# Berkeley IPIRA

**Request Information** 

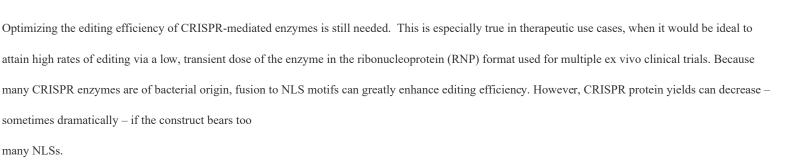
# NUCLEAR LOCALIZATION SIGNALS INSIDE CAS9 TO ENHANCE GENOME EDITING

Tech ID: 33637 / UC Case 2024-164-0

## PATENT STATUS

#### Patent Pending

## **BRIEF DESCRIPTION**



UC Berkeley researchers have developed CRISPR proteins with enhanced editing efficiencies by introducing multiple nuclear localization signal (NLS) fused at rationally selected sites within the backbone of CRISPR-Cas9. These Cas9 variants showed they can improve editing efficiency in T cells compared to constructs with terminally-fused NLS sequences and can be produced with high purity and yield.

#### SUGGESTED USES

» gene editing

#### ADVANTAGES

»

improved recombinant yield as compared to engineered proteins bearing NLS on one or both termini of the protein

#### ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

▶ High-Yield Production Of Base Editor Enzymes Via Conjugation



#### CONTACT

Terri Sale terri.sale@berkeley.edu tel: 510-643-4219.



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#### **INVENTORS**

» Wilson, Ross C.

#### OTHER INFORMATION

**CATEGORIZED AS** 

» Medical

» Gene Therapy

» Research Tools

>> Therapeutics

» Research Tools

» Nucleic Acids/DNA/RNA

**RELATED CASES** 

2024-164-0

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