

MDA-MB-231 D3H2LN-Luc TetOn-3G cell line

Catalogue number: 154147

Sub-type: Continuous

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: MDA-MB-231 D3H2LN-Luc TetOn-3G cell line

Alternate name:

Class:

Conjugate:

Description: This cell line contains a tetracycline inducible promoter construct ready for cloning in a gene of interest. The cell line is a derivative of a human breast cancer cell line shown to reliably metastasize to clinically relevant sites (the lungs and lymph nodes) when implanted orthotopically in mice (i.e. when implanted in the breast pad of mice). The cell line expresses luciferase enabling detection of the location of the cells using bioluminescent imaging. Unbekandt et al., 2014 introduced their genes of interest, the kinases MRCK?, ROCK1 and ROCK2 under the tetracycline inducible promoter, to study the impact of their expression and inhibition on migration of the cells. Useful for the study of breast cancer cell cytoskeleton reorganisation, cell migration and the development of therapies that inhibit the ability of primary tumours to metastasize. This cell line is derived from a triple negative breast cancer (TNBC) meaning it does not express oestrogen, progesterone or HER2 receptors.

Purpose:

Parental cell: MDA-MB-231 D3H2LN-Luc

Organism: Human

Tissue: Breast

Model: Reporter

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties: Adherent cell line

Production details: Generated an MDA-MB-231 D3H2LN-Luc cell line that expresses tetracycline (Tet)-regulated transactivator Tet-On 3G

Formulation:

Recommended controls: HeLa TetOn-3G

Bacterial resistance:

Selectable markers:

Additional notes: Tet-On System owned by TET Systems GmbH & Co. KG.

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: 10% FBS/MEM-EBSS/NEAA/NaPyr/Glutamine

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Taylor et al. 2004. J Immunol. 173(12):7349-57. PMID: 15585859. ; Site-specific inhibitors of NADPH oxidase activity and structural probes of flavocytochrome b: characterization of six monoclonal antibodies to the p22phox subunit.

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