

# Tapestri Single-cell DNA Breast Cancer Research Panel V2

Advance your understanding of the genetic heterogeneity underpinning breast cancer by targeting **32 hotspot genes** and **30 copy number variants and chromosome arm aneuploidies** for single-cell sequencing. Carefully curated based on evidence from more than 15 databases such as COSMIC and reviewed by leading researchers of breast cancer, this panel is designed to cover some of the most commonly mutated genes associated with breast cancer, including *BRCA1* and *BRCA2*.

## PANEL SPECIFICATIONS

| Metric                                 | Value                   |
|--|-------------------------|
| Number of targets                      | 49                      |
| Target type possible                   | SNVs, CNVs, Indels, LOH |
| Number of amplicons                    | 369                     |
| Amplicon length                        | 175-275 bp              |
| Panel size                             | 65.2 kb                 |
| % of amplicons with high GC Content    | 2.7 %                   |
| Recommended number of reads per sample | ~148M                   |

## 32-HOTSPOT GENES

|       |       |        |       |        |        |        |         |
|-------|-------|--------|-------|--------|--------|--------|---------|
| AKT1  | BRCA2 | CDH1   | ERBB2 | GATA3  | MAP3K1 | NUP93  | RHOA    |
| ARID1 | CBFB  | CDKN2A | ERBB3 | JAK1   | MYC    | PIK3CA | SF3B1   |
| ATM   | CCND1 | EGFR   | ESR1  | KRAS   | NCOR1  | PTEN   | TP53    |
| BRCA1 | CCNE1 | EP300  | FGFR1 | MAP2K4 | NF1    | RB1    | TP53BP1 |

## 30-COPY NUMBER VARIANTS

|    |    |     |     |     |       |       |        |        |      |
|----|----|-----|-----|-----|-------|-------|--------|--------|------|
| 1p | 5q | 8p  | 13q | 17q | BRCA1 | CCNE1 | CDKN2A | FGFR1  | PTEN |
| 1q | 6q | 8q  | 16q | 20q | BRCA2 | CDK4  | EGFR   | MYC    | RB1  |
| 4q | 7q | 10q | 17p | 22q | CCND1 | CDK6  | ERBB2  | PIK3CA | TP53 |

### LEARN MORE

<https://missionbio.com/products/panels/breast-cancer/>

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