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Product datasheet for KN203765

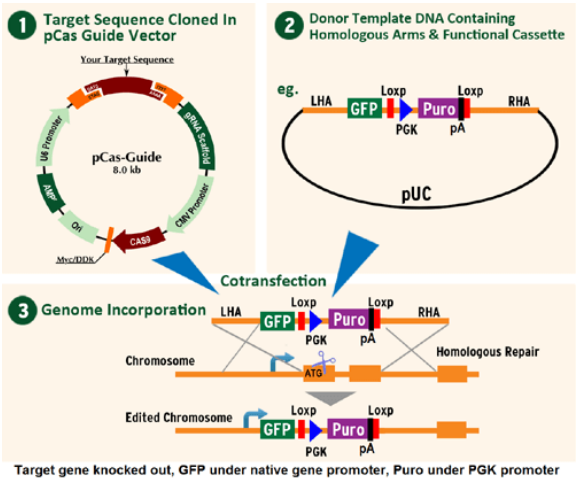
MAT1A Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	MAT1A
Locus ID:	4143
Components:	**KN203765G1**, MAT1A gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN203765G2**, MAT1A gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGACTCCTTCACTTAGAGAG **KN203765D**, donor DNA containing left and right homologous arms and GFP-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:	NM_000429
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]

View online »

Product images:



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