−0.09

topcor

0.50
0.25
0.00
−0.25
−0.50

2200
2225
2250
2275
2300

sumsq

Identity
malignant
normal

−0.09

topcor

0.50
0.25
0.00
−0.25
−0.50

2200
2225
2250
2275
2300

sumsq

Identity
0
1
2

−0.09

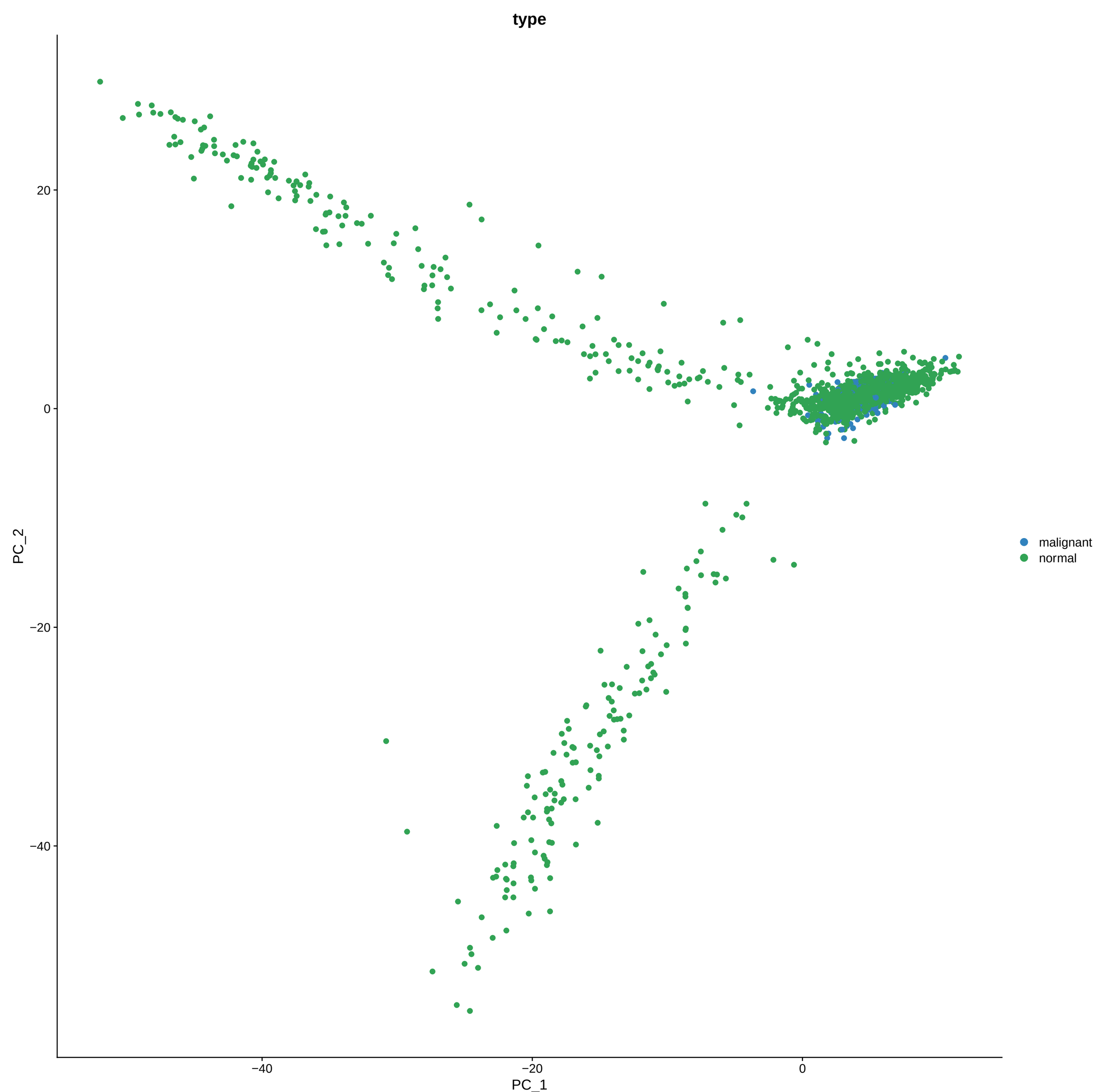
topcor

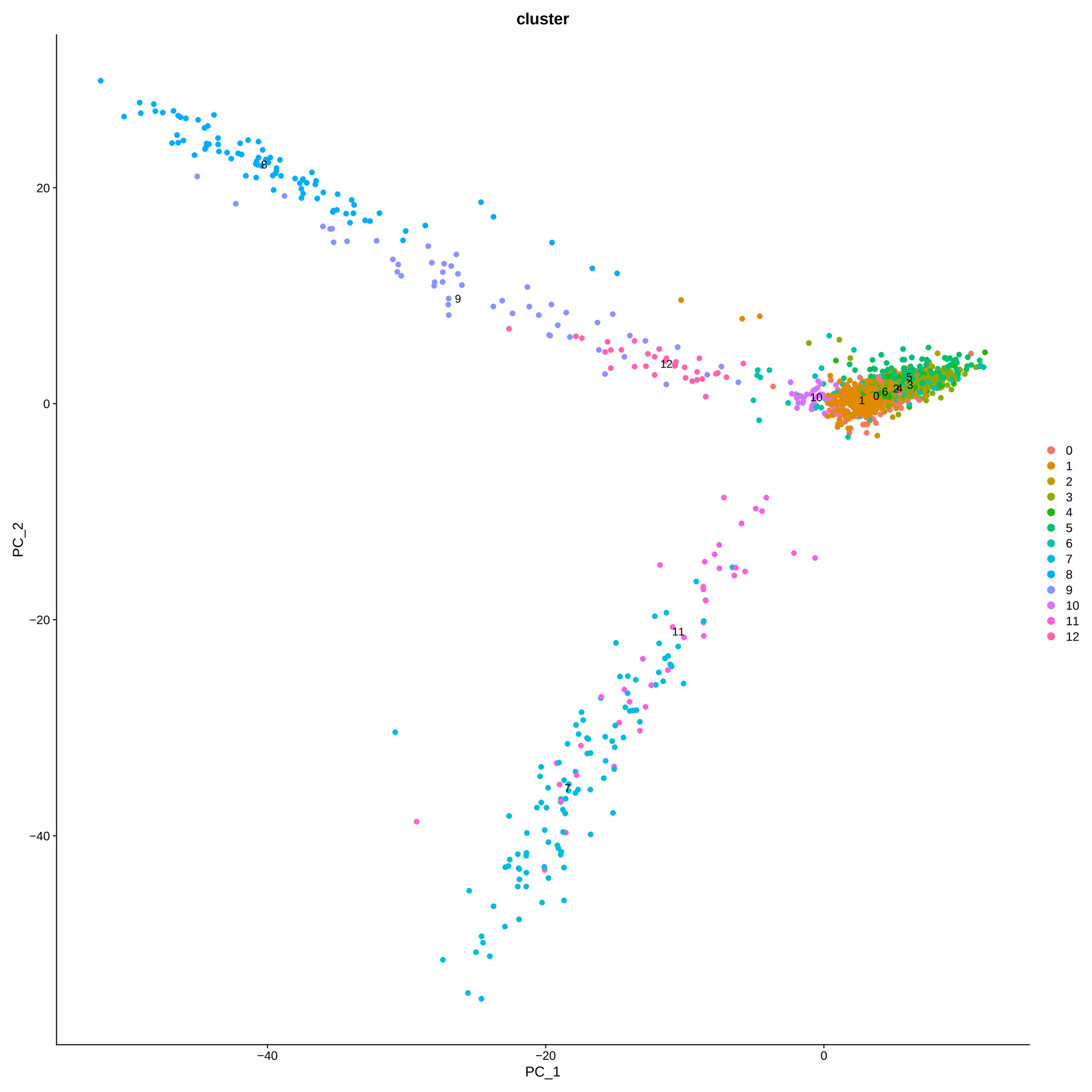
0.50
0.25
0.00
−0.25
−0.50

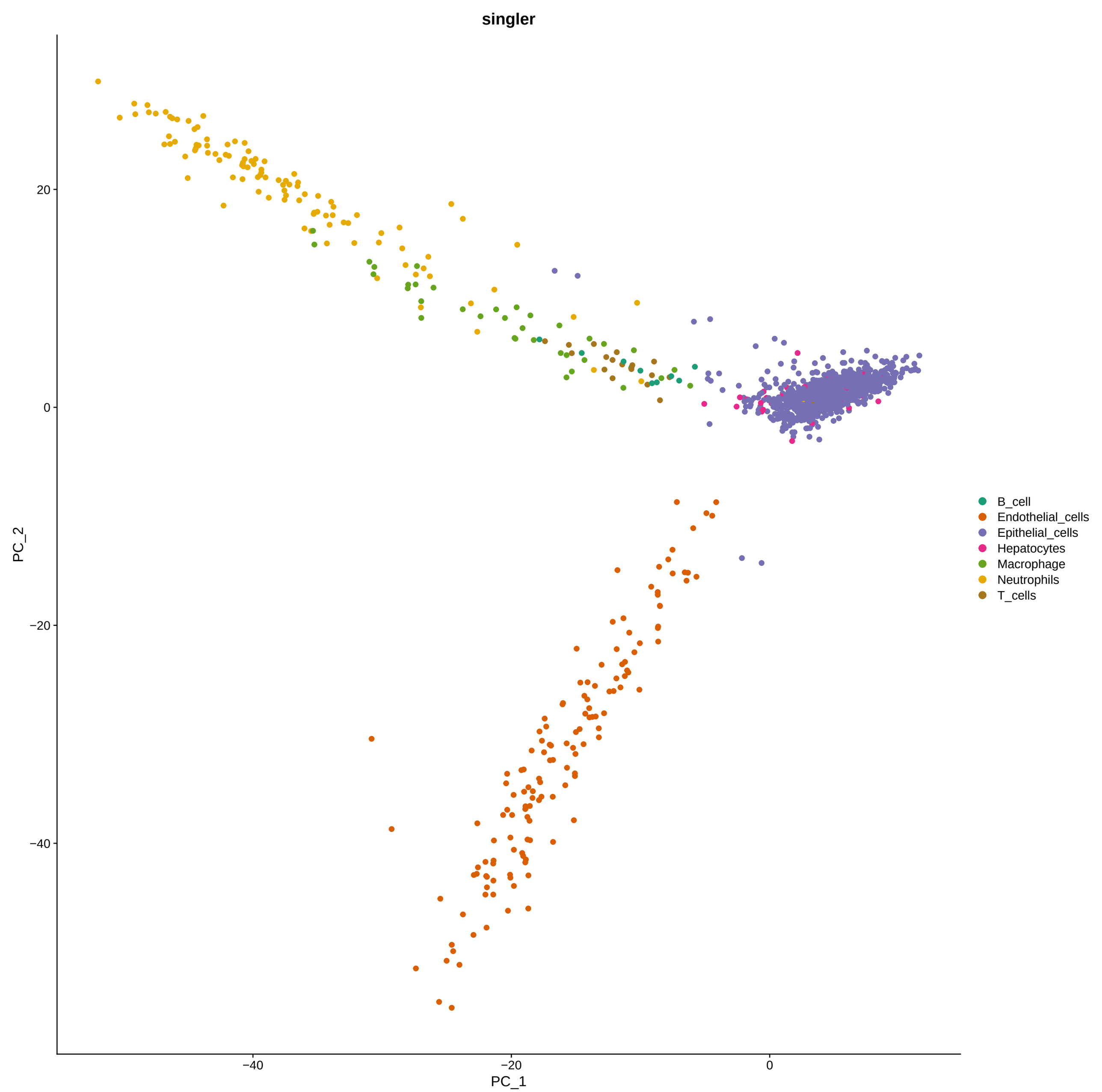
2200
2225
2250
2275
2300

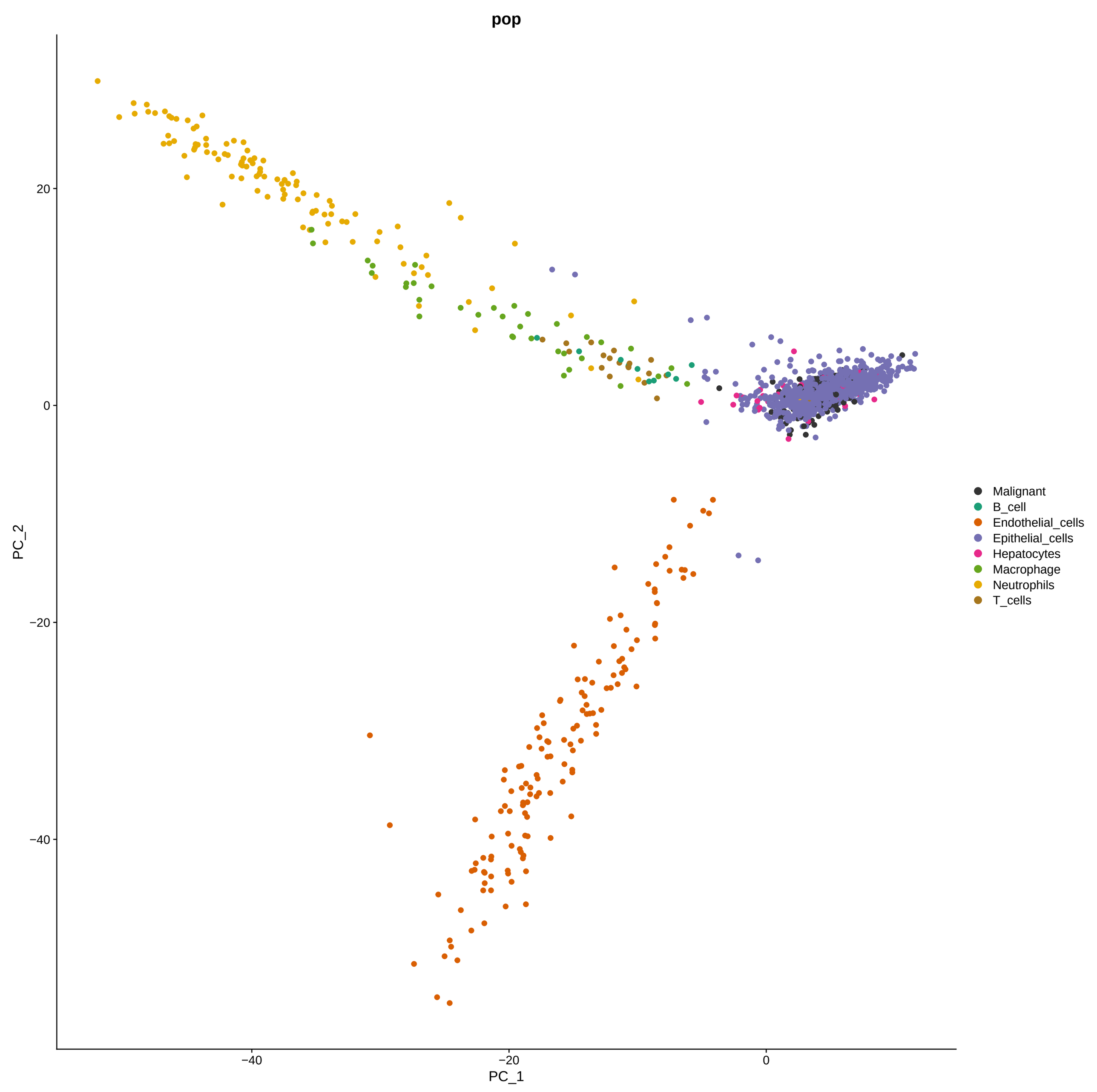
sumsq

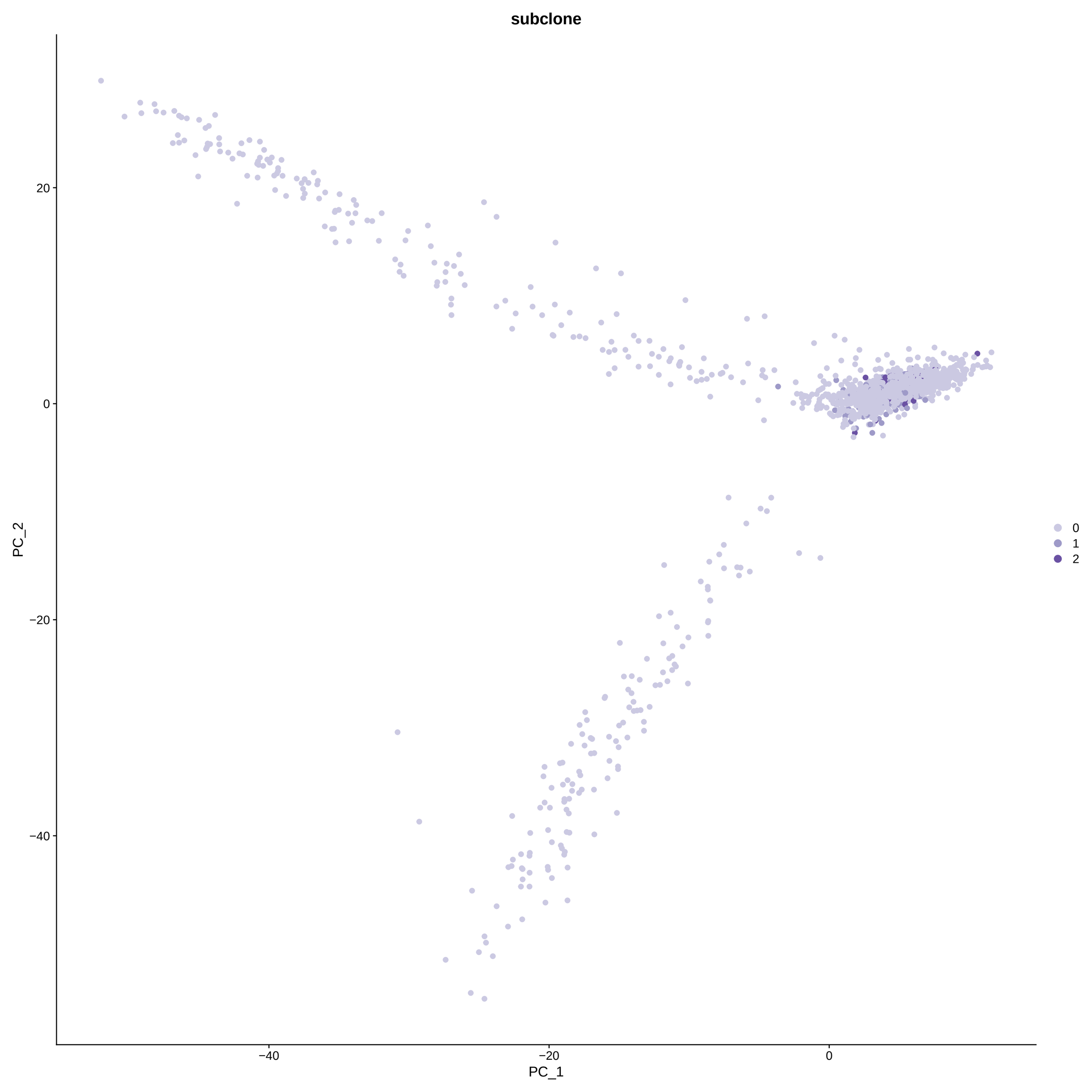
Identity
0
1
2
3
4
5
6
7
8
9
10
11
12

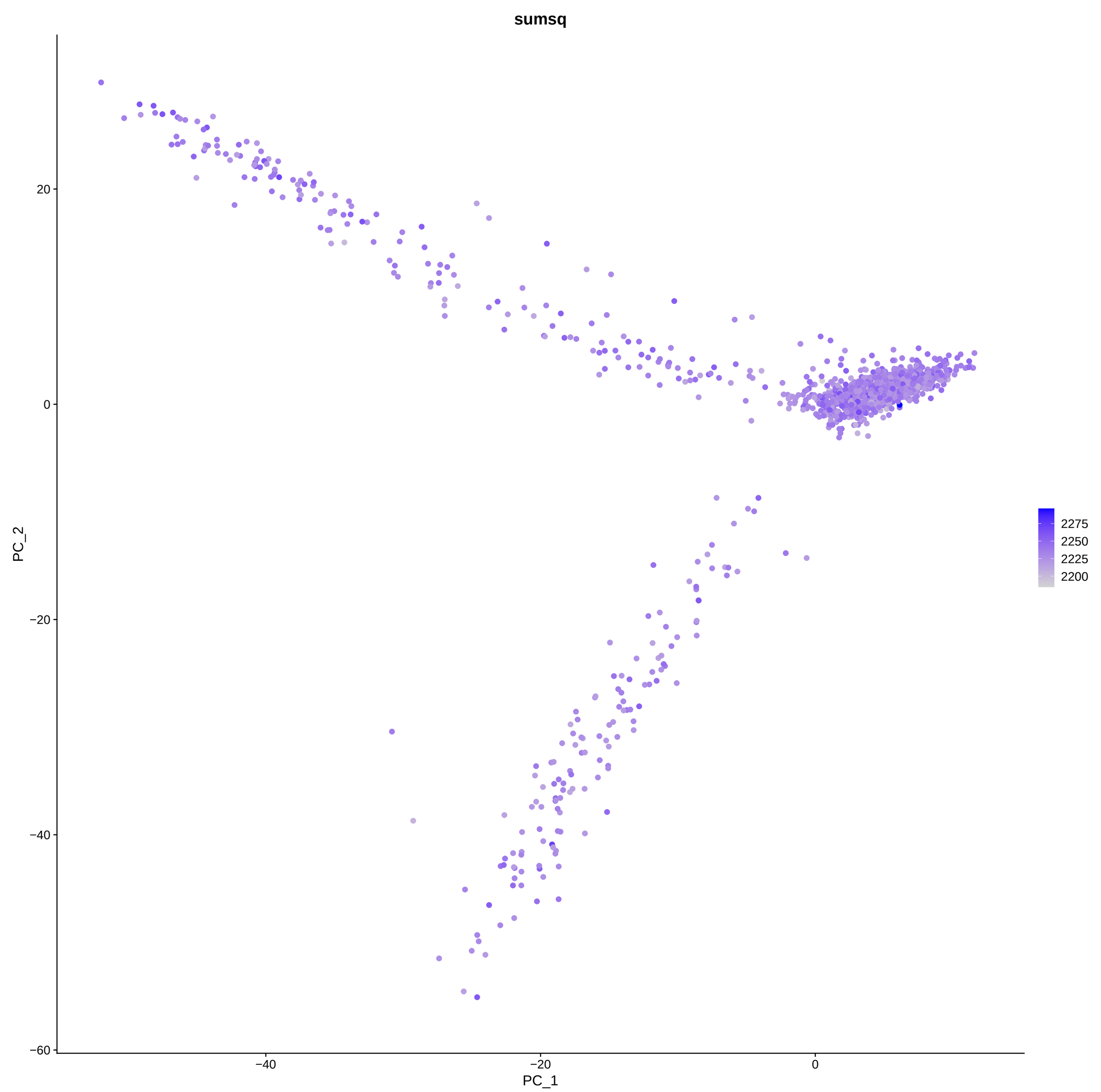

type
20
0
−20
−40
PC_2
−40
−20
0
PC_1
malignant
normal

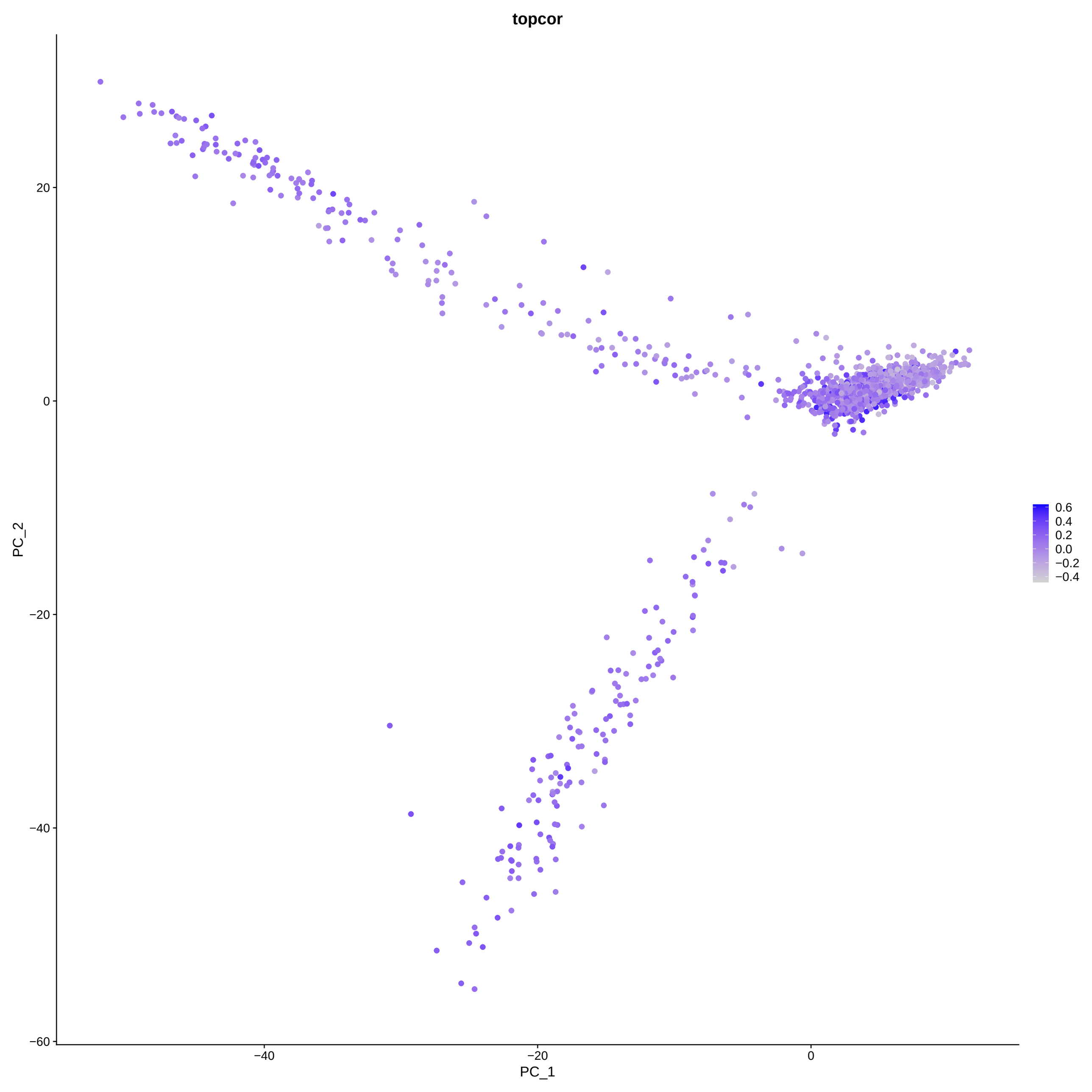

cluster
20
0
−20
−40
PC_2
−40
−20
0
PC_1
8
9
12
10
1
0
6
4
5
3
11
7
0
1
2
3
4
5
6
7
8
9
10
11
12


singler
20
0
−20
−40
PC_2
−40
−20
0
PC_1
B_cell
Endothelial_cells
Epithelial_cells
Hepatocytes
Macrophage
Neutrophils
T_cells

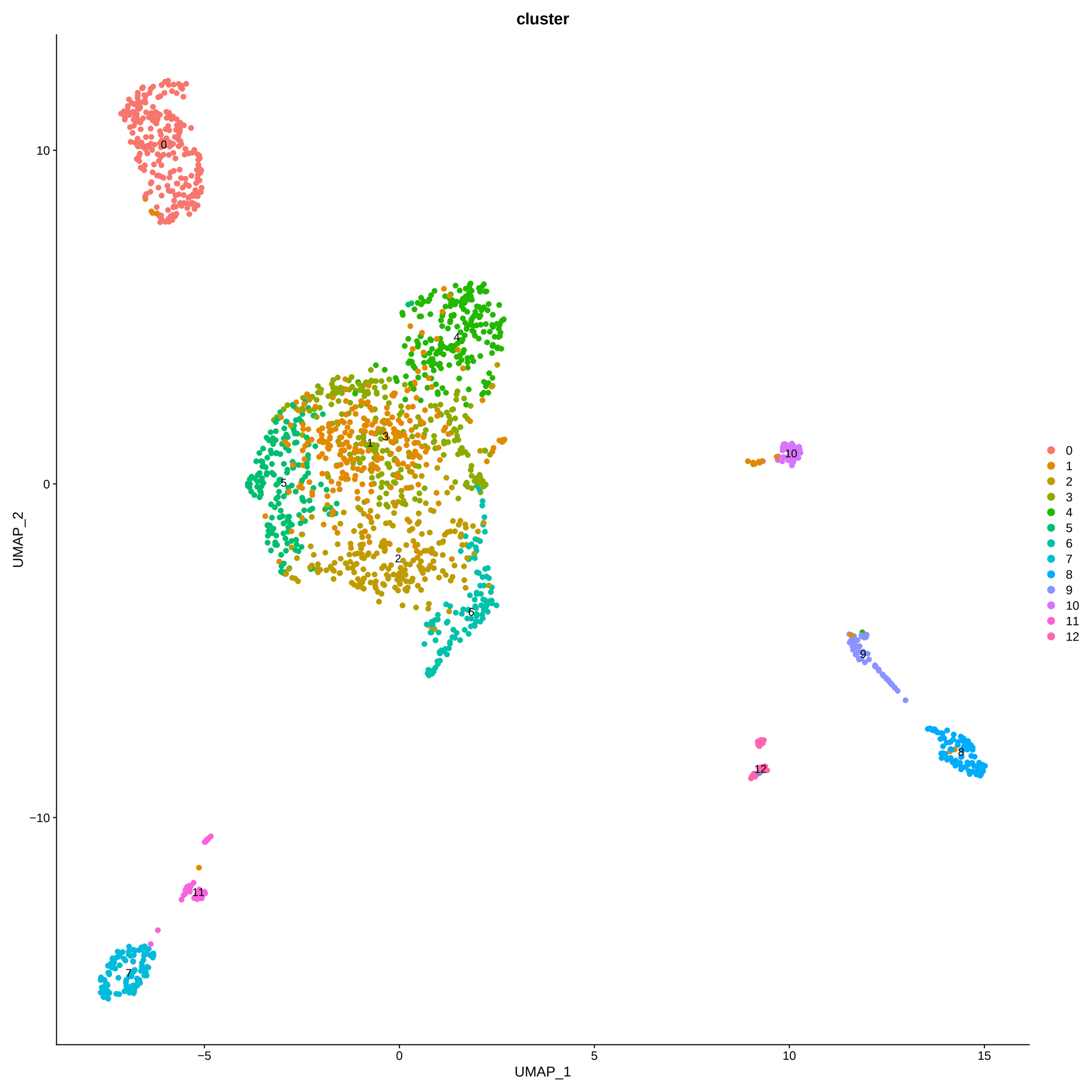

pop
20
0
−20
−40
PC_2
−40
−20
0
PC_1
Malignant
B_cell
Endothelial_cells
Epithelial_cells
Hepatocytes
Macrophage
Neutrophils
T_cells

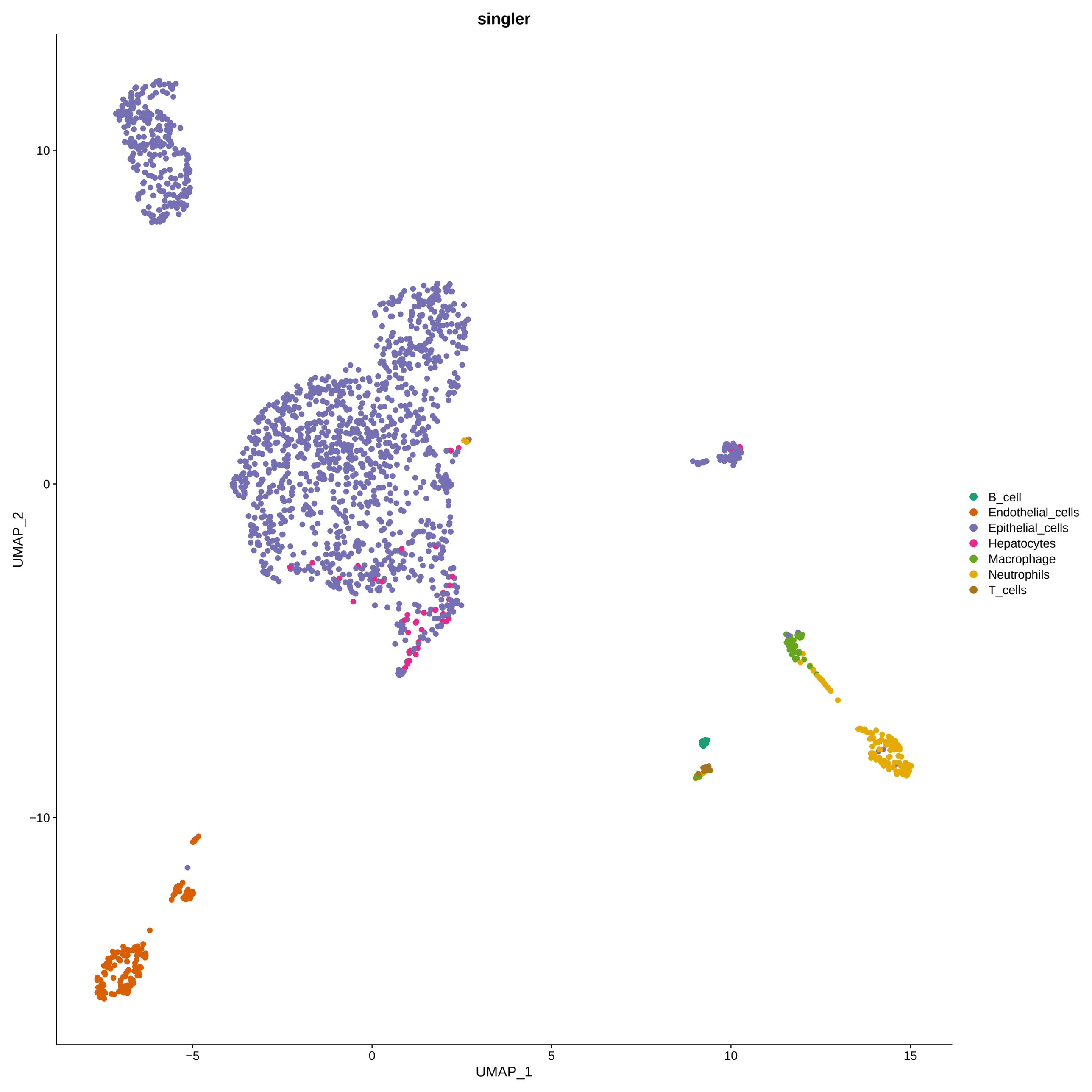

subclone
20
0
−20
−40
PC_2
−40
−20
0
PC_1
0
1
2

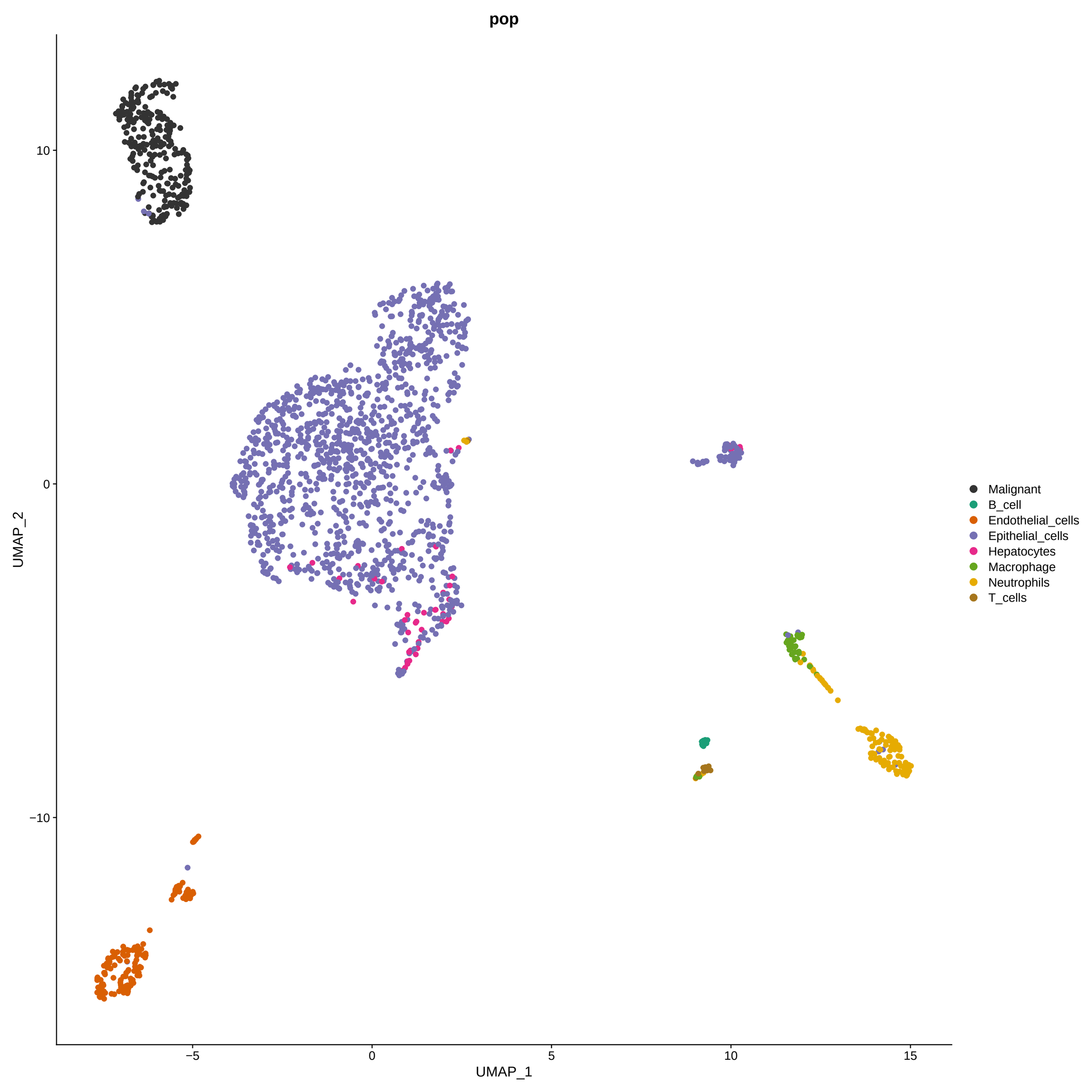

sumsq
20
0
−20
−40
−60
PC_2
−40
−20
0
PC_1
2275
2250
2225
2200


topcor
20
0
−20
−40
−60
PC_2
−40
−20
0
PC_1
0.6
0.4
0.2
0.0
−0.2
−0.4

type
malignant
normal
UMAP_2
10
0
−10
−5
0
5
10
15
UMAP_1

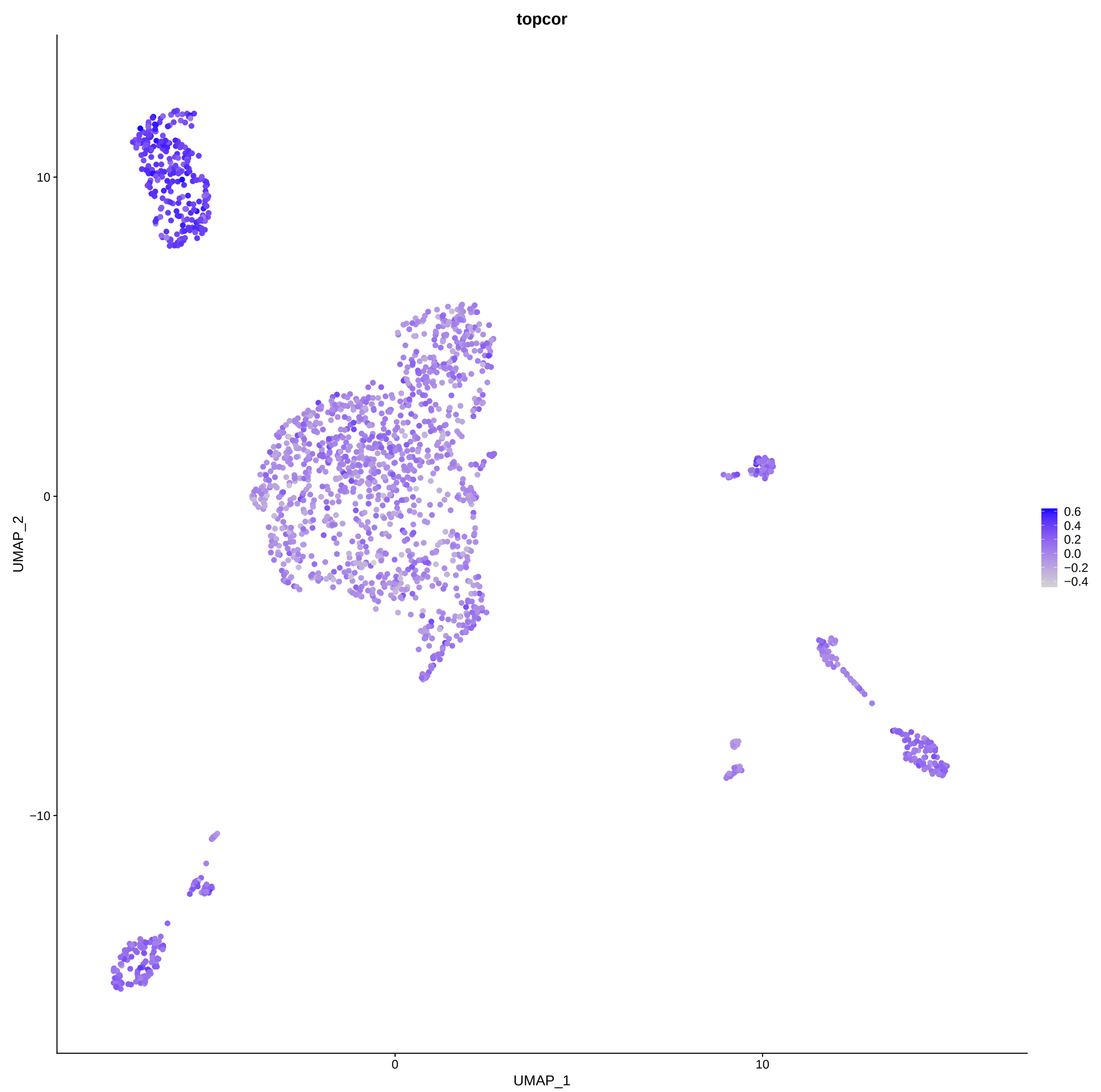

cluster
0
1
2
3
4
5
6
7
8
9
10
11
12
10
0
−10
UMAP_2
−5
0
5
10
15
UMAP_1


singler
10
0
−10
UMAP_2
−5
0
5
10
15
UMAP_1
B_cell
Endothelial_cells
Epithelial_cells
Hepatocytes
Macrophage
Neutrophils
T_cells


pop
10
0
−10
UMAP_2
−5
0
5
10
15
UMAP_1
Malignant
B_cell
Endothelial_cells
Epithelial_cells
Hepatocytes
Macrophage
Neutrophils
T_cells

subclone
10
0
−10
UMAP_2
−5
0
5
10
15
UMAP_1
0
1
2

sumsq
10
0
−10
UMAP_2
0
10
UMAP_1
2275
2250
2225
2200


topcor
10
0
−10
UMAP_2
0
10
UMAP_1
0.6
0.4
0.2
0.0
−0.2
−0.4