

Product datasheet for KN307708RB

Hif1a Mouse Gene Knockout Kit (CRISPR)

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

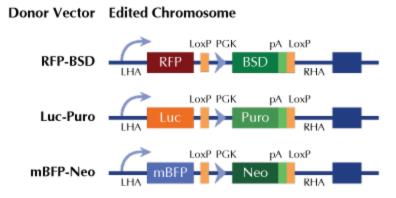
| Product Type: | Knockout Kits (CRISPR) |
|---------------|---|
| Format: | 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control |
| Donor DNA: | RFP-BSD |
| Symbol: | Hif1a |
| Locus ID: | 15251 |
| Components: | KN307708G1 , Hif1a gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN307708G2 , Hif1a gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN307708RBD , donor DNA containing left and right homologous arms and RFP-BSD 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: | <u>NM 010431</u> |
| UniProt ID: | <u>Q61221</u> |
| Synonyms: | AA959795; bHLHe78; HIF-1-alpha; HIF1-alpha; HIF1alpha; MOP1 |
| Summary: | This gene encodes the alpha subunit which, along with the beta subunit, forms a heterodimeric transcription factor that regulates the cellular and developmental response to reduced oxygen tension. The transcription factor has been shown to regulate genes involved in several biological processes, including erythropoiesis and angiogenesis which aid in increased delivery of oxygen to hypoxic regions. The transcription factor also plays a role in the induction of genes involved in cell proliferation and survival, energy metabolism, apoptosis, and glucose and iron metabolism. Alternative splicing results in multiple transcript |

variants encoding different isoforms. [provided by RefSeq, Sep 2015]



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Product images:



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

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