

Product datasheet for KN203765BN

MAT1A 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: MAT1A

4143 Locus ID:

KN203765G1, MAT1A gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN203765G2, MAT1A gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN203765BND, donor DNA containing left and right homologous arms and mBFP-Neo

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.

NM 000429 RefSeq:

UniProt ID: Q00266

Synonyms: MAT; MATA1; SAMS; SAMS1

Summary: This gene catalyzes a two-step reaction that involves the transfer of the adenosyl moiety of

ATP to methionine to form S-adenosylmethionine and tripolyphosphate, which is

subsequently cleaved to PPi and Pi. S-adenosylmethionine is the source of methyl groups for most biological methylations. The encoded protein is found as a homotetramer (MAT I) or a homodimer (MAT III) whereas a third form, MAT II (gamma), is encoded by the MAT2A gene. Mutations in this gene are associated with methionine adenosyltransferase deficiency.

[provided by RefSeq, Jul 2008]



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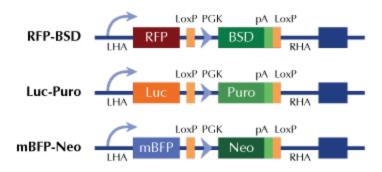
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Product images:

Donor Vector Edited Chromosome



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