

## Product datasheet for MR215195L3

### Trem14 (NM\_172623) Mouse Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trem14 (NM_172623) Mouse Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Trem14
Synonyms:	5031403H21Rik; BB137214; IDCP1; TLT-4; TLT4; Trem13
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR215195).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

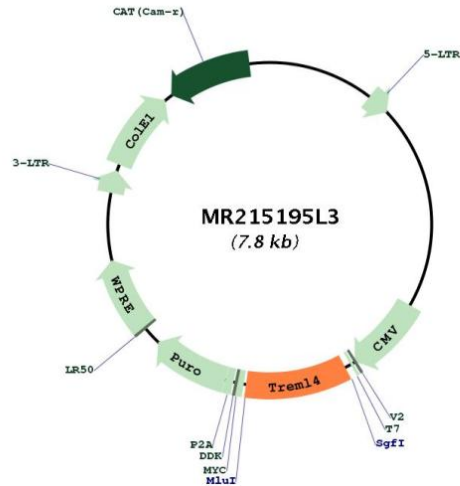
Cloning sites used for ORF Shuttling:



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



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**Plasmid Map:**


**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:**

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\\_172623.2](#), [NP\\_766211.2](#)

**RefSeq Size:** 1742 bp

**RefSeq ORF:** 792 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]