

Table S7. The clinicopathological characteristics of 1097 patients in TCGA with breast cancer for analysis were presented.

Parameters		Number of cases	Percentage (%)
Gender	Female	1085	98.9
	Male	12	1.1
Age (years)	≤50	766	69.8
	>50	331	30.2
Pathological type	IDC	784	71.5
	Other	312	28.4
	NA	1	0.1
T classification	T ₁	281	25.6
	T ₂	635	57.9
	T ₃	138	12.6
	T ₄	40	3.6
	TX	3	0.3
	N ₀	516	47.0
N classification	N ₁	364	33.2
	N ₂	120	10.9
	N ₃	77	7.0
	NX	20	2.0
M classification	M ₀	912	83.1
	M ₁	22	2.0
	MX	163	14.9
Clinical stage	I	183	16.7
	II	621	56.6
	III	249	22.7
	IV	20	1.8
	NA	24	2.2
Survival status	Live	945	86.1

	Dead	152	13.9
	Negative	755	68.8
Relapse status	Positive	157	14.3
	NA	185	16.9
	Negative	238	21.7
IHC status of ER	Positive	808	73.7
	NA	51	4.6
	Negative	344	31.4
IHC status of PR	Positive	699	63.7
	NA	54	4.9
	Negative	564	51.4
IHC status of HER2	Positive	164	14.9
	NA	369	33.6

Abbreviation: Invasive ductal carcinoma (IDC), Immunological Histological Chemistry (IHC), Estrogen receptor (ER), Progesterone receptor (PR), Human epidermal growth factor receptor 2 (HER2), Not Available information (NA).