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RNA-Guided Human Genome Engineering via Cas9

Prashant Mali, 1s Luhan Yang, 1,1s Kevin M. Esveit, 2 John Aach, 1 Marc Guell, 1 James E. DiCarlo, 4 Julie E. Norville,1 George M. Church1,27

Bacteria and archaea have evolved adaptive immune defenses, termed clustered regularly interspaced short palindromic repeats (CRISPRI/CRISPR-associated (Cas) systems, that use short RNA to direct degradation of foreign nucleic acids. Here, we engineer the type II bacterial CRISPR. system to function with custom guide RNA (gRNA) in human cells. For the endogenous AAVS1 locus, we obtained targeting rates of 10 to 25% in 293T cells, 13 to 8% in K562 cells, and 2 to 4% in induced pluripotent stem cells. We show that this process relies on CRISPR components; is sequence-specific; and, upon simultaneous introduction of multiple gRNAs, can effect multiplex editing of target loci. We also compute a genome-wide resource of ~190 K unique gRNAs targeting -40.5% of human exons. Our results establish an RNA-guided editing tool for facile, robust, and multiplexable human genome engineering.

acterial and archaeul clustered regularly interspaced short palindromic repeats (CRISPR) systems rely on CRISPR RNAs (crRNAs) in complex with CRISPR-associated (Cas) proteins to direct degradation of complementary sequences present within invading viral and plasmid DNA (1-3). A recent in vitro reconstitution of the Streptococcus pyogones type II CRISPR system demonstrated that crRNA fissed to a normally trans-encoded traceRNA is sufficient to direct Cas9 protein to sequence-specifically cleave target DNA sequences matching the crRNA. (4). The fully defined nature of this two-component system suggested that it might function in the cells of eukaryotic organisms such as yeast, plants, and even mammals. By cleaving genomic sequences targeted by RNA sequences (4-6), such a system could greatly enhance the case of genome engineering.

Here, we engineer the protein and RNA components of this bacterial type II CRISPR system in human cells. We began by synthesizing a humun codion-optimized version of the Cus9 protein bearing a C-terminal SV40 nuclear localization signal and cloning it into a mammalian expresnion system (Fig. 1A and fig. \$1A). To direct Cas9 to cleave sequences of interest, we expressed crRNA-tracrRNA fusion transcripts, hereafter referred to as guide RNAs (gRNAs), from the human U6 polymerase III promoter. Directly transcribing gRNAs allowed us to avoid reconstituting the RNA-processing machinery used by bacterial CRISPR systems (Fig. 1A and fig. S1B) (4, 7-9). Constrained only by U6 transcription initiating with G and the requirement for the PAM (protospacer-adiacent motif) sequence -NGG following the 20-base pair (bp) crRNA target, our highly versatile approach can, in principle, target any genomic site of the form GN GG (fig.

S1C; see supplementary text S1 for a detailed discussion).

To test the functionality of our implementation for genome engineering, we developed a green fluorescent protein (GFP) reporter assay (Fig. 1B) in human embryonic kidney HEK 293T cells similar to one previously described (10). Specifically, we established a stable cell line bearing a genomically integrated GFP coding sequence disperted by the insertion of a stop codon and a 68-bp genomic fragment from the AAVS1 locus that renders the expressed protein fragment nonfluorescent. Homologous recombination (HR) using an appropriate repair donor can restore the normal GFP sequence, which enabled us to quantify the resulting GFP" cells by flow-activated cell sorting (FACS).

To test the efficiency of our system at stimulating HR, we constructed two gRNAs, T1 and T2, that target the intervening AAVS1 fragment (Fig. 1B) and compared their activity to that of a previously described TAL effector nuclease betenodimer (TALEN) targeting the same region (11). We observed successful HR events using all three targeting reagents, with gene correction rates. using the T1 and T2 gRNAs approaching 3% and 8%, respectively (Fig. 1C). This RNA-mediated editing process was notably rapid, with the first detectable GFP' cells appearing -20 hours post transfection compared with -40 hours for the AAVS1 TALENs. We observed HR only upon simultaneous introduction of the repair donor, Case9 protein, and gRNA, which confirmed that all components are required for genome editing. (fig. S2). Although we noted no apparent toxicity associated with Cas9/gRNA expression, work with zinc finger nucleuses (ZFNs) and TALENs. has shown that nicking only one strand further reduces toxicity. Accordingly, we also tested a Cay9D10A mutant that is known to function asa nickase in vitro, which yielded similar HR but lower nonhomologous end joining (NHEJ) rates (fig. S3) (4, 5). Consistent with (4), in which a related Cas9 protein is shown to cut both strands

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Arturo Cuomo

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Table of Contents Biology The Human Genome Guided Answers

- 1. Understanding the eBook Biology The Human Genome Guided Answers
 - The Rise of Digital Reading Biology The Human Genome Guided Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Biology The Human Genome Guided Answers
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology The Human Genome Guided Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Biology The Human Genome Guided Answers
 - Personalized Recommendations
 - Biology The Human Genome Guided Answers User Reviews and Ratings
 - Biology The Human Genome Guided Answers and Bestseller Lists

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 - Highlighting and Note-Taking Biology The Human Genome Guided Answers
 - Interactive Elements Biology The Human Genome Guided Answers
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology The Human Genome Guided Answers
- 9. Balancing eBooks and Physical Books Biology The Human Genome Guided Answers
 - Benefits of a Digital Library
 - \circ Creating a Diverse Reading Collection Biology The Human Genome Guided Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology The Human Genome Guided Answers
 - Setting Reading Goals Biology The Human Genome Guided Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology The Human Genome Guided Answers
 - Fact-Checking eBook Content of Biology The Human Genome Guided Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
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 - Integration of Multimedia Elements
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