

MDA-MB-231 CAGA12-Luc/TK Renilla cell line

Catalogue number: 156437

Sub-type: Continuous

Images:

Contributor

Inventor: Caroline Hill

Institute: The Francis Crick Institute

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: MDA-MB-231 CAGA12-Luc/TK Renilla cell line

Alternate name:

Class:

Conjugate:

Description: The human breast cancer cell line MDA-MB-31 modified for use as a reporter cell line for Activin and TGF-beta signalling. The cell line stably expresses CAGA12-Luc, a Smad3/Smad4-dependent reporter containing 12 copies of the CAGAC sites (AGAC motif underlined) from the PAI-1 promoter. This is a Smad3/Smad4-dependent reporter, although it also binds complexes of Smad2 exon 3 with Smad4. The cell line also contains a Renilla reporter driven by the thymidine kinase (TK) promoter to act as an internal control.

Purpose:

Parental cell: MDA-MB-231 cell line

Organism: Human

Tissue: Breast

Model: Reporter

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: Made by transfecting the breast cancer cell line MDA-MB-231 with CAGA12-Luc

with pRetroSuper for puromycin resistance and then TK Renilla with pCMV-Bsd for blasticidin resistance. Clonal

Formulation:

Recommended controls: MDA-MB-231 parental line

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Activin and transforming growth factor β (TGF- β) signalling

Target alternate names:

Target background:

Molecular weight:

IC₅₀:

Applications

Application:

Application notes:

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium: Dulbecco's modified Eagle's medium (DMEM) containing 10% fetal calf serum (FCS) + 50 μ g/ml blasticidin

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions: Dry ice

Related tools

Related tools: HEK293T CAGA12-Luc/TK Renilla cell line

References

References: Levy et al. 2007. Mol Cell Biol. 27(17):6068-83. PMID: 17591695.

CancerTools.org