

Supplementary Table 2. Frequency of recurrent genomic alterations in ER+/HER2- tumors stratified according to MKS and ERS status in TCGA

Mutation	Overall (n = 640)	MKS ^{lo} /ERS ^{hi} (n = 209)	MKS ^{lo} /ERS ^{lo} (n = 129)	MKS ^{hi} /ERS ^{hi} (n = 146)	MKS ^{hi} /ERS ^{lo} (n = 156)	p-value
PIK3CA	39%	52%	33%	32%	33%	6.47 x 10 ⁻⁵
TP53	17%	6%	12%	16%	34%	8.28 x 10 ⁻¹¹
CDH1	15%	19%	19%	9%	11%	0.013
GATA3	13%	9%	16%	14%	15%	0.150
MAP3K1	9%	15%	5%	11%	4%	5.85 x 10 ⁻⁴
MLL3	7%	12%	3%	8%	4%	0.0091
MUC12	5%	4%	7%	3%	6%	0.401
MAP2K4	5%	5%	2%	8%	3%	0.119
NCOR1	4%	5%	7%	3%	3%	0.315
SPEN	4%	5%	5%	3%	3%	0.733
MUC4	4%	1%	7%	5%	4%	0.057
PTEN	4%	5%	5%	1%	5%	0.088
DMD	4%	2%	2%	3%	8%	0.054
RUNX1	4%	4%	7%	3%	1%	0.081
TBX3	3%	4%	2%	5%	2%	0.196