



Supplementary Table S1

Cell Line	Origin	Mutations
HCC1954	Breast ductal carcinoma, <i>HER2</i> amplified	PI3K ^{H1047R} , P53 ^{Y163C}
SKBR3	Breast adenocarcinoma, pleural effusion, <i>HER2</i> amplified	P53 ^{R175H}
MFE-296	Endometrial adenocarcinoma	FGFR2 ^{N550K, K310R} , PTEN ^{P130Q, N323fs*} , PI3K ^{P539R, I20M}
ANC3A	Endometrial adenocarcinoma, lymph node metastasis	FGFR2 ^{N550K, K310R} , PTEN ^{R130fs*1} , p85 α ^{R557_D560del}

Supplementary Table S2

Primer Pair	Forward Primer	Reverse Primer
Control	CCCATGGGAATGCCTTGTCT	TGCCCTTCAATCTTCACGCT
PHLDA1_1	CGTCCCACCTTCCTCAAGTCC	TCTCGGAGGGTTCTTAGCCA
PHLDA1_2	TCAAGTGTGCAAAGCTCTCG	GGCCTTTTGACTGATTTGTGAGT
PHLDA1_3	TTGAATGGGCCATCTTCCCC	CCAAGTTAATGAGGCGTGCG
PHLDA1_4	CTCCATACAGGAGCCGAACC	CGGGCAAGACAAGGTAAGGT
PHLDA1_5	CCCGTCTTCGGCTTTCTTCT	AGATCTGGCTAGGCCTTGGA
PHLDA1_6	TCCAAC TGCTTACTGCCGAA	AGTGTTCCCTTGCCTGGTATG
PHLDA1_7	CATGATTCCGGTGGCCCTAT	CCCTCTTGGTGGCTGGATTT