

Supplementary Table S1. Methylation frequencies of analysed genes in breast cancer (BC) tumors, control samples and BC subtypes.

Gene	Methylated BC (n/N)	Sensitivity, %	Methylated controls (n/N)	Specificity, %	P-value	LA, % (n/N)	LB, % (n/N)	HER2+, % (n/N)	TN, % (n/N)
<i>PRKCB</i>	86/111	77	0/29	100	< 0.0001	85 (46/54)	83 (19/23)	83 (15/18)	38 (6/16)
<i>RASSF1</i>	79/115	69	4/29	86	< 0.0001	78 (43/55)	65 (15/23)	67 (14/21)	44 (7/16)
<i>ADAMTS12</i>	67/107	63	2/29	93	< 0.0001	65 (34/52)	68 (15/22)	71 (12/17)	38 (6/16)
<i>APC</i>	61/115	53	0/29	100	< 0.0001	56 (30/54)	50 (12/24)	71 (15/21)	25 (4/16)
<i>RUNX3</i>	46/114	40	0/29	100	< 0.0001	41 (22/54)	48 (11/23)	57 (12/21)	6 (1/16)
<i>ESR1-1</i>	51/116	44	2/29	93	0.0002	47 (26/55)	50 (12/24)	38 (8/21)	36 (5/14)
<i>MGMT</i>	28/116	24	0/28	100	0.002	22 (12/55)	25 (6/24)	29 (6/21)	25 (4/16)
<i>GSTP1</i>	24/116	21	0/29	100	0.004	20 (11/55)	21 (5/24)	33 (7/21)	6 (1/16)
<i>MTIE</i>	40/113	35	4/29	86	0.026	31 (17/55)	39 (9/23)	21 (4/19)	63 (10/16)
<i>RARB</i>	22/116	19	1/29	97	0.046	18 (10/55)	25 (6/24)	14 (3/21)	19 (3/16)
<i>ESR1-4</i>	63/111	57	11/29	62	0.095	57 (30/53)	63 (15/24)	65 (13/20)	36 (5/14)
<i>MTIG</i>	39/112	35	6/29	79	0.184	37 (20/54)	45 (10/22)	35 (7/20)	13 (2/16)
<i>DAPK1</i>	17/116	15	7/29	76	0.262	16 (9/55)	13 (3/24)	19 (4/21)	6 (1/16)
<i>FILIP1L</i>	53/102	52	18/28	36	0.288	42 (21/50)	57 (12/21)	38 (6/16)	93 (14/15)
<i>NAALAD2</i>	61/108	56	13/28	54	0.401	56 (29/52)	64 (14/22)	50 (9/18)	56 (9/16)
<i>P16</i>	4/116	3	0/29	100	0.584	2 (1/55)	8 (2/24)	5 (1/21)	0 (0/16)
<i>MTIF</i>	2/110	2	0/29	100	1.0	4 (2/54)	0 (0/22)	0 (0/18)	0 (0/16)
<i>P14</i>	3/115	3	0/29	100	1.0	4 (2/54)	4 (1/24)	0 (0/18)	0 (0/16)

Abbreviations: LA – Luminal A, LB – Luminal B, HER2+ – HER2 positive and Luminal B HER2 positive, TN BC – triple negative BC.