

Product datasheet for KN200758RB

OriGene Technologies, Inc.

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Signal Peptide Peptidase (HM13) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD

Symbol: Signal Peptide Peptidase

Locus ID: 81502

Components: KN200758G1, Signal Peptide Peptidase gRNA vector 1 in pCas-Guide CRISPR vector

(GE100002)

KN200758G2, Signal Peptide Peptidase gRNA vector 2 in pCas-Guide CRISPR vector

(GE100002)

KN200758RBD, donor DNA containing left and right homologous arms and RFP-BSD

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 030789, NM 178580, NM 178581, NM 178582

UniProt ID: Q8TCT9

Synonyms: H13; IMP1; IMPAS; IMPAS-1; MSTP086; PSENL3; PSL3; SPP; SPPL1

Summary: The protein encoded by this gene, which localizes to the endoplasmic reticulum, catalyzes

intramembrane proteolysis of some signal peptides after they have been cleaved from a preprotein. This activity is required to generate signal sequence-derived human lymphocyte antigen-E epitopes that are recognized by the immune system, and to process hepatitis C virus core protein. The encoded protein is an integral membrane protein with sequence motifs characteristic of the presenilin-type aspartic proteases. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul

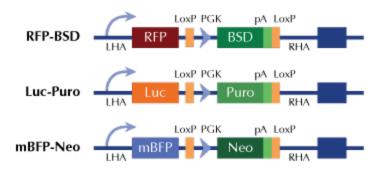
20081





Product images:

Donor Vector Edited Chromosome



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