

Table S1 Detailed information of sequenced patients

ID	Sex	Age	Time of operation	Tumor size (cm)	Pathology subtypes	Grade	ER by IHC
1	female	54	2014/2/25	3.1*1.2*1.7	invasive ductal carcinoma	II	Negative
2	female	43	2013/11/7	3.0*3.5*2.1	invasive ductal carcinoma	II	Negative
3	female	59	2014/12/25	2.9*2.4*1.1	invasive ductal carcinoma	II	Negative
4	female	67	2013/11/21	1.8*1.5*1.0	invasive ductal carcinoma	II	Negative
5	female	48	2014/10/20	2.8*2.4*1.6	invasive ductal carcinoma	III	Negative
6	female	66	2014/7/1	5.6*4.0*4.2	invasive ductal carcinoma	III	Negative
7	female	52	2014/12/22	3.7*3.5*1.8	invasive ductal carcinoma	III	Negative

Abbreviations:ER, estrogen receptor;PR, progesterone receptor;HER-2, human epidermal receptor;IHC,histologically and immunohisto

PR by IHC	HER2 status by IHC	FISH of HER2	Stage
Negative	++	Positive	II A
Negative	+++	Positive	II A
Negative	+++	Positive	II A
Negative	+++	Positive	IIIA
Negative	+++	Positive	IIIA
Negative	+++	Positive	IIIA
Negative	+++	Positive	IIIC

ochemistry;FISH, fluorescence in situ hybridization;