

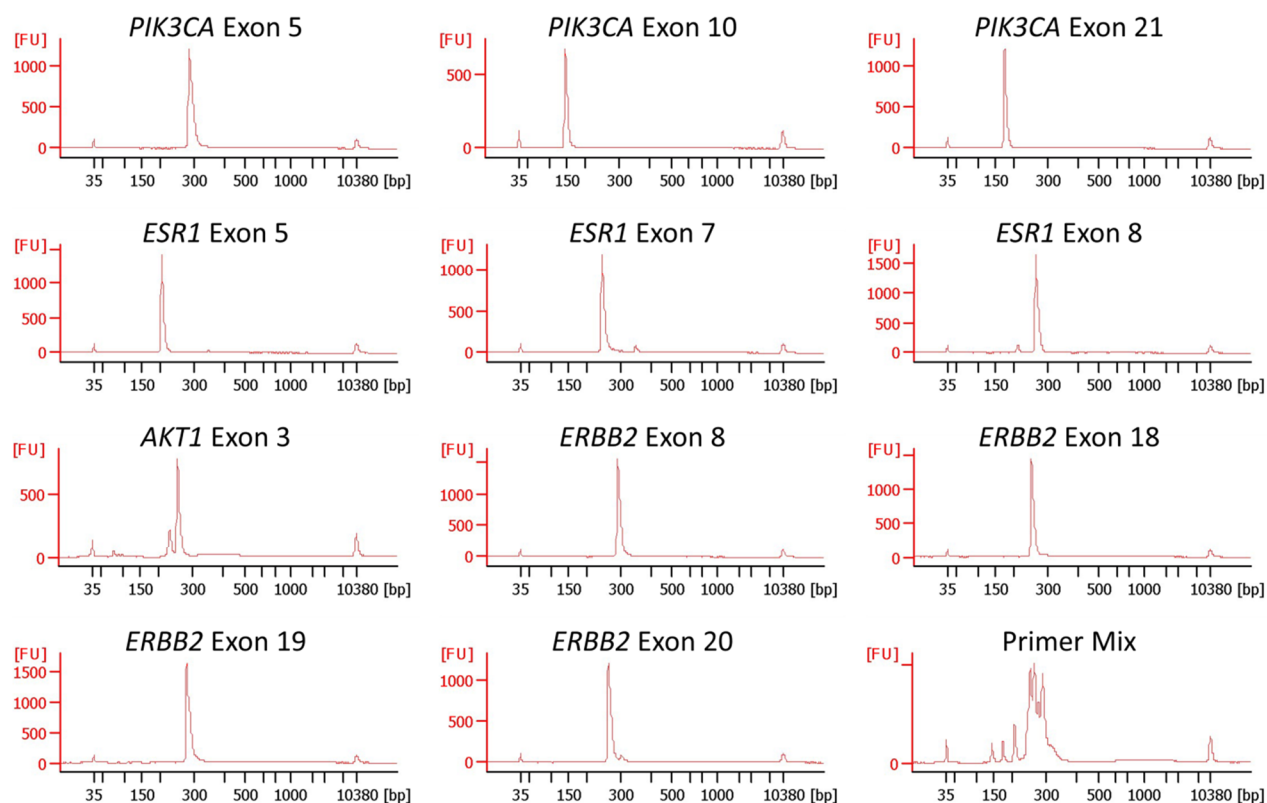
Supplemental Table S1: Primer concentrations used in first PCR.

Primer	concentration [nM]
<i>PIK3CA</i> Exon 5, forward	20
<i>PIK3CA</i> Exon 5, reverse	20
<i>PIK3CA</i> Exon 10, forward	30
<i>PIK3CA</i> Exon 10, reverse	30
<i>PIK3CA</i> Exon 21, forward	20
<i>PIK3CA</i> Exon 21, reverse	20
<i>ESR1</i> Exon 5, forward	20
<i>ESR1</i> Exon 5, reverse	20
<i>ESR1</i> Exon 7, forward	20
<i>ESR1</i> Exon 7, reverse	20
<i>ESR1</i> Exon 8, forward	20
<i>ESR1</i> Exon 8, reverse	20
<i>AKT1</i> Exon 3, forward	40
<i>AKT1</i> Exon 3, reverse	40
<i>ERBB2</i> Exon 8, forward	20
<i>ERBB2</i> Exon 8, reverse	20
<i>ERBB2</i> Exon 18, forward	20
<i>ERBB2</i> Exon 18, reverse	20
<i>ERBB2</i> Exon 19, forward	20
<i>ERBB2</i> Exon 19, reverse	20
<i>ERBB2</i> Exon 20, forward	20
<i>ERBB2</i> Exon 20, reverse	20

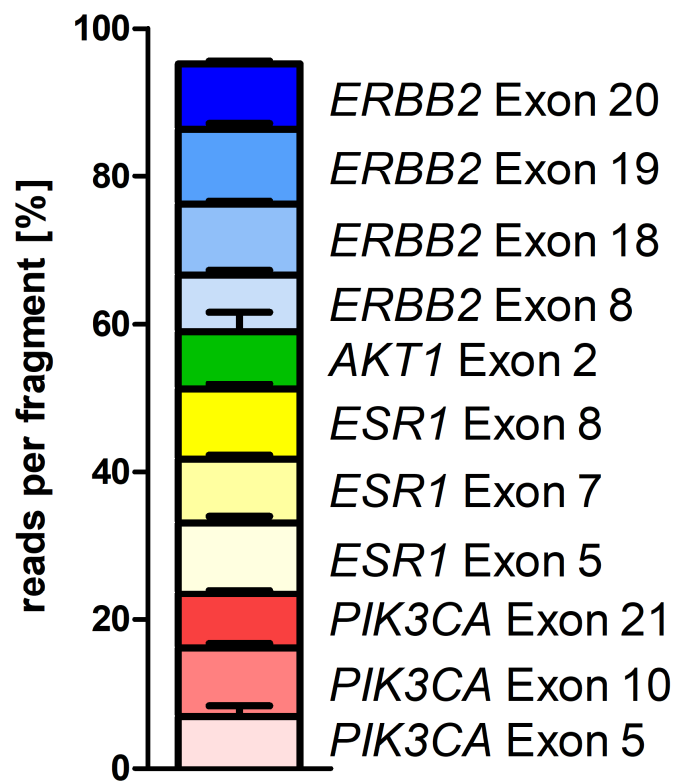
Supplemental Table S2: PCR protocols.

1. PCR		
98°C	3'	30 cycles
98°C	45"	
58°C	45"	
72°C	1'	

2. PCR		
98°C	3'	30 cycles
98°C	45"	
56°C	45"	
72°C	1'	



Supplemental Figure S1: Validation of first PCR.



Supplemental Figure S2: Distribution of reads to the analyzed fragments.

10 cells from the Sk-Br-3 cell line displaying 4 bands in the quality control PCR were analyzed.

Supplemental Table S3: Prediction of effect of detected amino acid substitutions.

Gene	Mutation	PolyPhen	Align GVGD	PROVEAN
<i>PIK3CA</i>	M318T	0.016 (Benign)	C65	-0.059 (Neutral)
<i>ERBB2</i>	L313P	1.000 (Probably Damaging)	C65	-1.481 (Neutral)
	A775T	1.000 (Probably Damaging)	C55	-3.274 (Deleterious)