

Supplementary Table 1. SCAN-B TNBC dataset used for the spatial transcriptomics analyses.

	TMA cores	Unique samples
N	114	65
Lymph node status		
N0	73	42
N+	41	23
Tumor grade		
2	18	10
3	96	55
PAM50 subtype		
Basal-like	89	51
HER2-enriched	17	9
Luminal A	2	1
Luminal B	0	0
Normal-like	6	4
TNBC subtype (Lehmann 4)		
BL1	35	20
BL2	21	13
LAR	25	14
M	31	17
Homologous Recombination status		
Deficient	71	39
Proficient	43	26

Supplementary Table 2. Promoter CpG cassettes identified as linked to immune infiltration by the Boruta algorithm.

Promoter cassette	Total CpGs in cassette	Overlapping genes
Cassette 10	30	GBP4, SAMD9L, CARD16, OAS2, ZBP1, APOL1, LIPA, BATF2
Cassette 36	13	TMEM244, MAP1LC3B2, LOC149684
Cassette 111	10	IL18R1, SPOCK2
Cassette 185	9	TMIGD3, TEX33, IL2RB
Cassette 177	9	ITGB7, LIME1
Cassette 233	8	PCDHGA cluster
Cassette 385	7	MGST1_LMO3
Cassette 332	7	PPP1R36
Cassette 329	7	
Cassette 558	6	GMPPB_AMIGO3_RNF123, GMPPB_RNF123
Cassette 556	6	
Cassette 465	6	MAP3K14-AS1_SPATA32, MAP3K14-AS1
Cassette 682	5	NR3C1, SRGN
Cassette 662	5	DOCK9
Cassette 609	5	CAPG
Cassette 888	4	CEACAM20
Cassette 886	4	
Cassette 867	4	RIPOR2, CD69
Cassette 837	4	
Cassette 802	4	LOC100996842
Cassette 1099	3	CD248
Cassette 1078	3	GPR75-ASB3_GPR75
Cassette 1066	3	CASS4
Cassette 1057	3	
Cassette 1010	3	LONP2_ABCC11, LONP2