

# Mutant DISC1 cell line

**Catalogue number:** 156416

**Sub-type:**

**Images:**

## Contributor

**Inventor:** Mikhail Plentnikov

**Institute:** Johns Hopkins University

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Mutant DISC1 cell line

**Alternate name:**

**Class:**

**Conjugate:**

**Description:** To evaluate the effects of a predicted protein, mutant disrupted-in-schizophrenia 1 (DISC1), stable PC12 cell clones with inducible expression of mutant or full-length human DISC1 (hDISC1) have been generated. PC12 is a neuronal cell line derived from a pheochromocytoma of the rat brain. This technology includes an inducible Tet-off PC12 cell model with stable expression of full-length and truncated hDISC1, allowing for a regulated expression of hDISC1 in homogenous populations of cells. Inducible expression of DISC1 in PC12 cells is a valuable in vitro model for further studying the molecular mechanisms likely due to loss of function of DISC1 relevant to the pathogenesis of major mental illnesses.

**Purpose:**

**Parental cell:** PC12

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**  
**Formulation:**  
**Recommended controls:**  
**Bacterial resistance:**  
**Selectable markers:**  
**Additional notes:**

## Target details

**Target:** disrupted-in-schizophrenia 1 (DISC1)

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**  
**Application notes:**

## Handling

**Format:** Frozen  
**Concentration:**  
**Passage number:**  
**Growth medium:**  
**Temperature:**  
**Atmosphere:**  
**Volume:**  
**Storage medium:**  
**Storage buffer:**  
**Storage conditions:**  
**Shipping conditions:** Dry ice

## Related tools

**Related tools:**

# References

References:

CancerTools.org