

## Product datasheet for KN206556LP

#### OriGene Technologies, Inc.

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### Myocilin (MYOC) Human Gene Knockout Kit (CRISPR)

#### **Product data:**

**Product Type:** Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

**Donor DNA:** Luciferase-Puro

Symbol: Myocilin Locus ID: 4653

**Components: KN206556G1**, Myocilin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN206556G2**, Myocilin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN206556LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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 000261</u> **UniProt ID:** 099972

Synonyms: GLC1A; GPOA; JOAG; JOAG1; myocilin; TIGR

**Summary:** MYOC encodes the protein myocilin, which is believed to have a role in cytoskeletal function.

MYOC is expressed in many occular tissues, including the trabecular meshwork, and was revealed to be the trabecular meshwork glucocorticoid-inducible response protein (TIGR). The trabecular meshwork is a specialized eye tissue essential in regulating intraocular pressure, and mutations in MYOC have been identified as the cause of hereditary juvenile-onset open-

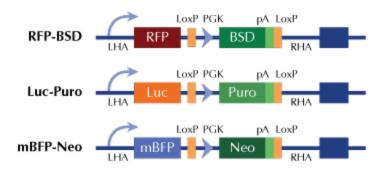
angle glaucoma. [provided by RefSeq, Jul 2008]





# **Product images:**

### Donor Vector Edited Chromosome



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