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CRISPR-DO For Genome-wide CRISPR Design And Optimization Genome Analysis CRISPR-DO For Genome-wide CRISPR Design And Optimization Jian Ma<sup>1</sup>, Johannes Köster<sup>2,3,4,5</sup>, Qian Qin<sup>1</sup>, Shengen Hu<sup>1</sup>, Wei Li<sup>2,3</sup>, Chenhao Chen<sup>2,3</sup>, Qingyi Cao<sup>6</sup>, Jinzeng Wang<sup>1</sup>, Shenglin Mei<sup>1</sup>, Qi Liu<sup>1,\*</sup>, Han Xu<sup>2,3,\*</sup> And Xiaole Shirley Liu<sup>1,2,3\*</sup> <sup>1</sup>School Of Life Science And Technology, Tongji University, Shanghai 200092, China, <sup>2</sup>Department Of Biostatistics Jan 1th, 2024 Precision Plant Breeding With CRISPR Genome Editing ... Pros And Cons Of Mutation Breeding Pros: • Induction Of Desirable Mutant That Is Not Present In Natural Plant Materials • Not Regulated By USDA, Ecologically, Environmentally Friendly • Straightforward Phenotypic Selection, Technically Easy Cons: • Generally Random And Unpredictable • “good” Mutations Come With “bad” Mutations May 1th, 2024 Genome Engineering Using The CRISPR-Cas9 System F Ann Ran<sup>1-5,8</sup>, Patrick D Hsu<sup>1-5,8</sup>, Jason Wright<sup>1</sup>, Vineeta Agarwala<sup>1,6,7</sup>, David A Scott<sup>1-4</sup> & Feng Zhang<sup>1-4</sup> <sup>1</sup>Broad Institute Of Massachusetts Institute Of Technology (MIT) And Harvard ... Feb 3th, 2024.

Multiplex Genome Engineering Using CRISPR/Cas Systems Physicians And Surgeons, Columbia University, New York, NY 10032, USA. 7. Computational And Systems Biology Graduate Program And Koch Institute For Integrative Cancer Research, Massachusetts Institute Of Technology, Cambridge, MA 02139, USA. 8. Laboratory Of Bacteriology, The Rockefeller University, 1230 York Avenue, New York, NY 10065, USA. Jan 3th, 2024 Development Of CRISPR-Cas Systems For Genome Editing And ... Development Of CRISPR-Cas Systems For Genome Editing And Beyond F. Zhang <sup>1</sup>Broad Institute Of MIT And Harvard, Cambridge, MA 02142 USA; <sup>2</sup>Department Of Brain And Cognitive Sciences, Department Of Biological Engineering, McGovern Institute For Brain Research, Massachusetts Institute Of Mar 1th, 2024 CRISPR Technology For Genome Activation And Repression In ... Lentiviral Packaging Plasmids PCMV-dR8.91 And PMD2.G (Addgene 12259) At The Time Of This Writing, PCMV-dR8.91 Is Not Available From Addgene. Alternatively, A Lower Version Of The Plasmid Is Available From Addgene (pCMV-dR8.2; Addgene 8455). Its Use Will Not Affect This Protocol. Lysogeny Mar 1th, 2024.

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Effects Of B-defensin Family Members On Sperm Maturation In Rat Epididymis Chaobao Zhang,<sup>\*,†</sup> Yuchuan Zhou,<sup>†</sup> Shengsong Xie,<sup>†</sup> Qianqian Yin,<sup>†</sup> Chu Jun 2th, 2024  
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Www.ensembl.org (and Sequence Verify) Design Your Guide (GG-18N-NGG) Crispr.mit.edu/ Chopchop.rc.fas.harvard.edu/  
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Accelerating Genome Editing In CHO Cells Using CRISPR Cas9 ...NucleoBond Xtra Midi EF (Macherey-Nagel, Düren, Germany) According To Manufacturer's Guidelines. Cell Culture And Transfection CHO-K1 Adherent Cells Obtained From ATCC (#ATCC-CCL-61) Were Grown In CHO-K1 F-12K Medium (ATCC) Supplemented With 10% Fetal Calf Serum (Life Technology Mar 2th, 2024  
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Pooled Genome-Scale CRISPR-Cas9 Knock-out Screens In ...A. Prepare A Mixture Of The 3 Transfection Plasmids (~ 1:1:1 Molar Ratio) In OptiMEM. Amount Needed Per 15cm Plate: 4.8 µg PsPAX2 3.2 µg PMD2.G 8 µg TKOv3 Library B. Prepare 1x OptiMem And X-tremeGENE Dilutions For Each Plate (i.e For 60 Plates, You Will Need 60 Tubes With 1x X-tremeGENE Dilu Mar 1th, 2024.

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Table 1: Average Sequencing Yield 3 Results 3.1 Determining A Clinically Relevant Coverage Threshold Jan 2th, 2024.  
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