

Product datasheet for **KN310182**

Mmp3 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	Mmp3
Locus ID:	17392
Components:	<p>KN310182G1, Mmp3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGGTCTTCCGGTCTGCTG</p> <p>KN310182G2, Mmp3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCCATTGCATGACAGTGCAA</p> <p>KN310182D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG
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TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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GE100003, scramble sequence in pCas-Guide vector

Disclaimer:

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq:

[NM_010809](#)

UniProt ID:

[P28862](#)

Synonyms:

EMS-2; MMP-3; SL-1; SLN-1; SLN1; Stry1; STR-1; Str1

Summary:

This gene encodes a member of the matrix metalloproteinase family of extracellular matrix-degrading enzymes that are involved in tissue remodeling, wound repair, progression of atherosclerosis and tumor invasion. The encoded protein is activated by the removal of an N-terminal activation peptide to generate a zinc-dependent endopeptidase with a broad range of substrates such as proteoglycans, laminin, fibronectin, elastin, and collagens. This gene is located in a cluster of other matrix metalloproteinase genes on chromosome 9. [provided by RefSeq, Feb 2016]

Product images:

