US/VOT-E36 Cell Line

Catalogue number: 153625 Sub-type: Continuous

Images:

Contributor

Inventor: Matthew C Holley Institute: University of Sheffield

Images:

Tool details

*FOR RESEARCH USE ONLY

Name: US/VOT-E36 Cell Line

ols.org Alternate name: US/VOT-E36; Ventral Otocyst-Epithelial cell line number 36; VOT-E36; University of

Sheffield/Ventral OTocyst-Epithelial 36

Class:

Conjugate:

Description: US/VOT-E36 cells represent epithelial progenitors with potential to differentiate into sensory and nonsensory epithelial cells. The conditionally immortal cell line was established from the ventral otocyst of the Immortomouse at embryonic day 10.5 (plug in mouse designated E0.5 and birth at E18-19). At this stage the sensory epithelia have not differentiated, and the epithelium is competent to form most of the cells within the cochlear duct, including primary sensory neurons. VOT-E36 cell...

Purpose:

Parental cell:

Organism: Mouse Tissue: Embryonic Model: Transgenic

Gender: Isotype: Reactivity: **Selectivity:** Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties: Adherent

Production details: Homozygous male Immortomice (originally derived from injected oocytes of

CBA/Ca x C57BL/10 mice) were time-mated with wild-type C57Bl/6 female mice to produce heterozygous offspring. Animals were killed by cervical dislocation, in accordance with UK Home Office regulations. Otocysts were removed from E10 embryos under sterile conditions and then dissected to isolate the ventral region. Further selection of ventral otocyst explants was based on expression of the immortalizing gene (condition...

Formulation:

Recommended controls: **Bacterial resistance:** Selectable markers: Additional notes:

Target details

Target: GATA3 (GATA Binding Protein 3)

Target alternate names:

Target background: Zinc finger transcription factor

Molecular weight:

Ic50:

Applications

Cancer Tools.org **Application:** Inner ear development studies; Gene expression and function of inner ear-specific genes studies; In vitro screening for gene activation and promoter analysis; Ototoxicity (prescribed drugs and agents that ameliorate their affects) studies; Studies on function of inherited deafness mutations; Functional analysis of ion channels, receptors and signalling pathways in vitro

Application notes:

Handling

Format: Frozen **Concentration:** Passage number:

Growth medium: MEM with 10% FCS, 50 Units/ml y-IFN, L-glutamine

Temperature: 33° C

Atmosphere: Volume: 1 ml

Storage medium: Cytiva HyCloneTM FetalClone? II Serum (U.S.) Thermo Fisher

Storage buffer:

Storage conditions: Liquid Nitrogen

Shipping conditions: Dry ice

Related tools

Related tools: US/VOT-N33 Cell Line; GATA3eGFP reporter cell line; UB-UE1 Cell Line; UB-OC2 Cell LineUB-OC1 Cell Line

References

References: Hackett et al. 2002. Exp Cell Res. 278(1):19-30. PMID: 12126954; Lawlor et al. 1999. J Neurosci. 19(21):9445-58. PMID: 10531448

