

Product datasheet for **KN206187**

TXNDC (TMX1) 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: TXNDC
Locus ID: 81542
Components: **KN206187G1**, TXNDC gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTCCGCCGCCCGTGCCTCCA
KN206187G2, TXNDC gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGAAGTCAAGACTCCCGG
KN206187D, 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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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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_030755](#)

UniProt ID:

[Q9H3N1](#)

Synonyms:

PDIA11; TMX; TXNDC; TXNDC1

Summary:

This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, a catalytically active thioredoxin domain, and one transmembrane domain. Unlike most members of this gene family, it lacks a C-terminal ER-retention sequence. The mature membrane-bound protein can both oxidize and reduce disulfide bonds and acts selectively on membrane-associated polypeptides. [provided by RefSeq, Jan 2017]

Product images:

