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Product datasheet for KN211422

Fukutin (FKTN) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control

Donor DNA: GFP-puro

Symbol: Fukutin

Locus ID: 2218

Components: **KN211422G1**, Fukutin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGAACTTGTCAGCGTTAAA
KN211422G2, Fukutin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AATCAATAAGAACGTGGTTT
KN211422D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.
Homologous arm and GFP-puro sequences:
pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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CAGCTCCGGT TCCCAACGAT C

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.

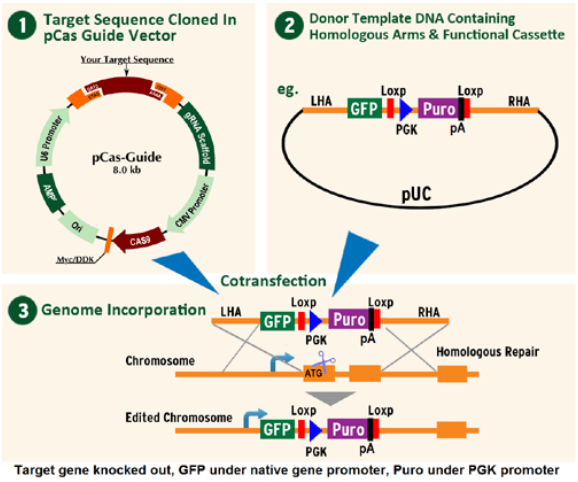
RefSeq: NM_001079802, NM_001198963, NM_006731, NM_001351496, NM_001351497, NM_001351498, NM_001351499, NM_001351500, NM_001351501, NM_001351502, NR_147213, NR_147214

UniProt ID: O75072

Synonyms: CMD1X; FCMD; LGMD2M; MDDGA4; MDDGB4; MDDGC4

Summary: The protein encoded by this gene is a putative transmembrane protein that is localized to the cis-Golgi compartment, where it may be involved in the glycosylation of alpha-dystroglycan in skeletal muscle. The encoded protein is thought to be a glycosyltransferase and could play a role in brain development. Defects in this gene are a cause of Fukuyama-type congenital muscular dystrophy (FCMD), Walker-Warburg syndrome (WWS), limb-girdle muscular dystrophy type 2M (LGMD2M), and dilated cardiomyopathy type 1X (CMD1X). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2010]

Product images:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter