

Product datasheet for **KN318506RB**

Txn1 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD

Symbol: Txn1

Locus ID: 22166

Components: **KN318506G1**, Txn1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)
KN318506G2, Txn1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)
KN318506RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.
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_011660](#)

UniProt ID: [P10639](#)

Synonyms: ADF; AW550880; Trx1; Txn

Summary: Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions (By similarity). Plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Nitrosylates the active site Cys of CASP3 in response to nitric oxide (NO), and thereby inhibits caspase-3 activity. Induces the FOS/JUN AP-1 DNA binding activity in ionizing radiation (IR) cells through its oxidation/reduction status and stimulates AP-1 transcriptional activity (By similarity).
[UniProtKB/Swiss-Prot Function]



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Product images:

