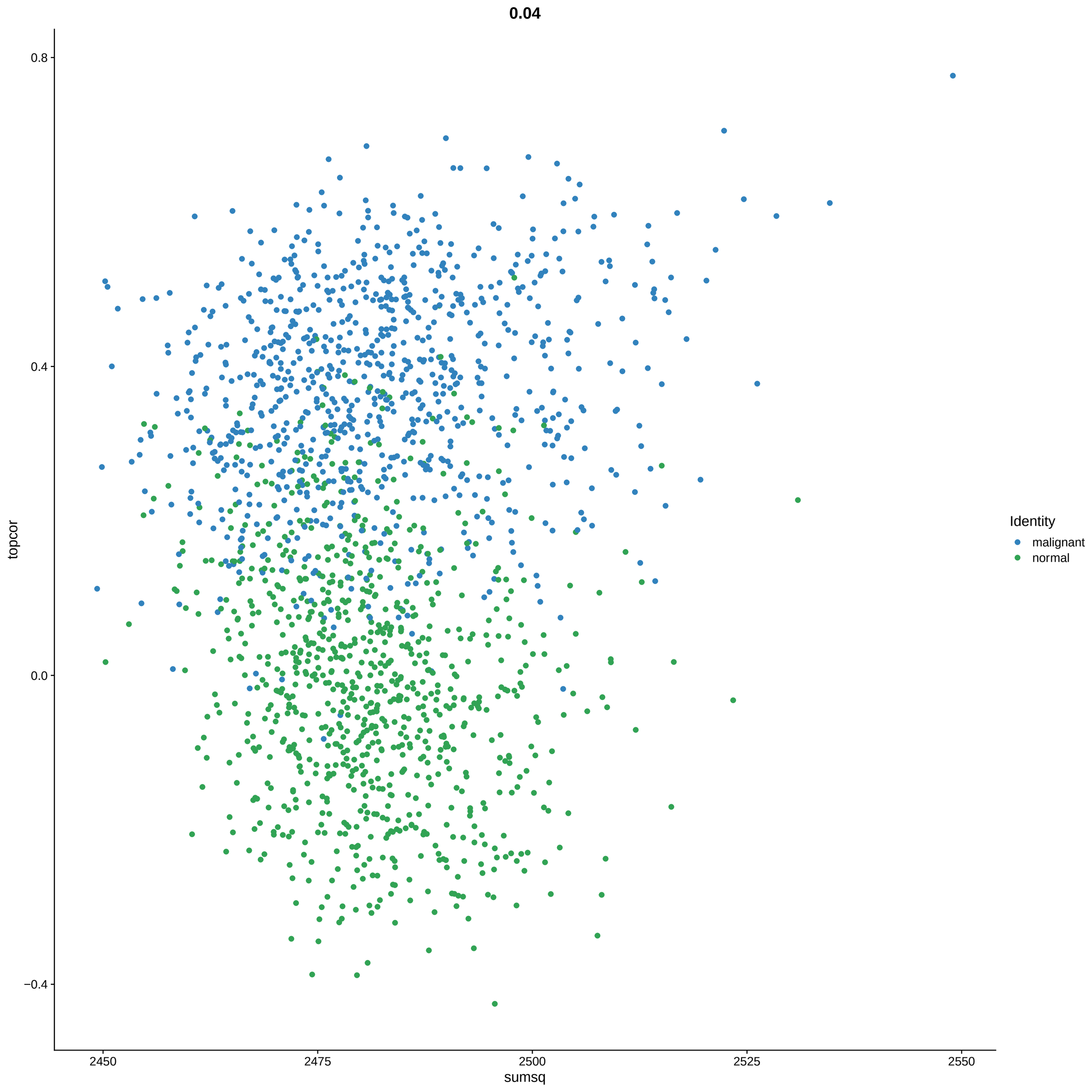
0.04
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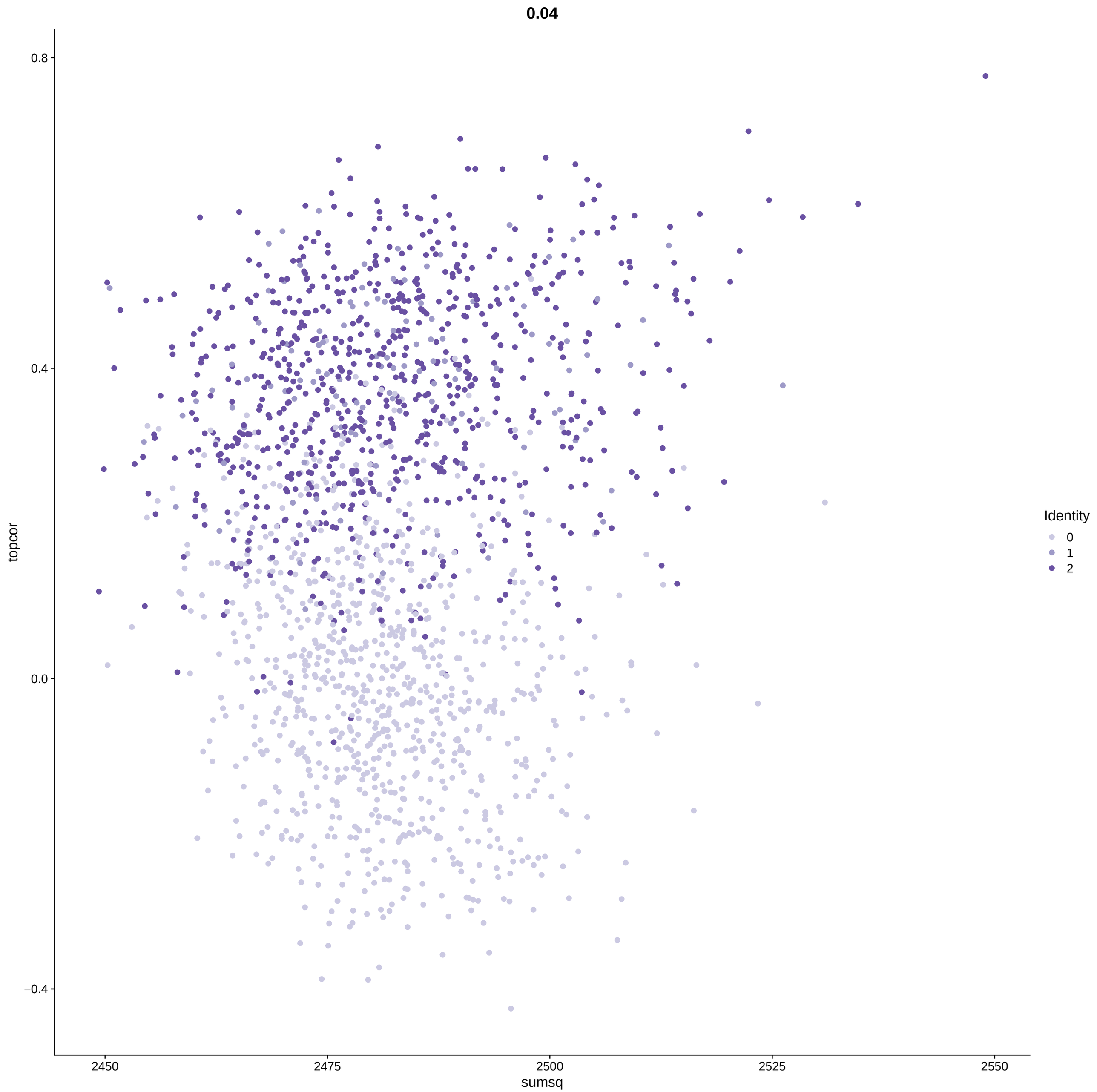
−0.4
topcor
2450
2475
2500
2525
2550
sumsq
Identity
malignant
normal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topcor
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2550
sumsq
Identity
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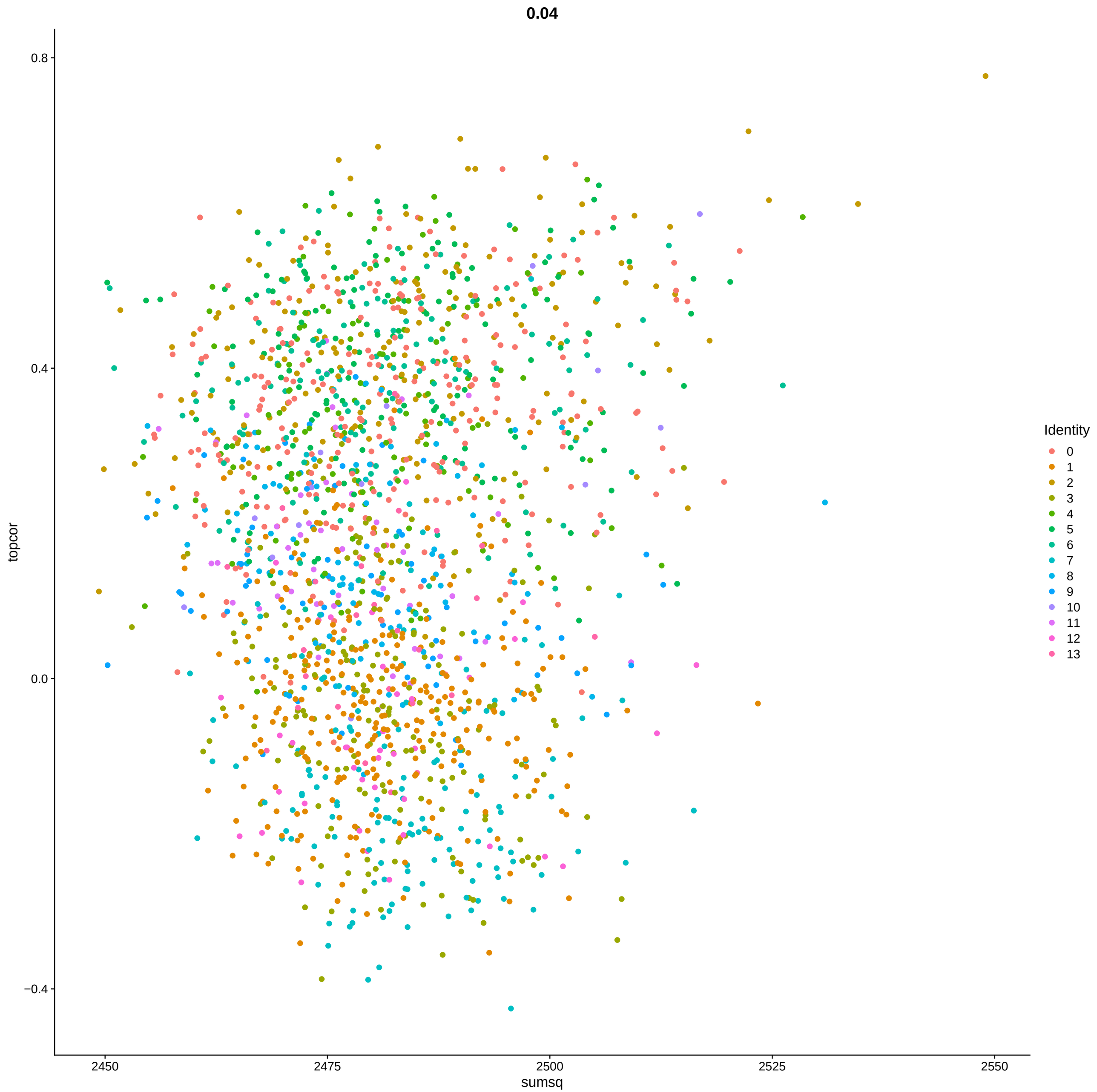
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0.8
0.4
0.0
−0.4
topcor
2450
2475
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sumsq
Identity
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6
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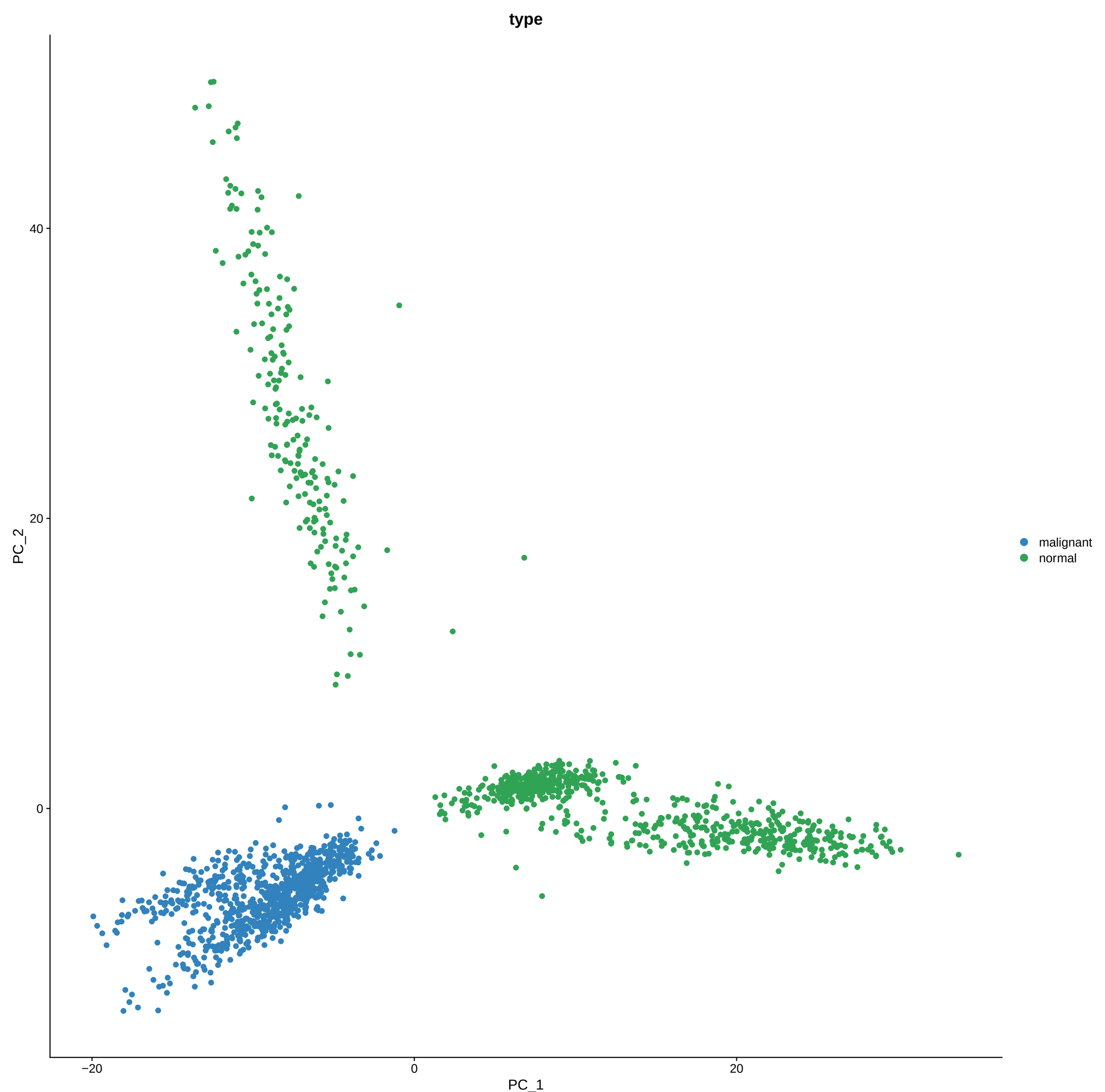
10
11
12
13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malignant
normal
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0
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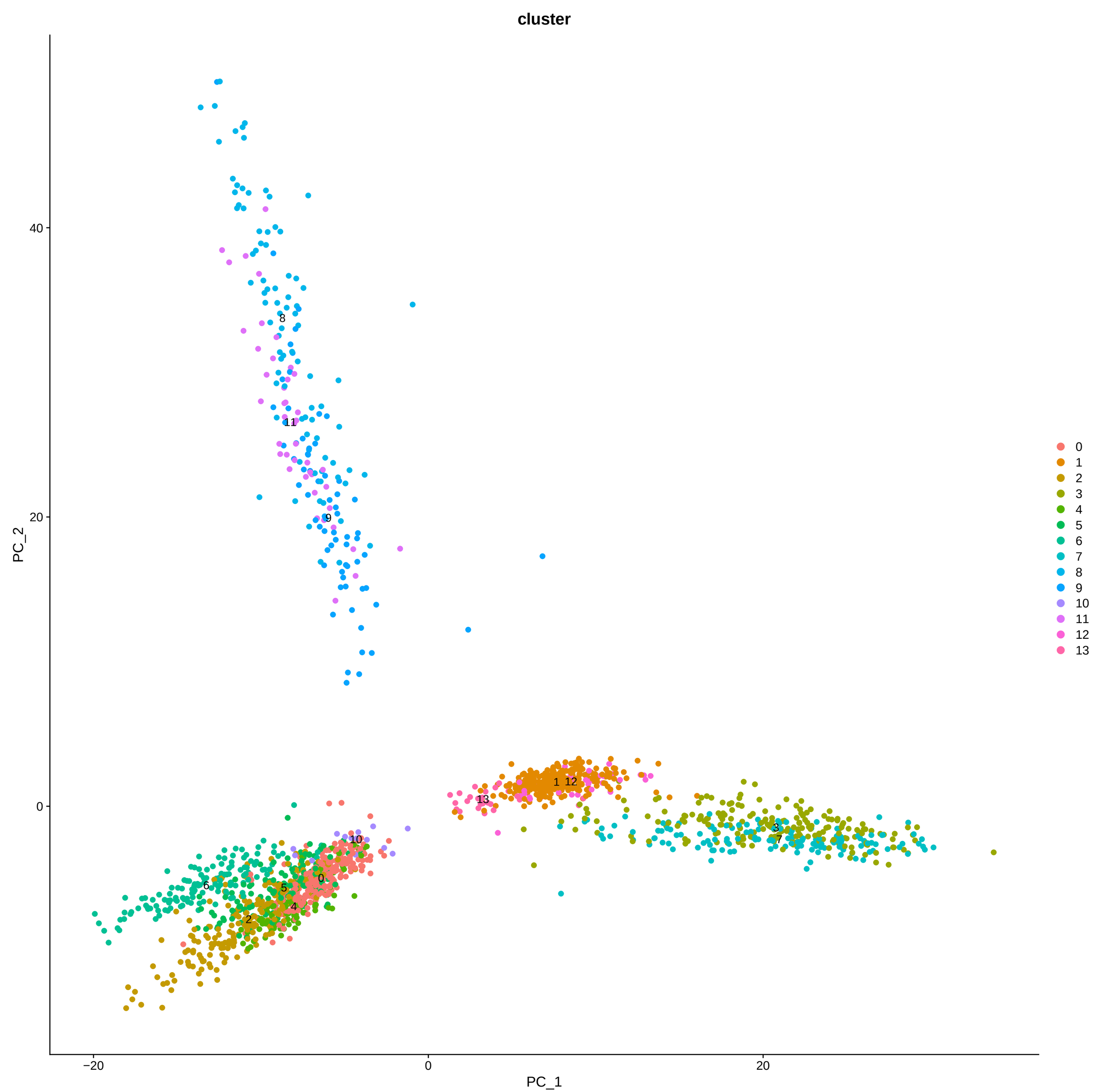
PC_1


cluster
40
20
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PC_2
−20
0
20
PC_1
8
11
9
1
12
13
3
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4
2
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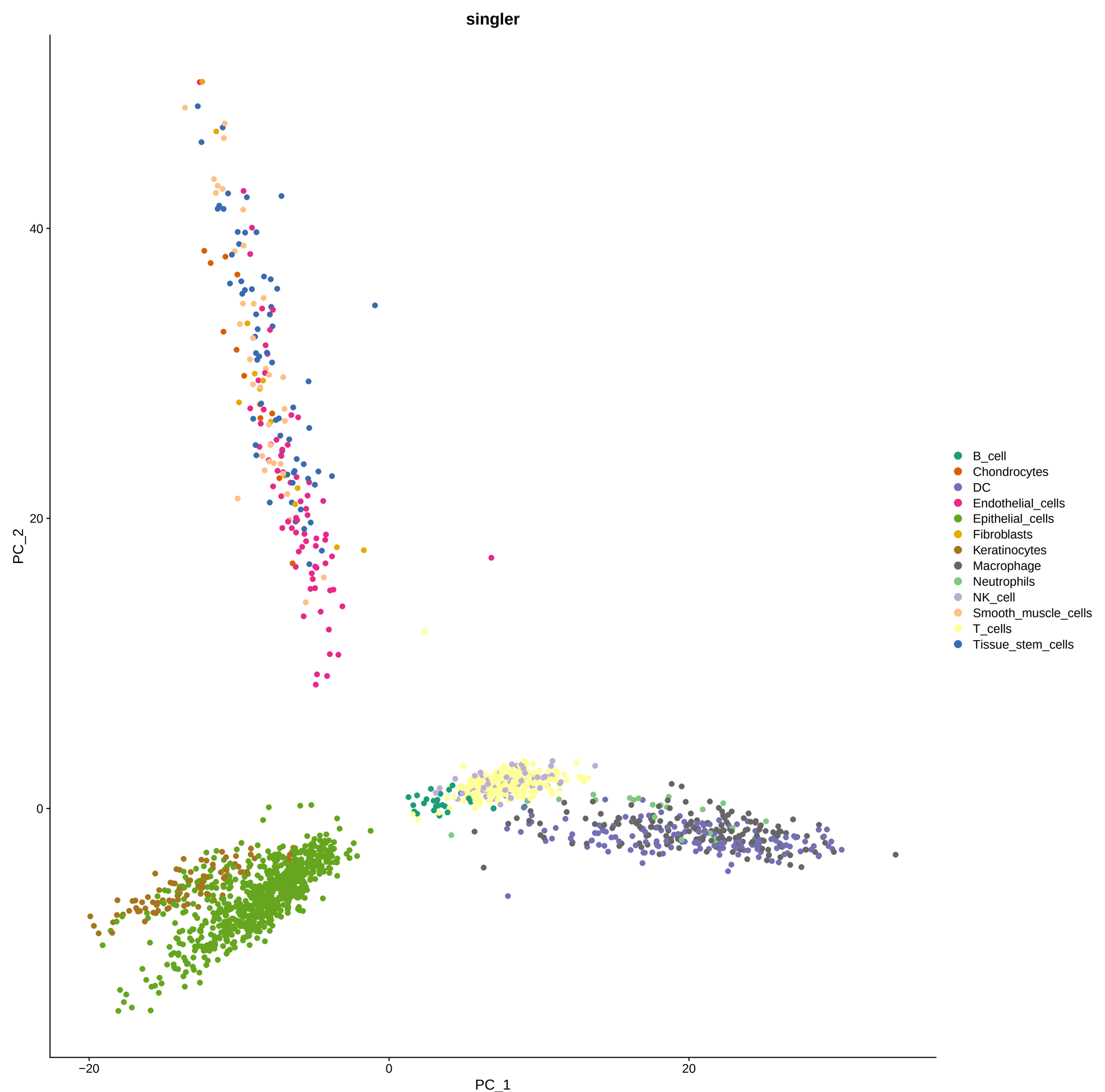
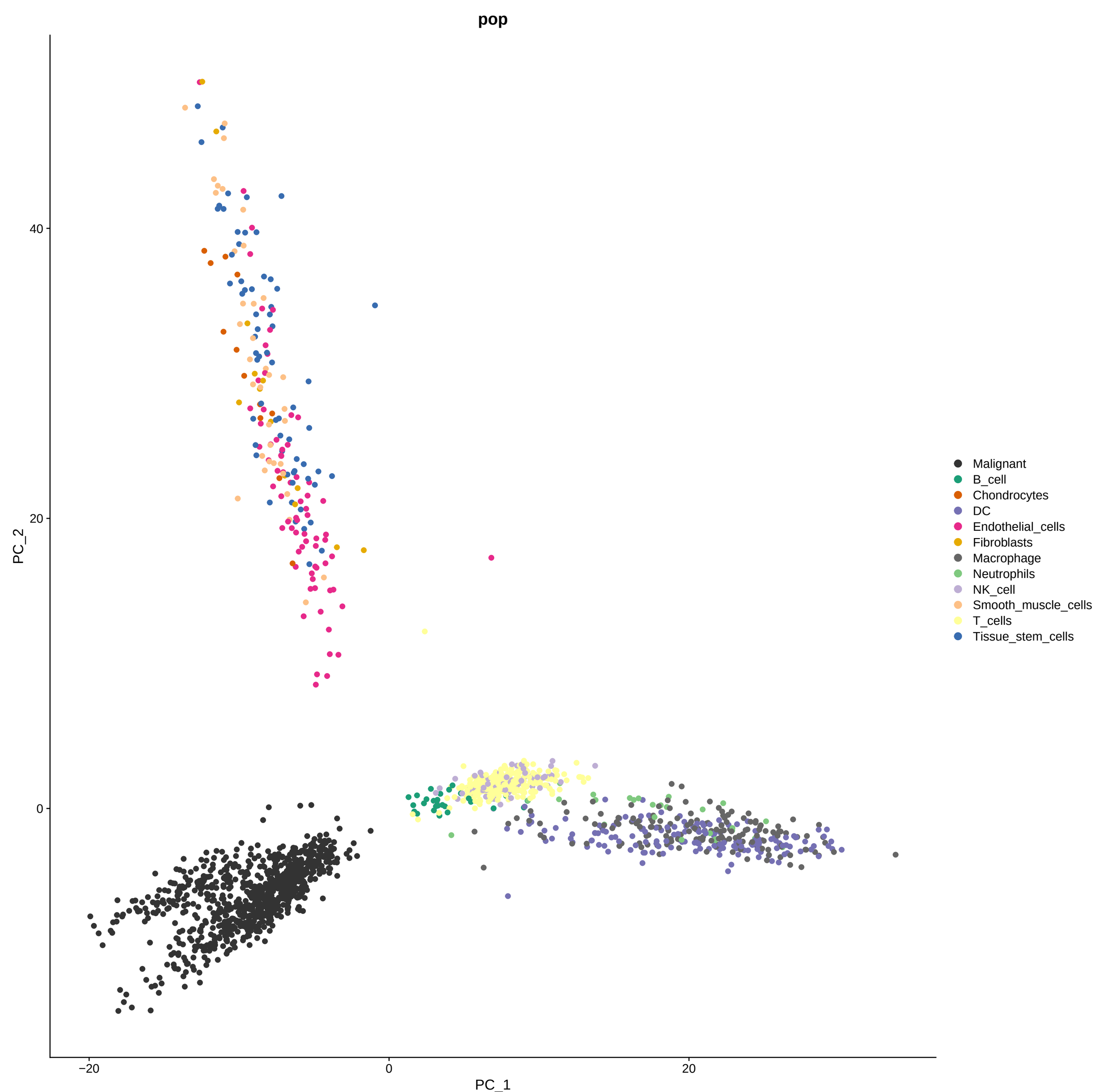
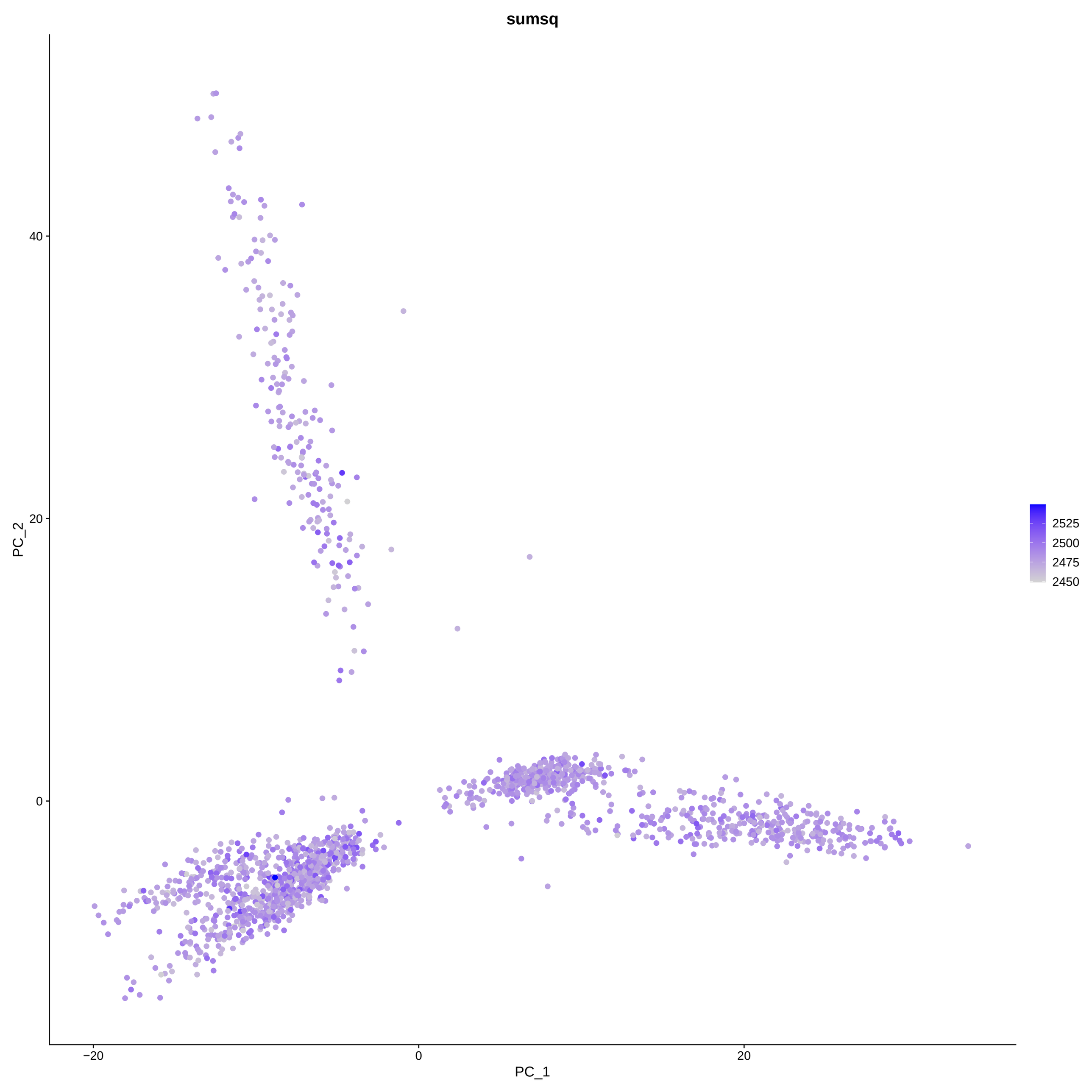
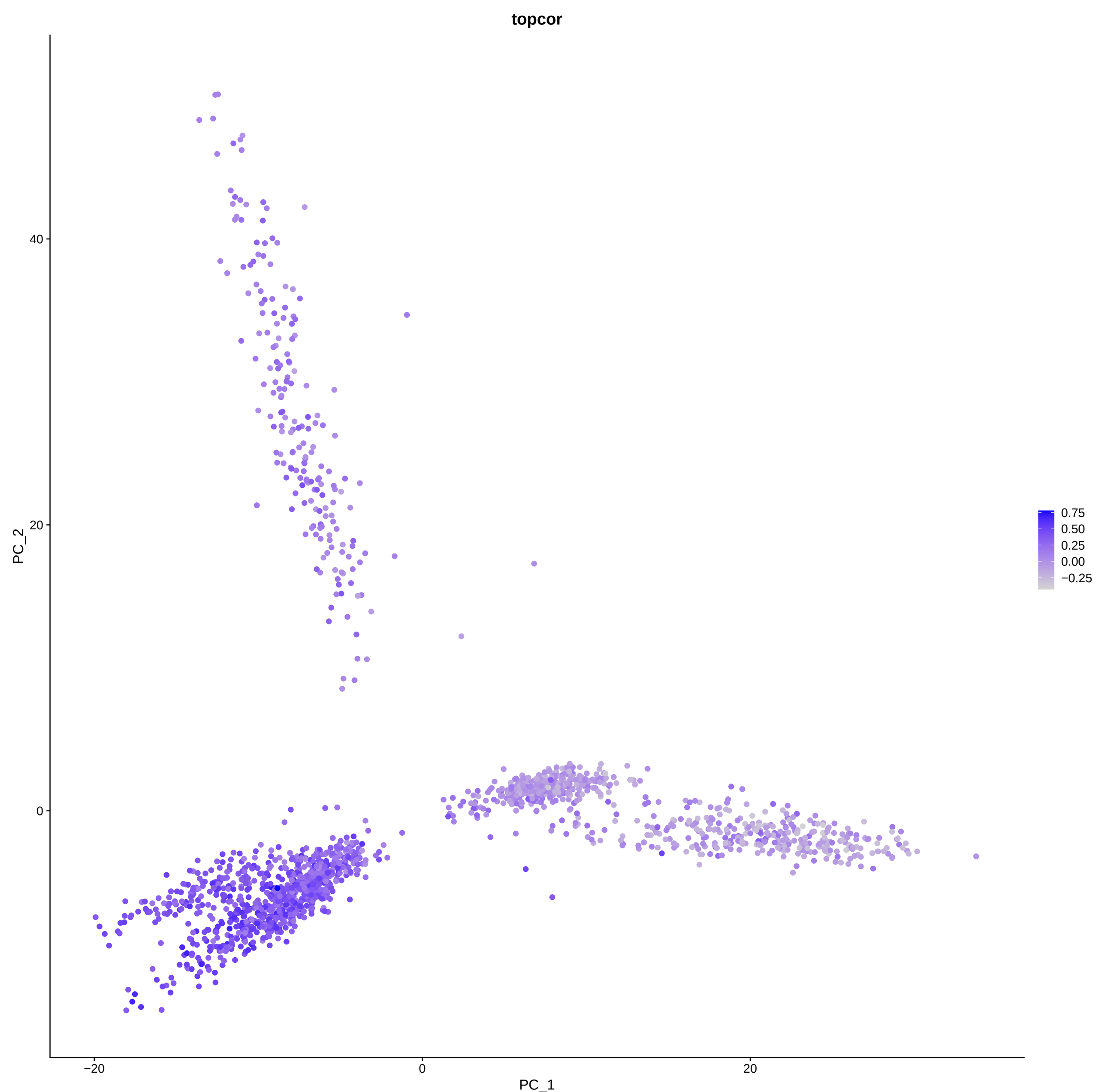
11
12
13


singler
PC_2
40
20
0
−20
0
20
PC_1
B_cell
Chondrocytes
DC
Endothelial_cells
Epithelial_cells
Fibroblasts
Keratinocytes
Macrophage
Neutrophils
NK_cell
Smooth_muscle_cells
T_cells
Tissue_stem_cells


pop
40
20
0
PC_2
−20
0
20
PC_1
Malignant
B_cell
Chondrocytes
DC
Endothelial_cells
Fibroblasts
Macrophage
Neutrophils
NK_cell
Smooth_muscle_cells
T_cells
Tissue_stem_cells

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


sumsq
40
20
0
PC_2
−20
0
20
PC_1
2525
2500
2475
2450


topcor
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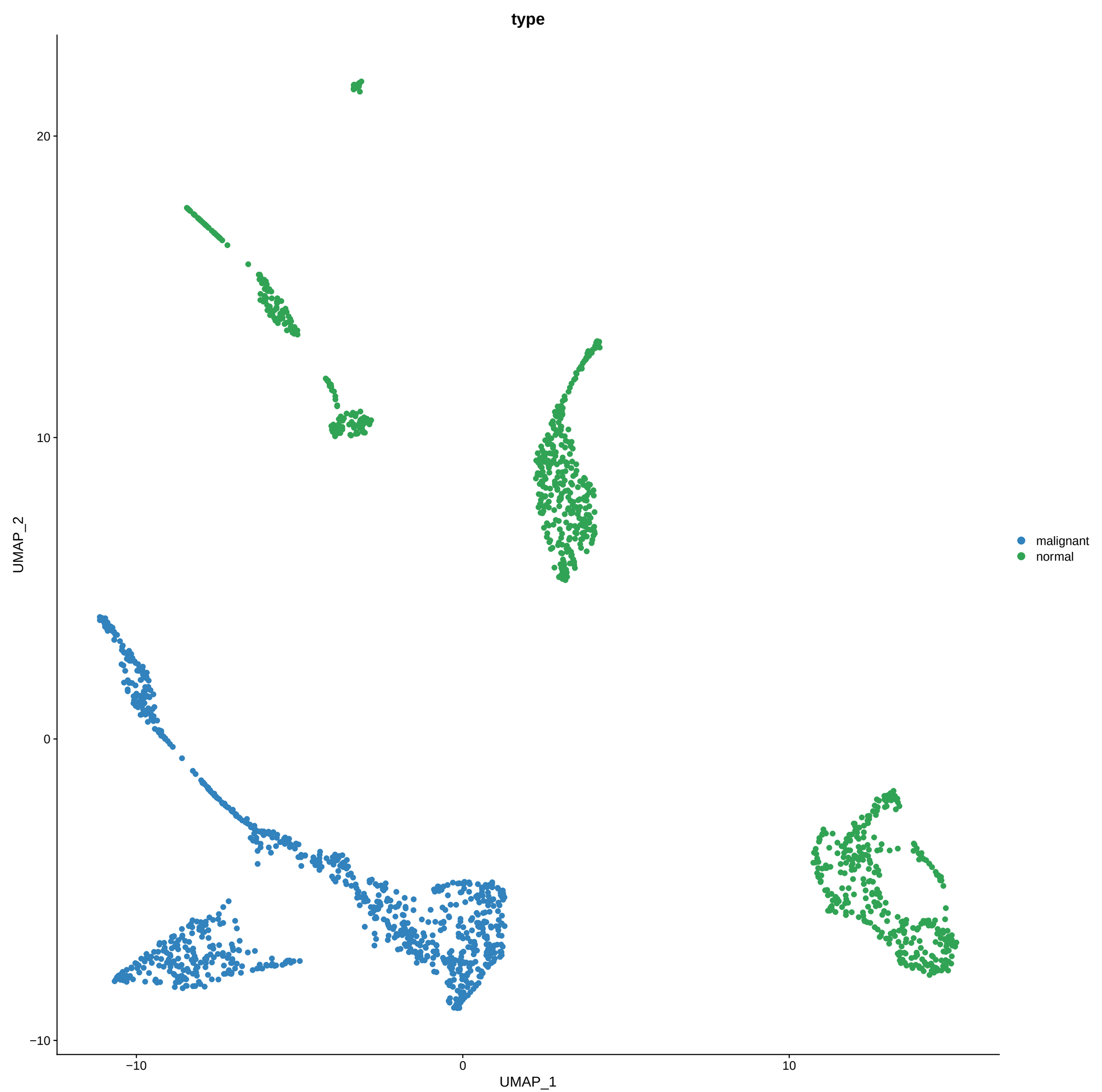
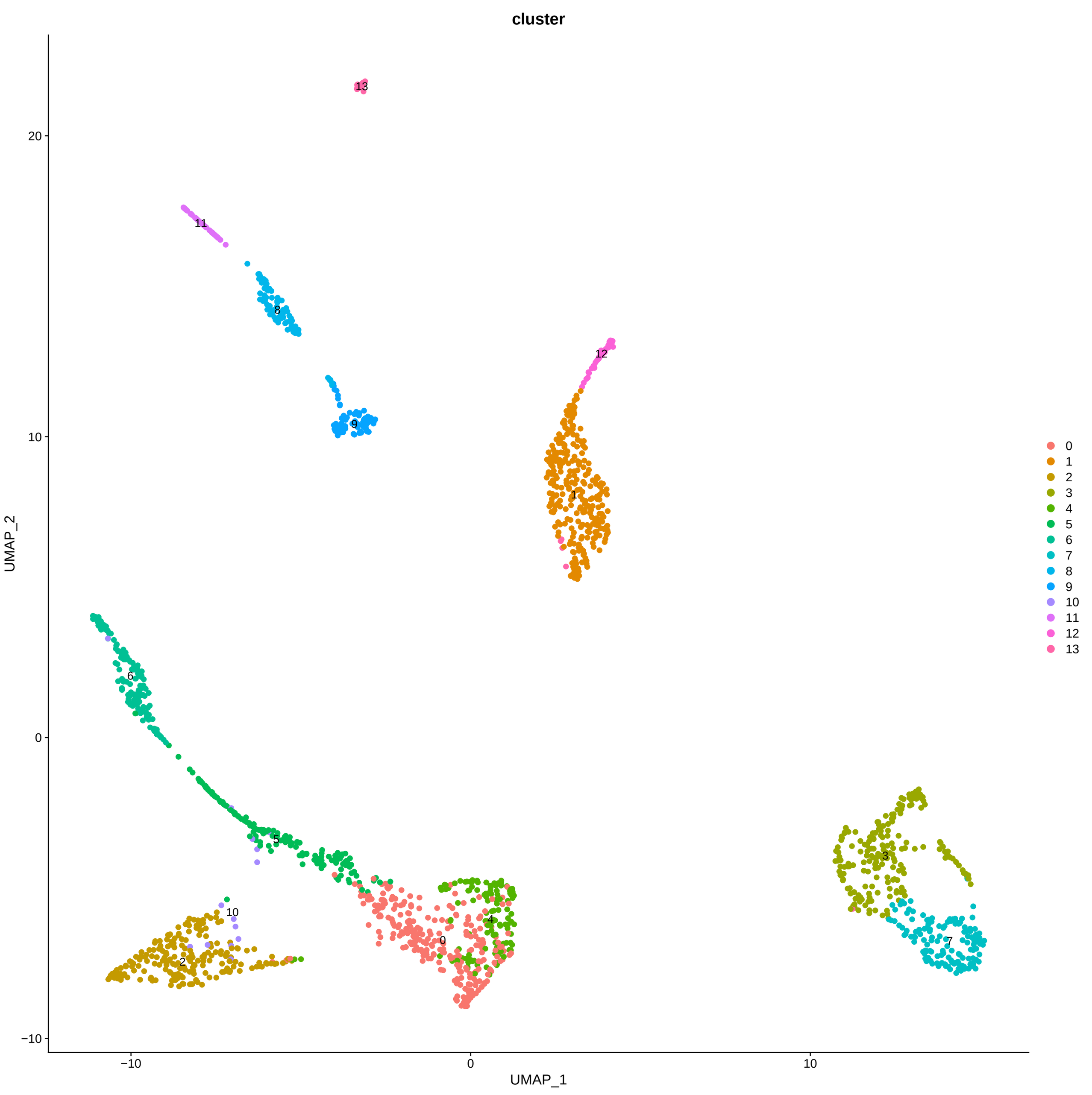
20
0
PC_2
−20
0
20
PC_1
0.75
0.50
0.25
0.00
−0.25


type
malignant
normal
UMAP_2
UMAP_1
20
10
0
−10
−10
0
10


cluster
13
11
8
9
12
1
6
5
10
4
0
2
3
7
20
10
0
−10
UMAP_2
−10
0
10
UMAP_1
0
1
2
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6
7
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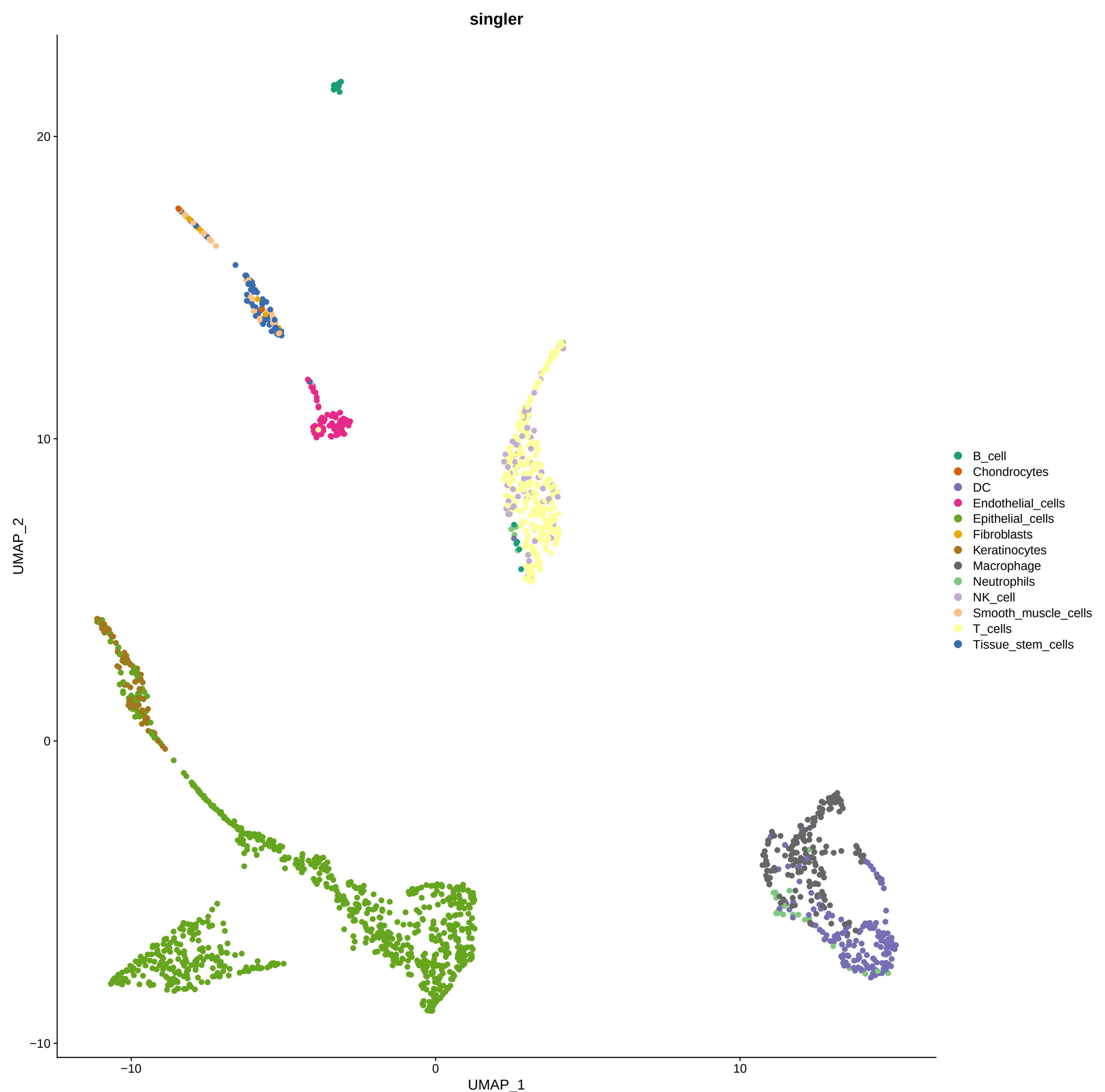
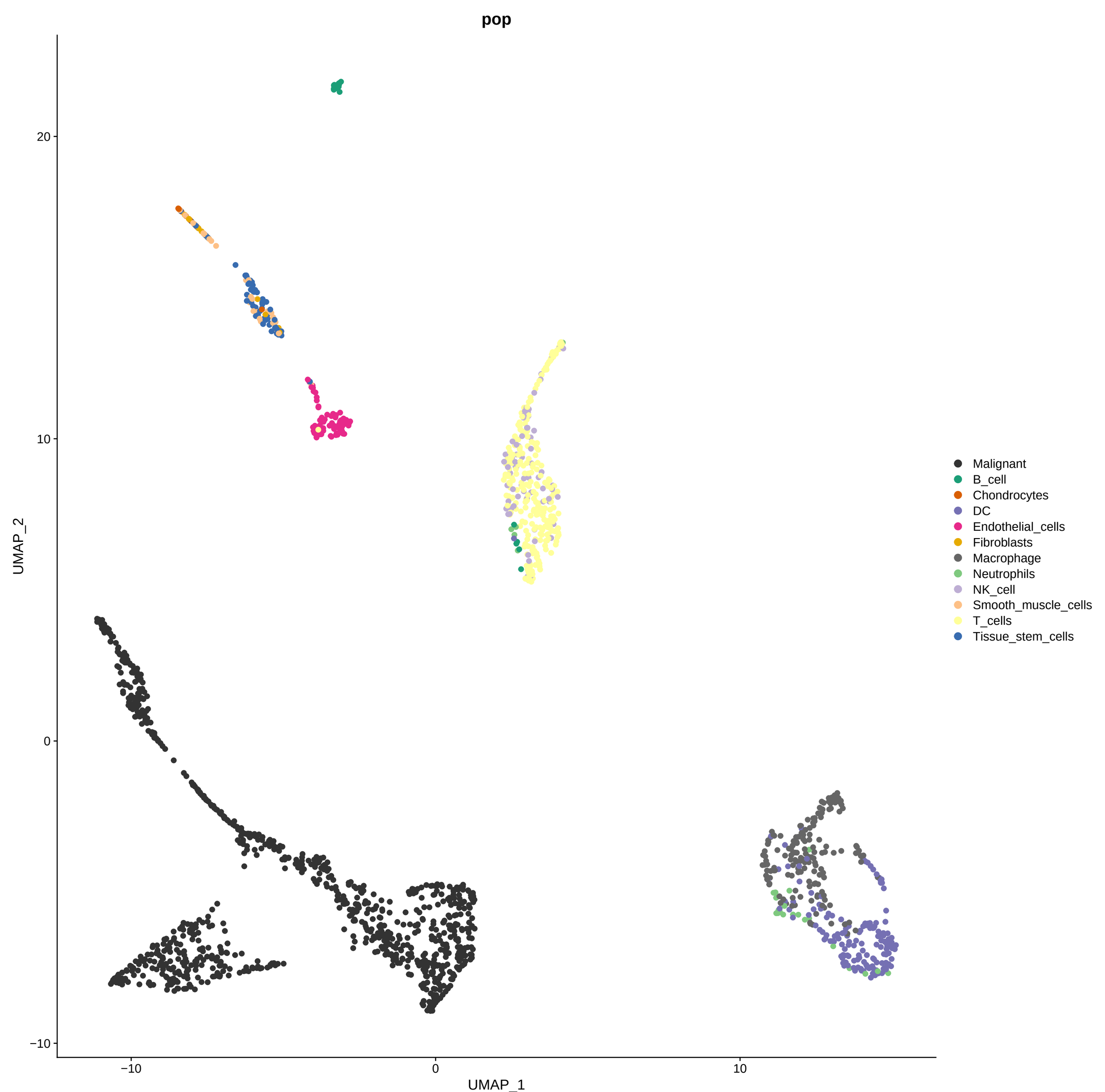
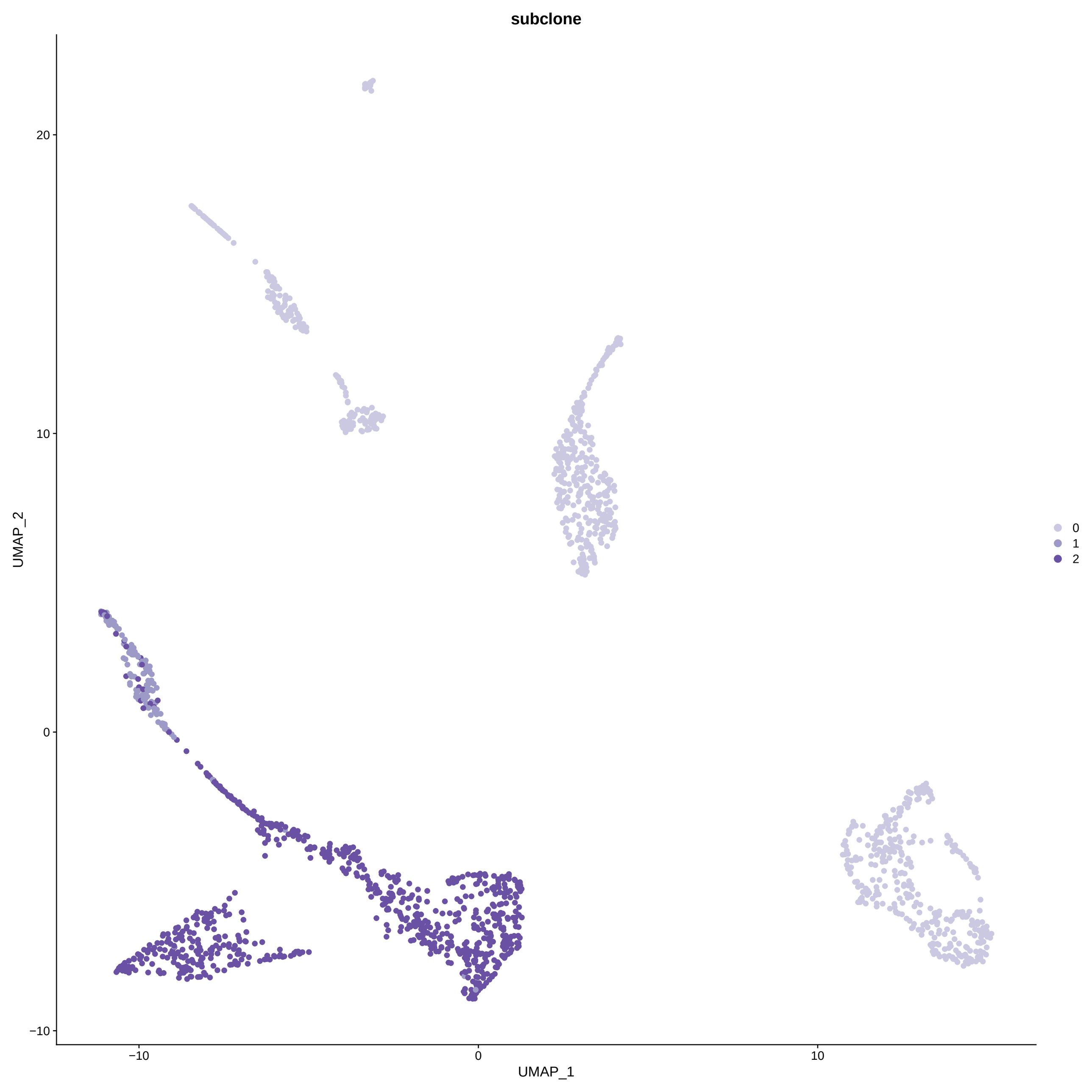
10
11
12
13


singler
20
10
0
−10
UMAP_2
−10
0
10
UMAP_1
B_cell
Chondrocytes
DC
Endothelial_cells
Epithelial_cells
Fibroblasts
Keratinocytes
Macrophage
Neutrophils
NK_cell
Smooth_muscle_cells
T_cells
Tissue_stem_cells


pop
20
10
0
−10
UMAP_2
−10
0
10
UMAP_1
Malignant
B_cell
Chondrocytes
DC
Endothelial_cells
Fibroblasts
Macrophage
Neutrophils
NK_cell
Smooth_muscle_cells
T_cells
Tissue_stem_cells


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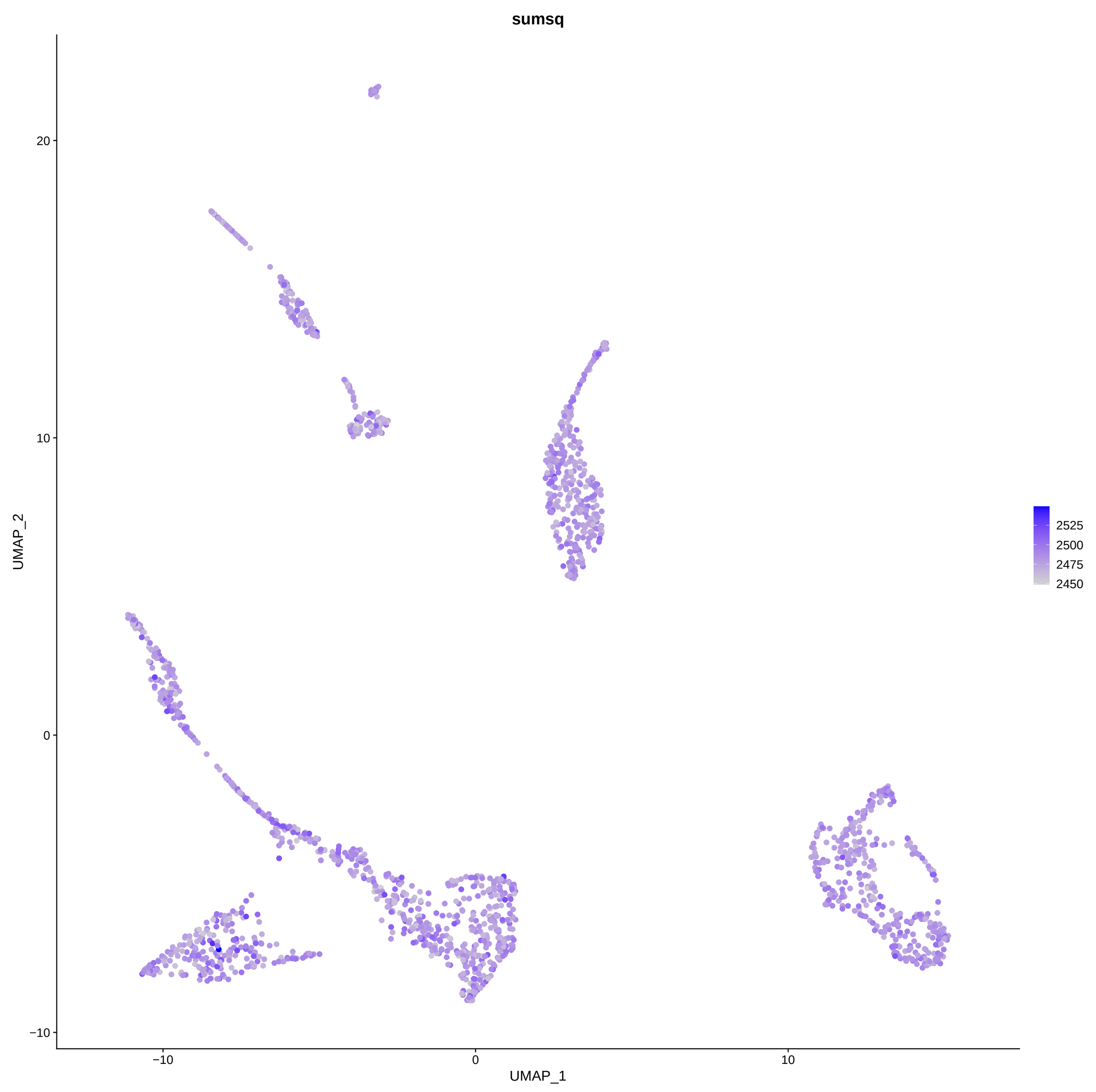
−10
UMAP_2
−10
0
10
UMAP_1
0
1
2


sumsq
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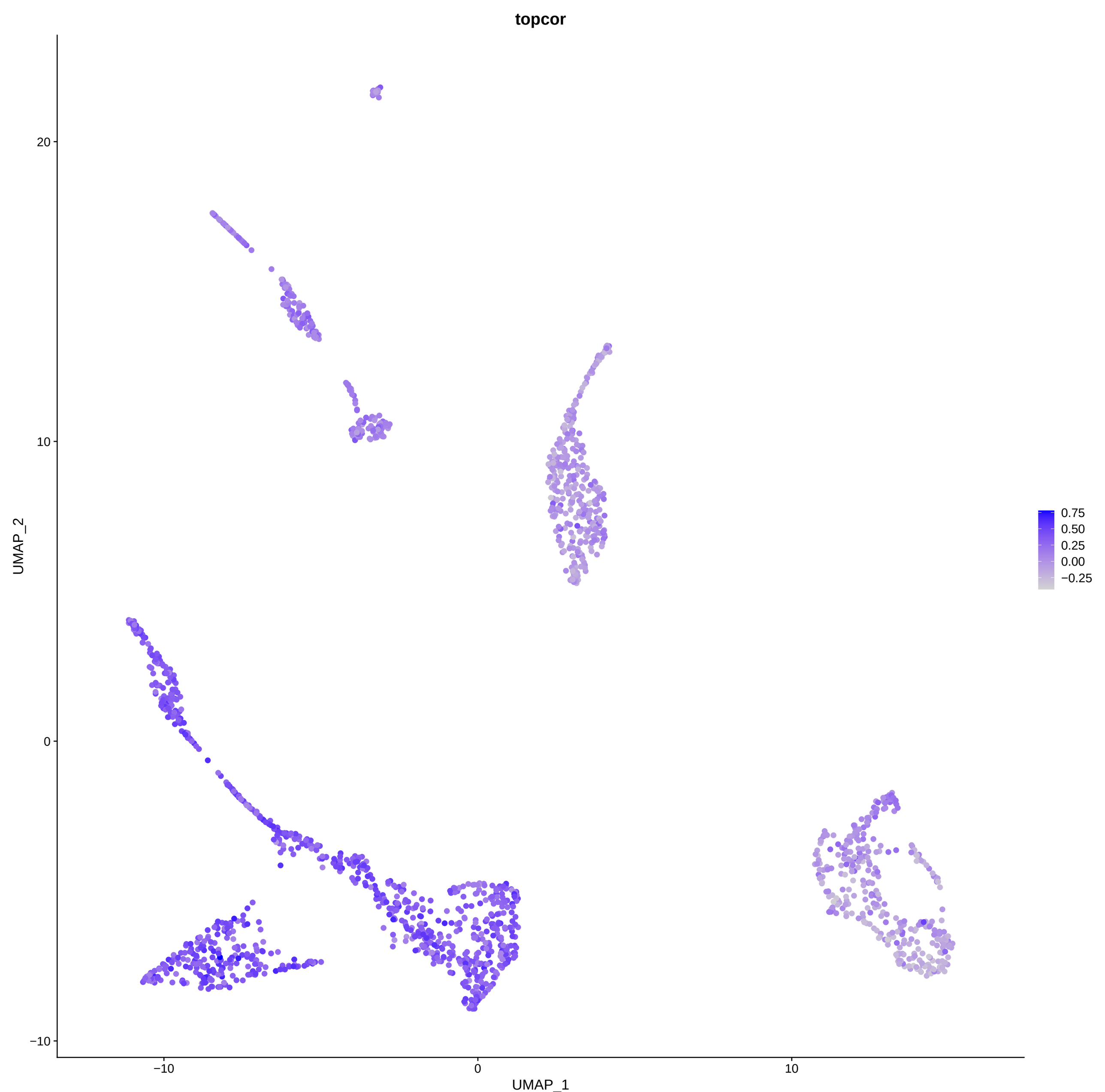
10
0
−10
UMAP_2
−10
0
10
UMAP_1
2525
2500
2475
2450


topcor
20
10
0
−10
UMAP_2
−10
0
10
UMAP_1
0.75
0.50
0.25
0.00
−0.25