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# Product datasheet for KN201012

## PTDSS1 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:** PTDSS1

**Locus ID:** 9791

**Components:** **KN201012G1**, PTDSS1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTTGCTGCTCGTTGATCATC
**KN201012G2**, PTDSS1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGGAGCCGGACCCTAAGCA
**KN201012D**, 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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ACTGCGGCCA ACTTACTTCT GACAACGATC GGAGGACCGA AGGAGCTAAC CGCTTTTTTG CACAACATGG
GGGATCATGT AACTCGCCTT

**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.

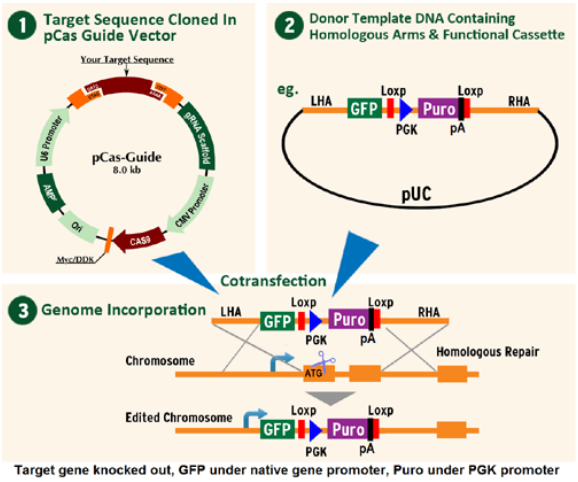
**RefSeq:** NM_001290225, NM_014754

**UniProt ID:** P48651

**Synonyms:** LMHD; PSS1; PSSA

**Summary:** The protein encoded by this gene catalyzes the formation of phosphatidylserine from either phosphatidylcholine or phosphatidylethanolamine. Phosphatidylserine localizes to the mitochondria-associated membrane of the endoplasmic reticulum, where it serves a structural role as well as a signaling role. Defects in this gene are a cause of Lenz-Majewski hyperostotic dwarfism. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2014]

## Product images:




Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter