

## Product datasheet for **KN221132RB**

### TREM2 Human 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:       | TREM2   |
| Locus ID:     | 54209   |
| Components:   | <b>KN221132G1</b> , TREM2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)<br><b>KN221132G2</b> , TREM2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)<br><b>KN221132RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette.<br><b>GE100003</b> , 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:     | <a href="#">NM_001271821</a> , <a href="#">NM_018965</a>  |
| UniProt ID: | <a href="#">Q9NZC2</a>  |
| 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] |



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## Product images:

