

Table S1. Distributions of Patient and Tumor Characteristics in Cohort 1 and Cohort 2 by R function

sample()

Characteristics	R function sample()		
	Cohort 1	Cohort 2	p value
Age, median (range), years	57 (24-92)	56 (26-93)	
Pathology, No. (%)			0.43
IDC	552 (87.6%)	540 (85.9%)	
ILC	22 (3.5%)	31 (4.9%)	
Others	56 (8.9%)	58 (9.2%)	
Tumor Size, No. (%)			0.51
pT1	435 (69.0%)	415 (66.0%)	
pT2-3	175 (27.8%)	192 (30.5%)	
pTx	20 (3.2%)	22 (3.5%)	
Nodal status, No. (%)			0.25
pN0-mic	540 (85.7%)	551 (87.6%)	
pN1	88 (14.0%)	73 (11.6%)	
pNx	2 (0.3%)	5 (0.8%)	
Grade, No. (%)			0.33
G1-2	419 (76.0%)	399 (73.5%)	
G3	132 (24.0%)	144 (26.5%)	
ER expression, No. (%)			0.29
<50%	54 (8.6%)	65 (10.3%)	
≥50%	576 (91.4%)	564 (89.7%)	
PR expression, No. (%)			0.79
<20%	234 (37.1%)	229 (36.4%)	
≥20%	396 (62.9%)	400 (63.6%)	
Ki67 by IHC, No. (%)			0.84

≤14%	331 (52.5%)	327 (52.0%)	
>14%	299 (47.5%)	302 (48.0%)	
Ki67 by RT-PCR, No. (%)			0.15
≤5.68	418 (66.3%)	393 (62.5%)	
>5.68	212 (33.7%)	236 (37.5%)	
Intrinsic subtype, No. (%)			0.62
Luminal A-like	197 (31.3%)	205 (32.6%)	
Luminal B-like	433 (68.7%)	424 (67.4%)	
Recurrence Score result, No. (%)			0.81
<11	51 (8.1%)	50 (7.9%)	
11-25	309 (49.0%)	298 (47.4%)	
>26	270 (42.9%)	281 (44.7%)	
Adjuvant chemotherapy, No. (%)			0.59
Received	323 (51.4%)	313 (49.8%)	
Not received	306 (48.6%)	315 (50.2%)	

Table S2. Kaplan-Meier Estimates of Disease-free Survival at 3 Years According to Ki67 by IHC and by RT-PCR in Cohort 1 and Cohort 2 by R Function Sample()

Biomarker	3-year estimated DFS		LR- $\Delta\chi^2$	Log-rank p
	Low expression	High expression		
(1) Cohort 1				
Ki67 by RT-PCR (≤ 5.68 vs > 5.68)	97.6%	89.4%	16.43	<0.001
Ki67 by RT-PCR (≤ 5.69 vs > 5.69)	96.9%	90.3%	12.12	<0.001
(2) Cohort 2				
Ki67 by RT-PCR (≤ 5.68 vs > 5.68)	96.3%	91.3%	3.72	0.053
Ki67 by RT-PCR (≤ 5.69 vs > 5.69)	96.3%	91.3%	3.73	0.053

Table S3. Univariate Cox Proportional Hazards Analyses for Disease-free Survival in Cohort 1 and Cohorts 2 by R function sample()

Variables	coding	HR	95%CI		p
			Lower	Upper	
(1) Cohort 1					<0.001
Ki67 by RT-PCR	>5.68 vs ≤5.68	3.673	1.876	7.193	
(2) Cohort 2					0.011
Tumor stage	T2-3 vs T1	2.228	1.205	4.119	

Figure S1 Kaplan-Meier Estimates of Disease-free Survival by Ki67 Expression by RT-PCR in Cohorts

divided by R function sample()

Using 5.68 as Cut Point, Disease-free Survival by RT-PCR Assessment of Ki67 in Cohort 1 (A), and in

Cohort 2 (B). Using 5.69 as Cut Point, Disease-free Survival by RT-PCR Assessment of Ki67 in Cohort 1

(C), and in Cohort 2 (D).

