

Product datasheet for **KN205703**

LYPD1 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: LYPD1
Locus ID: 116372
Components: **KN205703G1**, LYPD1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAAAAAGTTGCCGCGATGCCT
KN205703G2, LYPD1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCGCCCGAGGTGGGCGCCTT
KN205703D, 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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TGGCAACAAC GTTGCACAAA CTATTAACCTG GCGAACTACT TACTCTAGCT TCCCAGCAAC AATTAATAGA
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 CTGCGGCCAA CTTACTTCTG ACAACGATCG GAGGACCGAA GGAGCTAACC GCTTTTTTGC ACAACATGGG
 GGATCATGTA ACTCGCCTT

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_001077427](#), [NM_001321234](#), [NM_001321235](#), [NM_144586](#)

UniProt ID:

[Q8N2G4](#)

Synonyms:

LYPDC1; PHTS

Summary:

Believed to act as a modulator of nicotinic acetylcholine receptors (nAChRs) activity. In vitro increases receptor desensitization and decreases affinity for ACh of alpha-4:beta-2-containing nAChRs. May play a role in the intracellular trafficking of alpha-4:beta-2 and alpha-7-containing nAChRs and may inhibit their expression at the cell surface. May be involved in the control of anxiety.[UniProtKB/Swiss-Prot Function]

