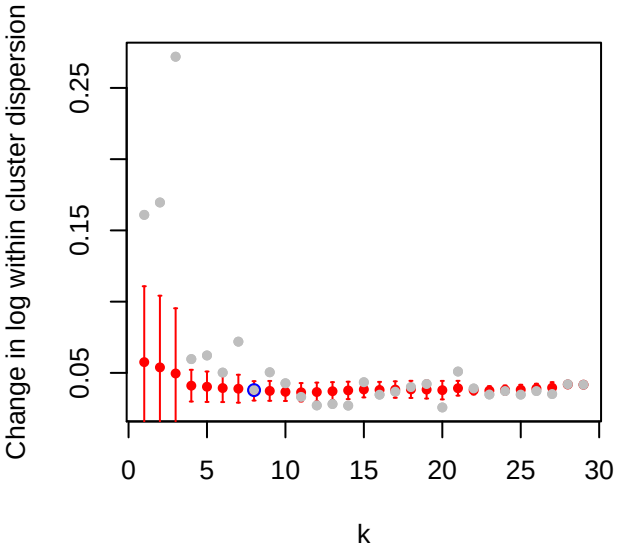
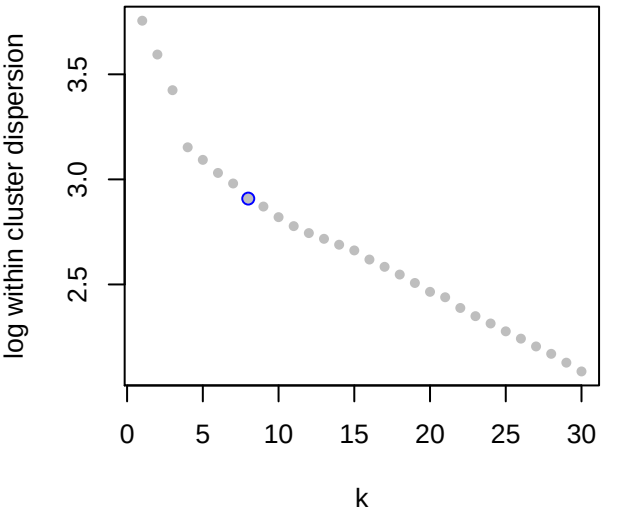
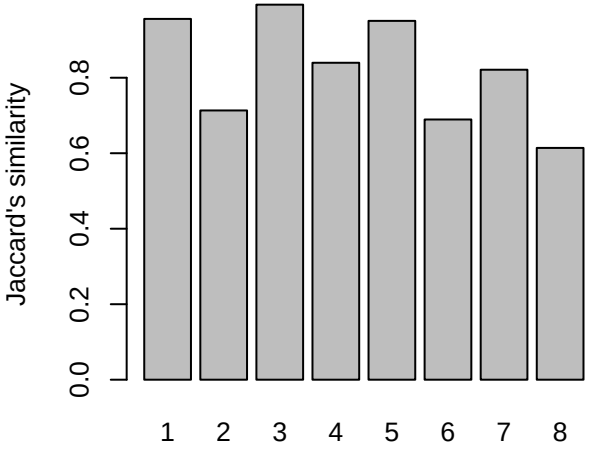
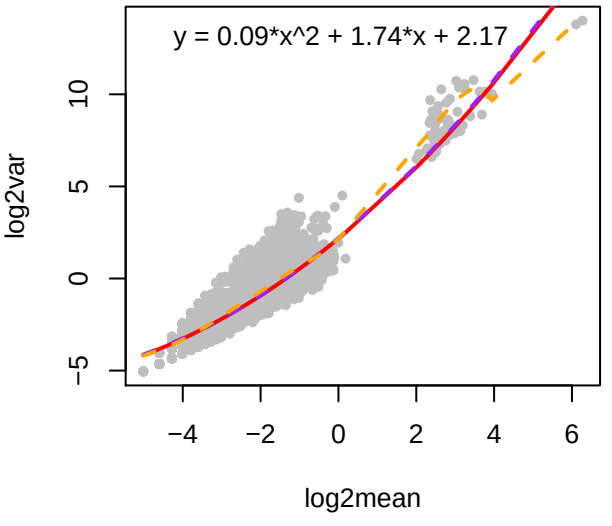
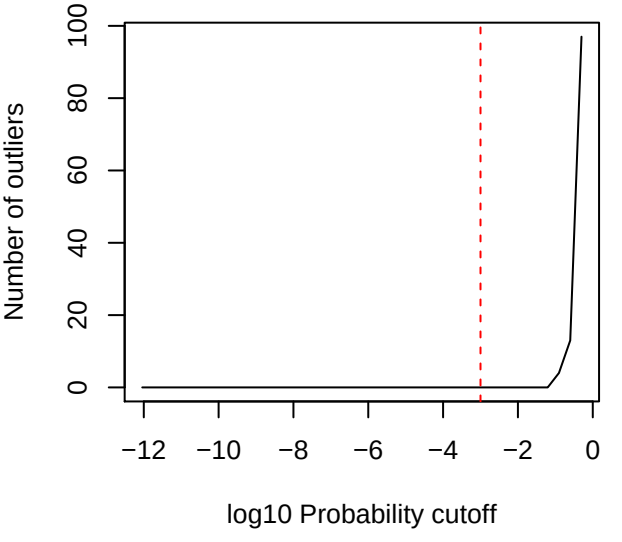
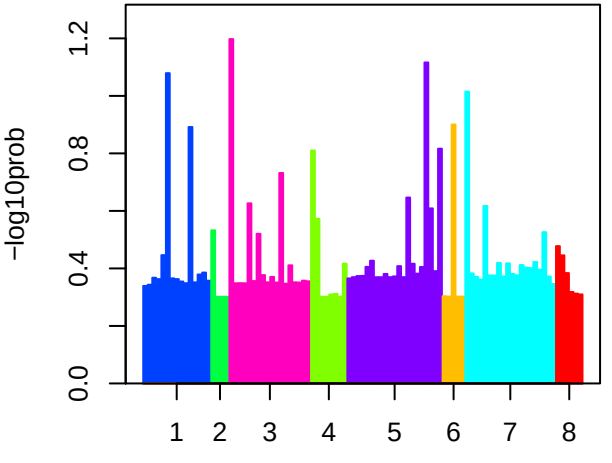

Change in log within cluster dispersion
0.05
0.15
0.25
0
5
10
15
20
25
30
k

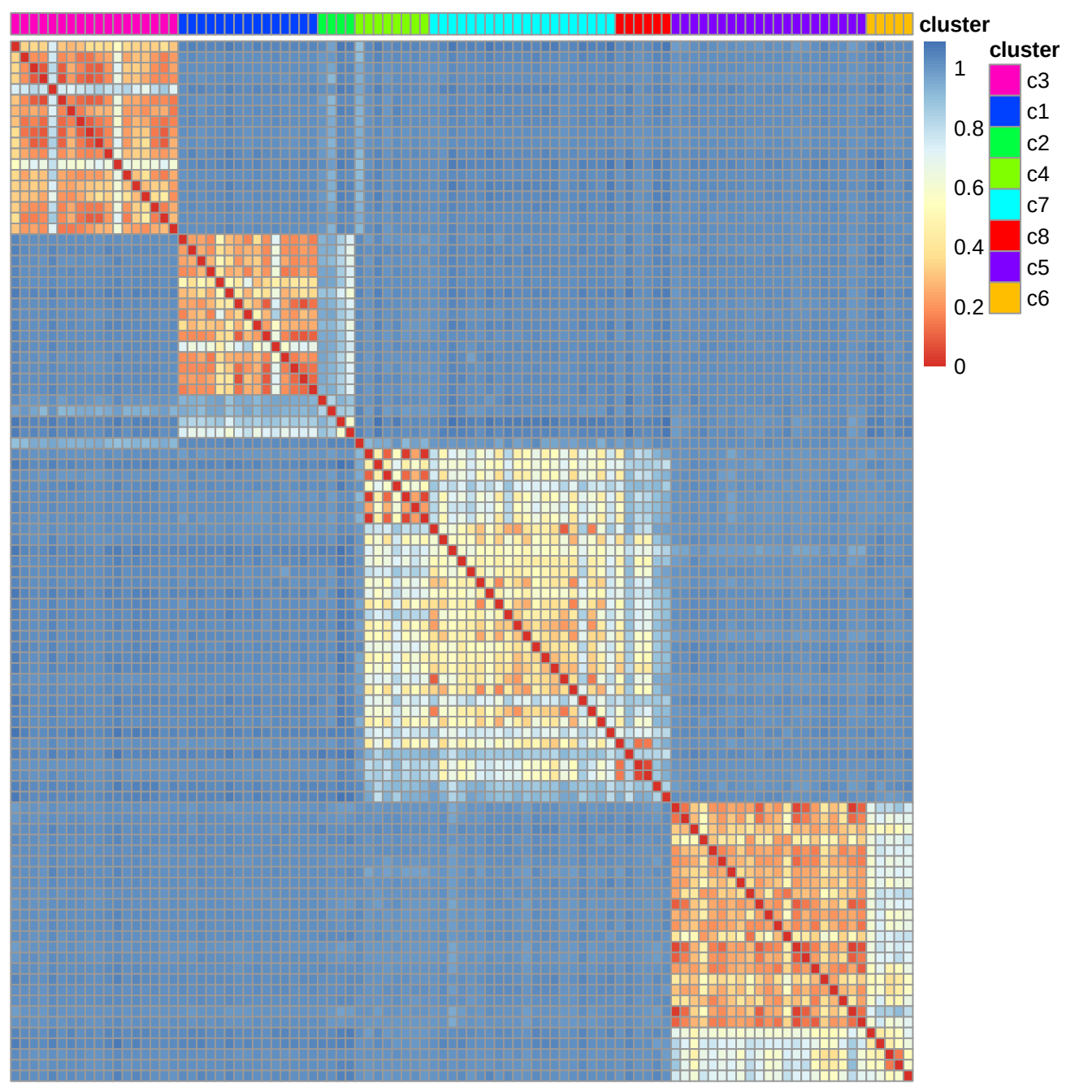

log within cluster dispersion
2.5
3.0
3.5
0
5
10
15
20
25
30
k

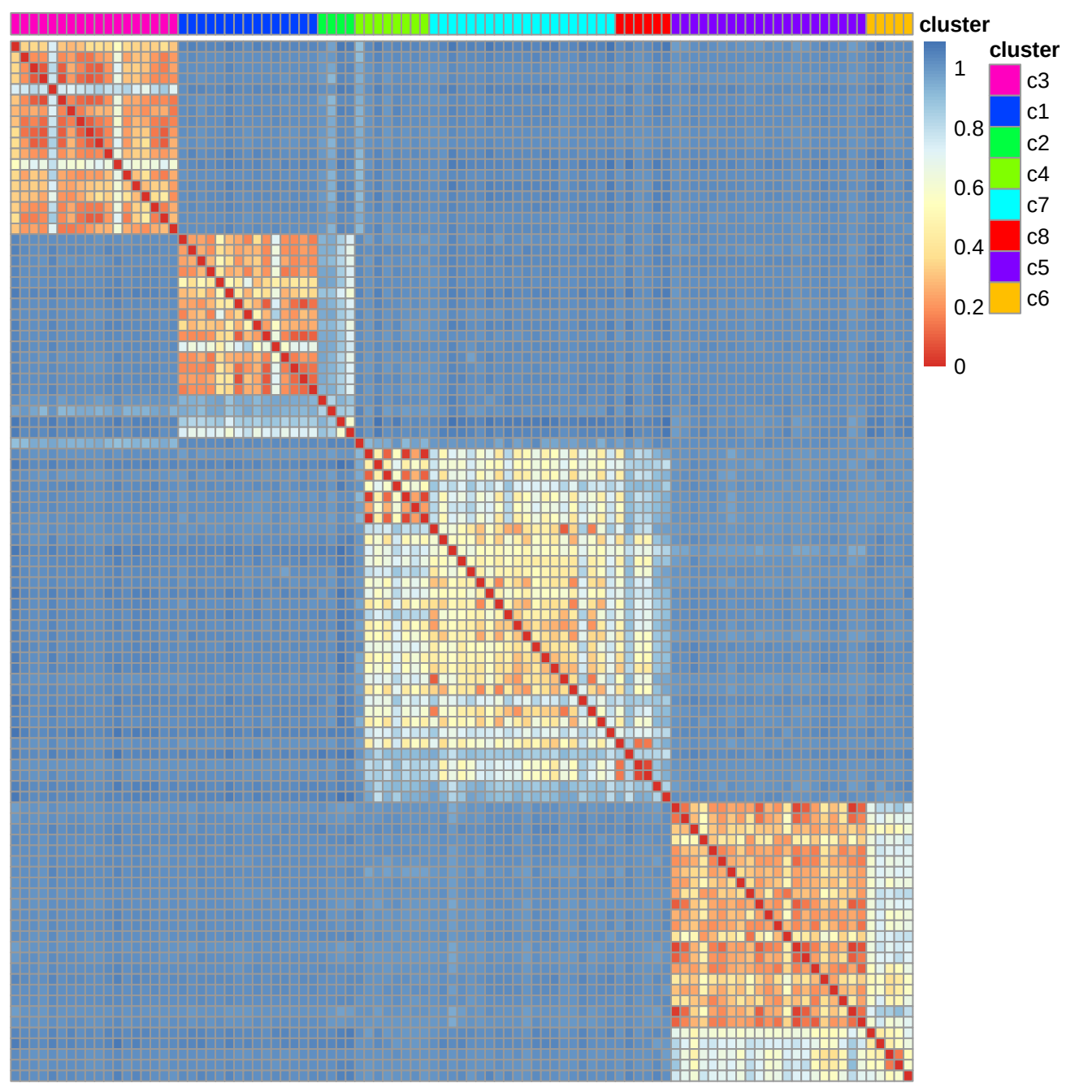

Jaccard's similarity
0.0
0.2
0.4
0.6
0.8
1
2
3
4
5
6
7
8

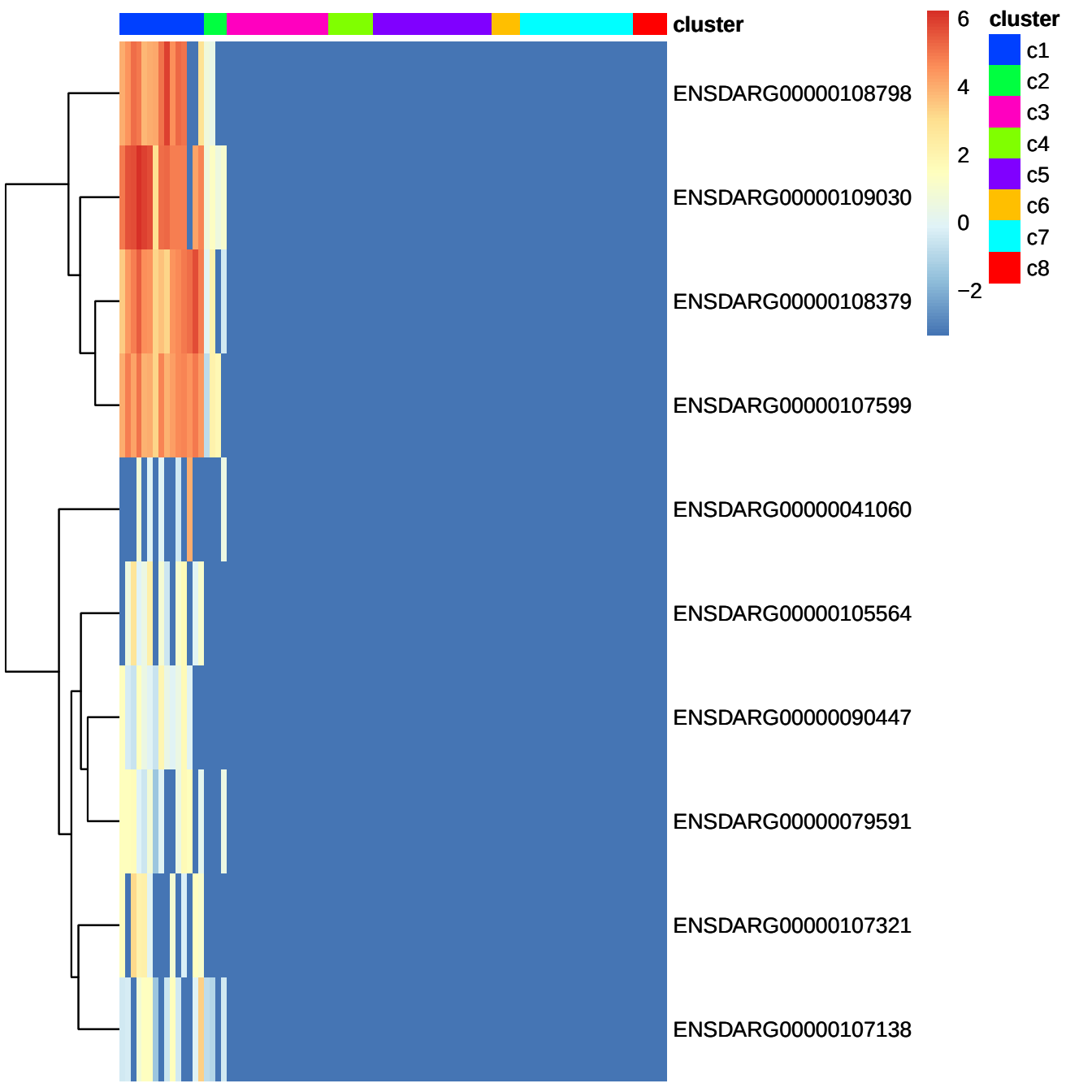

y = 0.09*x^2 + 1.74*x + 2.17
log2var
log2mean
10
5
0
−5
−4
−2
0
2
4
6

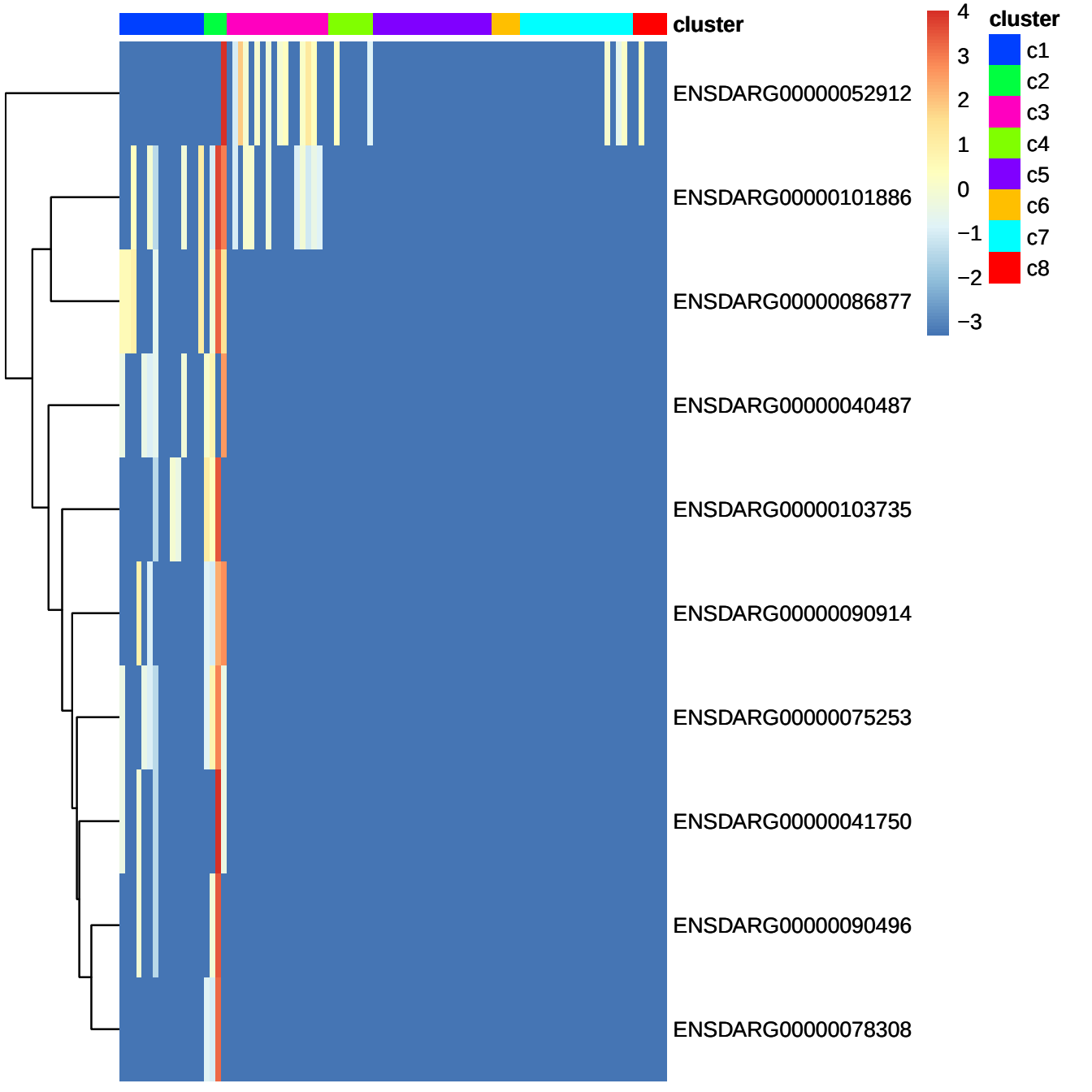

Number of outliers
log10 Probability cutoff
100
80
60
40
20
0
−12
−10
−8
−6
−4
−2
0

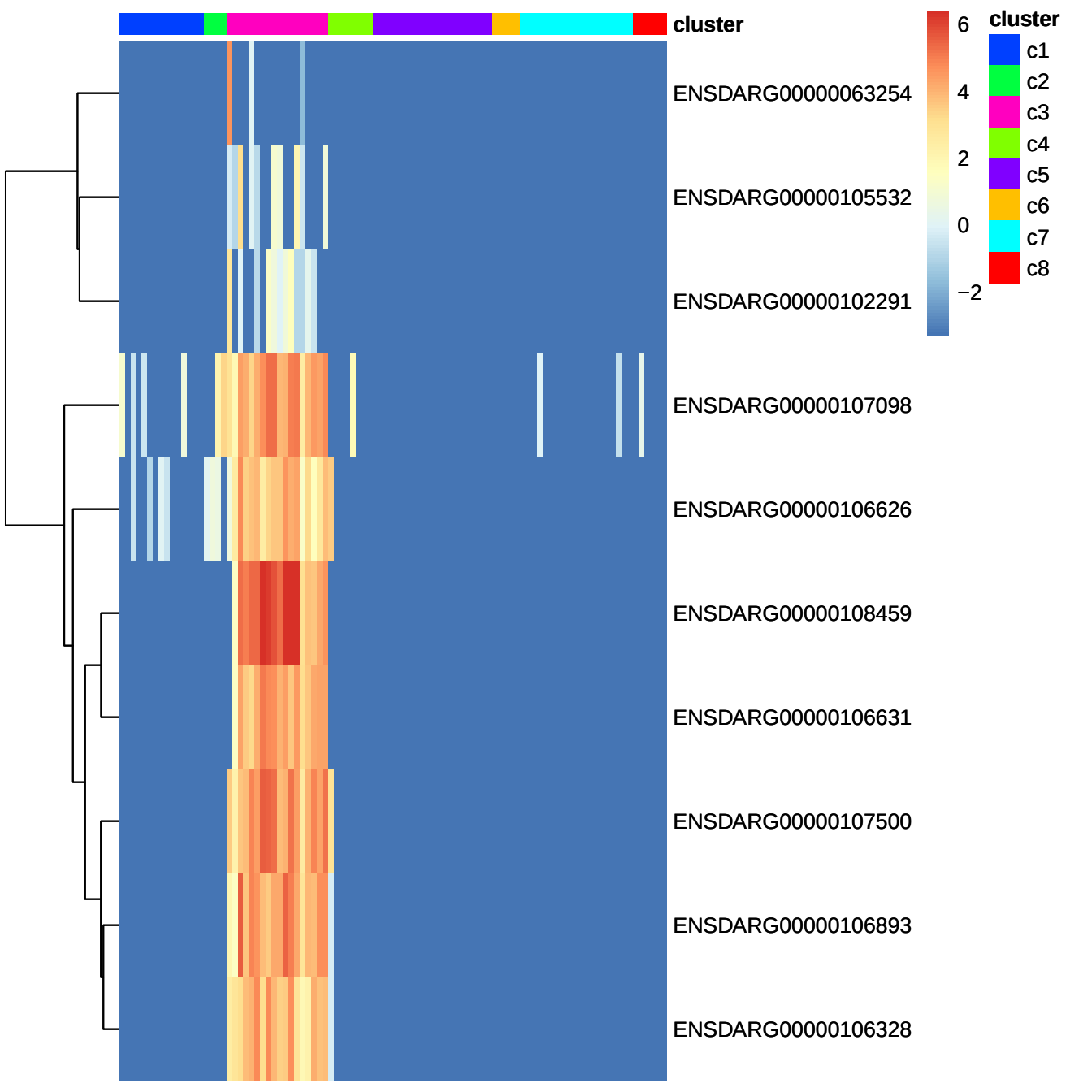

−log10prob
1.2
0.8
0.4
0.0
1
2
3
4
5
6
7
8

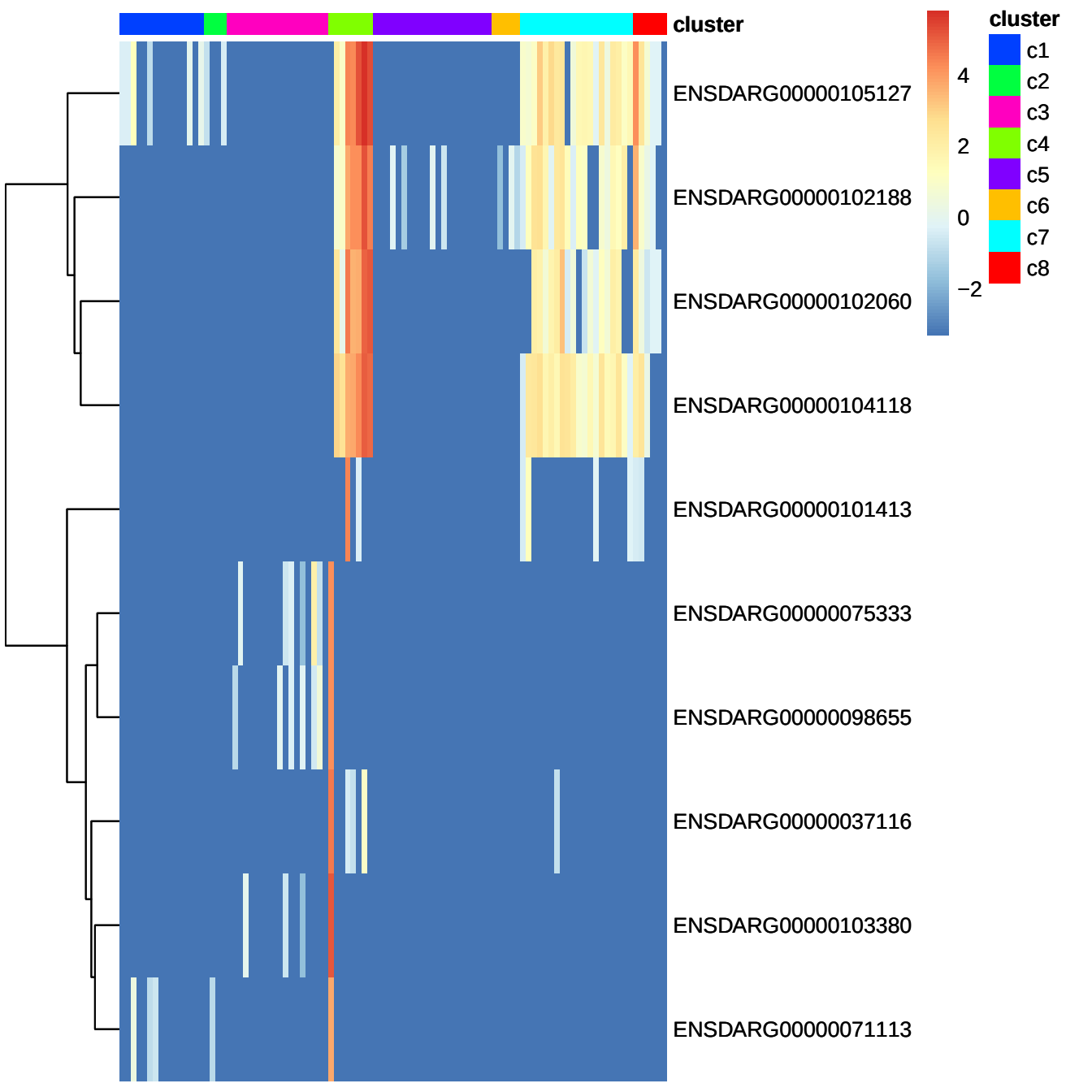

cluster
cluster
1
0.8
0.6
0.4
0.2
0
c3
c1
c2
c4
c7
c8
c5
c6

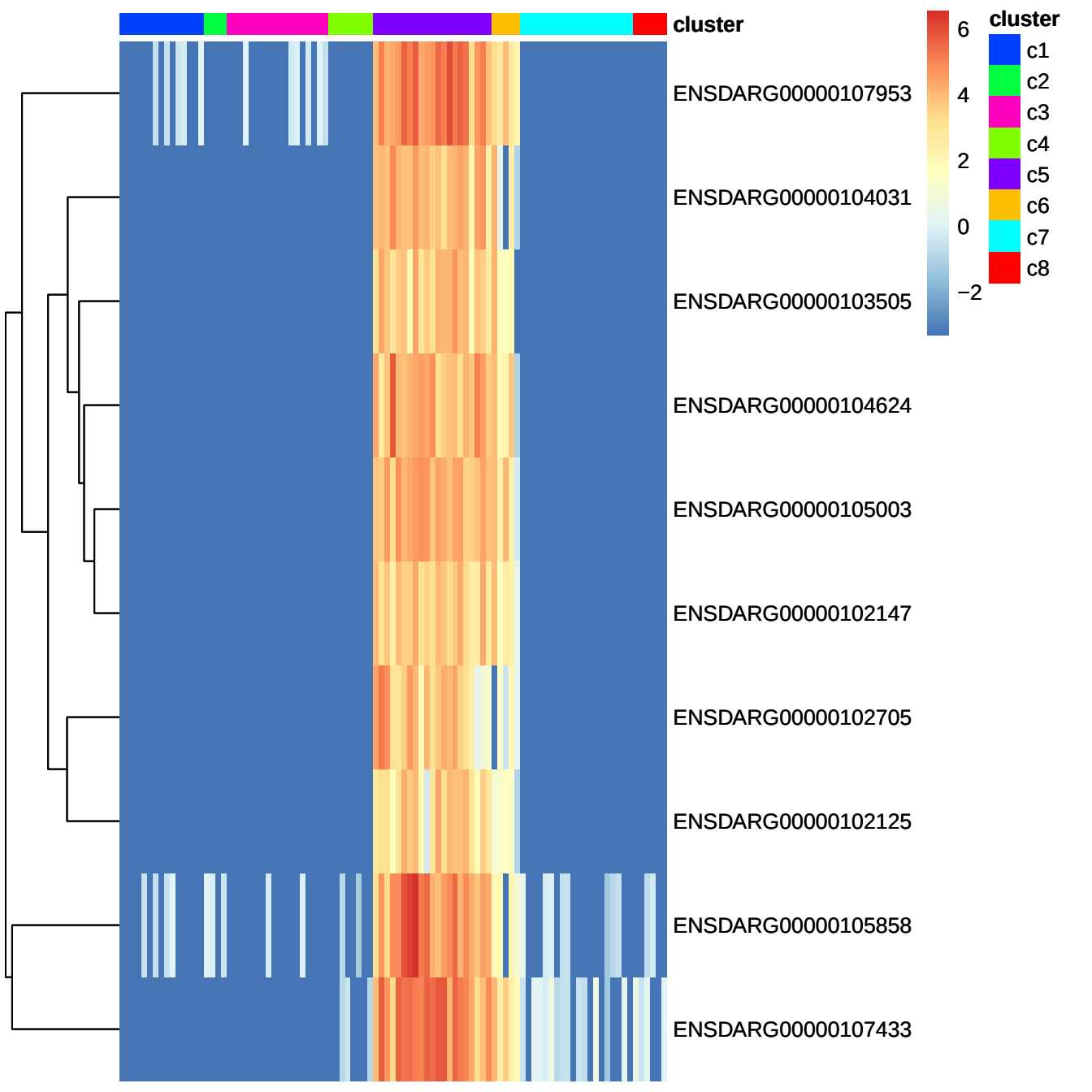

cluster
cluster
1
0.8
0.6
0.4
0.2
0
c3
c1
c2
c4
c7
c8
c5
c6

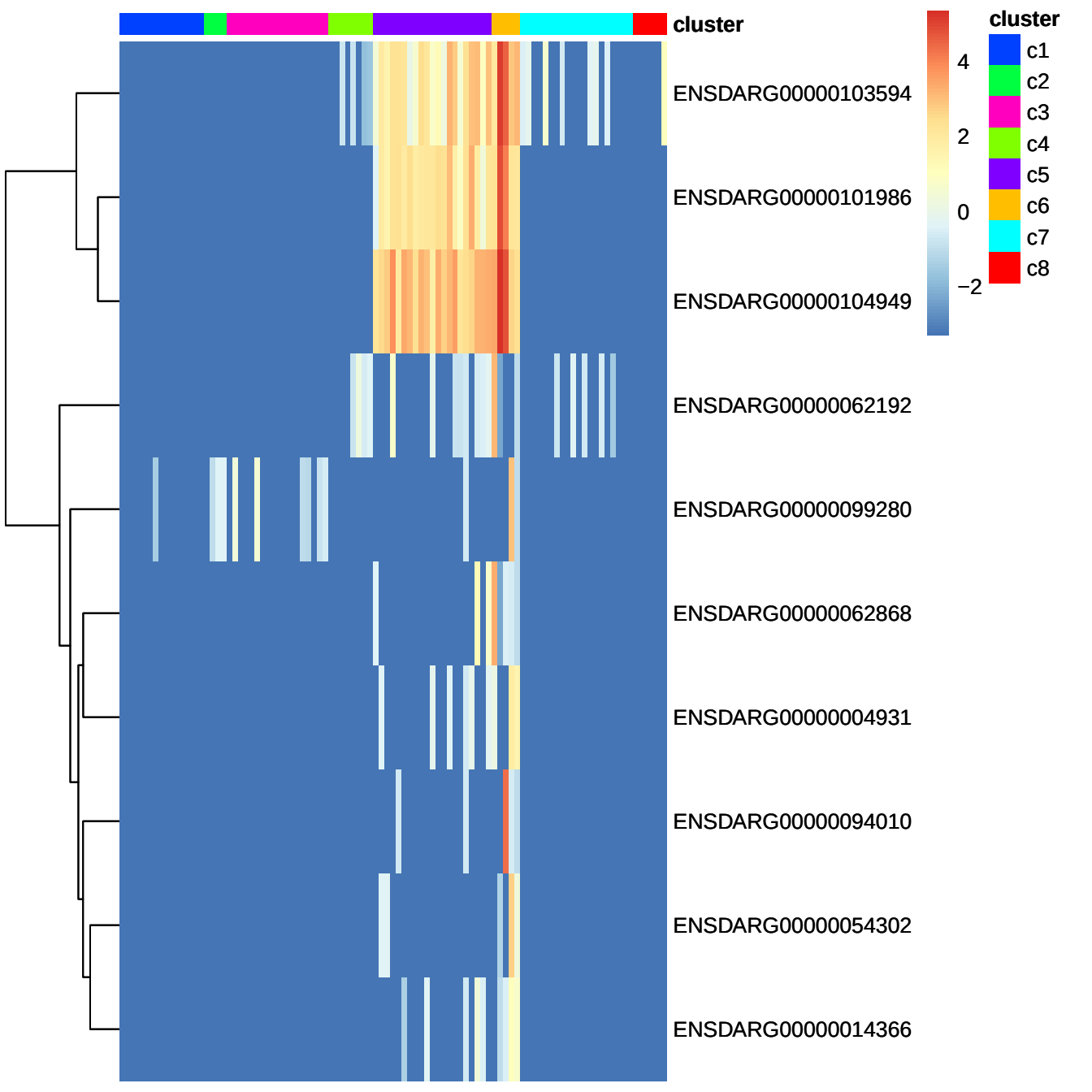

cluster
ENSDARG00000108798
ENSDARG00000109030
ENSDARG00000108379
ENSDARG00000107599
ENSDARG00000041060
ENSDARG00000105564
ENSDARG00000090447
ENSDARG00000079591
ENSDARG00000107321
ENSDARG00000107138
6
4
2
0
−2
cluster
c1
c2
c3
c4
c5
c6
c7
c8

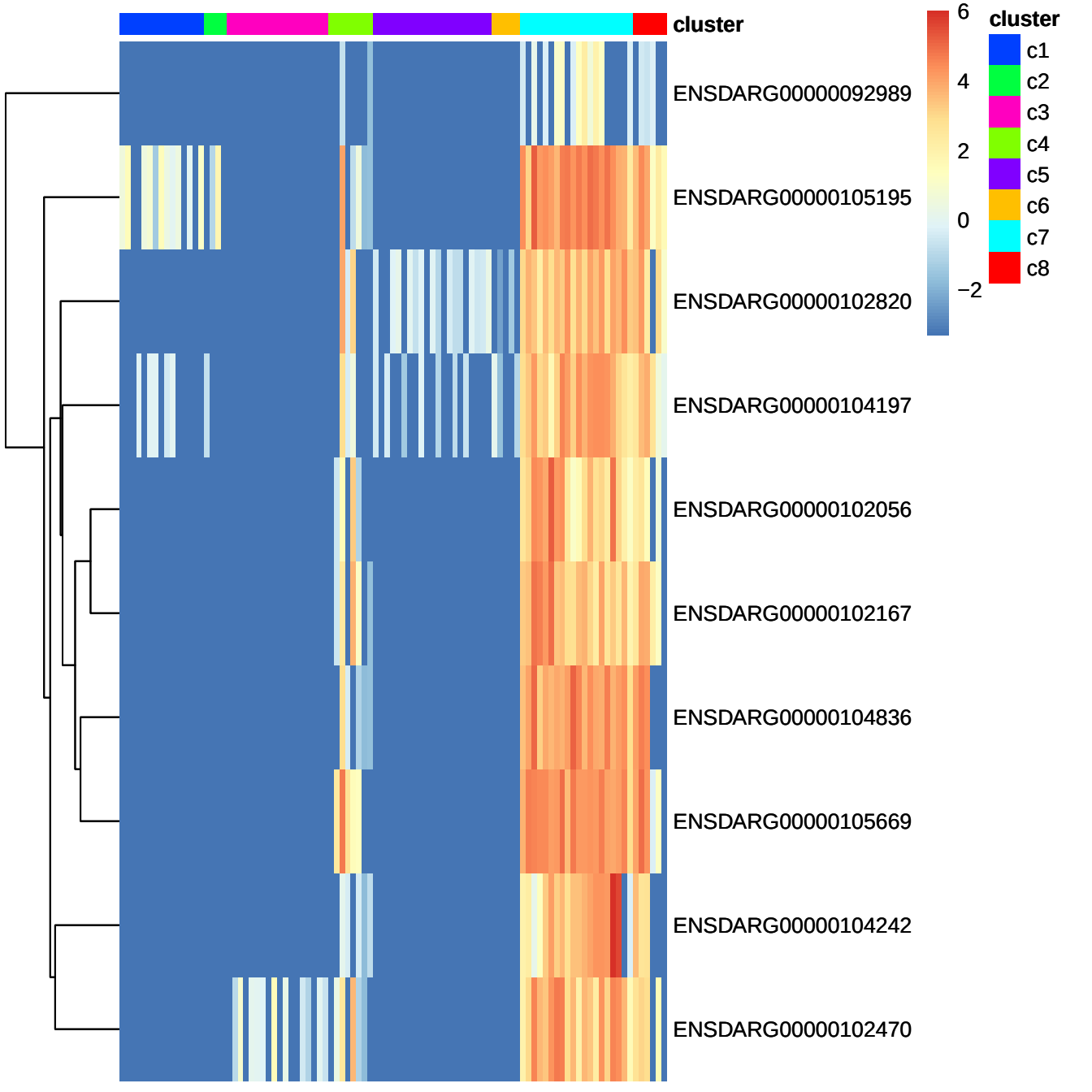

cluster
ENSDARG00000052912
ENSDARG00000101886
ENSDARG00000086877
ENSDARG00000040487
ENSDARG00000103735
ENSDARG00000090914
ENSDARG00000075253
ENSDARG00000041750
ENSDARG00000090496
ENSDARG00000078308
4
3
2
1
0
−1
−2
−3
cluster
c1
c2
c3
c4
c5
c6
c7
c8

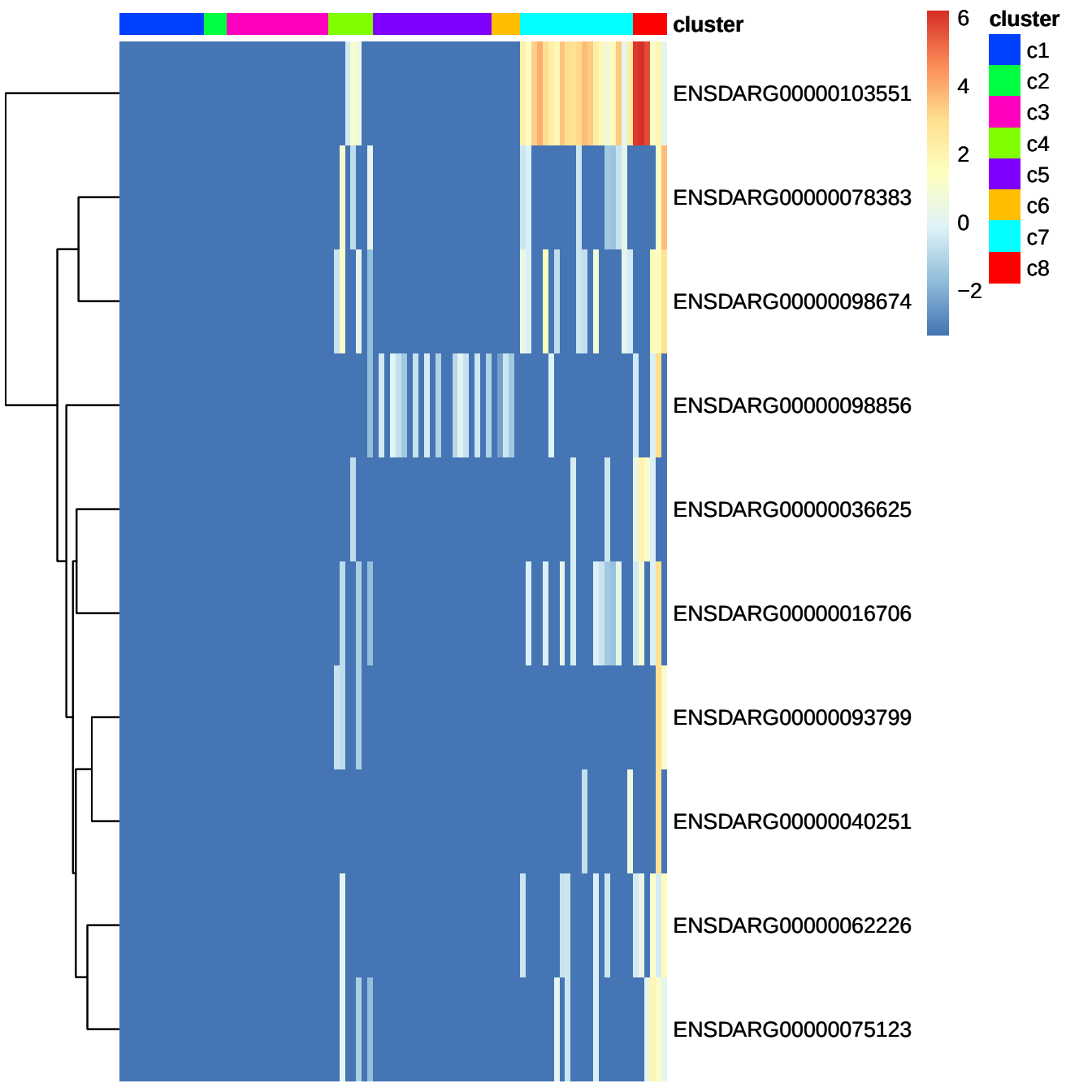

cluster
ENSDARG00000063254
ENSDARG00000105532
ENSDARG00000102291
ENSDARG00000107098
ENSDARG00000106626
ENSDARG00000108459
ENSDARG00000106631
ENSDARG00000107500
ENSDARG00000106893
ENSDARG00000106328
6
4
2
0
−2
cluster
c1
c2
c3
c4
c5
c6
c7
c8


cluster
ENSDARG00000105127
ENSDARG00000102188
ENSDARG00000102060
ENSDARG00000104118
ENSDARG00000101413
ENSDARG00000075333
ENSDARG00000098655
ENSDARG00000037116
ENSDARG00000103380
ENSDARG00000071113
4
2
0
−2
cluster
c1
c2
c3
c4
c5
c6
c7
c8


cluster
ENSDARG00000107953
ENSDARG00000104031
ENSDARG00000103505
ENSDARG00000104624
ENSDARG00000105003
ENSDARG00000102147
ENSDARG00000102705
ENSDARG00000102125
ENSDARG00000105858
ENSDARG00000107433
6
4
2
0
−2
cluster
c1
c2
c3
c4
c5
c6
c7
c8


cluster
ENSDARG00000103594
ENSDARG00000101986
ENSDARG00000104949
ENSDARG00000062192
ENSDARG00000099280
ENSDARG00000062868
ENSDARG00000004931
ENSDARG00000094010
ENSDARG00000054302
ENSDARG00000014366
4
2
0
−2
cluster
c1
c2
c3
c4
c5
c6
c7
c8


cluster
ENSDARG00000092989
ENSDARG00000105195
ENSDARG00000102820
ENSDARG00000104197
ENSDARG00000102056
ENSDARG00000102167
ENSDARG00000104836
ENSDARG00000105669
ENSDARG00000104242
ENSDARG00000102470
6
4
2
0
−2
cluster
c1
c2
c3
c4
c5
c6
c7
c8


cluster
ENSDARG00000103551
ENSDARG00000078383
ENSDARG00000098674
ENSDARG00000098856
ENSDARG00000036625
ENSDARG00000016706
ENSDARG00000093799
ENSDARG00000040251
ENSDARG00000062226
ENSDARG00000075123
6
4
2
0
−2
cluster
c1
c2
c3
c4
c5
c6
c7
c8