

## Product datasheet for **KN211552**

### GGT1 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:** GGT1  
**Locus ID:** 2678  
**Components:** **KN211552G1**, GGT1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCCCATGTGTAAGCTTCGCT  
**KN211552G2**, GGT1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGGGGTGAAGGTATTGCTC  
**KN211552D**, 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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 GATCATGTAA CTCGCCTT

**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\\_001032364](#), [NM\\_001032365](#), [NM\\_001288833](#), [NM\\_005265](#), [NM\\_013421](#), [NM\\_013430](#)

**UniProt ID:**

[P19440](#)

**Synonyms:**

CD224; D22S672; D22S732; GGT; GGT 1; GTG

**Summary:**

The enzyme encoded by this gene is a type I gamma-glutamyltransferase that catalyzes the transfer of the glutamyl moiety of glutathione to a variety of amino acids and dipeptide acceptors. The enzyme is composed of a heavy chain and a light chain, which are derived from a single precursor protein. It is expressed in tissues involved in absorption and secretion and may contribute to the etiology of diabetes and other metabolic disorders. Multiple alternatively spliced variants have been identified. There are a number of related genes present on chromosomes 20 and 22, and putative pseudogenes for this gene on chromosomes 2, 13, and 22. [provided by RefSeq, Jan 2014]

Product images:

