

Table S4. TCGA patients' characteristics (n=65)

Variable	n	%
<b>Age at diagnosis (years)</b>		
Mean $\pm$ sd	53.0 $\pm$ 11.7	
Min - max	27.0 – 84.0	
<b>Ethnicity</b>		
Hispanic or latino	2	3.7
Not hispanic or latino	52	96.3
missing	11	
<b>Race</b>		
American indian or Alaska native	1	1.6
Black or african american	17	27.9
White	43	70.5
missing	4	
<b>Cancer type</b>		
Breast invasive carcinoma (NOS)	1	1.5
Breast invasive ductal carcinoma	56	86.2
Breast invasive lobular carcinoma	8	12.3
<b>Tumor type</b>		
Infiltrating ductal carcinoma	56	86.2
Infiltrating lobular carcinoma	8	12.3
Other	1	1.5
<b>Subtype</b>		
BRCA-basal	5	8.3
BRCA-Her2	23	38.3
BRCA-Lum A	15	25.0
BRCA- Lum B	17	28.3
missing	5	
<b>M</b>		
CM0 (I+)	1	1.5
M0	53	81.5
MX	11	16.9
<b>N</b>		
N0	14	21.5
N0(I-)	12	18.5
N0(I+)	2	3.1
N1	8	12.3
N1A	7	10.8
N1B	2	3.1
N1M1	2	3.1
N2	3	4.6
N2A	8	12.3
N3	2	3.1
N3A	5	7.7

<b>T</b>		
T1	2	3.1
T1C	11	16.9
T2	42	64.6
T3	9	13.9
T4D	1	1.5
<b>Stage</b>		
I	5	7.7
IA	3	4.6
IIA	21	32.3
IIB	15	23.1
IIIA	14	21.5
IIIC	7	10.8
<b>Agent</b>		
Docetaxel	28	43.1
Paclitaxel	37	56.9
<b>Ki-67 (mRNA)</b>		
Median (IQ - IIIQ)	2146.3 (1743.3 – 3342.5)	
Min - max	200.5 – 8098.8	
<b>Ki-67 (prot)</b>		
Median (IQ - IIIQ)	-0.18 (-0.5 – 0.5)	
Min - max	-1.2 – 0.7	
missing	53	
<b>HADAC6</b>		
Median (IQ - IIIQ)	1064.9 (904.7 – 1213.2)	
Min - max	420.8 – 4100.3	

NOS: no special type; T, N, M are referred to the TNM staging system. T: size of primary tumor;  
N: lymph nodes involvement; M: distant metastasis.