

Supplementary Table 1 Clinicopathological features of the three cohorts examined

(A) Multi-gene assay (MGA)-cohort

Variable	MGA-cohort (n = 51)		
Age, mean [range], y		52.0	[31-76]
Histology	NST	45	(88)
	Others -	6	(12)
	ILC	3	
	IMPC	2	
	ICC	1	
pT, mean [range], mm		25.0	[8-75]
pN	Positive	25	(49)
	Negative	26	(51)
pStage	I	17	(33)
	II	31	(61)
	III	3	(6)
Tumour grade	High	9	(18)
	Intermediate/low	42	(82)
Ki67 L.I., mean [range],%		39.2	[5-80]
ER	Positive	51	(100)
	Negative	0	(0)
PgR	Positive	51	(100)
	Negative	0	(0)

Values are n (%) unless otherwise indicated.

NST no special type, *ILC* invasive lobular carcinoma, *IMPC* invasive micropapillary carcinoma, *ICC* invasive cribriform carcinoma, L.I. labelling index, ER estrogen receptor, PgR progesterone receptor

(B) Neoadjuvant chemotherapy (NAC)-cohort

Variable	NAC-cohort (n = 96)	
Age, mean [range], y	51.8	[22-78]
Histology	NST	92 (96)
	Others -	4 (4)
	ILC	4
ypT, mean [range], mm	28.7	[0-110]
ypN	Positive	61 (64)
	Negative	35 (36)
ypStage	0	5 (5)
	I	17 (18)
	II	50 (52)
	III	24 (25)
Tumour grade	High	10 (10)
	Intermediate/low	85 (89)
	Unknown	1 (1)
Ki67 L.I., mean [range],%	24.8	[2-90]
ER	Positive	96 (100)
	Negative	0 (0)
PgR	Positive	69 (72)
	Negative	26 (27)
	Unknown	1 (1)
NAC regimen	A+T	90 (94)
	A alone	5 (5)
	T alone	1 (1)

Values are n (%) unless otherwise indicated.

NST no special type, *ILC* invasive lobular carcinoma, *L.I.* labelling index,

ER estrogen receptor, *PgR* progesterone receptor, *A* anthracycline, *T* taxane

(C) Tissue microarray (TMA)-cohort

Variable	TMA-cohort (n = 609)	
Age, mean [range], y	56.3	[28-93]
Histology		
NST	507	(83.2)
Others -	102	(16.8)
ILC	52	
Mucinous	31	
IMPC	7	
ICC	4	
Tubular	4	
Apocrine	2	
Medullary	1	
Squamous	1	
pT, mean [range], mm	27.6	[2-139]
pN		
Positive	232	(38)
Negative	333	(55)
Not evaluated	44	(7)
pStage		
I	186	(31)
II	355	(58)
III	68	(11)
Tumour grade		
High	72	(12)
Intermediate/low	494	(81)
Not evaluated	43	(7)
Ki67 L.I., mean [range],%	32.8	[0-100]
ER		
Positive	605	(99)
Negative	4	(1)
PgR		
Positive	556	(91)
Negative	53	(9)
Adjuvant chemotherapy		
Yes	205	(34)
No	404	(66)

NST no special type, *ILC* invasive lobular carcinoma, *IMPC* invasive micropapillary carcinoma, *ICC* invasive cribriform carcinoma, L.I. labelling index, ER estrogen receptor, PgR progesterone receptor