OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for KN207917

Tripeptidyl peptidase II (TPP2) 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: Tripeptidyl peptidase II

Locus ID: 7174

Components: **KN207917G1**, Tripeptidyl peptidase II gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCACGGTCTCCTGCCGAAGA
KN207917G2, Tripeptidyl peptidase II gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGCCGCTACCCGGAGTATGA
KN207917D, 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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TGGATAACCG TATTACCGCC TTTGAG

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_003291, NM_001330588, N27441, NR_160411, NM_001367947

UniProt ID: P29144

Synonyms: TPP-2

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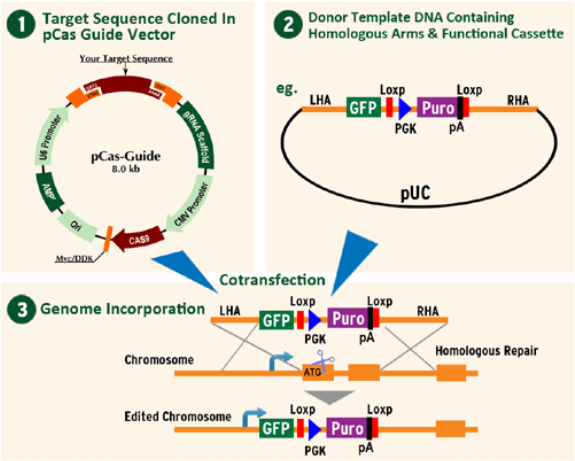
Summary: This gene encodes a mammalian peptidase that, at neutral pH, removes tripeptides from the N terminus of longer peptides. The protein has a specialized function that is essential for some MHC class I antigen presentation. The protein is a high molecular mass serine exopeptidase; the amino acid sequence surrounding the serine residue at the active site is similar to the peptidases of the subtilisin class rather than the trypsin class. [provided by RefSeq, Jul 2008]

Product images:



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

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