

Product datasheet for KN207479BN

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OTX2 Human 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: OTX2 Locus ID: 5015

Components: KN207479G1, OTX2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN207479G2, OTX2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN207479BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 001270523, NM 001270524, NM 001270525, NM 021728, NM 172337, NR 073034,

NR 073036

UniProt ID: P32243

Synonyms: CPHD6; MCOPS5

Summary: This gene encodes a member of the bicoid subfamily of homeodomain-containing

transcription factors. The encoded protein acts as a transcription factor and plays a role in brain, craniofacial, and sensory organ development. The encoded protein also influences the proliferation and differentiation of dopaminergic neuronal progenitor cells during mitosis. Mutations in this gene cause syndromic microphthalmia 5 (MCOPS5) and combined pituitary hormone deficiency 6 (CPHD6). This gene is also suspected of having an oncogenic role in medulloblastoma. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Pseudogenes of this gene are known to exist on chromosomes two and nine.

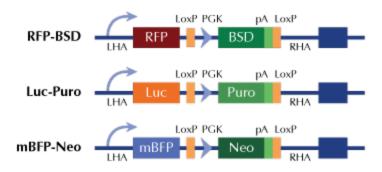
[provided by RefSeq, Jul 2012]





Product images:

Donor Vector Edited Chromosome



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