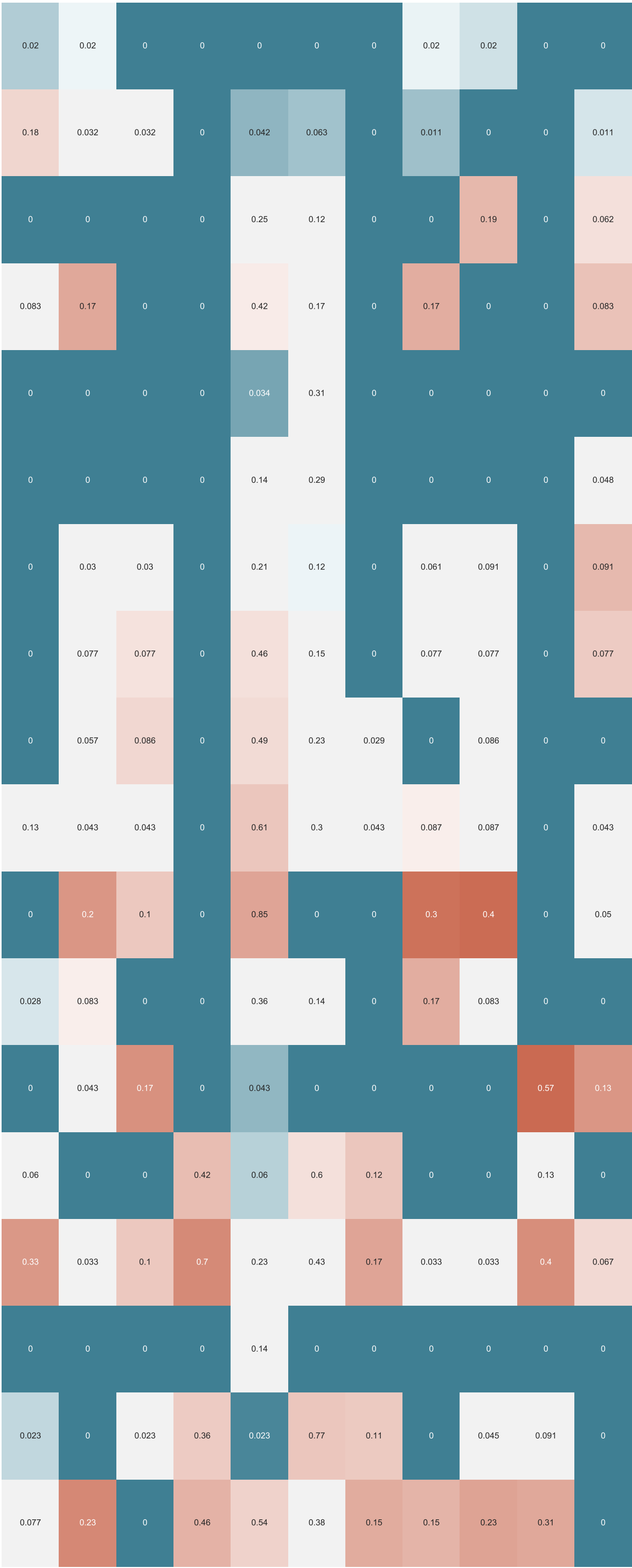


Clade

c1
c2
c3
c5
c6
c7
c8
c9
c10
c11
c12
c13
c14
c15
c16
c17
c18 unassigned
c18 unassigned

A138S
(0.07)
H156Q
(0.04)
H156R
(0.03)
T160K
(0.13)
G186V
(0.2)
L194P
(0.25)
T203I
(0.04)
S219Y
(0.04)
S219F
(0.05)
D225G
(0.07)
N246H
(0.03)
HA1 mutation
(overall frequency in egg-passaged viruses)



log2 enrichment

-3.0
-1.5
0.0
1.5
3.0