

Product datasheet for MC212739

Trem14 (NM_001033922) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trem14 (NM_001033922) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trem14
Synonyms:	5031403H21Rik; BB137214; IDCP1; TLT-4; TLT4; Trem13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC212739 representing NM_001033922 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTGGAGGTAATCACAACCTGCTCCTGGTCCCTGTGCAGCTGGTGTTCCTGGCCTCAGGTGTCTGGG
 GGTCCACAGTATCTGAAGAGCTTCATAGAATGGTAGGACAGAGCCTCTCCGTGCAGTGCCAATACAAGCC
 TAAGGAGGAGTCTATGTGCTGAAAACGTGGTGTGGGCAACAGCCCAAGTAAATGTACGAGAGTGGTC
 ACTACCTCTGAGCCTCGAAAAGCAGCCAGGGAATTACAGCACACAATCTGGGATGATCCTGAAGCTGGCT
 TCTTCAACATCACCATGACTCACTAACAGAGGATGACTCAGCGTCTACTGGTGTGGTCCATATTATCC
 TTCCCTCAGAGAAAGTAACTGTTCTCAGAAACATCAGCCTGGTGGTGTGGCAGCCCATCAACCCCTCCT
 TCGCAGACGATTGCTCCGCTCCCAGAAAGCACAGCCACCATCTTTATGCCCTTCCAGTTCTGACTACCT
 CTCCCGAGGAGACCACTGACTCTTCCATCAATGGCACTGGGCACAGAAACCAAGTTCTCCTCTCCTGG
 CTGGACCTCCCCGGGGCTTCTGGTCTCTGTGCAATATGGACTCCTCCTGCTCAAGGCCCTGATGCTGTCA
 GTTTTCTGTGTGCTTCTTTGCTGGAGGAGTGGCCAGGGACGAGAGTACATGGCAGAGACGATGGAGCTTT
 CAAAACCTACCTCACATCTCCAAGTCTTGGACACGGTTAGCCACATCTCAGGGTATGAGAAGAAGGCTAA
 CTGGTAC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001033922
Insert Size:	780 bp


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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001033922.2](#), [NP_001029094.1](#)

RefSeq Size: 1730 bp

RefSeq ORF: 780 bp

Locus ID: 224840

UniProt ID: [Q3LRV9](#)

Cytogenetics: 17 C

Gene Summary:

Positively regulates Toll-like receptor signaling via TLR7, TLR9 and TLR13 in neutrophils and splenic macrophages (PubMed:25848864). Regulates TLR7 signaling by controlling ligand-induced recruitment of TLR7 from the endoplasmic reticulum to endosomes and lysosomes (PubMed:25848864). Positively regulates Toll-like receptor TLR9-induced production of inflammatory cytokines but is dispensable for IFNB1 production (PubMed:25848864). Involved in the anti-viral response to several viruses including influenza virus, vesicular stomatitis virus and cytomegalovirus (PubMed:25848864). Binds to late apoptotic, and necrotic cells, but not living or early apoptotic cells, but is not essential for uptake of dying cells by dendritic cells (DCs) (PubMed:22210914, PubMed:19155473, PubMed:25848864). Does not bind nucleic acids (PubMed:25848864). May participate in antigen presentation (PubMed:22210914). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) uses alternate in-frame splice junctions at the 5' ends of two exons compared to variant 3. The resulting isoform (1) has the same N- and C-termini but is shorter compared to isoform 3.