

Product datasheet for MR215195

Trem14 (NM_172623) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trem14 (NM_172623) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>MR215195 representing NM_172623 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCCTGGAGGTA CT CACA AACTGCTCCTGGTCCCTGTGCAGCTGGTGTTCCTGGCCTCAGTTTGTGTGTC
CAGGTGTCTGGGGTCCACAGTATCTGAAGAGCTTCATAGAATGGTAGGACAGAGCCTCTCCGTGCAGTG
CCAATACAAGCCTAAGGAGGAGTCTATGTGCTGAAAACGTGGTGTGGCAAACAGCCCCAAGTAAATGT
ACGAGAGTGGTCACTACCTCTGAGCCTCGGAAAGCAGCCAGGGAATTACAGCACACAATCTGGGATGATC
CTGAAGCTGGCTTCTTCAACATCACCATGACTCAACTAACAGAGGATGACTCAGCGTTCTACTGGTGTGG
TCCATATTATCCTTCCCTCAGAGAAGTAACTGTTCTCAGAAACATCAGCCTGGTGGTGTGCCAGCCCCA
TCAACCCTTCTTCGAGACGATTGCTCCGCTCCAGAAAGCACAGCCACCATCTTTATGCCCTTCCAG
TTCTGACTACCTCTCCCGAGGAGACCACTGACTCTTCCATCAATGGCACTGGGCACAGAAACCAAAGTTC
CTCCTCTCCTGGCTGGACCTCCCCGGGGCTTCTGGTCTCTGTGCAATATGGACTCCTCTGCTCAAGGCC
CTGATGCTGT CAGTTTCTGTGTCTTCTTGTGGAGGAGTGGCCAGGGACGAGAGTACATGGCAGAGA
CGATGGAGCTTCAA AACTACCTCACATCTCCAAGTCTTGGACACGGTTAGCCACATCTCAGGGTATGA
GAAGAAGGCTAACTGGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR215195 representing NM_172623
 Red=Cloning site Green=Tags(s)

MAWRYSQLLLVPVQLVFLASVCCPGVWGSTVSEELHRMVGQSLSVQCQYKPKESYVVKTWCRQTAPSKC
 TRVVTTSEPRKAARELQHTIWDDEAGFFNITMTQLTEDDSAFYWCOPYPSLREVTVLRNISLVVSPAP
 STLPSQTIAPLPESTATIFMPFPVLTTSPEETDSSINGTGHRNQSSSSPGWTSPGLLVSVQYGLLLLLKA
 LMLSVFCVLLCWRSGQGREYMAETMELSKLPHISKSLDTVSHISGYEKKANWY

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_172623

ORF Size: 789 bp

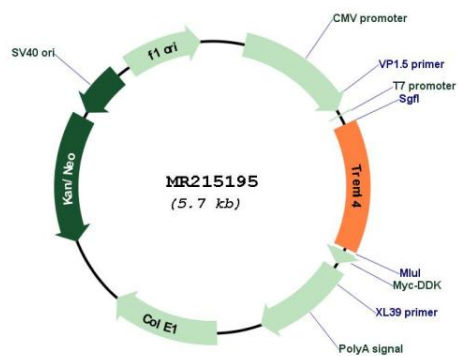
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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:	<u>NM_172623.2</u> , <u>NP_766211.2</u>
RefSeq Size:	1742 bp
RefSeq ORF:	792 bp
Locus ID:	224840
UniProt ID:	<u>Q3LRV9</u>
Cytogenetics:	17 C
MW:	29.8 kDa
Gene Summary:	<p>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 IFNβ1 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]</p>

Product images:



Circular map for MR215195