

# Breast Cancer Probes

## FOR DISEASE BIOMARKERS

Approximately 1 in 8 women will be diagnosed with invasive breast cancer in their lifetime, and 1 in 39 will die of the disease. Once considered a single disease, breast cancer is now divided into 4 molecular subtypes and at least 21 histological subtypes, all different in their clinical presentation, prognosis, and response to therapy. Genetic research has been crucial to defining the molecular subtypes of the disease; we now understand that breast cancer is driven by a host of complex hormonal pathways, many of which are rooted in abnormal gene expression.

Empire Genomics' breast cancer FISH panel is made up of probes that detect gene aberrations frequently found in breast cancer. For more information on how our probes have been used by researchers and clinicians around the world, and to view our extensive biomarker catalog, please visit our website.

Probes	Location	Dye Color	Catalog Number
BCL2	18q21.33	●	BCL2-20-OR
BRCA2	13q13.1	●	BRCA2-20-OR
CCND1	11q13.3	●	CCND1-20-OR
CDK4	12q14.1	●	CDK4-20-OR
CHEK1	11q24.2	●	CHEK1-20-OR
CREB1	2q33.3	●	CREB1-20-OR
EGFR	7p11.2	●	EGFR-20-OR
ERBB2 (HER2)	17q12	●	ERBB2-20-OR
ESR1	6q25.1	●	ESR1-20-OR
ETV6/NTRK3 fusion	12p13.2/15q25.3	● ●	ETV6-NTRK3-20-GROR
FGFR1	8p11.23-p11.22	●	FGFR1-20-OR
FGFR2	10q26.13	●	FGFR2-20-OR
HMGA2	12q14.3	●	HMGA2-20-OR
MDM2	12q15	●	MDM2-20-OR
MYB	6q23.3	●	MYB-20-OR
MYB/NFIB fusion	6q23.3/9p23	● ●	MYB-NFIB-20-ORGR
MYC	8q24.21	●	MYC-20-OR
PTEN	10q23.31	●	PTEN-20-OR
RB1	13q14.2	●	RB1-20-OR
TERT	5p15.33	●	TERT-20-OR
TOP2A	17q21.2	●	TOP2A-20-OR
TP53	17p13.1	●	TP53-20-OR

For In Vitro Use Only | For Research Use Only | Not For Diagnostic Use

**Distributed by:**

**CliniSciences Group**

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