



# Mouse Model Deficient for the Proton Sensing Gpcr T-cell Death-associated Gene 8 (tdag)

Tech ID: 20140 / UC Case 2006-624-0

## BACKGROUND

T-cell death-associated gene 8 (TDAG8) functions as a proton sensing GPCR. TDAG8 was originally proposed to bind pro-inflammatory lipids. More recent studies have challenged the identification of lipid agonists for TDAG8 and have suggested that it functions mainly as a proton sensor.

## INNOVATION

Researchers at UCLA have developed a mouse model deficient for TDAG8. It was confirm by using this model that the inactivation of TDAG8 proton sensor abolishes acid-induced production of the secondary messenger cyclic AMP in immune cells.

## RELATED MATERIALS

- ▶ [Information from Jackson Labs](#)
- ▶ [Differential proton sensitivity of related G protein-coupled receptors T cell death-associated gene 8 and G2A expressed in immune cells. PNAS 2005.](#)

## OTHER INFORMATION

To complete a **Ready-to-Sign Agreement** for this case, please [view this document](#). [PDF]

## CONTACT

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## INVENTORS

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## OTHER INFORMATION

### KEYWORDS

research tool

### CATEGORIZED AS

- ▶ **Medical**
  - ▶ Disease: Autoimmune and Inflammation
- ▶ **Research Tools**
  - ▶ Animal Models

### RELATED CASES

2006-624-0

## ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ [Nucleic Acid Tetramers For High Efficiency Multiplexed Cell Sorting](#)
- ▶ [Anti-Human Deoxycytidine Kinase \(dCK\) Monoclonal Antibody](#)
- ▶ [Novel Non-Immunogenic Positron Emission Tomography Gene Reporter](#)
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- ▶ [G2A GPCR Deficient Mouse Model and G2A Monoclonal Antibody](#)
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