

Product datasheet for **KN213986**

USP7 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:	USP7
Locus ID:	7874
Components:	<p>KN213986G1, USP7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTTGAGCGAGCCCCGAGGACA</p> <p>KN213986G2, USP7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGAGGCCCGAGGGCCGCGCCG</p> <p>KN213986D, 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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 GGGGGATCAT GTAACCTGCC TT

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_001286457](#), [NM_001286458](#), [NM_003470](#), [NM_001321858](#), [NR_135826](#)

UniProt ID:

[Q93009](#)

Synonyms:

HAUSP; TEF1

Summary:

The protein encoded by this gene belongs to the peptidase C19 family, which includes ubiquitinyl hydrolases. This protein deubiquitinates target proteins such as p53 (a tumor suppressor protein) and WASH (essential for endosomal protein recycling), and regulates their activities by counteracting the opposing ubiquitin ligase activity of proteins such as HDM2 and TRIM27, involved in the respective process. Mutations in this gene have been implicated in a neurodevelopmental disorder. [provided by RefSeq, Mar 2016]

