

Product datasheet for **KN204264**

MFSD2A 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: MFSD2A
Locus ID: 84879
Components: **KN204264G1**, MFSD2A gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAGCACTGAACGCCCGGCC
KN204264G2, MFSD2A gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCGAGAGCGGCTCCGCGGCC
KN204264D, 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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 ATGGGGGATC ATGTAACCTG CCTT

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_001136493](#), [NM_001287808](#), [NM_001287809](#), [NM_032793](#), [NR_109896](#), [NM_001349821](#), [NM_001349822](#), [NM_001349823](#)

UniProt ID:

[Q8NA29](#)

Synonyms:

MCPH15; MFSD2; NLS1

Summary:

The protein encoded by this gene is a transmembrane protein and sodium-dependent lysophosphatidylcholine transporter. The encoded protein is involved in the establishment of the blood-brain barrier and is required for brain growth and function. Defects in this gene are a cause of a progressive microcephaly syndrome. [provided by RefSeq, Mar 2017]

Product images:

