Supplementary Tables

P values	MDA-MB-231		MCF7		MCF-12A	
	UP	DOWN	UP	DOWN	UP	DOWN
<i>P</i> < 0.05	4284	3679	3993	4634	2981	2321
<i>P</i> < 0.01	4253	3654	3903	4531	2868	2074
<i>P</i> < 0.001	3832	3282	3044	3061	2081	1309
<i>P</i> < 0.0001	2346	1823	1896	1329	985	389

 Table S1. Number of probe sets affected by AZA treatment

*Numbers of probe sets under given *P* values were determined with class comparison tool of BRB-ArrayTools, which uses random variance model of unpaired t-test. 1.5-fold threshold was used.

Table S2. Comparison of significantly altered probe sets with the independent study

 GSE20713 Dataset

Gene lists	Total ^a	Significantly Altered in GSE 20713 ^b
MCF7 UP	1145	431 (37.6%)
MCF7 DOWN	1876	799 (42.6%)
MDA-MB-231 UP	913	250 (27.4%)
MDA-MB-231 DOWN	1447	533 (36.8%)
COMMON UP	198	106 (53.5%)
COMMON DOWN	262	180 (68.7%)

^a Total number of up/downregulated probe sets by AZA in indicated cell lines, but not in MCF12A, by 1.5-fold, at P < 0.05 in our set up. ^b Number (and percentage) of up/downregulated probe sets also in GSE20713 dataset, P < 0.05, by paired t-test.

Study	y Cancerous tissue being compared to Normal		Fold Change	Gene Rank (Top % genes)	
Richardson Breast 2 (n = 47)	Ductal Breast Carcinoma	1.03E-12	-5.92	0.3	
Turashvili Breast (n = 30)	Invasive Lobular Breast Carcinoma Invasive Ductal Breast Carcinoma	8.20E-04 1.50E-02	-2.26 -2.95	0.4	
Ma Breast 4 (n = 66)	Ductal Breast Carcinoma in Situ Epithelia Invasive Ductal Breast Carcinoma Epithelia	2.90E-07 4.01E-05	-2.78 -2.28	0.4	
TCGA Breast (n = 593)	Mucinous Breast Carcinoma Invasive Ductal Breast Carcinoma Invasive Breast Carcinoma Mixed Lobular and Ductal Breast Carcinoma Intraductal Cribriform Breast	9.64E-07 3.48E-38 1.69E-19 8.86E-06	-2.37 -2.70 -2.32 -2.35	1.2 1.5 3.1 3.2	
	Adenocarcinoma Invasive Ductal and Lobular Carcinoma	4.10E-02 4.10E-02	-3.10 -2.55	21 23.9	
Sorlie Breast (n = 85)	Lobular Breast Carcinoma Ductal Breast Carcinoma	3.80E-02 3.00E-02	-2.15 -2.13	6.8 15.4	
Perou Breast (n = 65)	Ductal Breast Carcinoma	1.10E-02	-2.10	8.6	
Curtis Breast (n = 2 136)	Invasive Ductal Breast Carcinoma Medullary Breast Carcinoma	7.15E-50 1.29E-09	-2.30 -3.37	4.7	
	Mucinous Breast Carcinoma Invasive Lobular Breast Carcinoma Breast Carcinoma Invasive Breast Carcinoma	9.39E-14 2.05E-21 5.77E-05 1.68E-04	-2.59 -2.06 -2.68 -2.62	7.5 7.8 8.5 12.0	
Finak Breast (n = 59)	Invasive Breast Carcinoma Stroma	2.65E-05	-3.84	33.4	

Table S3. Cancer vs. normal analysis of TAGLN mRNA in Oncomine database