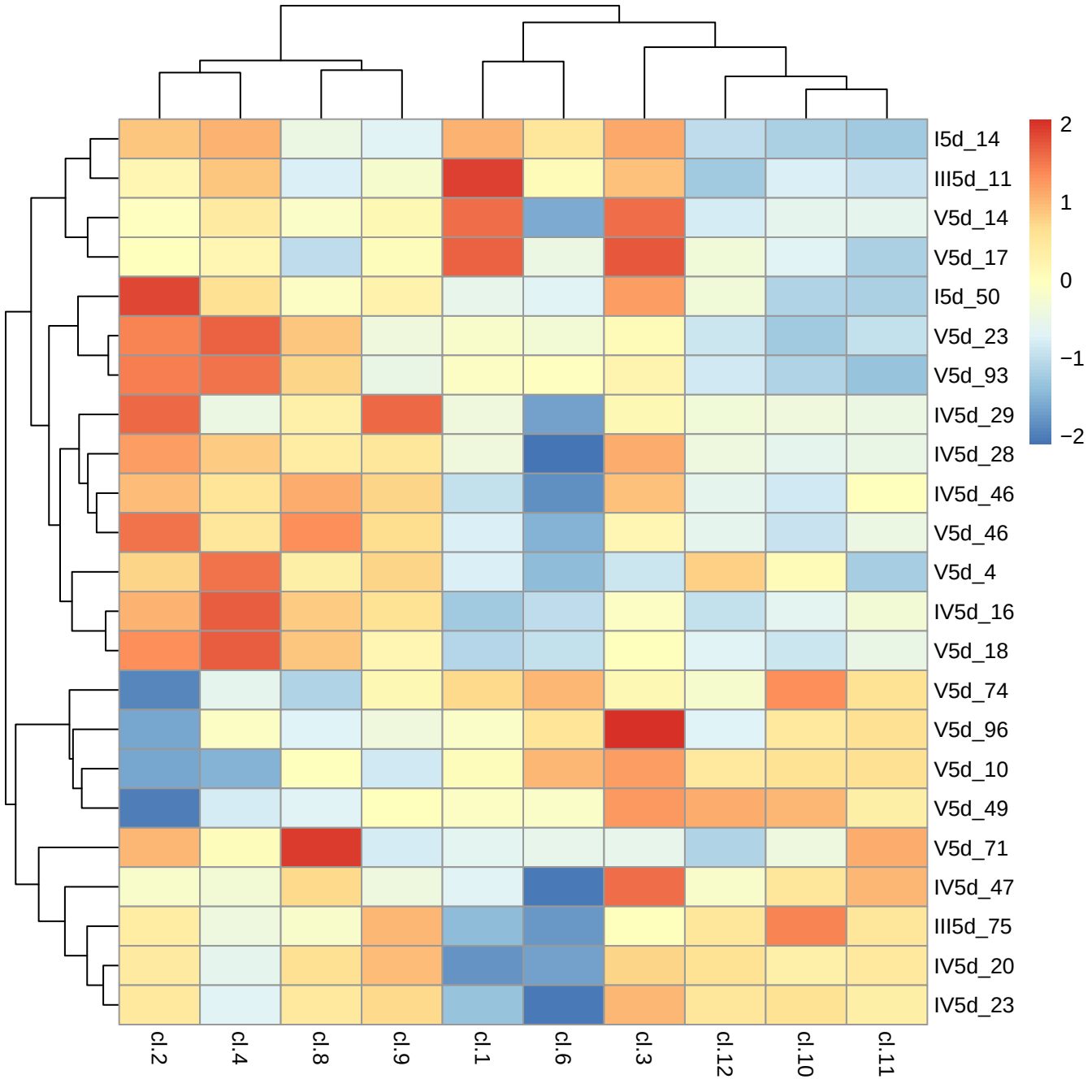
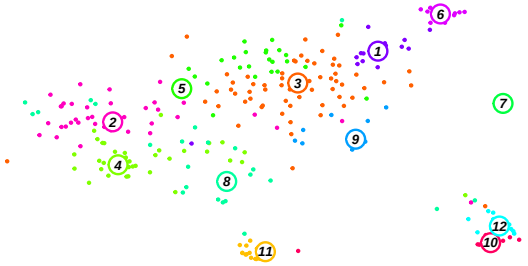
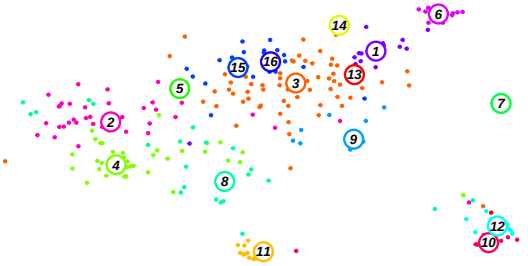

I5d_14
III5d_11
V5d_14
V5d_17
I5d_50
V5d_23
V5d_93
IV5d_29
IV5d_28
IV5d_46
V5d_46
V5d_4
IV5d_16
V5d_18
V5d_74
V5d_96
V5d_10
V5d_49
V5d_71
IV5d_47
III5d_75
IV5d_20
IV5d_23
cl.2
cl.4
cl.8
cl.9
cl.1
cl.6
cl.3
cl.12
cl.10
cl.11
2
1
0
−1
−2

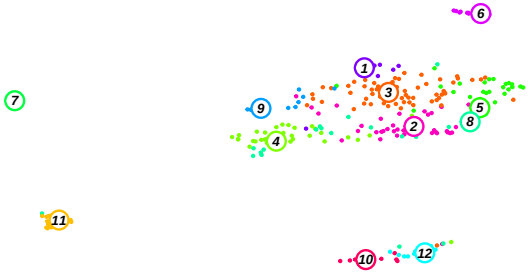
Initial Clusters (tSNE)



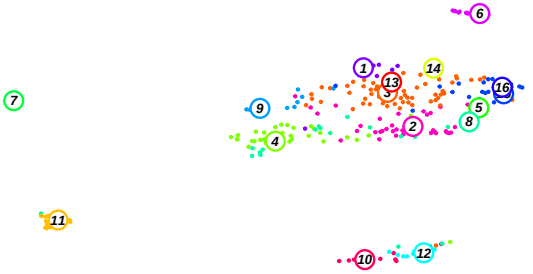
Final Clusters (tSNE)



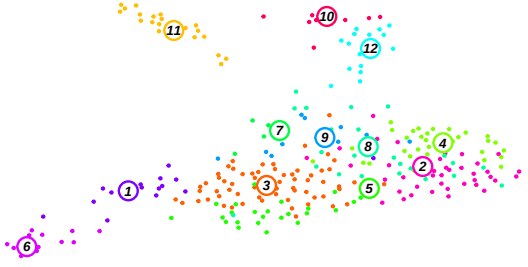
Initial Clusters (UMAP)



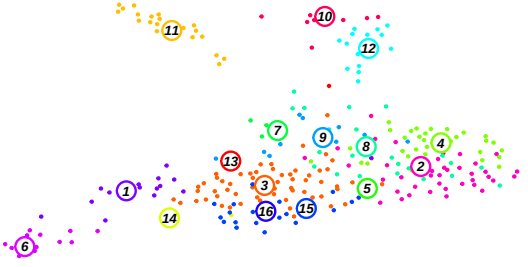
Final Clusters (UMAP)

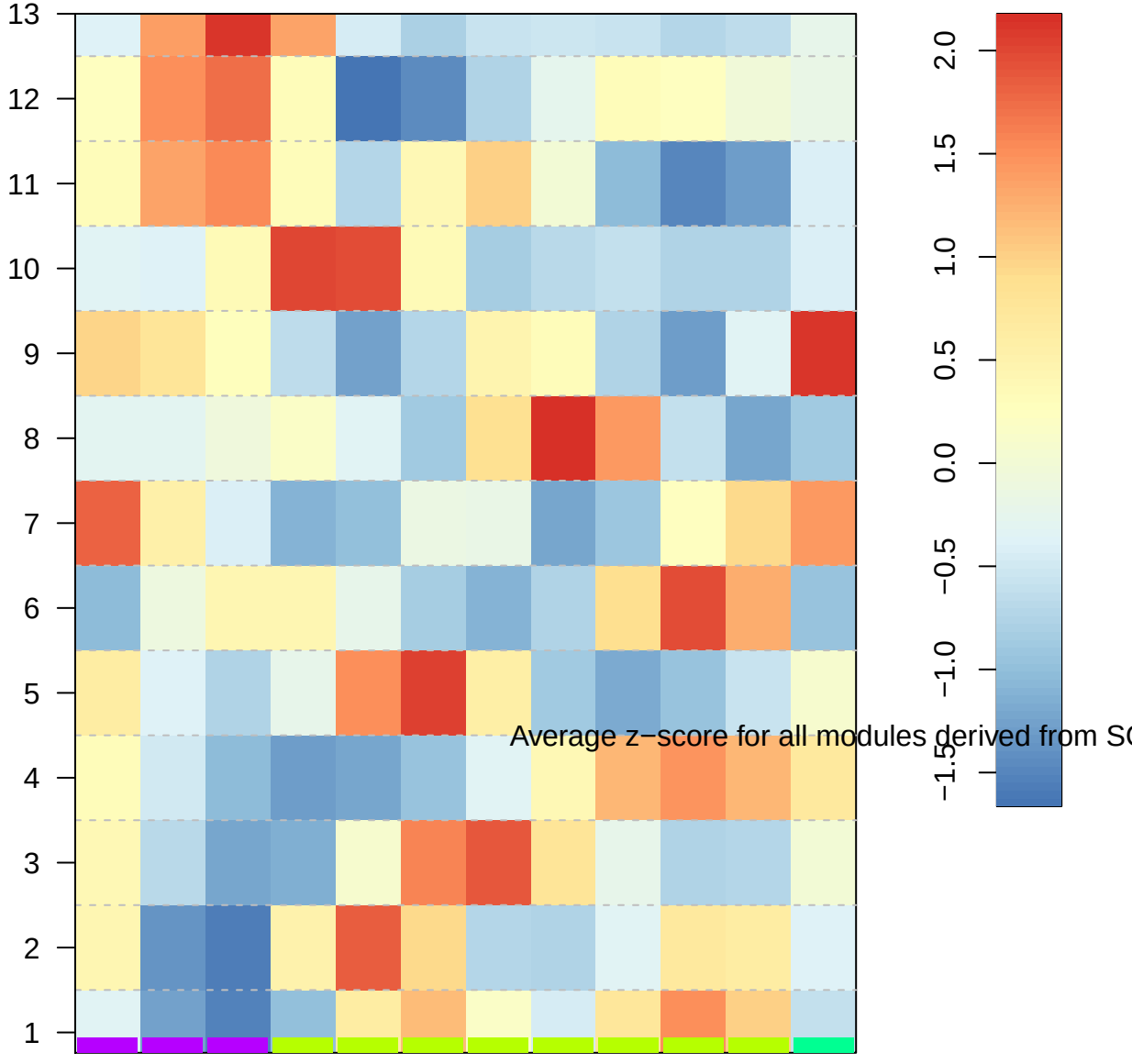


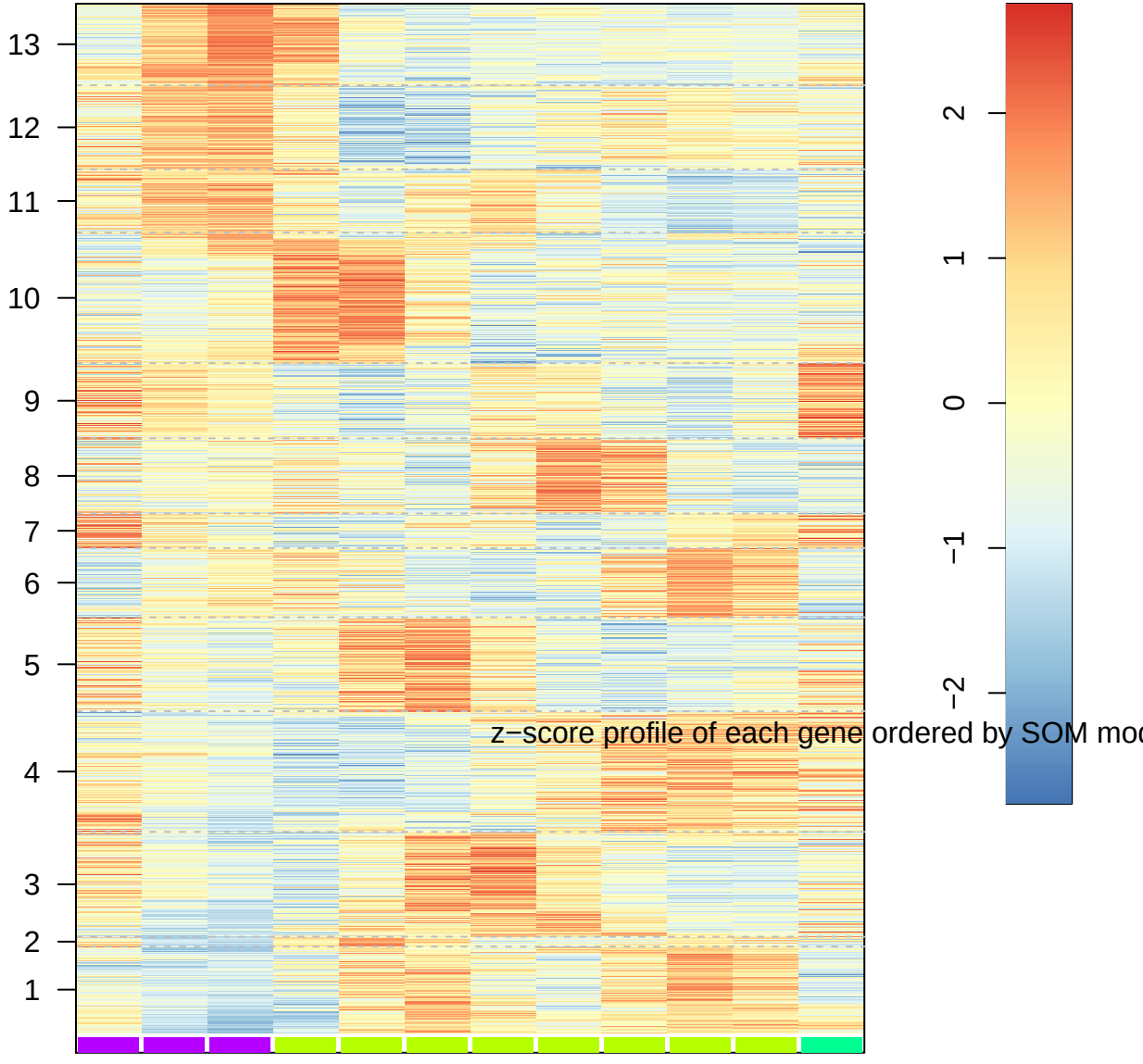
Initial Clusters (F−R)

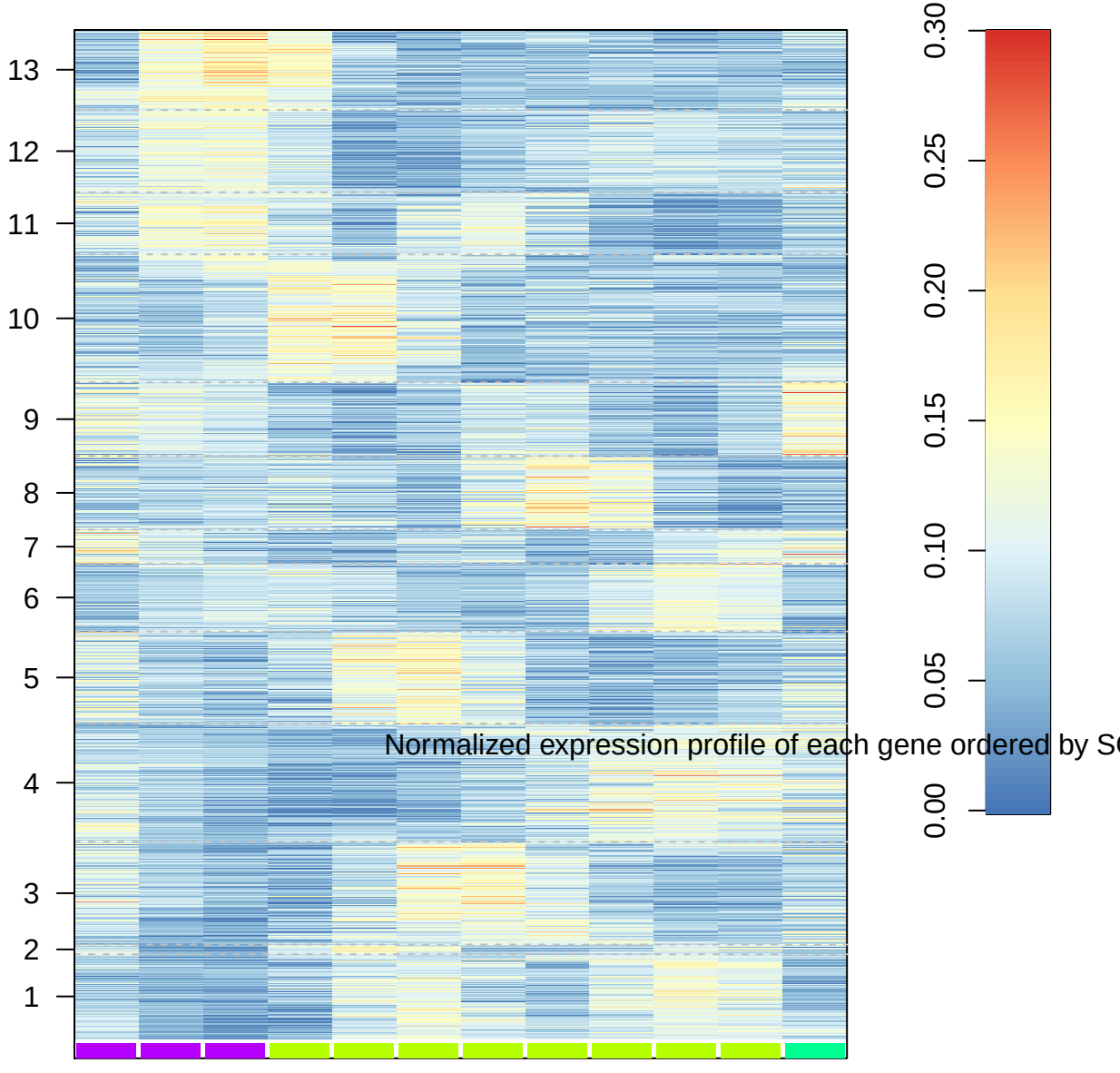


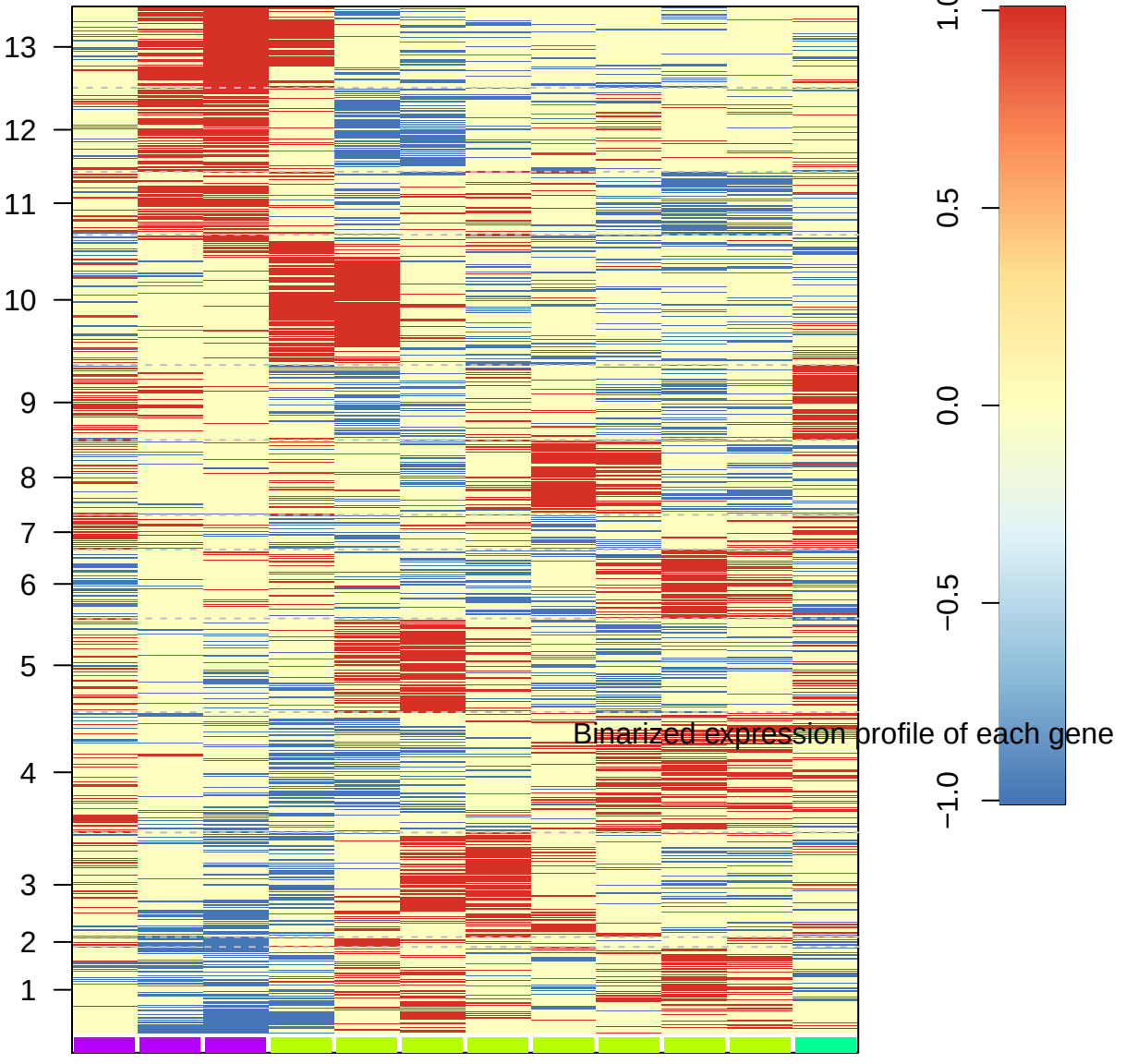
Final Clusters (F−R)

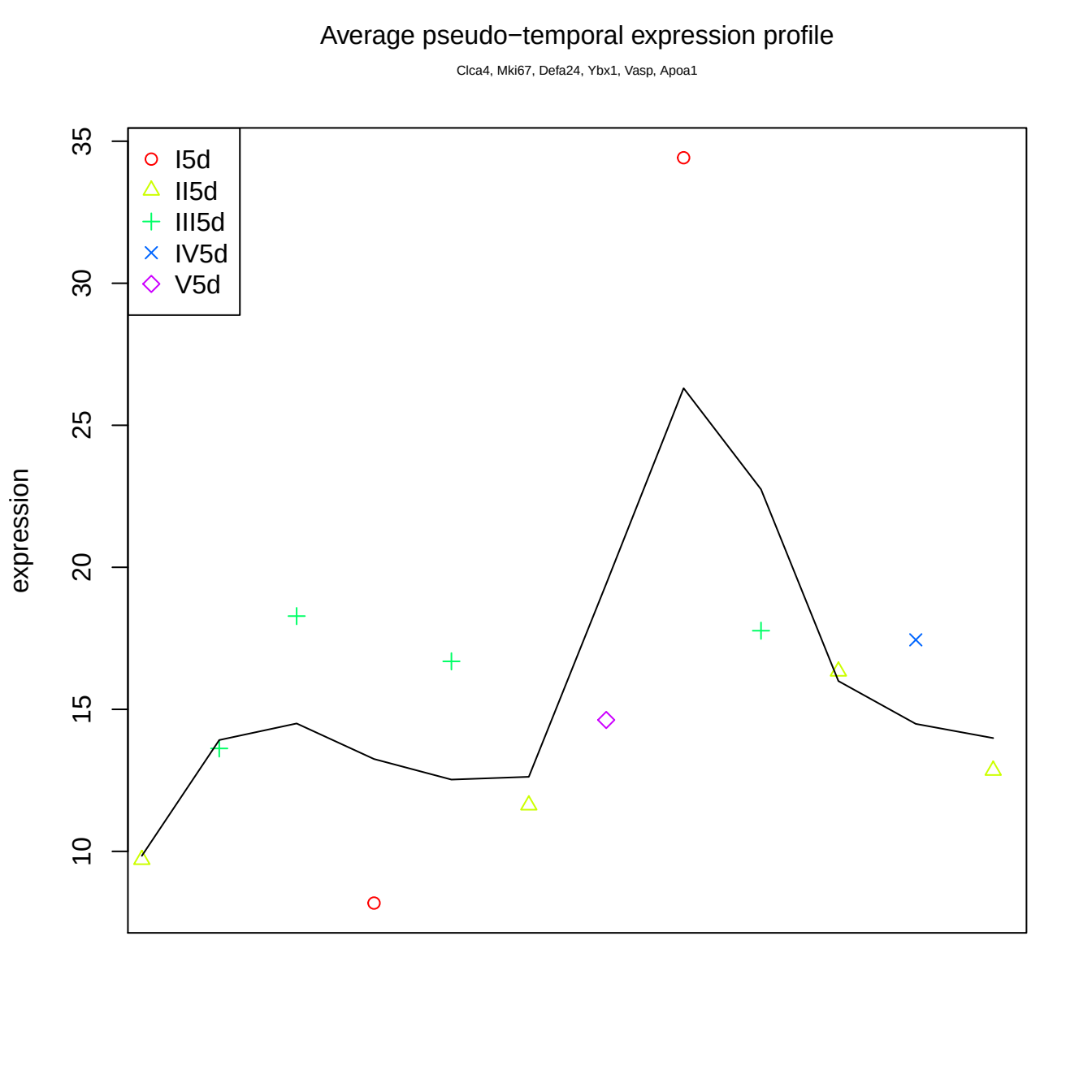



13
12
11
10
9
8
7
6
5
4
3
2
1
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
Average z−score for all modules derived from SC


13
12
11
10
9
8
7
6
5
4
3
2
1
2
1
0
−1
−2
z−score profile of each gene ordered by SOM mod


13
12
11
10
9
8
7
6
5
4
3
2
1
Normalized expression profile of each gene ordered by S
0.30
0.25
0.20
0.15
0.10
0.05
0.00


13
12
11
10
9
8
7
6
5
4
3
2
1
1.0
0.5
0.0
−0.5
−1.0
Binarized expression profile of each gene


Average pseudo−temporal expression profile
Clca4, Mki67, Defa24, Ybx1, Vasp, Apoa1
expression
10
15
20
25
30
35
I5d
II5d
III5d
IV5d
V5d