

Product datasheet for **SC113273**

TREM2 (NM_018965) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TREM2 (NM_018965) Human Untagged Clone
Tag:	Tag Free
Symbol:	TREM2
Synonyms:	PLOSL2; TREM-2; Trem2a; Trem2b; Trem2c
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_018965 edited
GAATTCGGCACGAGGCTGGAGCCGCCCCCGGGACGTCAGTCCTGGAGGAGGCGAGGGTTG
CTCCGGTTGCTAAGAAGACTATGAACAAGTCAGAGAACCTGCTGTTTGGTGGTTCATCAT
TAGCATACAAGTCCATGCTGCTGCCGTTAATGGAGATAAGGGTGCTCTACAGAGGCTCA
TCGTAGGAAACTCTGCTCTTAAAGACAAAGAAGATCAGTTTGGGAGAACCACCTATGT
ATTGCGTGTGGCTGACAGATTGGATTGTGCAGATGCTCTTCTGAAGGCAGGAGCAGATG
TGAATAAAACTGACCATAGCCAGAGAACAGCCCTCCATCTTGCAGCCCAGAAGGGAAATT
ATCGTTTTCATGAAACTCTTACTTACACGCAGAGCAAACCTGGATGCAAAAGGATCTGGAAG
AGATGACTCCTTTGCACTTGACCACCCGCGCACAGGAGCCCTAAGTGTGGCACTTCTGC
TGAAGTTTATGGCACCAGGAGAAGTGGATACACAGGATAAAAAACAAGCAAACAGCTCTGC
ATTGGAGTGCCTACTACAATAACCCTGAGCATGTGAAGCTGCTCATCAAGCATGATTCTA
ACATTGGGATTCCTGATGTTGAAGGCAAGATCCCACCTCACTGGGCAGCCAACCAATAAG
ATCCAAGTGTGTTACACAGTGAGATGCATTCTGGATGCTGCTCAACAGAGTCTTTAC
TGAAGTGGCAAGACTACGAGGGTCGAACTCCTCTTCACTTGCAGTTGCTGATGGGAATG
TGACCGTGGTTGATGCTTGGACCTCATATGAAAGCTGCAATATAACGTCTTATGATAACT
TATTTTCGAAACCCACTGCACTGGGCAGCTTTATTAGGCCATGCACXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXAAAAACAAAACAAAACCTTGACTGCCTATGAAGGAAGACTGTGTTCCG
GGGAGCTGGCATAGCTAGTGCAGAGTTCAGATTTTCTGCTGATAATCTTTTACACCTTGG
GAAAACTTAATATCCGTACCTGAAGGCTGATTACCTAAAAATGTGTTAACTGAAAGAA
AATGTCAGAAATGTTTCCTTTCTGCTCTTACACAGCATTGTTTGTCAATCAACACAGCCT
GCACTGAAAGGACCTGCATAGACTATGTCTGTGCAAAGTGCCCTGAGTGTCTGCTTACC
TCAGTCTGTACAGTTGGAATGAGAATTCATAATTAACAGCAAATCTAAGGAAAACCTAC
GGCTGCTGGGTTGGGATTTCTGCCAGCTAGCTGGTACTGGCTTCTTGTTCAGAGATGA
ACCTAAATGAGATAGGAAGCCTGTCCCATAGCAGCCTTCTCTCACTACTTTCTGGCAT
CTAATGCAACAACTTATCACACACACACACACACACACACACACACACACATCACGT
CCCCTATTACTTCAAAATTAATCAGGTTAAATTTTAGATCAGAATCATTGCCCACTGT
TTTCATTTAGAAATGTCCAAAAGACCATAGATACATTCTGGTATTCTTACATTTTAC
AGTTCCTACGTTAGCCTCTCAAGGCCACAAGTTGCCGCCACGCTTCACTGAATGACTTT
CTCAGTGTGAATACCAACAGCCGTATTACAGTATCAAGGATTCTGTCAGGTAGGGTTA
CAGACCAGACTGTTTCATGCAGCAAGGTGCTAACTCAGGCGTCAACGTTCTACTTGTATTT
TCTGACCAACTTGCAGAAGTGAGCAATCTTCTTAAATGCCATTTCTGTTGGCAGGTAAG
AATGAAACGGCACACATCTAGCATTCTAAGAACACCTGGTXXXXXXXXXXXXXXXXAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAACTCGAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018965 unedited
 TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTGACATGCCTGAT
 CCTCTCTTTTCTGCAGTTCAAGGAAAGACGAGATCTTGACAAAGGCACTCTGCTTCTGC
 CCTTGGCTGGGGAAGGGTGGCATGGAGCCTCTCCGGCTGCTCATTTACTCTTTGTACACA
 GAGCTGTCCGGAGCCACAACACCACAGTGTCCAGGGCGTGGCGGGCCAGTCCCTGCAG
 GTGTCTTGCCCTATGACTCCATGAAGCACTGGGGGAGGCGCAAGGCTGGTGCCGCCAG
 CTGGGAGAGAAGGGCCCATGCCAGCGTGTGGTCAGCACGCACAACCTTGTGGCTGCTGTCC
 TTCTGAGGAGGTGGAATGGGAGCACAGCCATCACAGACGATACCCTGGGTGGCACTCTC
 ACCATTACGCTGCGGAATCTACAACCCCATGATGCGGGTCTCTACCAGTGCCAGAGCCTC
 CATGGCAGTGAGGCTGACACCCTCAGGAAGGTCCTGGTGGAGGTGCTGGCAGACCCCTG
 GATCACCGGGATGCTGGAGATCTCTGGTCCCCGGGGAGTCTGAGAGCTTCGAGGATGCC
 CATGTGGAGCACAGNNTNTCCAGGAGCCTCTTGAAGGAGAAAATCCCCTTCCACCCACT
 TCCATCCTTCTCCTCTGGCCTGCATCTTCTCATCAAGATTCTAGCAGCCAGCGCCCTC
 TGGGCTGCAGCCCTGCATGGACAGAAAGCCAGGACACATCCACCCAGTGACCTGGACTGT
 GGCCATGACCCCAAGTATCAGCTCCAAACTCTGCCANGGCTGAGAGACACGTGAAGGAAA
 AGATGGGAGGAAAAGCCAGNAGAATTCCACCAGGGACANNCCAGCCTGCATACTTTGCA
 CTTGGCACCAGACCTTCTGTCTGCTCTGAGAACTCTTGCTGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018965 unedited
 GAACCGCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTAAATATGACAGTCT
 TGGATTTATTTGTAAGTGTAAAAATGTCCAATATTCAGAAGTTGTCAGGTGTTCTTACC
 ACCTCCCCTCCCTCAACCAGTCCCTGCTTCCAGGGTCCAGGAGAAGCAGTGTTCAGGC
 AGAGTAGTCTCTTGCCAGAGCAGAAACAAGGAGTCTGGTGGCCAAGTGGCAAGTATGCAG
 GCTGGGCTGGTCCCTGGTGGGACTTCTCCTGGGCTTTTCTCCCATCATCTTCTTCCAGC
 TGTCTCTCAGCCCTGGCAGAGTTTGGAGCTGATACCCTGGGTCATGGCCACAGTCCAGTT
 CACTGGGTGGATGTGTCCTGGCTTCTGTCCATGCCAGGCTGCAGCCAGAGGGCGCTGG
 CTGCTAGAATCTTGATGAGAAAGATGCAGGCCAGGAGGAGAAGGATGGAAGTGGGTGGGA
 AGGGGATTTCTCCTTCCAAGAGGCTCCTGGAGATGCTGTGCTCCACATGGGCATCCTCGA
 AGCTCTCAGACTCCCCGGGGAACCAGAGATCTCCAGCATCCCGGTGATCCAGGGGTCTG
 CCAGCACCTCCACCAGGACCTTCTGAGGGTGTGAGCCTCACTGCCATGGAGGCTCTGGC
 ACTGGTAGAGACCCCGCATCATGGGGTTGTAGATTCCCGCAGCGTAATGGTGAGAGTGCCA
 CCCAGGTATCGTCTGTGATGGCTGTGCTCCATTCCACCTCCTCAGAAGACAGCAGCCA
 CAAGTTGTGCGTGTGACACCCGCTGGCATGGGCCCTTCTCTCCACCTGCGGGAACC
 AGCCCTTGCGCCCCCCCAGTGTCTTATGGNAGTCATAGGGCCAAGACACCTGCAAGAAC
 TTGGCCCCNCCCGCTGAACACTGGGTAGTGGTGGCTCCGACACTTCTGGA

Restriction Sites:

NotI-NotI

ACCN:

NM_018965

Insert Size:

1140 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_018965.1](#), [NP_061838.1](#)

RefSeq Size: 1041 bp

RefSeq ORF: 693 bp

Locus ID: 54209

UniProt ID: [Q9NZC2](#)

Cytogenetics: 6p21.1

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).