

Product datasheet for KN205932LP

OriGene Technologies, Inc.

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Myosin Light Chain 2 (MYL2) 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: Myosin Light Chain 2

Locus ID: 4633

Components: KN205932G1, Myosin Light Chain 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN205932G2, Myosin Light Chain 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN205932LPD**, 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 000432</u>

UniProt ID: P10916

Synonyms: CMH10; MLC-2s/v; MLC2

Summary: Thus gene encodes the regulatory light chain associated with cardiac myosin beta (or slow)

heavy chain. Ca+ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in this gene are associated with mid-left ventricular chamber type

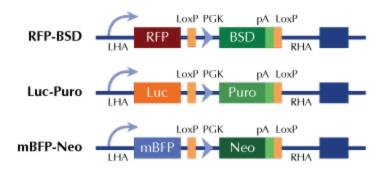
hypertrophic cardiomyopathy. [provided by RefSeg, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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