

Product datasheet for KN208556LP

OriGene Technologies, Inc.

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Heparanase 1 (HPSE) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro Symbol: Heparanase 1

Locus ID: 10855

Components: KN208556G1, Heparanase 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN208556G2, Heparanase 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN208556LPD, donor DNA containing left and right homologous arms and Luciferase-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: <u>NM 001098540, NM 001166498, NM 001199830, NM 006665</u>

UniProt ID: Q9Y251

Synonyms: HPA; HPA1; HPR1; HPSE1; HSE1

Summary: Heparan sulfate proteoglycans are major components of the basement membrane and

extracellular matrix. The protein encoded by this gene is an enzyme that cleaves heparan sulfate proteoglycans to permit cell movement through remodeling of the extracellular matrix. In addition, this cleavage can release bioactive molecules from the extracellular

matrix. Several transcript variants encoding different isoforms have been found for this gene.

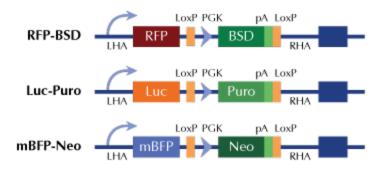
[provided by RefSeq, Sep 2011]





Product images:

Donor Vector Edited Chromosome



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