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TRIM61 CRISPR/Cas9 KO Plasmid (m): sc-435202

BACKGROUND

The Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) and CRISPR-associated protein (Cas9) system is an adaptive immune response defense mechanism used by archae and bacteria for the degradation of foreign genetic material (4,6). This mechanism can be repurposed for other functions, including genomic engineering for mammalian systems, such as gene knockout (KO) (1,2,3,5). CRISPR/Cas9 KO Plasmid products enable the identification and cleavage of specific genes by utilizing guide RNA (gRNA) sequences derived from the Genome-scale CRISPR Knock-Out (GeCKO) v2 library developed in the Zhang Laboratory at the Broad Institute (3,5).

REFERENCES

1. Cong, L., et al. 2013. Multiplex genome engineering using CRISPR/Cas systems. *Science* 339: 819-823.
2. Mali, P., et al. 2013. RNA-guided human genome engineering via Cas9. *Science* 339: 823-826.
3. Ran, F.A., et al. 2013. Genome engineering using the CRISPR-Cas9 system. *Nat. Protoc.* 8: 2281-2308.
4. Van der Oost, J., et al. 2014. Unraveling the structural and mechanistic basis of CRISPR-Cas systems. *Nat. Rev. Microbiol.* 7: 479-492.
5. Shalem, O., et al. 2014. Genome-scale CRISPR-Cas9 knockout screening in human cells. *Science* 343: 84-87.
6. Hsu, P., et al. 2014. Development and applications of CRISPR-Cas9 for genome editing. *Cell* 157: 1262-1278.

CHROMOSOMAL LOCATION

Genetic locus: Trim61 (mouse) mapping to 8 B3.1.

PRODUCT

TRIM61 CRISPR/Cas9 KO Plasmid (m) is designed to disrupt gene expression by causing a double-strand break (DSB) in a 5' constitutive exon within the Trim61 (mouse) gene.

TRIM61 CRISPR/Cas9 KO Plasmid (m) consists of a pool of 3 plasmids, each encoding the Cas9 nuclease and a target-specific 20 nt guide RNA (gRNA) designed for maximum knockout efficiency. Each vial contains 20 µg of lyophilized CRISPR/Cas9 Plasmid DNA. Suitable for up to 20 transfections. Also see TRIM61 HDR Plasmid (m): sc-435202-HDR for selection of cells containing a DSB induced by TRIM61 CRISPR/Cas9 KO Plasmid (m).

STORAGE AND RESUSPENSION

Store lyophilized plasmid DNA at 4° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at 4° C for short term storage or -20° C for long-term storage. Avoid repeated freeze thaw cycles.

Resuspend lyophilized plasmid DNA in 200 µl of the provided ultrapure, sterile, DNase-free water. Resuspension of the plasmid DNA makes a 0.1 µg/µl solution in a 10 mM TRIS EDTA, 1 mM EDTA buffered solution.

APPLICATIONS

TRIM61 CRISPR/Cas9 KO Plasmid (m) is recommended for the disruption of gene expression in mouse cells.



SUPPORT REAGENTS

For optimal reaction efficiency with CRISPR/Cas9 KO Plasmids, Santa Cruz Biotechnology's UltraCruz[®] Transfection Reagent: sc-395739 (0.2 ml) and Plasmid Transfection Medium: sc-108062 (20 ml) are recommended. Control CRISPR/Cas9 Plasmid: sc-418922 (20 µg) negative control is also available.

RESEARCH USE

The CRISPR/Cas9 KO Plasmids are considered "Licensed Products" and are to be used in accordance with the Limited License stated on www.scbt.com/limitedlicense.

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PROTOCOLS

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