

Supplementary Table S4. Clusters identified by imaging mass cytometry that are used in neighborhood analysis

Cluster	Celltype
1	Ki67+
2	PanCK+pNFkB+
3	PanCK+
4	ER+
5	PR+
6	HER2+
7	pS6+PDL1+
8	pS6+
9	PanCK+pS6+
10	Ecad+
11	Collagen+aSMA+
12	aSMA+
13	Collagen+CD31+
14	Collagen+
15	CD31+
16	CD206+
17	CD163+CD14lo
18	CD80+
19	CD86+
20	CD68+
21	CD3+CD4+
22	Foxp3+CD3loCD4lo
23	CD8+CD45+CD3+
24	CD8+
25	Tbet+
26	CD20+
27	CD15+GramZB+
28	CD56+
29	CD45lo
30	Gata3+
31	HLADR+
32	pSTAT1+
33	pSTAT3+
34	Surface-