

Product datasheet for **TR506682**

Trem14 Mouse shRNA Plasmid (Locus ID 224840)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Trem14 Mouse shRNA Plasmid (Locus ID 224840)
Locus ID:	224840
Synonyms:	5031403H21Rik; BB137214; IDCP1; TLT-4; TLT4; Trem13
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Trem14 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 224840). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC117091 , NM_001033922 , NM_001163795 , NM_001163796 , NM_172623 , NM_172623.1 , NM_172623.2 , NM_001163796.1 , NM_001033922.1 , NM_001033922.2 , NM_001163795.1 , BC137666
UniProt ID:	Q3LRV9
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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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**Performance
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).