

Materials List for:

# Initiation of Metastatic Breast Carcinoma by Targeting of the Ductal Epithelium with Adenovirus-Cre: A Novel Transgenic Mouse Model of Breast Cancer

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URL: <https://www.jove.com/video/51171>

DOI: [doi:10.3791/51171](https://doi.org/10.3791/51171)

## Materials

Name	Company	Catalog Number	Comments
Trp53 <sup>tm1Brn</sup> Transgenic mice K-ras <sup>tm4Tyj</sup> Transgenic mice	Obtained from NCI mouse models of human cancer consortium		Mice were backcrossed ten times to a full C57BL/6 background
B6.129X1-Gt(ROSA)26Sor <sup>tm1(EYFP)Cos</sup> /J Transgenic mice	Jackson Labs	006148	
Primers p53 <sup>loxP/loxP</sup>	Integrated DNA Technologies		5'-AAGGGGTATGAGGGACAAGG-3' 5'-GAAGACAGAAAAGGGGAGGG-3'
Primers LSL-K-ras <sup>G12D/+</sup>	Integrated DNA Technologies		5'-CGCAGACTGTAGAGCAGCG-3' 5'-CCATGGCTTGAGTAAGTCTGC-3'
Primers for LSL-EYFP to detect Rosa promoter	Integrated DNA Technologies		5'-AAGACCGCGAAGAGTTTGTC-3' 5'-GGAGCGGGAGAAATGGATATG-3' 5'-AAAGTCGCTCTGAGTTGTTAT-3'
Primers for detection of Mesothelin expression	Integrated DNA Technologies		5'-TTGGGTGGATACCACGTCTG-3' 5'-CGGAGTGTAATGTTCTTCTGTC-3'
Primers for detection of Progesterone Receptor expression	Integrated DNA Technologies		5'-GCAATGGAAGGGCAGCATAA-3' 5'-TGGCGGGACCAGTTGAATTT-3'
Primers for detection of Cytokeratin 8 expression	Integrated DNA Technologies		5'-ATCAGCTCTCCAGCTTTTCCC-3' 5'-GAAGCGCACCTTGTCATGAAGG-3'
Primers for detection of Erbb2 expression	Integrated DNA Technologies		5'-ACCTGCCCTACAACCTACCT-3' 5'-AAATGCCAGGCTCCCAAAGA-3'
Primers for detection of Estrogen Receptor A expression	Integrated DNA Technologies		5'-ATGAAAGGCGGCATACGGAA-3'

			5'- GCGGTTTCAGCATCCAACAAG-3'
Primers for detection of Estrogen Receptor B expression	Integrated DNA Technologies		5'- ACCCAATGTGCTAGTGAGCC-3' 5'- TGAGGACCTGTCCAGAACGA-3'
Primers for detection of B-Actin expression	Integrated DNA Technologies		5'- GCCTTCCTTCTTGGGTATGG-3' 5'- CAGCTCAGTAACAGTCCGCC-3'
Adenovirus-Cre	Gene Transfer Vector Core from the University of Iowa	Ad5CMVCre	Store aliquots of virus ( $4 \times 10^8$ pfu/ aliquot) at -80 °C to avoid repeated freeze thaw cycles.
Adenovirus-mCherry	Gene Transfer Vector Core from the University of Iowa	Ad5CMVmCherry	Store aliquots of virus ( $4 \times 10^8$ pfu/ aliquot) at -80 °C to avoid repeated freeze thaw cycles.
Hamilton syringe	Hamilton company	701RN	10 µl syringe, RN series. Autoclave before and after each use. Clean with PBS and 75% ethanol.
Custom needle	Hamilton company	7803-05	33 G 0.5 in long RN needle, with a 12° bevel. Autoclave before and after each use. Clean with PBS and 75% ethanol.
Surgical forceps	Dumont	52100-58	Dumostar No. 5 forceps. Clean with 75% ethanol after each use, followed by autoclaving
MEM powder	Cellgro	50 012 PB	Store at 4 °C in powder and reconstituted form
Sodium Bicarbonate	Fisher	S233	Add to MEM and filter sterilize
Calcium Chloride	Sigma	C4901	Minimum 96%, anhydrous