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CRISPR-CAS EFFECTOR POLYPEPTIDES AND METHODS OF USE THEREOF

Tech ID: 32866 / UC Case 2022-147-0

PATENT STATUS

Country	Туре	Number	Dated	Case
Patent Cooperation Treaty	Published Application	WO 2023/250384	12/28/2023	2022-147

BRIEF DESCRIPTION

CRISPR-Cas systems comprise a CRISPR-associated (Cas) effector polypeptide and a guide nucleic acid. Such CRISPR-Cas systems can bind to and modify a targeted nucleic acid. The programmable nature of these CRISPR-Cas effector systems has facilitated their use as a versatile technology for use in, e.g., gene editing.

UC Berkeley researchers have discovered new CRISPR-Cas effector Cas12L/Cas Lambda/Casλ polypeptides and methods of modifying a target nucleic acid using a Cas12L/Cas Lambda polypeptide.

SUGGESTED USES

» gene editing

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ COMPOSITIONS AND METHODS FOR IDENTIFYING HOST CELL TARGET PROTEINS FOR TREATING RNA VIRUS INFECTIONS
- ▶ Genome Editing via LNP-Based Delivery of Efficient and Stable CRISPR-Cas Editors
- ▶ Type III CRISPR-Cas System for Robust RNA Knockdown and Imaging in Eukaryotes
- Cas12-mediated DNA Detection Reporter Molecules
- ▶ Improved guide RNA and Protein Design for CasX-based Gene Editing Platform
- Cas13a/C2c2 A Dual Function Programmable RNA Endoribonuclease
- RNA-directed Cleavage and Modification of DNA using CasY (CRISPR-CasY)
- CasX Nickase Designs, Tans Cleavage Designs & Structure
- In Vivo Gene Editing Of Tau Locus Via Liponanoparticle Delivery
- A Dual-RNA Guided CasZ Gene Editing Technology
- CRISPR-CAS EFFECTOR POLYPEPTIDES AND METHODS OF USE THEREOF ("Cas-VariPhi")
- Modifications To Cas9 For Passive-Delivery Into Cells

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Permalink

INVENTORS

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OTHER INFORMATION

KEYWORDS

Lambda, Cas, gene editing, Cas12L

CATEGORIZED AS

» Medical

» Gene Therapy

- » Research Tools
- >> Therapeutics
- » Research Tools
 - » Nucleic Acids/DNA/RNA

RELATED CASES

2022-147-0

- ► A Protein Inhibitor Of Cas9
- RNA-directed Cleavage and Modification of DNA using CasX (CRISPR-CasX)
- Compositions and Methods for Genome Editing
- Split-Cas9 For Regulatable Genome Engineering
- Methods to Interfere with Prokaryotic and Phage Translation and Noncoding RNA
- CRISPR CASY COMPOSITIONS AND METHODS OF USE
- Single Conjugative Vector for Genome Editing by RNA-guided Transposition
- Improved Cas12a Proteins for Accurate and Efficient Genome Editing
- ▶ CRISPR-CAS EFFECTOR POLYPEPTIDES AND METHODS OF USE THEREOF
- Engineered/Variant Hyperactive CRISPR CasPhi Enzymes And Methods Of Use Thereof
- Engineering Cas12a Genome Editors with Minimized Trans-Activity
- Methods Of Use Of Cas12L/CasLambda In Plants
- ▶ Type V CRISPR/CAS Effector Proteins for Cleaving ssDNA and Detecting Target DNA
- ► THERMOSTABLE RNA-GUIDED ENDONUCLEASES AND METHODS OF USE THEREOF (GeoCas9)
- Structure-Guided Methods Of Cas9-Mediated Genome Engineering
- Endoribonucleases For Rna Detection And Analysis
- Efficient Site-Specific Integration Of New Genetic Information Into Human Cells
- Class 2 CRISPR/Cas COMPOSITIONS AND METHODS OF USE
- Compositions and Methods of Use for Variant Csy4 Endoribonucleases
- Identification Of Sites For Internal Insertions Into Cas9
- ▶ Methods and Compositions for Controlling Gene Expression by RNA Processing



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