

Phylogenetic tree showing relationships between 51 MCs (MC36 to MC51) and an outgroup. Bootstrap values are indicated by colored vertical bars next to the branches. The scale bar at the bottom is 0.06.

MC36
MC46
MC39
MC27
MC28 | 100
MC29
MC31 | 22
MC32
MC41
MC47 | 99
MC56
MC53 | 96
MC37
MC60
MC52
MC26 | 10
MC25
MC43
MC49
MC44
MC24
MC23 | 100
MC42
MC14
MC59 | 100
MC55
MC38
MC45
MC58
MC21
MC20 | 99
MC17
MC48
MC54
MC40
MC51
outgroup
0.06

Phylogenetic tree showing the relationships between 50 MCs (MC14 to MC60) and an outgroup. The tree is rooted at the bottom left with a scale bar of 0.04. The MCs are grouped into several clusters with bootstrap values indicated by colored vertical bars: 92 (green), 100 (black), 100 (yellow), 100 (orange), 44 (purple), 100 (red), and 100 (blue). The MCs are labeled on the right side of the tree.

MC56
MC47
MC41
MC27
MC28
MC17
MC21
MC20
MC54
MC26
MC25
MC52
MC53
MC37
MC39
MC31
MC32
MC29
MC36
MC44
MC43
MC24
MC23
MC45
MC58
MC42
MC51
MC49
MC60
MC59
MC14
MC55
MC48
MC40
MC46
MC38
MC50
outgroup

0.04

A phylogenetic tree showing the relationships between various MC lineages. The tree is rooted at the bottom left with a scale bar of 0.1. The lineages are labeled on the right side of the tree, and bootstrap values are indicated by vertical bars at the nodes. The lineages are grouped into several clusters, each with a color-coded label: MC58, MC45, MC14, MC59, MC49, MC21, MC17, MC20, MC29, MC31, MC32, MC48, MC36, MC52, MC25, MC26, MC50, MC24, MC23, MC46, MC28, MC27, MC42, MC51, MC38, MC41, MC56, MC47, MC37, MC53, MC40, MC60, MC54, MC39, MC55, MC44, and MC43. The bootstrap values are: 10 (MC58/MC45), 10 (MC14/MC59), 10 (MC21/MC17), 100 (MC29/MC31), 100 (MC32/MC48), 100 (MC52/MC25), 100 (MC24/MC23), 63 (MC28/MC27), 10 (MC41/MC56), 10 (MC37/MC53), and 10 (MC40/MC60). The MC43 lineage is the outgroup.

0.1

outgroup

Phylogenetic tree showing the relationships between various MC strains. The tree is rooted with an outgroup. The scale bar indicates a distance of 0.09. Bootstrap values are provided for several nodes, indicating the confidence in the branching order. The strains are labeled as follows:

- MC31
- MC32
- MC29
- MC21
- MC20
- MC17
- MC44
- MC49
- MC58
- MC45
- MC55
- MC14
- MC59
- MC38
- MC43
- MC60
- MC56
- MC47
- MC41
- MC53
- MC37
- MC39
- MC54
- MC42
- MC40
- MC48
- MC28
- MC27
- MC51
- MC36
- MC26
- MC52
- MC25
- MC24
- MC23
- MC46
- MC50

Bootstrap values (indicated by vertical bars and numbers):

- 100 (purple)
- 10 (blue)
- 47 (red)
- 100 (blue)
- 10 (orange)
- 100 (grey)
- 100 (yellow)
- 100 (red)