

CELL PANEL

BREAST CANCER MOUSE MODEL CELL LINE PANEL

The Breast Cancer Mouse Model Cell Line Panel (ATCC® [TCP-1005™](#)) comprises eight immortalized mouse mammary epithelial cell lines that stably overexpress MEK1 activated mutant (MEKDD), EGFR2/Neu, Myc, or Ha-Ras. This panel of cell lines is useful for studying breast cancer, breast cancer metastasis, mouse models of breast cancer, oncogenes in cell transformation, EGFR-MEK signaling pathways, as well as anti-cancer drug discovery and drug resistance. The table below provides more information.

ATCC No.	Designation	Source	Cell type	Overexpression	Significant features
CRL-3063™	Eph4Ev	mouse mammary gland	epithelial cell	Empty vector	The cells were immortalized from mouse mammary epithelial cell line with an empty vector. They are useful as a control.
CRL-3069™	B-MEKDD 116	mouse mammary gland	epithelial cell	Mutant MEK1	The cells stable overexpression of glu-glu epitope-tagged MEK constant activated mutant: Asp218/ Asp222 MEK1 phosphorylation site mutant (MEKDD).
CRL-3071™	Eph4 1424	mouse mammary gland	epithelial cell	Mutant MEK1	The cells were derived from a mouse primary breast tumor. The cells stably overexpress glu-glu epitope-tagged MEK1 constitutively activated mutant (MEKDD).
CRL-3209™	Eph4 1424.1	mouse mammary gland	epithelial cell	Mutant MEK1	The cells were derived from a mouse breast tumor metastasis to kidney. The cells stably overexpress glu-glu epitope- tagged MEK1 constitutively activated mutant (MEKDD).
CRL-3210™	Eph4 1424.2	mouse mammary gland	epithelial cell	Mutant MEK1	The cells were derived from a mouse breast tumor metastasis to lung. The cells stably overexpress glu-glu epitope-tagged MEK1 constitutively activated mutant (MEKDD).
CRL-3086™	M158	mouse mammary gland	epithelial cell	MYC	The cells are a mouse mammary tumor cell line derived from <i>c-myc</i> -initiated transgenic mice.
CRL-3090™	NF639	mouse mammary gland	epithelial cell	EGFR2/NEU	The cells are a mouse mammary tumor cell line derived from <i>neu</i> -initiated transgenic mice.
CRL-3092™	Ac 711	mouse mammary gland	epithelial cell	H-RAS	The cells are a mouse mammary tumor cell line derived from <i>Ha-ras</i> -initiated transgenic mice.

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