

## Product datasheet for **KN221132**

### TREM2 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:	TREM2
Locus ID:	54209
Components:	<p><b>KN221132G1</b>, TREM2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGTAAGATGAGCAGCCGGAG</p> <p><b>KN221132G2</b>, TREM2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAGGCATCACAGGGCACGGA</p> <p><b>KN221132D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> <p>Homologous arm and GFP-puro sequences:  pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet</p> <pre> CAGGGAACAG ACACAGGTAG GTTTTGGATG TGTGGTTACA CACCCAGAAA GTCAGGAAGT CTGGCTCCAG AGCTGTGTAC TTAAGTGTG CCACACTACA GGAATGACAG CCCTGGGGGG ATGAACCTAA AGGTGCTGGA TGAGGGTCTT GGCCTCTAAA GGCACAGCTG TTCTCCAACCT CTTGCAAGGC TGAAACCAGA AGATGGCGGG CATTGCAGCT GGTGGAGGGT CTGAATACAG CTGTGAGGAT AGTGATCCCT GGGCTAGGCT CTGCAAGGAA ACTGAGCAGT GCAGGGCCTT ACCAGCCCCA ACCATCTGGG GGCCACCCTG GCTGGCACCA GCAGGAGGGT GGGCTGGCTT CTCAGAGGTC TGGGAGACTC AGCCTCCTTC TGCCAGGGCT GCAGTGGCCG ACTCCTCCTC CCCTCTGTCC CCACCCTGCA CCGCCTCCAG ACCCCAGTCC TGAATTGTC TTAATCCCCA GGAGCCCAGT TCCTGTGGGC AGCGCCTGAC ATGCCTGATC CTCTCTTTTC TGCAGTTCAA GGGAAAGACG AGATCTTGCA CAAGGCACTC TGCTTCTGCC CTTGGCTGGG GAAGGGTGGC AAGGCGGTGG CAGTCTCCGC ATGCCTGAGT GCCCTGTTCT GCACTCCTCT CCTCCCCACC CTGCCCATAT TCTTCACACC CTCCTTCCCT CCCCAGTATC AAAACCTACC CTCAGACTCT TTCTGCATGT GGACATGTAA GGGGCTGGTG GACTCTGGTT GCATTGGAAG GGAAGGAGTG CTAACAGTGG CATCCCAGGC ACTAGCTGGC AGTTGGGGGA AGCTTTGGGG GGCAGTGGCA CTGGTAATAG CCTCTGAAAT TATAAGCCAC TAATTATGAG CCCCTACAGT TATAAAGGAG GAAAGAACCT GAGGATGTTT ATCTGCATCT TTGGGGCACT CTCTCCCTG CTCTGAAGGT CCCCTTGTC TCAGCTCTTG ATGGGAGGTG AGGAGCGTAG AGATTTCCGT TGCTGAGTTG AGGGGAATTG ACACACAAA TTTTGTACA CAATTGCTTC TTCCCGCTGA GAAAAGCGCA CCTTTTGCTC CCCCAGAGCA CTGGACAAA CTGGGCAAGA GGAGAGACGG TGCCAAATGG AGTCTTGTTT CTGCAGCTTC TTAGATGGTG GTCAGGGGGA AGGCGGGGTT CTGAGGCATG </pre> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>



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**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\\_001271821](#), [NM\\_018965](#)

**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 (PLOS). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2012]

### Product images:

