

# Gene Targets For Manipulating T Cell Behavior

Tech ID: 33261 / UC Case 2020-043-0

## TECHNOLOGY DESCRIPTION

By performing non-viral pooled knock-in screens, UCSF investigators have discovered novel genes that improve T cell functionality across a variety of in vitro assays. This invention includes novel compositions and methods for modifying the genome of a T cell to alter its specific and functionality, while limiting the side effects associated with T cell therapies.

### Technology Advantages:

- ▶ Identifies novel gene targets
- ▶ Potential to enhance therapeutic potency of T cells for cancer and autoimmune applications

## PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Published Application	<a href="#">20240392243</a>	11/28/2024	2020-203

Additional Patents Pending

## CONTACT

Gemma E. Rooney  
[Gemma.Rooney@ucsf.edu](mailto:Gemma.Rooney@ucsf.edu)  
tel: [415-625-9093](tel:415-625-9093).



## OTHER INFORMATION

### KEYWORDS

T cell therapy, Cancer, Immunotherapy

### CATEGORIZED AS

- ▶ **Medical**
  - ▶ Disease: Autoimmune and Inflammation
  - ▶ Disease: Cancer
  - ▶ Gene Therapy
  - ▶ Therapeutics

### RELATED CASES

2020-043-0, 2020-203-0,  
2022-030-0, 2023-035-0

### ADDRESS

**UCSF**  
**Innovation Ventures**  
600 16th St, Genentech Hall, S-272,

### CONTACT

Tel:  
[innovation@ucsf.edu](mailto:innovation@ucsf.edu)  
<https://innovation.ucsf.edu>

### CONNECT

Follow Connect

