

Product datasheet for KN304882BN

Dusp6 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo

Symbol: Dusp6 67603 Locus ID:

KN304882G1, Dusp6 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN304882G2, Dusp6 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN304882BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

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 026268 **UniProt ID:** Q9DBB1

Synonyms: 1300019I03Rik; MKP-3; MKP3; PYST1

Summary: Inactivates MAP kinases. Has a specificity for the ERK family (By similarity). Plays an important

> role in alleviating acute postoperative pain (PubMed:24155322, PubMed:28405172). Necessary for the normal dephosphorylation of the long-lasting phosphorylated forms of spinal MAPK1/3 and MAP kinase p38 induced by peripheral surgery, which drives the resolution of acute postoperative allodynia (PubMed:24155322). Also important for

dephosphorylation of MAPK1/3 in local wound tissue, which further contributes to resolution

of acute pain (PubMed:28405172).[UniProtKB/Swiss-Prot Function]



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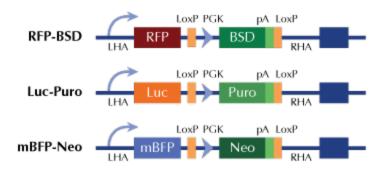
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Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter