

## Product datasheet for **KN205686**

### Asialoglycoprotein Receptor 1 (ASGR1) 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:	Asialoglycoprotein Receptor 1
Locus ID:	432
Components:	<p><b>KN205686G1</b>, Asialoglycoprotein Receptor 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGAAGGTCTTGATACTCCT</p> <p><b>KN205686G2</b>, Asialoglycoprotein Receptor 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCATCAGCTCAGAAAAGGTG</p> <p><b>KN205686D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

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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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

**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\\_001197216](#), [NM\\_001671](#)

**UniProt ID:**

[P07306](#)

**Synonyms:**

ASGPR; ASGPR1; CLEC4H1; HL-1

**Summary:**

This gene encodes a subunit of the asialoglycoprotein receptor. This receptor is a transmembrane protein that plays a critical role in serum glycoprotein homeostasis by mediating the endocytosis and lysosomal degradation of glycoproteins with exposed terminal galactose or N-acetylgalactosamine residues. The asialoglycoprotein receptor may facilitate hepatic infection by multiple viruses including hepatitis B, and is also a target for liver-specific drug delivery. The asialoglycoprotein receptor is a hetero-oligomeric protein composed of major and minor subunits, which are encoded by different genes. The protein encoded by this gene is the more abundant major subunit. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

Product images:

