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Product datasheet for MR228773

Trem2 (NM_001272078) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trem2 (NM_001272078) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trem2
Synonyms:	Trem; TREM-2; Trem2a; Trem2b; Trem2c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR228773 representing NM_001272078
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGACCTCTCCACCAGTTTCTCCTGCTGCTGATCACAGCCCTGTCCCAAGCCCTCAACACCACGGTGC
TGCAGGGCATGGCCGGCCAGTCCTTGAGGGTGTCATGTACTTATGACGCCTTGAAGCACTGGGGGAGACG
CAAGGCCTGGTGTCGGCAGCTGGGTGAGGAGGGCCCATGCCAGCGTGTGGTGAGCACACACGGTGTGTGG
CTGCTGGCCTTCCTGAAGAAGCGGAATGGGAGCACAGTCATCGCAGATGACACCCTTGCTGGAACCGTCA
CCATCACTCTGAAGAACCTCCAAGCCGGTGACGCGGGCCTCTACCAGTGTCAGAGTCTCCGAGGCCGAGA
GGCTGAGGTCCTGCAGAAAGTACTGGTGGAGGTGCTGGAGGACCCTCTAGATGACCAAGATGCTGGAGAT
CTCTGGGTCCCCGAGGAGTCATCGAGTTTCGAGGGTGCCCAAGTGGAACACAGCACCTCCAGGCAGGTTT
CATCCTGTGGGTCACCTCTAGCCTACCACCTTCCTCCTCTTTCCAAGGAATCAAGAGACCTCCTTCCCAC
CCACCTCCATTCTTCTCCTCCTGGCCTGCGTTCTCCTGAGCAAGTTTCTTGCAGCCAGCATCCTCTGGGC
TGTGGCCAGGGGCAGGCAGAAGCCGGGAACACCTGTGGTCAGAGGGCTGGACTGTGGCCAAGATGCTGGG
CACCAACTTCAGATCCTCACTGGACCCGGAGGTACGTGAGAGAATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

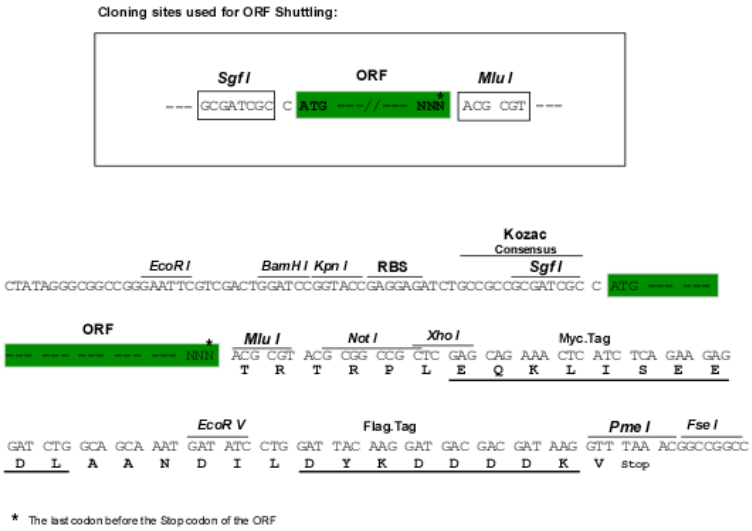
>MR228773 representing NM_001272078
Red=Cloning site Green=Tags(s)

MGPLHQFLLLLITALSQALNTTVLQGMAGQSLRVSCTYDALKHWGRRKAWCRQLGEEGPCQRVVSTHGVW
LLAFLKKRNGSTVIADDTLAGTVTITLKNLQAGDAGLYQCQSLRGREAEVLQKVLVEVLEDPLDDQDAGD
LWVPEESSSFEGAQVEHSTSRQVSSCGSPLAYHLPPLSKESRDLLPTHLHSSPPGLRSPEQVSCSQHPLG
CGQGQAEAGNTCGQRAGLWPRCWAPTSDPHWTRRYVREF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001272078

ORF Size: 747 bp

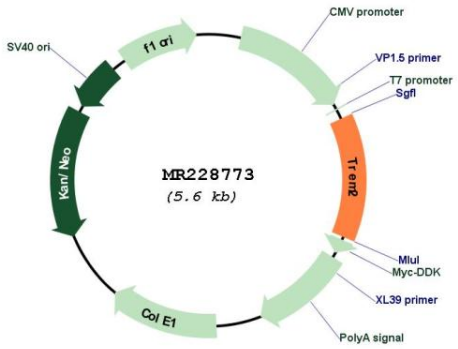
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001272078.1, NP_001259007.1
RefSeq Size:	1146 bp
RefSeq ORF:	750 bp
Locus ID:	83433
UniProt ID:	Q99NH8
Cytogenetics:	17 C
MW:	27.3 kDa
Gene Summary:	The protein encoded by this gene is part of the immunoglobulin and lectin-like superfamily and functions as part of the innate immune system. This gene forms part of a cluster of genes on mouse chromosome 17 thought to be involved in innate immunity. This protein associates with the adaptor protein Dap-12 and recruits several factors, such as kinases and phospholipase C-gamma, to form a receptor signaling complex that activates myeloid cells, including dendritic cells and microglia. In humans homozygous loss-of-function mutations in this gene cause Nasu-Hakola disease and mutations in this gene may be risk factors to the development of Alzheimer's disease. In mouse mutations of this gene serve as a pathophysiological model for polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (Nasu-Hakola disease) and for inflammatory bowel disease. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jan 2013]

Product images:



Circular map for MR228773