

## 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   |
| Locus ID:     | 67603   |
| Components:   | <b>KN304882G1</b> , Dusp6 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)<br><b>KN304882G2</b> , Dusp6 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)<br><b>KN304882BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.<br><b>GE100003</b> , 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:       | <a href="#">NM_026268</a>   |
| UniProt ID:   | <a href="#">Q9DBB1</a>  |
| 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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## Product images:

