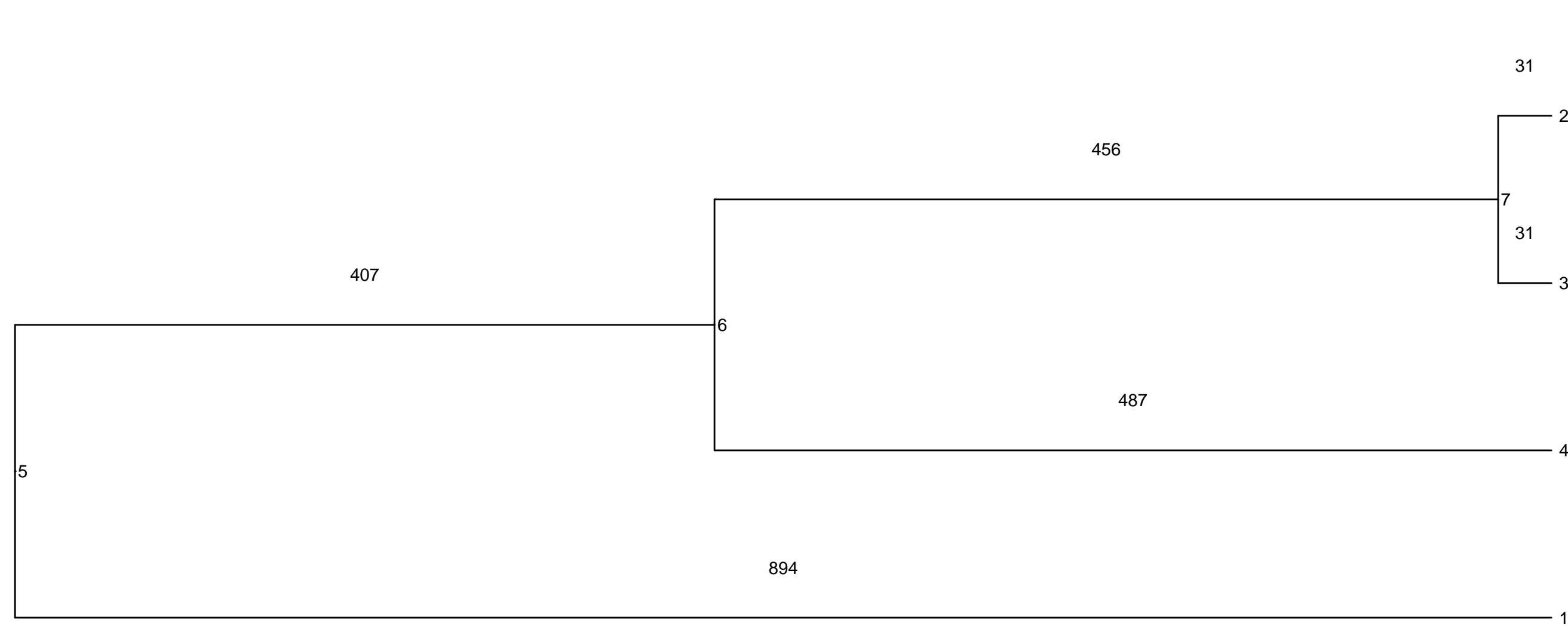
early_P7_OE_151



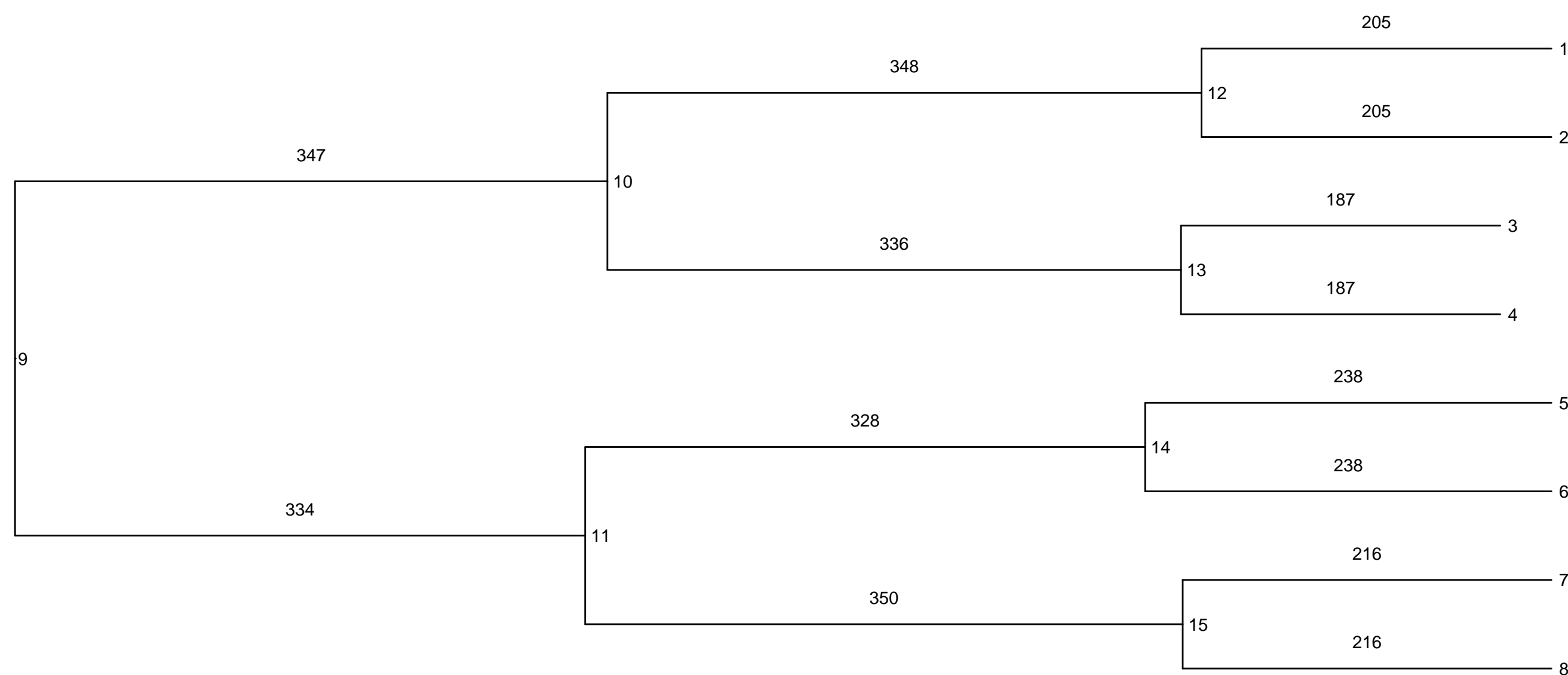
early_P6_OE_275



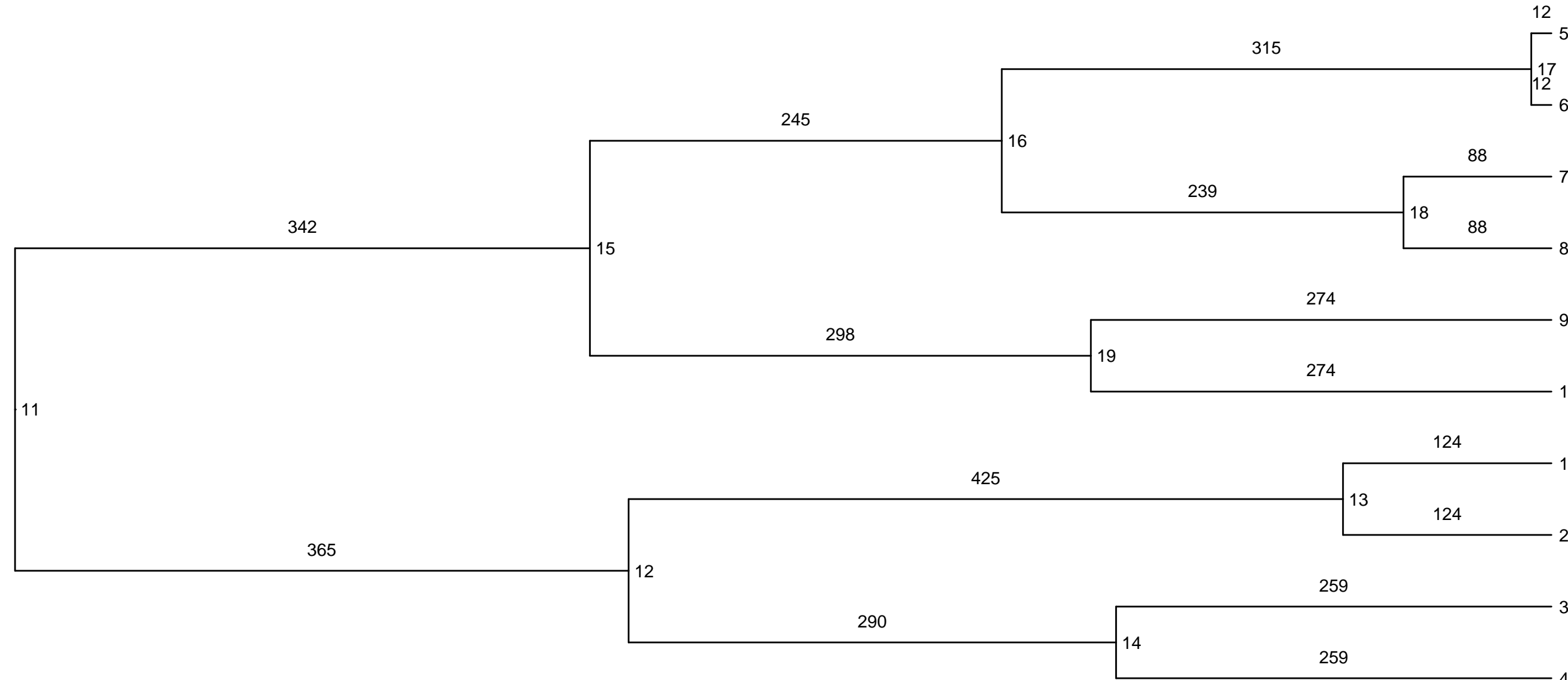
early_P6_OE_308



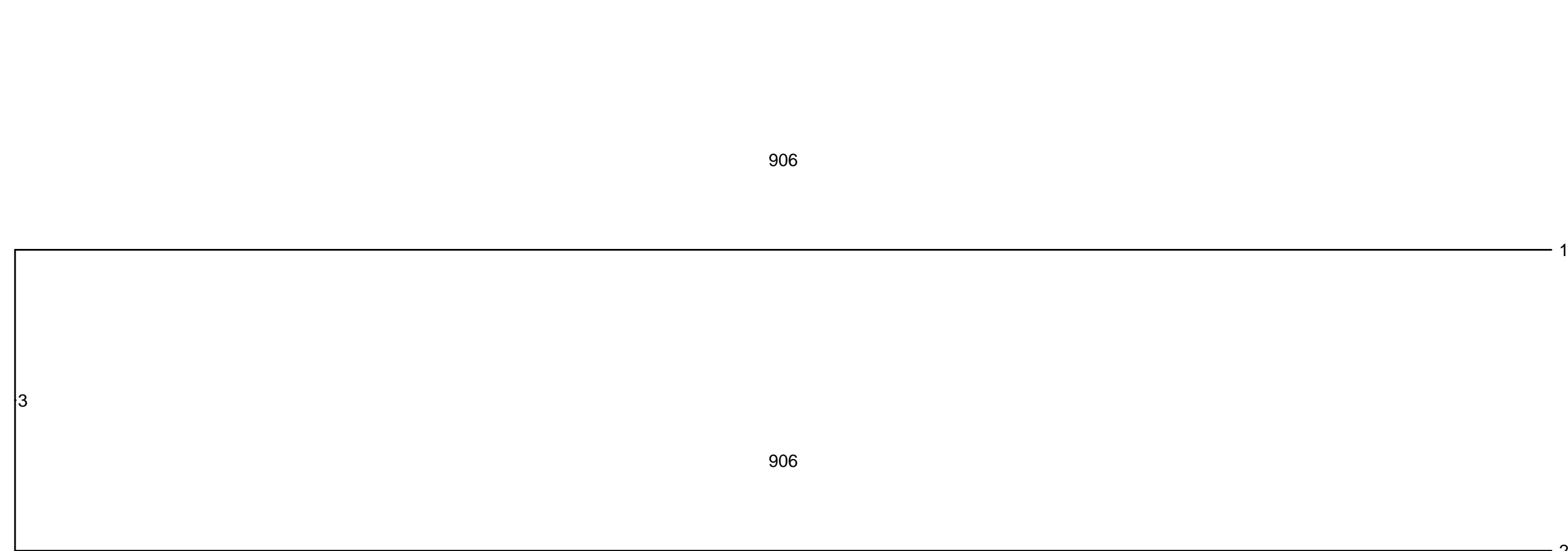
early_P6_OE_50



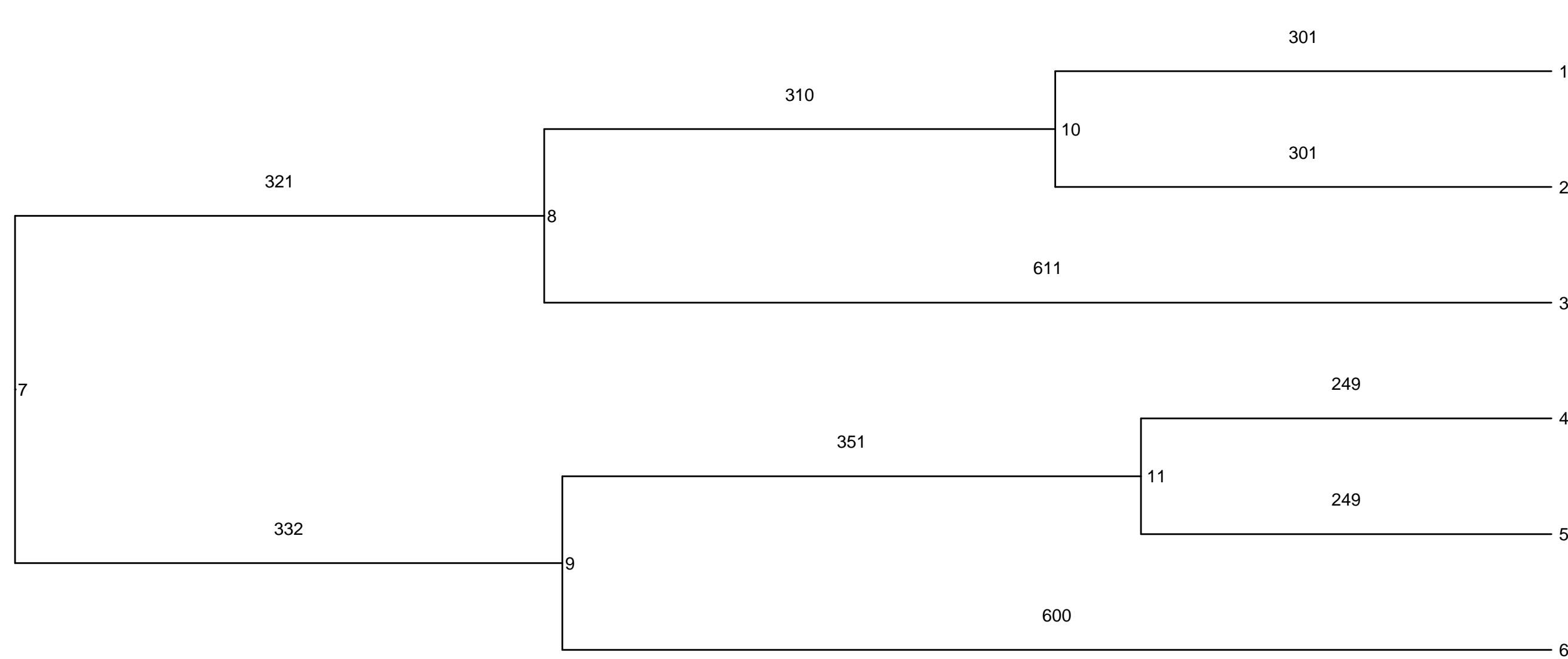
early_P6_OE_8



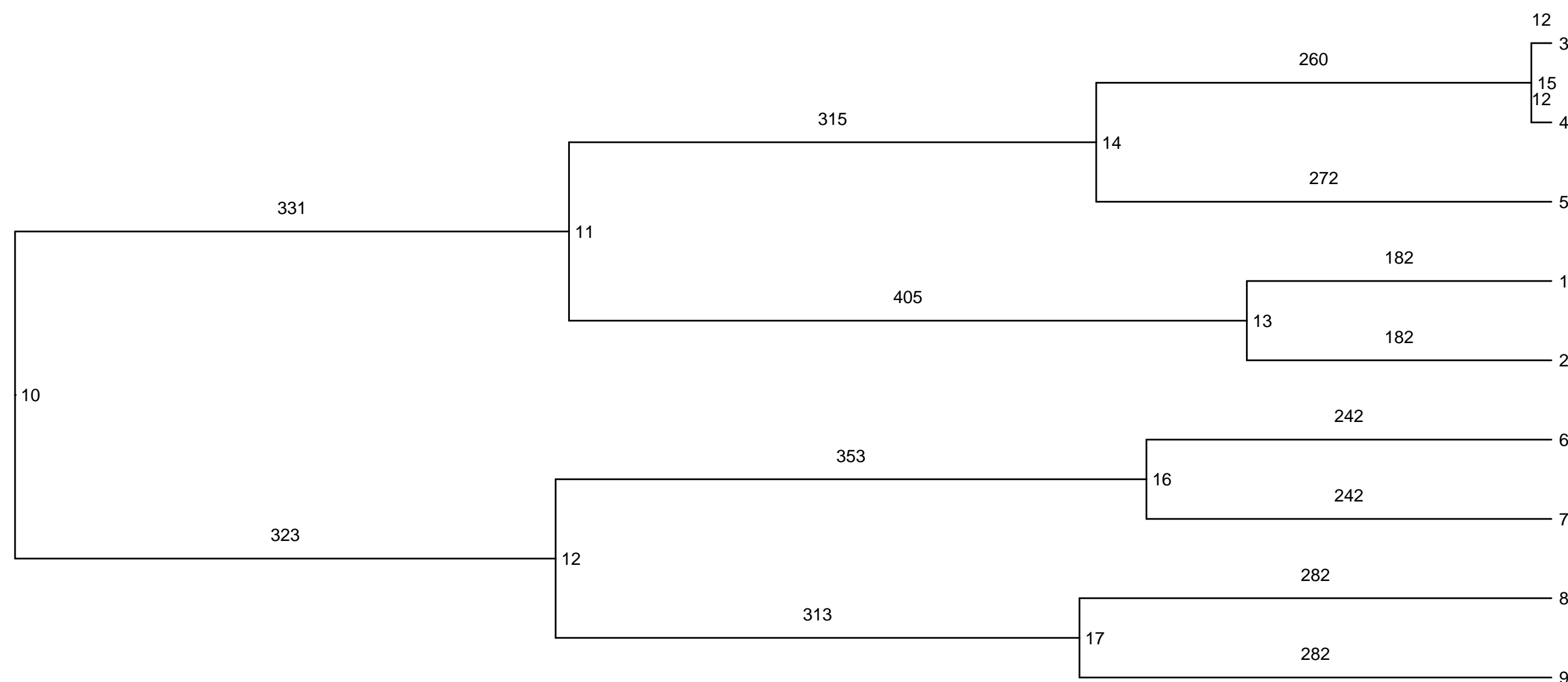
early_P7_OE_100



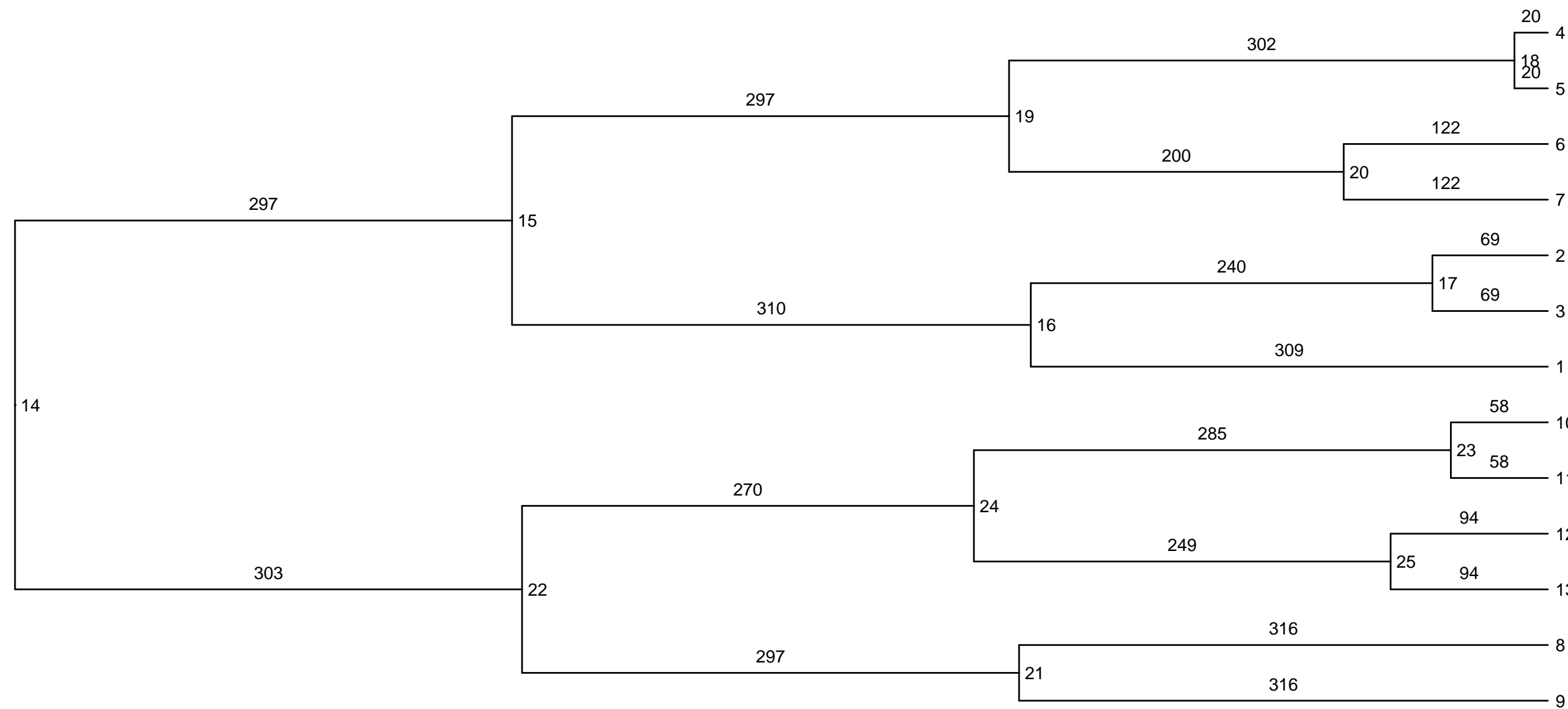
early_P7_OE_137



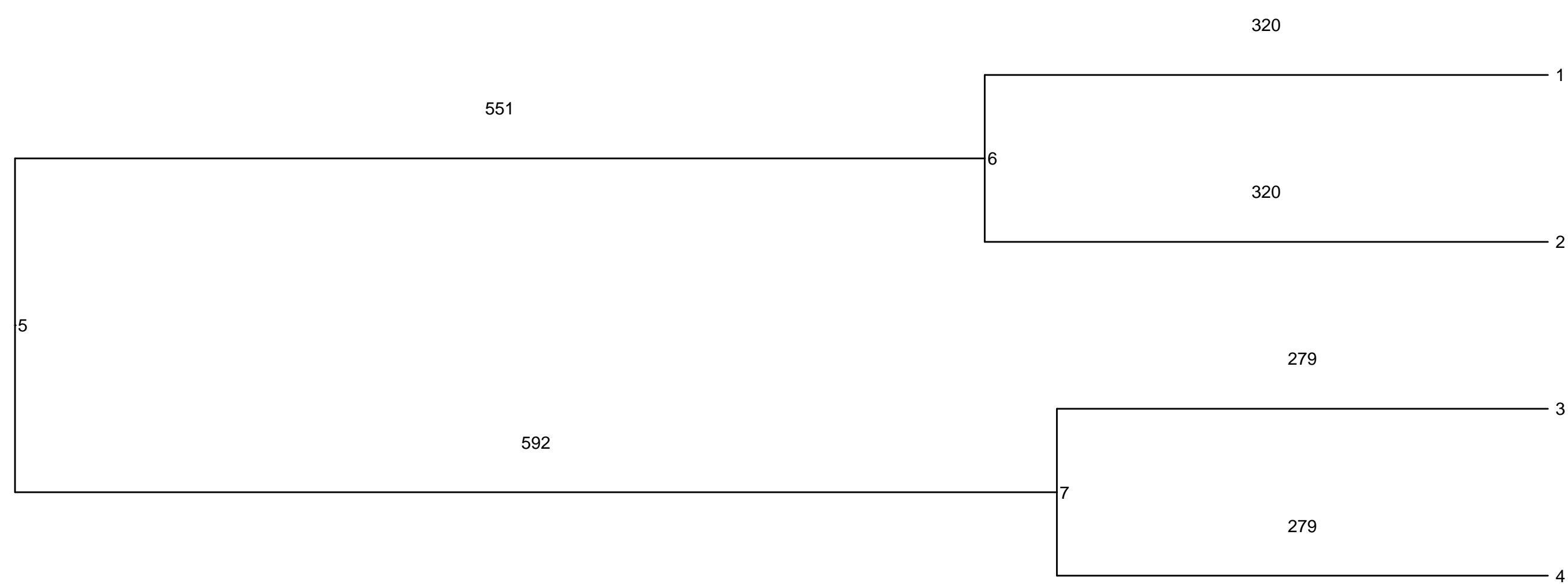
early_P7_OE_171



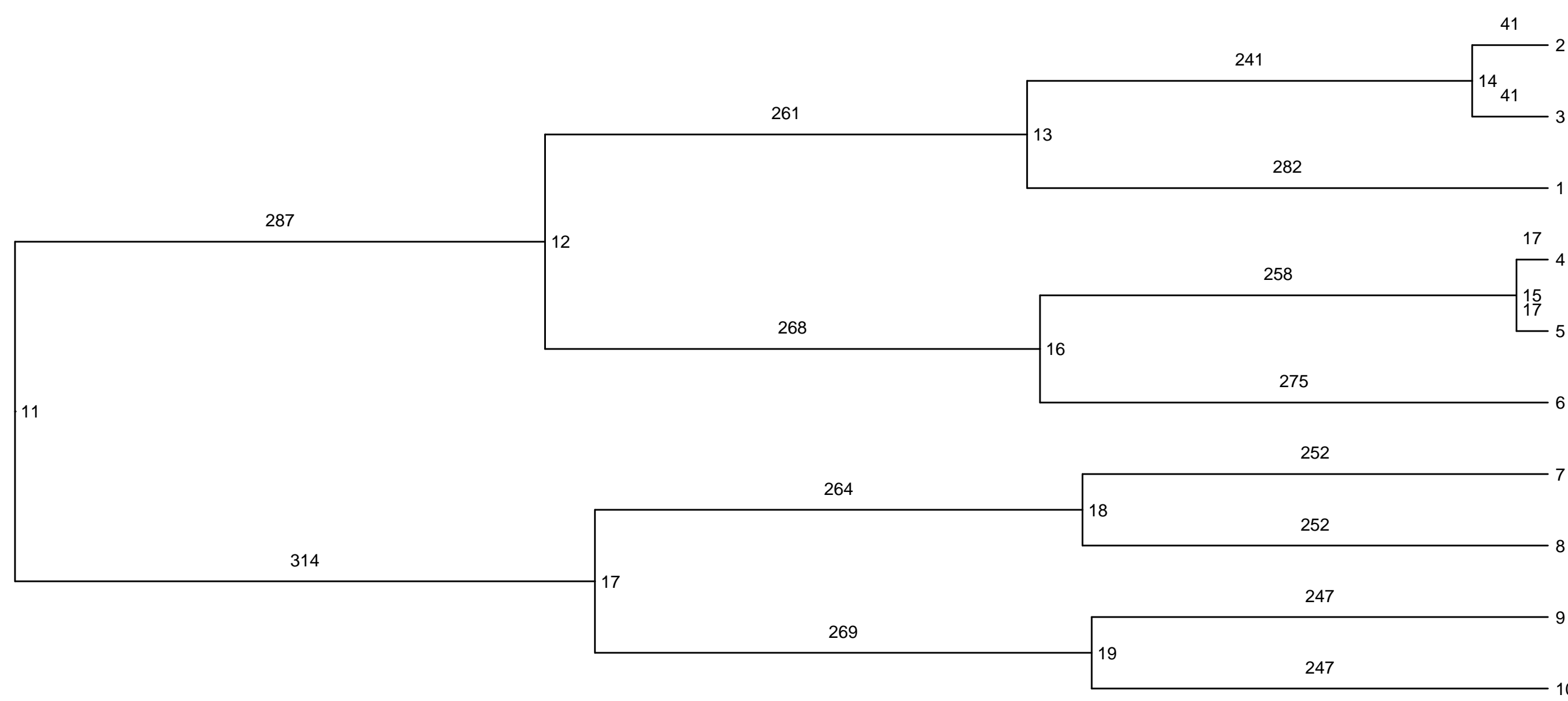
early_P7_OE_195



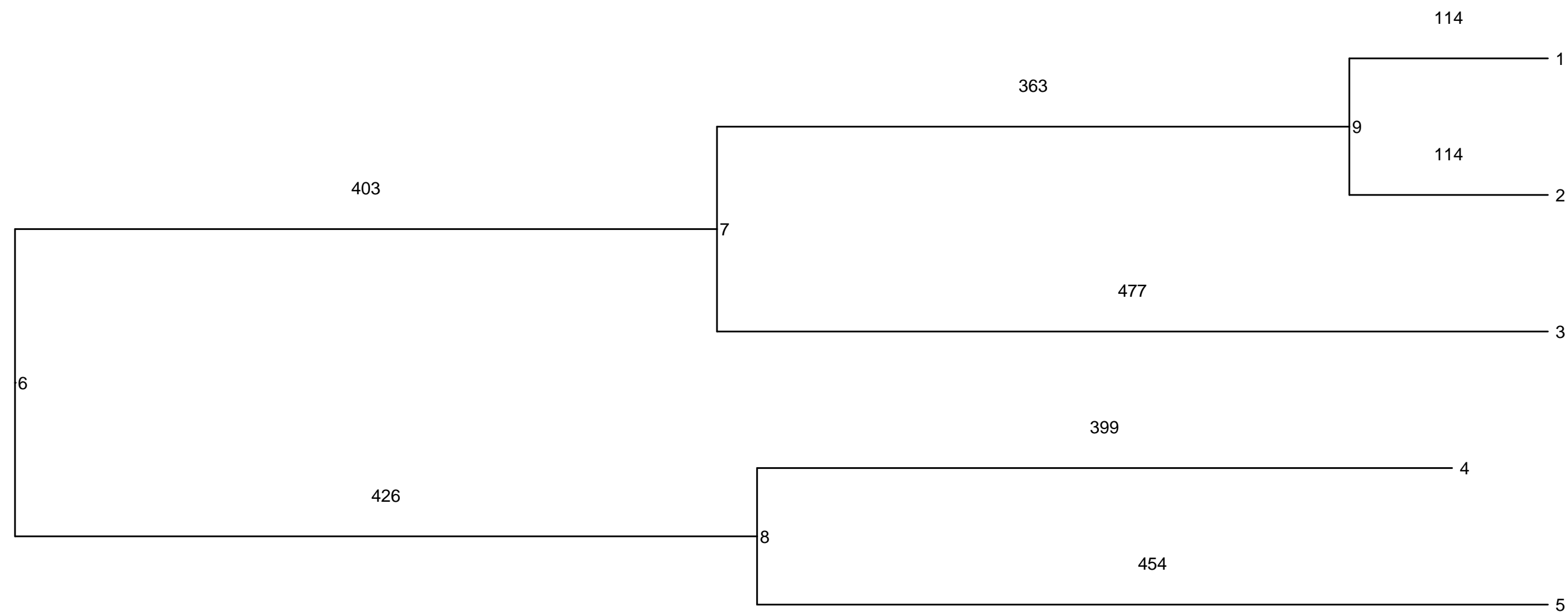
early_P7_OE_231



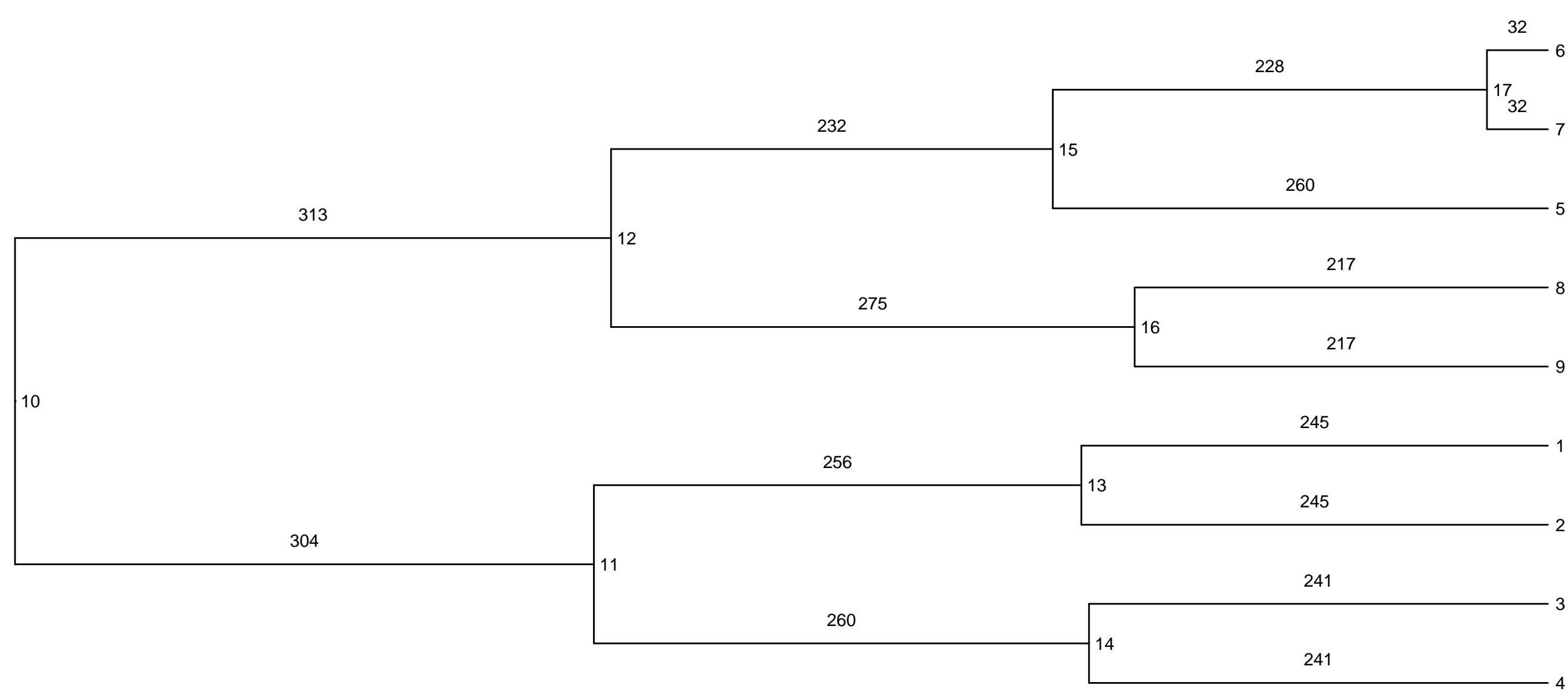
early_P7_OE_268



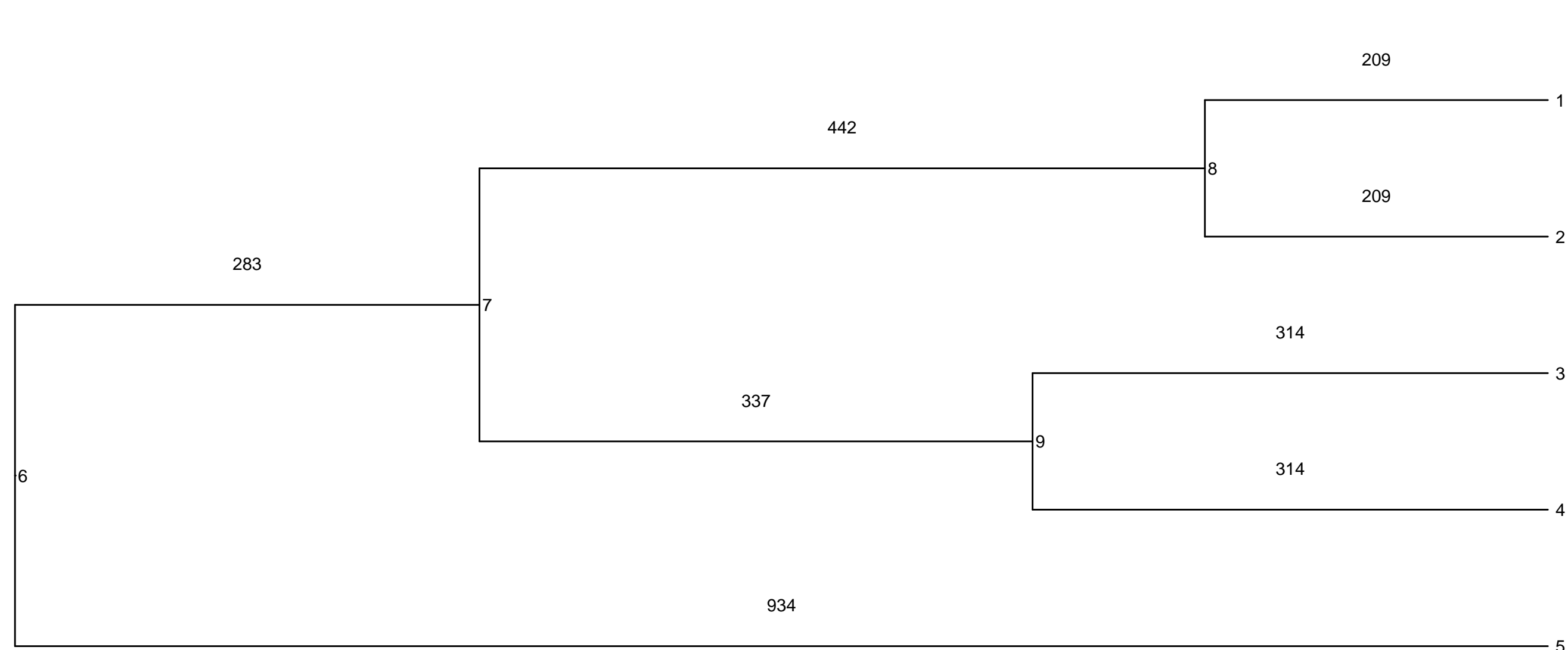
early_P7_OE_305



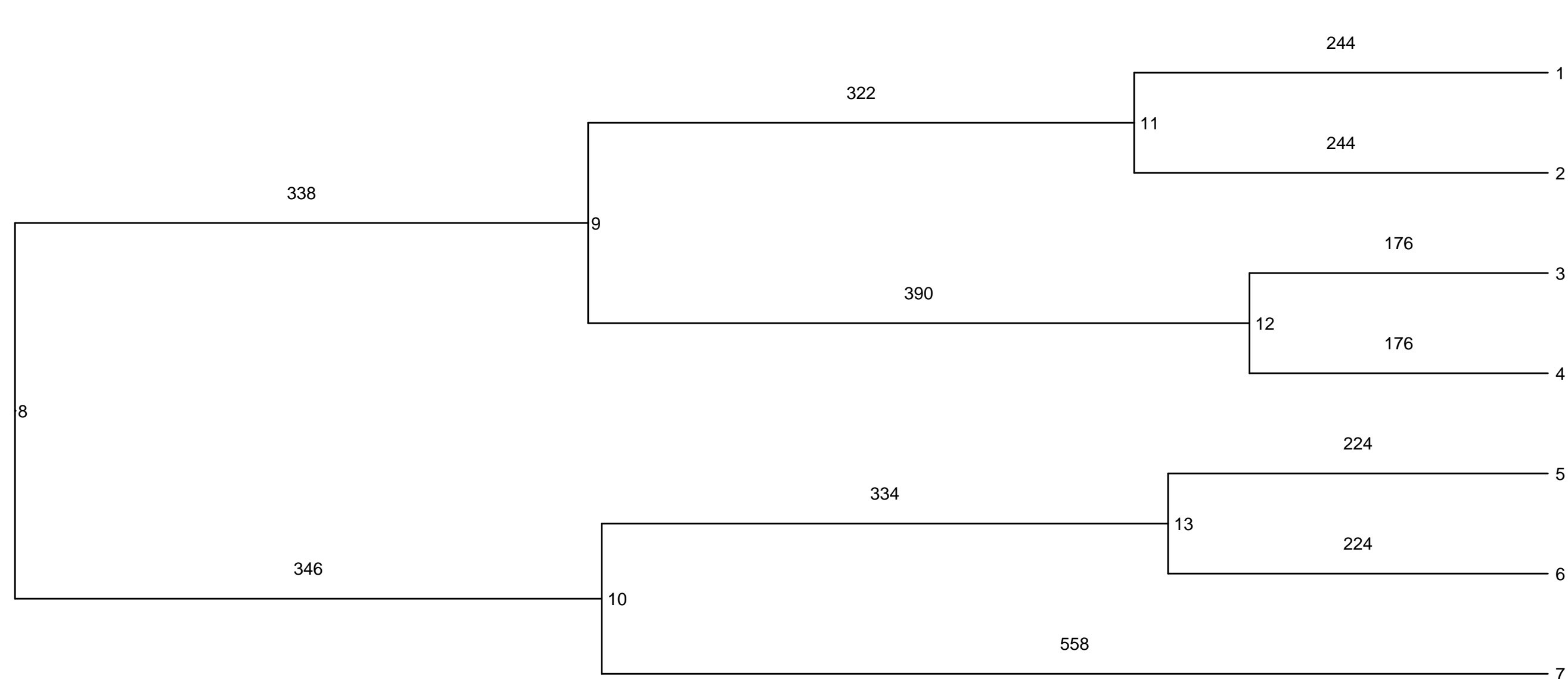
early_P7_OE_33



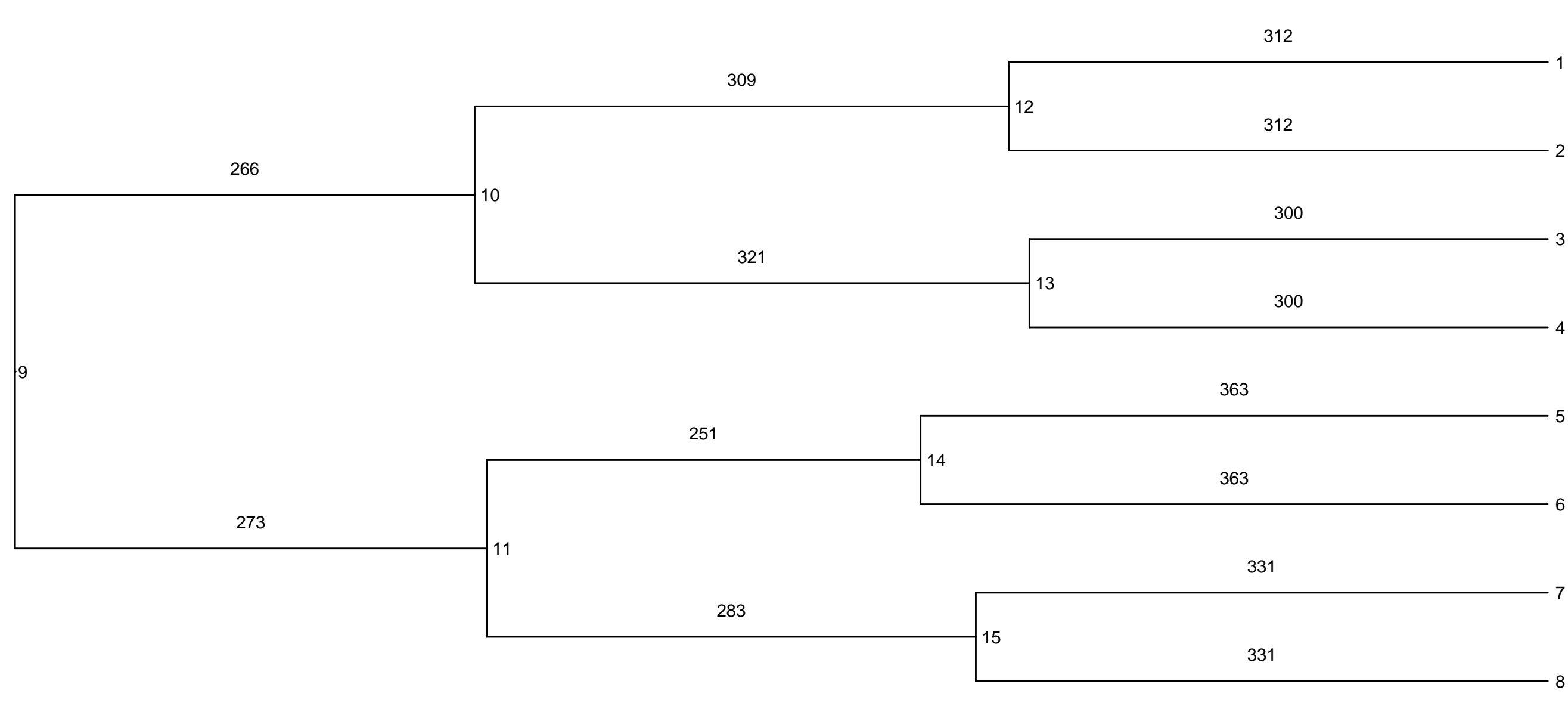
early_P7_OE_69



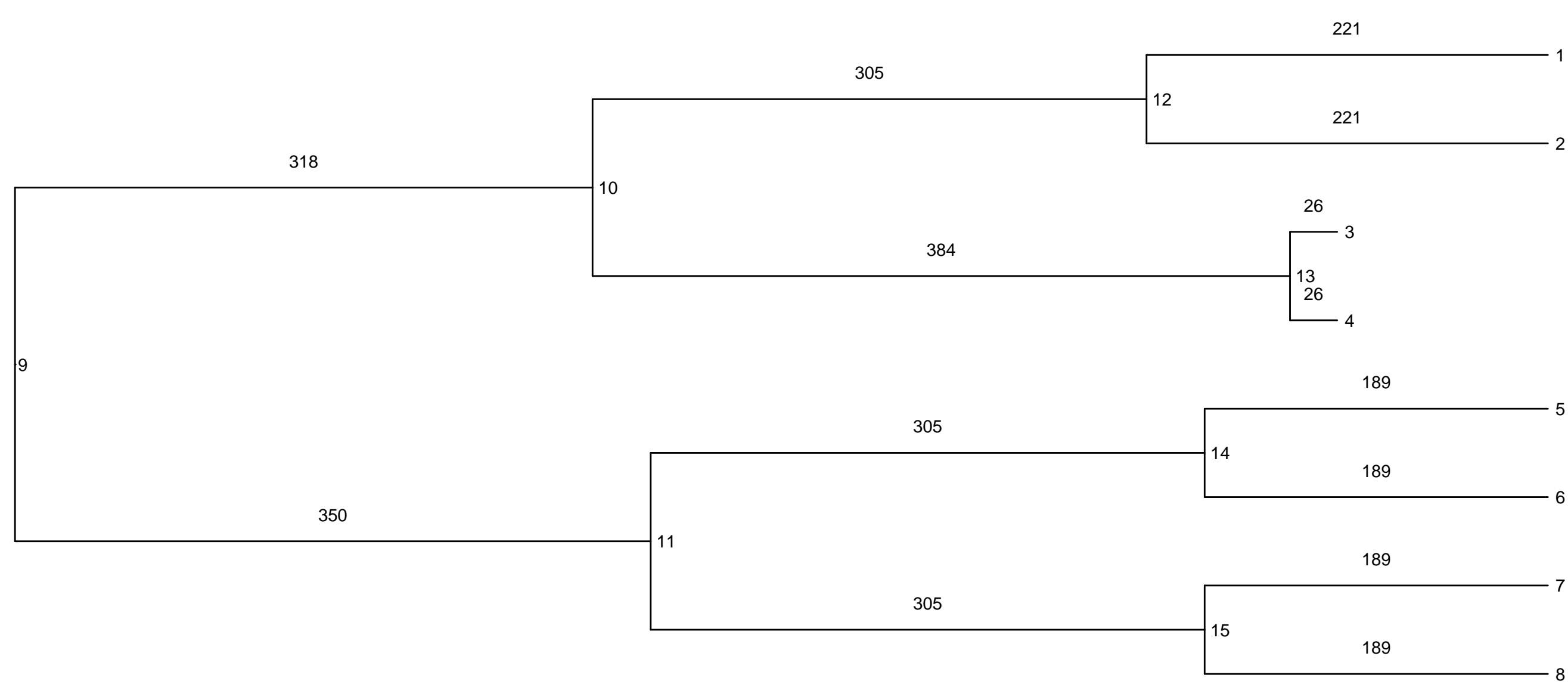
early_P8_OE_10



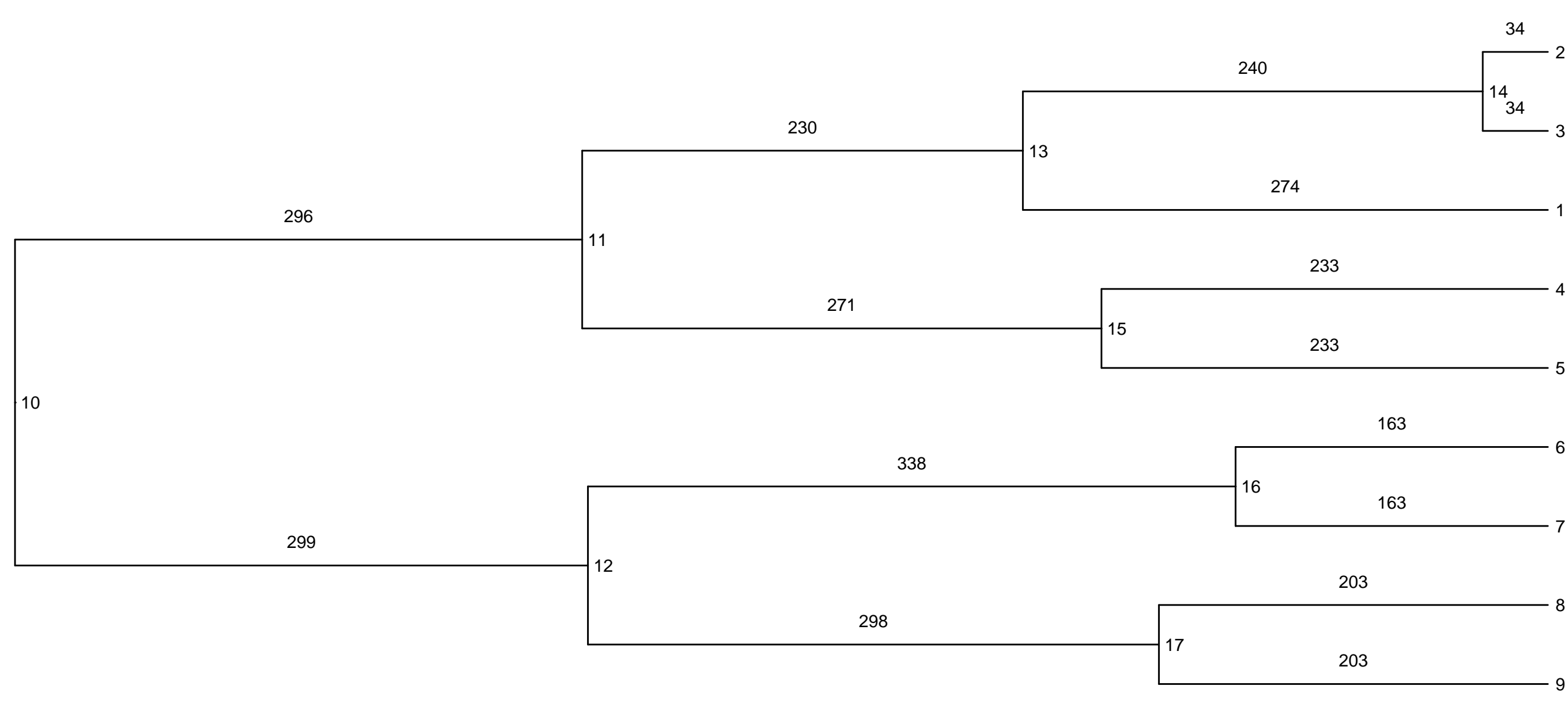
early_P7_OE_217



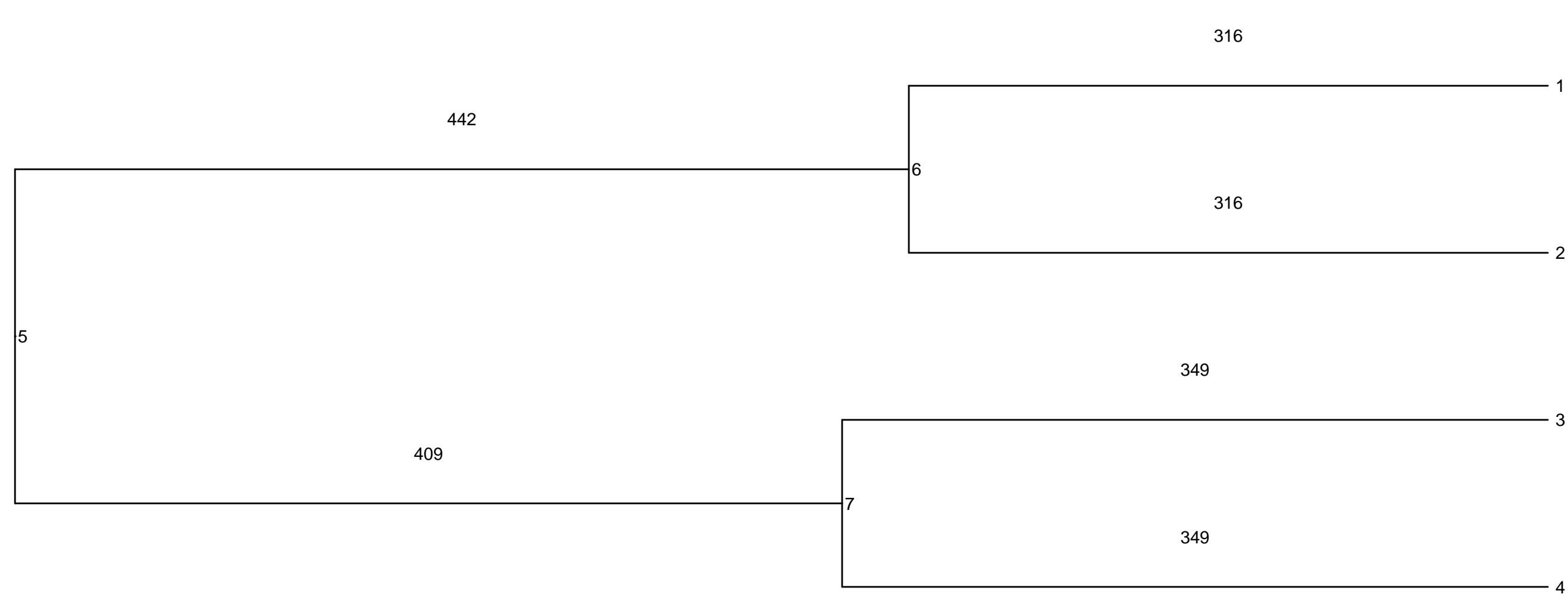
early_P7_OE_245



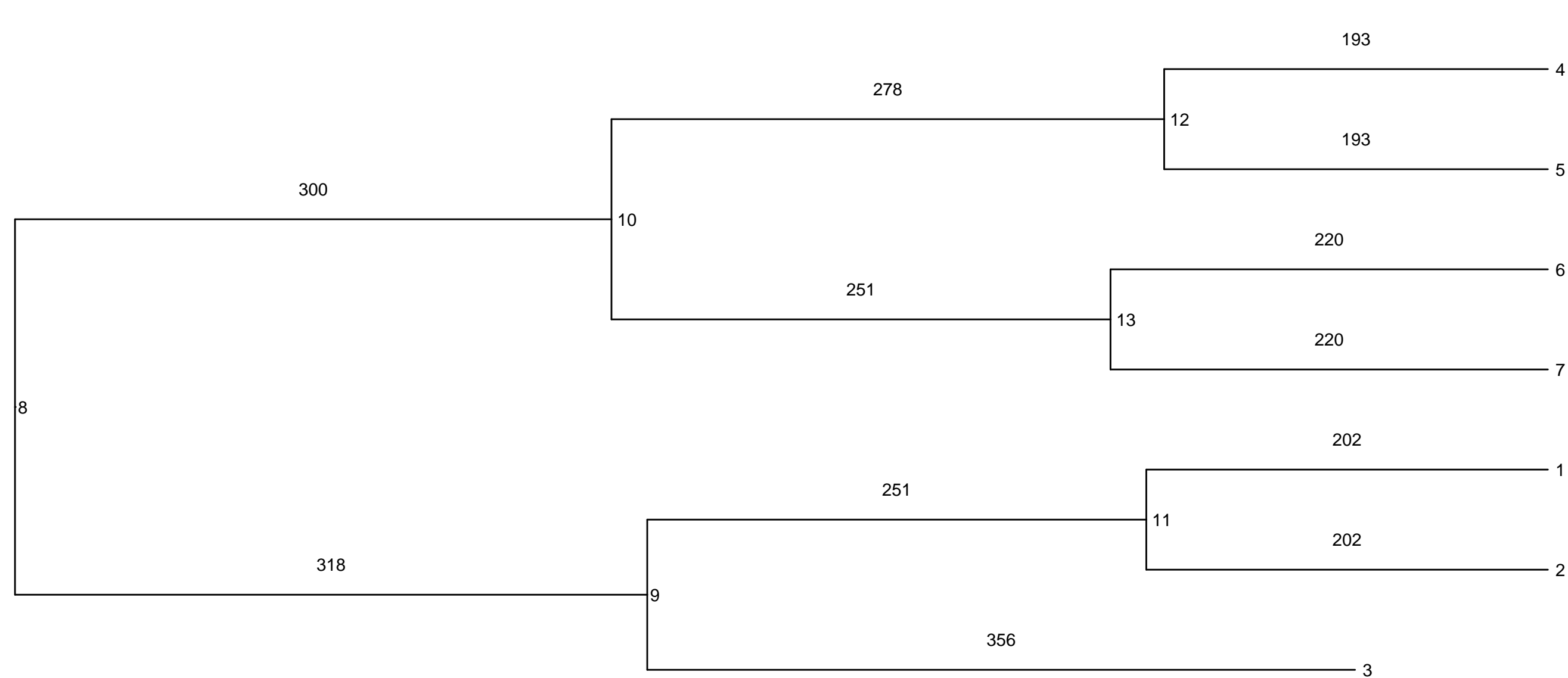
early_P7_OE_289



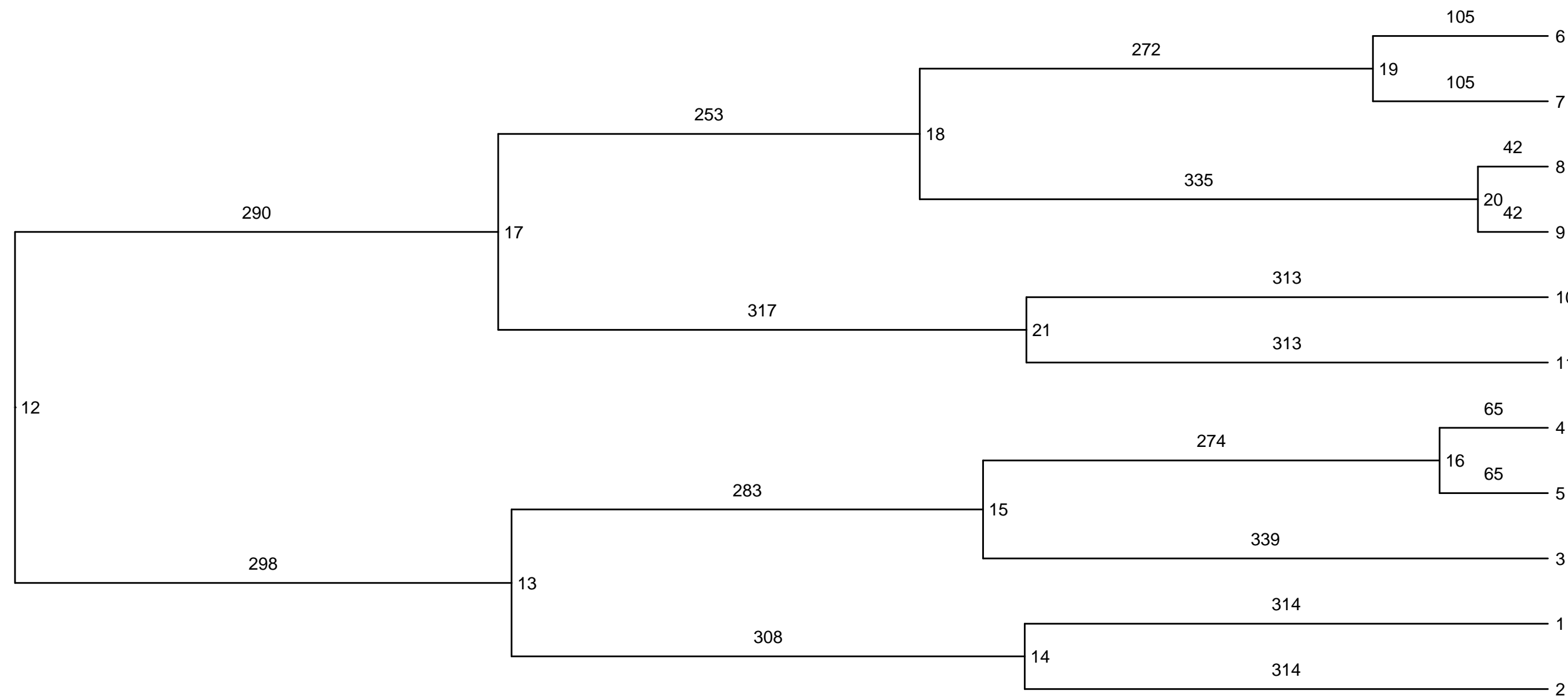
early_P7_OE_315



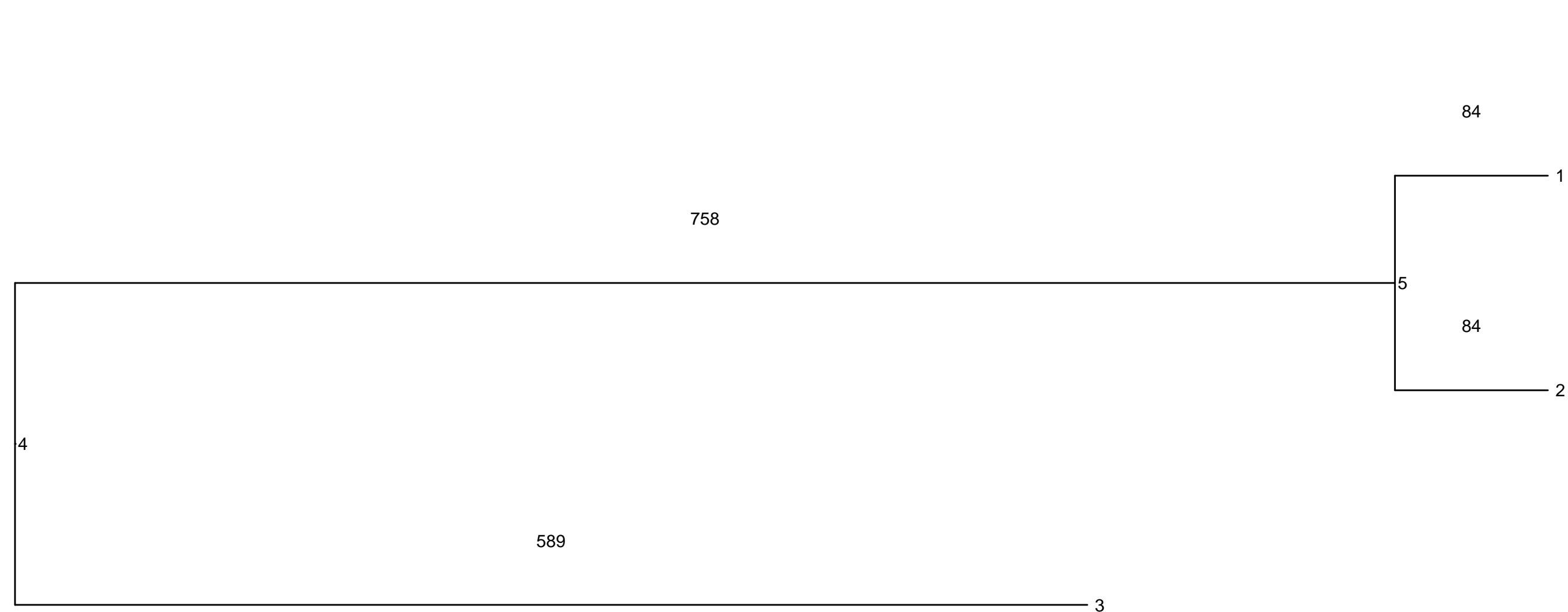
early_P7_OE_51



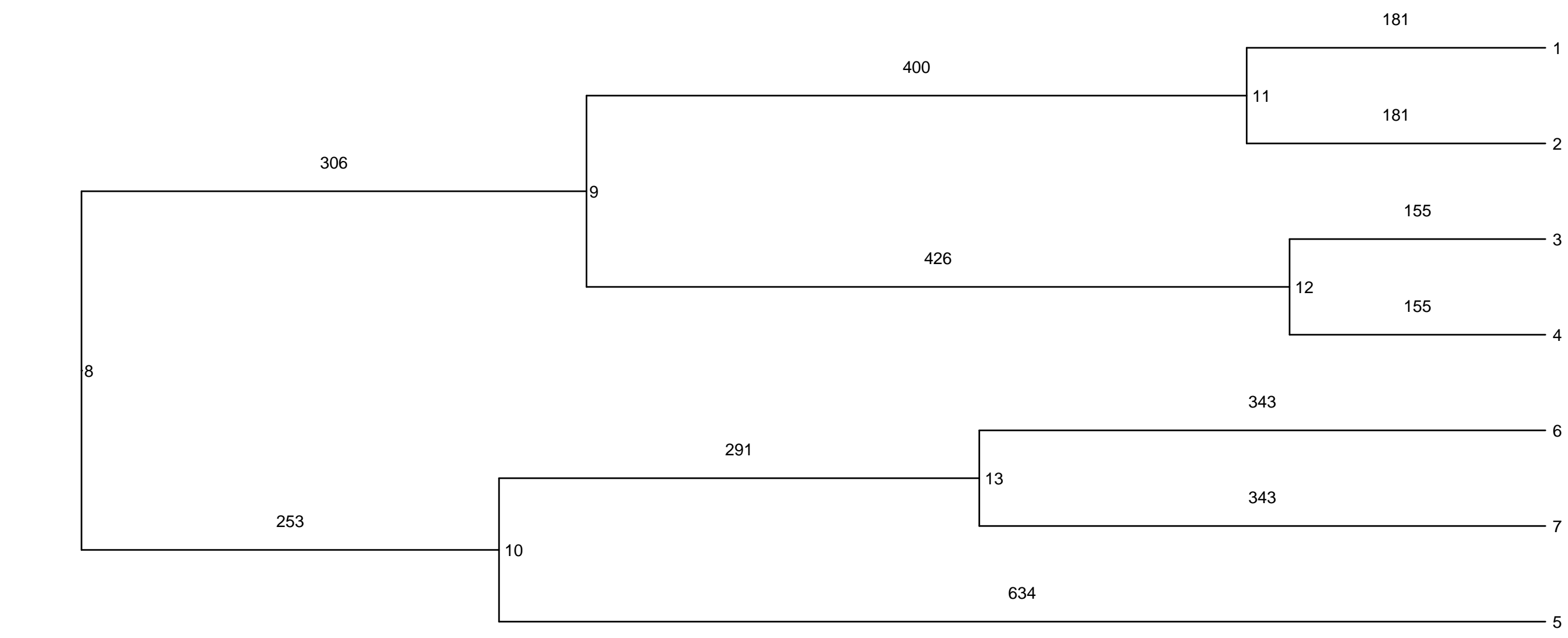
early_P7_OE_84



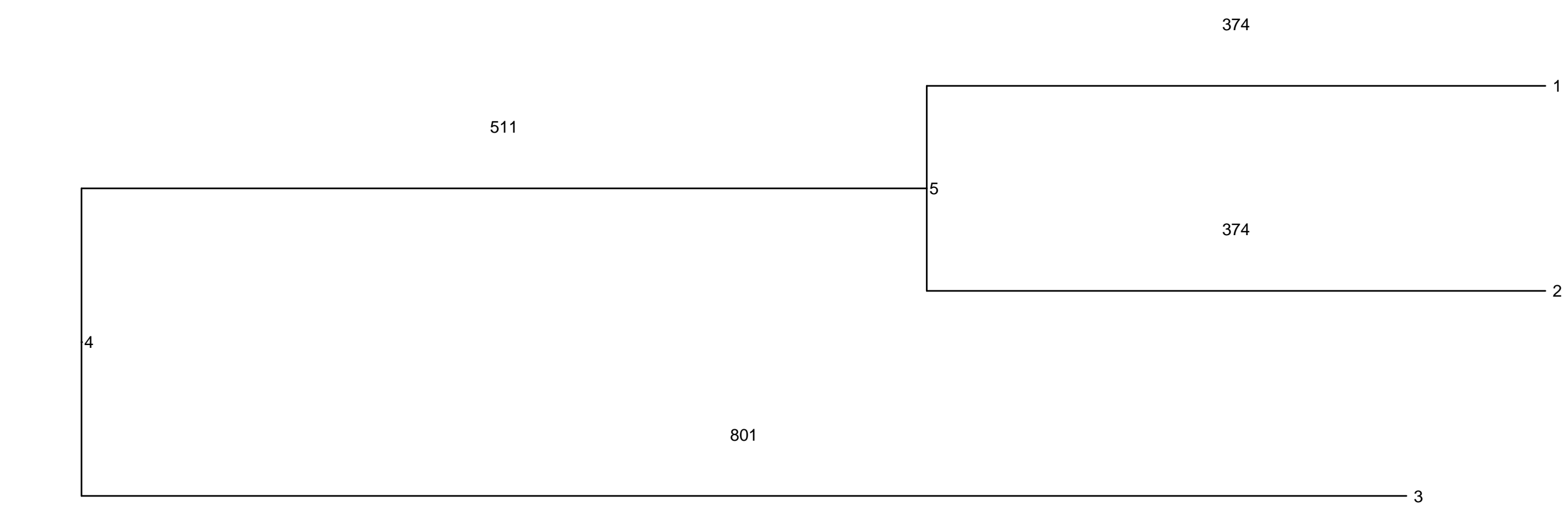
early_P8_OE_115



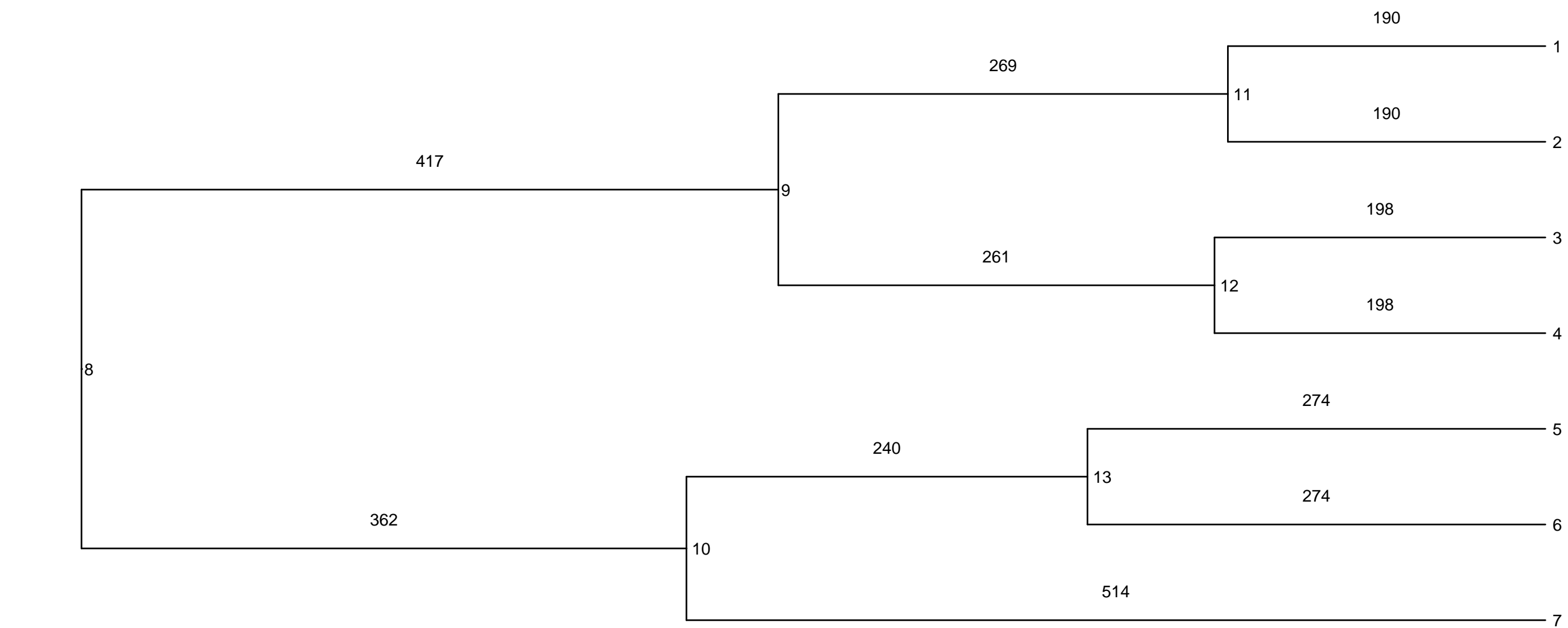
early_P8_OE_128



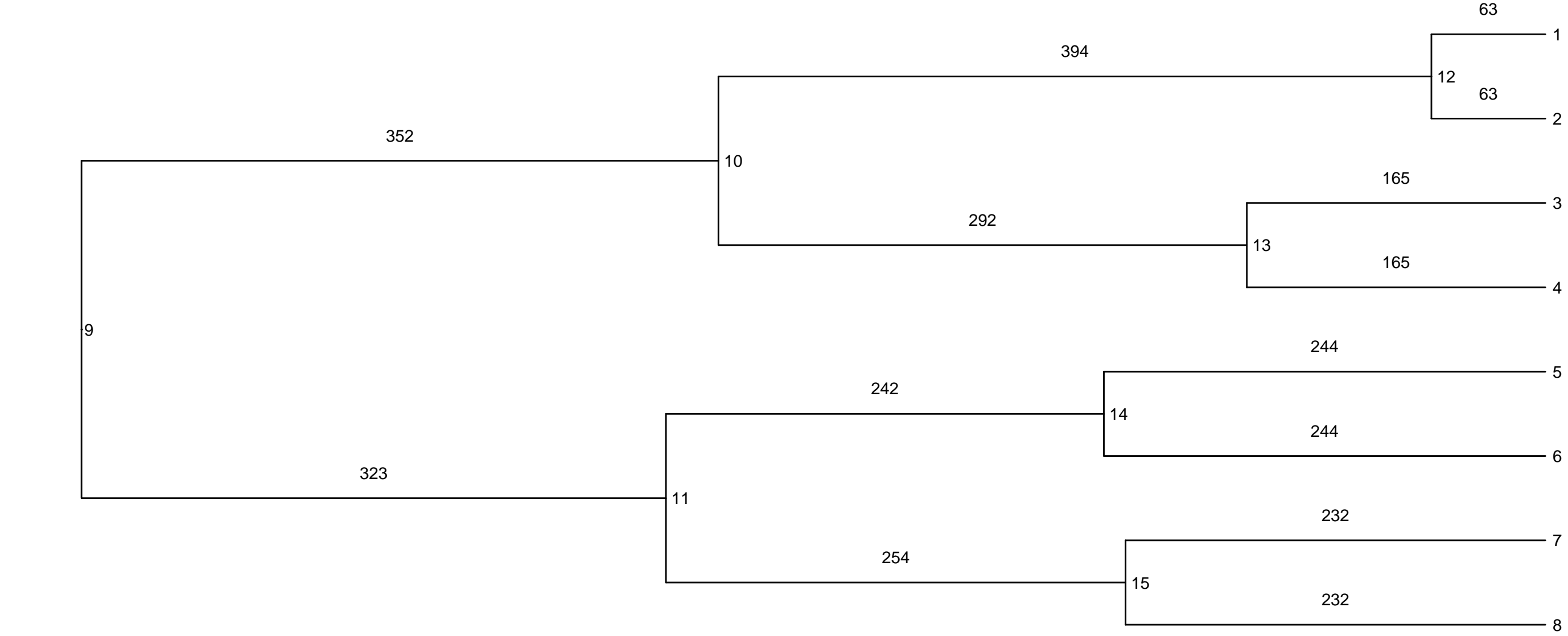
early_P8_OE_160



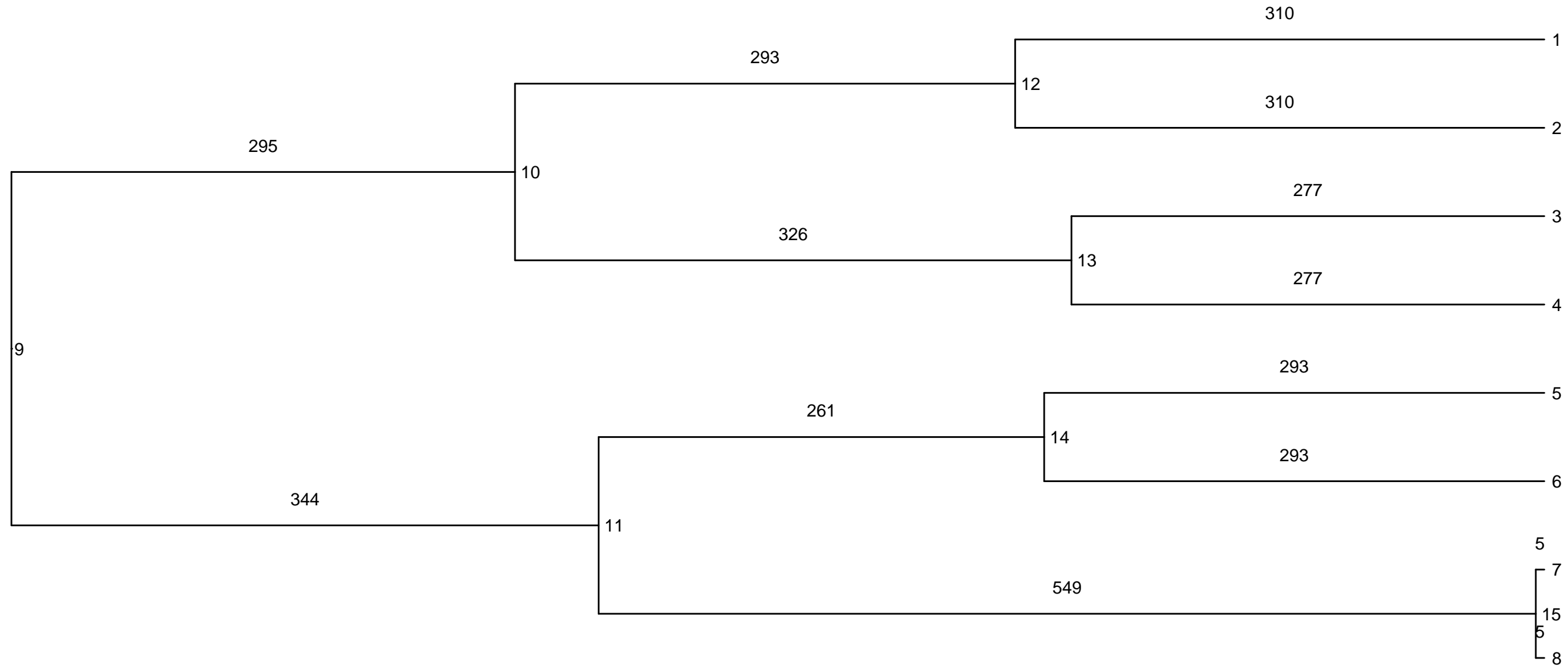
early_P8_OE_26



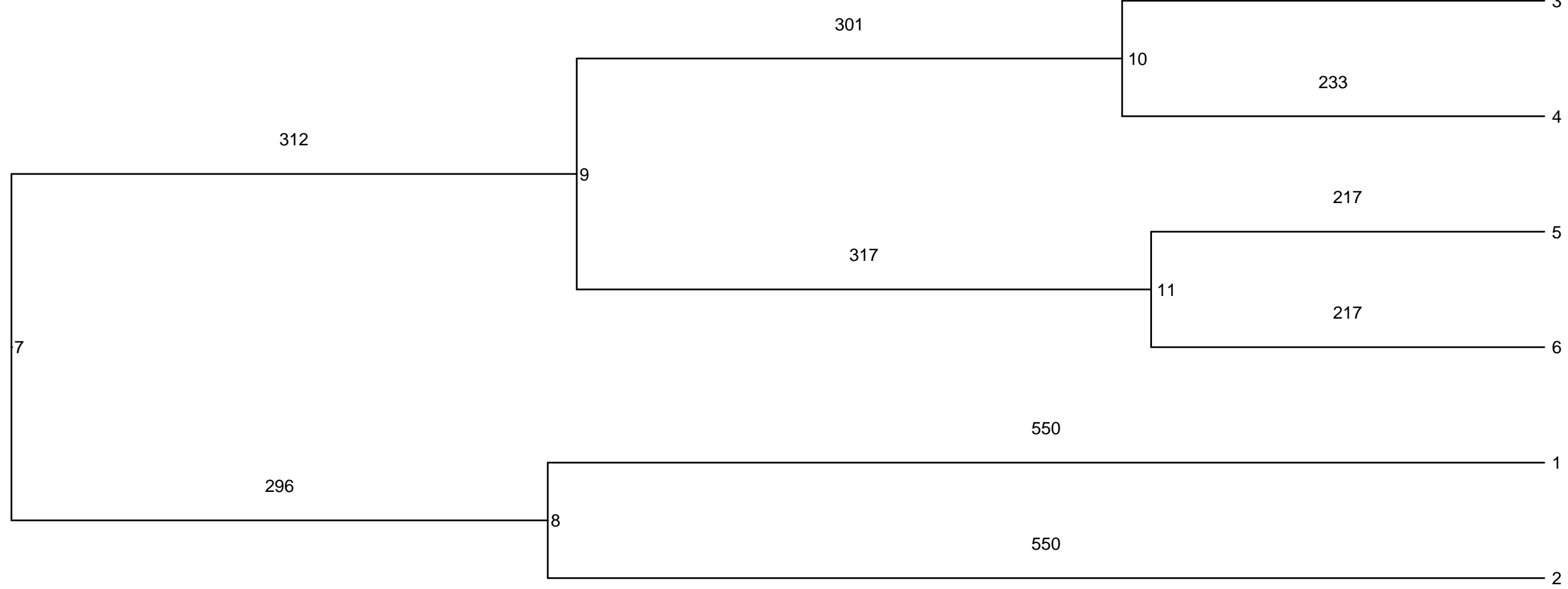
early_P8_OE_74



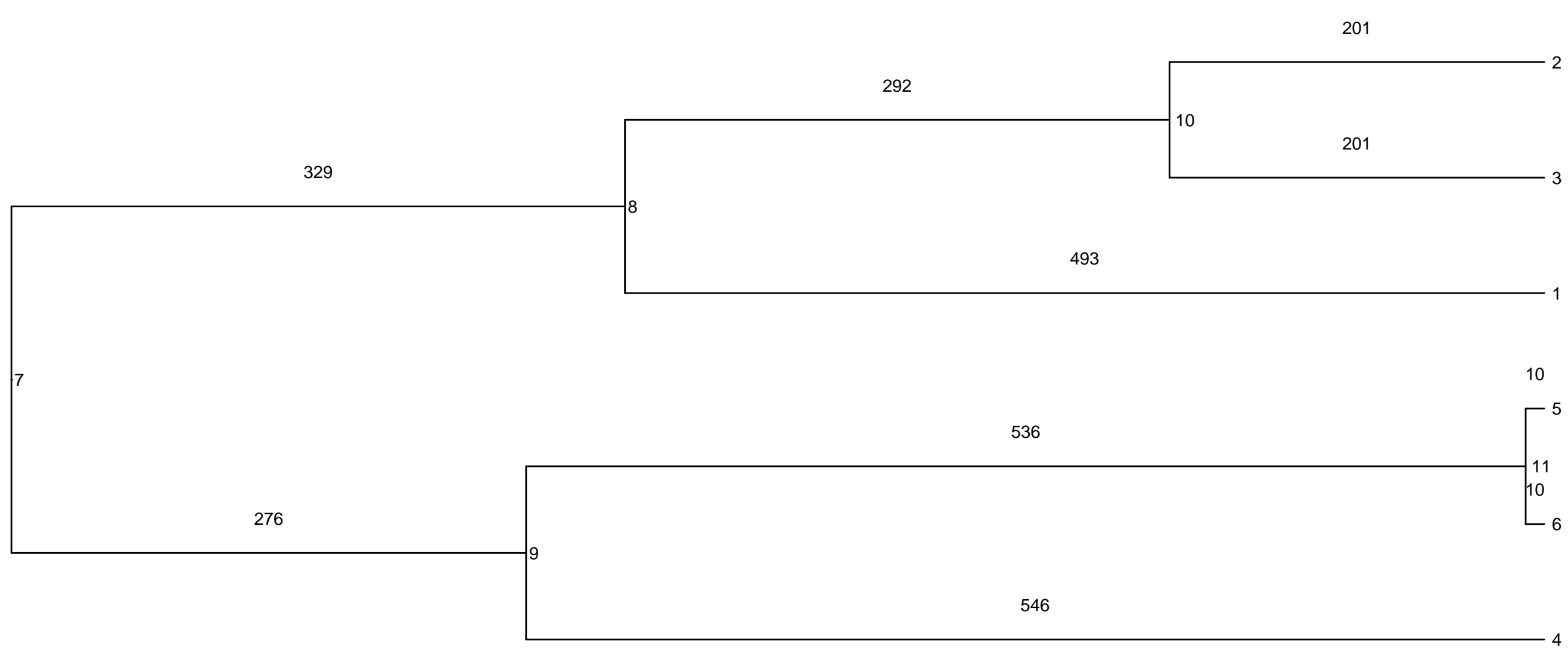
early_P8_OE_145



early_P8_OE_170



early_P8_OE_57



early_P8_OE_94

