

Product datasheet for KN221132LP

OriGene Technologies, Inc.

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TREM2 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: TREM2 Locus ID: 54209

Components: KN221132G1, TREM2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN221132G2, TREM2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN221132LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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: <u>NM 001271821</u>, <u>NM 018965</u>

UniProt ID: Q9NZC2

Synonyms: TREM-2; Trem2a; Trem2b; Trem2c

Summary: This gene encodes a membrane protein that forms a receptor signaling complex with the

TYRO protein tyrosine kinase binding protein. The encoded protein functions in immune response and may be involved in chronic inflammation by triggering the production of constitutive inflammatory cytokines. Defects in this gene are a cause of polycystic

lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by

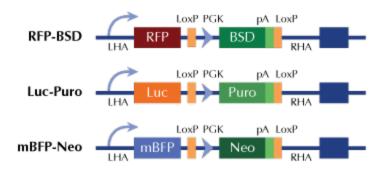
RefSeq, Nov 2012]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter