

## Product datasheet for **KN207649**

### Lass5 (CERS5) 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:** Lass5  
**Locus ID:** 91012  
**Components:** **KN207649G1**, Lass5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGACCCCTAAGCTTGCTGTG  
**KN207649G2**, Lass5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GACGGCTACGGTTACCCCCG  
**KN207649D**, 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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CGGGGCACGA AGGAAGAAA AGTTGGGAG CGAAAAGAAC TCTAGTGGCG GACAGTAGTG GGCAGGACCA
GCTGACATCC AAGAGAAGCC CTGACCTGAG AGATCGATCT GGCCTCCGGG AGTGGAGACA GAGGTACCCG
CTGGGTGGGA GCCGGAACGG ATTCGATTCC AACAGGCTGA GAAAGGAGAA TGTCCCCGTA AAGGAGCTAG
GCCTGAAATA AGGGGTGTGG CCGTAGCTGG ATGGAAGAGT GAGGGAGGAG TAGAAGCGTG GCCTAGACCA
GCAGCAAAG AGGGCCGGCC CAGGGCCGCC CGAGGCGTGG TCCCAGGGCC GGGCTGGGCG AGTCAGAGGC
TCGGGAAGGG GCGTGGATCC CCGGAGGCGG TCCCAGGGTT GCAGTGAGGG AAGTGGGCCG GGAGGAGAGA
TGGGCGGTGA AGAGGCCCGG CCCTGCCAGG GAGGCGGGCG GATCCGTGGC AGTGACCAGA AGGGGCCGGA
AGGGGGTGGC CGCCGGCCGG GCCCCGCCCT GGGGCCGCCCT CCCCGCGGGT TCCGTTGGCT GTGGCGGCAG
CTGACGCTTG TGGCGGCGGT GGCTTCGGGG TGGGCGTAAG CTCGGTGTTC CCGCTGGCGG CGGGCATCTT
CTTCGTGAGG CTGCTCTCG AGCGGTGAGA GCCCGGAGC GAGCGGCTCG GGGGCCGGG CCGGGCCGGG
GGCGCCCCG TGTGGGAAG GCCGAGGGCC GGAAGCAGAA CTGCAAGGAA AGCCCGAAG CAGGGGCTGG
GGGAGCTTG GCCGCGCGG GTGATGCTAG GCGCGTGGC GAGGTGGTAG CCTAGATGGA GAAGGAGTTT
GGGCGTGGG CAAGAGAAAG AGTGAGGGTC TAGGGGAATG CTGGGCCCT TCAATGTTAG ATCCGAGTT
GGATTGGGG GGTCAATAG GCCTCCTCC AACCTCAAAG GGTCTACAG ATGAGGAAAC AGGTTACAGT
TGAGCTCTGG CAGAGGCCCC GAAGAGAGGG ATAGGAAGGG GCCAGGAGAA CCAGAGCTAG TTGTGACCAT
GGAAGCCGAG GGTCAACGC AAGGGCCAGA CGTTCCAAGG GAAAGGAATG GACTCATCAG ACTCTTAAGA
TTTGTTAGGA CGTTGAGTT TCCGAGAATT GGGGGGAACA GGATTAGTTT GGCCCTAAGA GTTGTTGGT
```

**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\\_001281731](#), [NM\\_001331069](#), [NM\\_001331070](#), [NM\\_001331071](#), [NM\\_001331072](#), [NM\\_001331073](#), [NM\\_147190](#), [NR\\_104035](#), [NR\\_138532](#), [NR\\_138533](#), [NR\\_138534](#), [NR\\_138535](#), [NR\\_138536](#)

**UniProt ID:** [Q8N5B7](#)

**Synonyms:** LASS5; Trh4

**Summary:** This gene encodes a protein that belongs to the TLC (TRAM, LAG1 and CLN8 homology domains) family of proteins. The encoded protein functions in the synthesis of ceramide, a lipid molecule that is involved in a several cellular signaling pathways. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

### Product images:

