

## Product datasheet for **RC232179**

### TREM2 (NM\_001271821) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TREM2 (NM\_001271821) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TREM2  
**Synonyms:** PLOSL2; TREM-2; Trem2a; Trem2b; Trem2c  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC232179 representing NM\_001271821  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCTCTCCGGCTGCTCATCTTACTCTTTGTACAGAGCTGTCCGGAGCCACAACACCACAGTGT  
TCCAGGGCGTGGCGGCCAGTCCCTGCAGGTGTCTTGCCCTATGACTCCATGAAGCACTGGGGAGGCG  
CAAGGCCTGGTCCCGCCAGCTGGGAGAGAAGGGCCATGCCAGCGTGTGGTCAGCACGCACAACCTGTGG  
CTGCTGCTCCTTCTGAGGAGTGAATGGGAGCACAGCCATCACAGACGATACCTGGGTGGCACTCTCA  
CCATTACGCTGCGGAATCTACAACCCATGATGCGGGTCTCTACCAGTCCAGAGCCTCCATGGCAGTGA  
GGCTGACACCCTCAGGAAGGTCCCTGGTGGAGGTGCTGGCAGACCCCTGGATCACCGGGATGCTGGAGAT  
CTCTGGTTCCCGGGGAGTCTGAGAGCTTCGAGGATGCCATGTGGAGCACAGCATCTCCAGGGCTGAGA  
GACACGTGAAGGAAGATGATGGGAGGAAAAGCCCAGGAGAAGTCCCACCAGGGACCAGCCAGCCTGCAT  
ACTTGCCACTTGGCCACCAGGACTCCTTGTCTGCTCTGGCAAGAGACTACTCTGCTGAACACTGCTTC  
TCCTGGACCCTGGAAGCAGGGACTGGT

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC232179 representing NM\_001271821  
Red=Cloning site Green=Tags(s)

MEPLRLLILLFVTELSGAHNTTVFQGVAGQSLQVSCPYDSMKHWGRRKAWCRQLGEKGPCQRVVSTHNLW  
 LLSFLRRWNGSTAITDDTLGGTLTITLRNLQPHDAGLYQCQSLHGSEADTLRKVLVEVLADPLDHRDAGD  
 LWFPGESESFEDAHVEHSISRERHVKEDDGRKSPGEVPPGTSPACILATWPPGLLVLLWQETTLPEHCF  
 SWTLEAGTG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001271821

**ORF Size:** 657 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001271821.2](#)

**RefSeq Size:** 882 bp

**RefSeq ORF:** 660 bp

**Locus ID:** 54209

**UniProt ID:** [Q9NZC2](#)

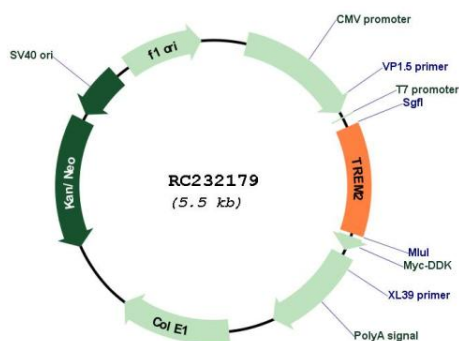
**Cytogenetics:** 6p21.1

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**MW:** 24.8 kDa

**Gene 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:



Circular map for RC232179