

Product datasheet for **KN208556**

Heparanase 1 (HPSE) 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: Heparanase 1
Locus ID: 10855
Components: **KN208556G1**, Heparanase 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCAGGGGAGAGGGGACCCAG
KN208556G2, Heparanase 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGACCTGGACTTCTCACCC
KN208556D, 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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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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 AGTTTGCGCA ACGTTGTTGC CATTGCTACA GGCATCGTGG TGTACGCTC GTCGTTTGGT ATGGCTTCA
 TCAGCTCCGG TTCCAACGA TC

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_001098540](#), [NM_001166498](#), [NM_001199830](#), [NM_006665](#)

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:

