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Product datasheet for MG200377

Tcim (NM_026931) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tcim (NM_026931) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tcim
Synonyms:	1110065B09Rik; AW121743; AW321058
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG200377 representing NM_026931
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAGCCAAGCCAAGCCATCAAGCCACCAGCATGTCCTCGTCTCTTCGAGTAAGCCCGTCCATCCACG
GCTACCACTTCGACACAGCCGCTCGCAAGAAAGCTGTGGGCAACATCTTTGAGAACATAGACCAGGAGTC
CCTGCAGAGGCTCTTCAGGAACTCCGGAGACAAGAAGGCAGAGGAGCGGGCCAAGATCATTTTTGCCATC
GACCAAGATTTGGAGGAGAAAACTCGAGCCCTCATGGCCCTGAAGAAGAGGACAAAAGACAAGCTTCTTC
AGTTTCTCAAACTGCGGAAATATTCCATCAAGGTACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG200377 representing NM_026931
Red=Cloning site Green=Tags(s)

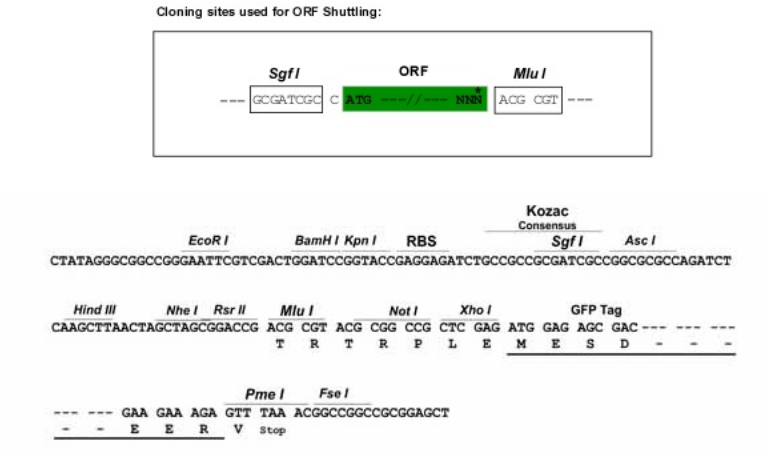
MKAKPSHQATSMSSSLRVSPSIHGYHFDTAARKKAVGNIFENIDQESLQRLFRNSGDKKAEERAKIIFAI
DQDLEEKTRALMALKKRTKDKLLQFLKLRKYSIKVH

TRTRPLE - GFP Tag - V

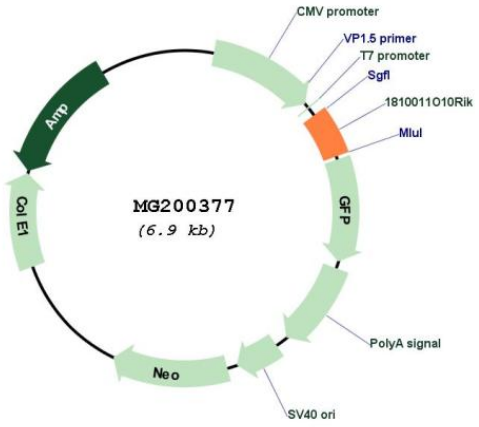
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_026931

ORF Size: 318 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_026931.3
RefSeq Size:	1332 bp
RefSeq ORF:	321 bp
Locus ID:	69068
UniProt ID:	Q9D915
Cytogenetics:	8 A2
Gene Summary:	Seems to be involved in the regulation of cell growth an differentiation, may play different and opposite roles depending on the tissue or cell type. May enhance the WNT-CTNNB1 pathway by relieving antagonistic activity of CBY1. Enhances the proliferation of follicular dendritic cells. Plays a role in the mitogen-activated MAPK2/3 signaling pathway, positively regulates G1-to-S-phase transition of the cell cycle. In endothelial cells, enhances key inflammatory mediators and inflammatory response through the modulation of NF-kappaB transcriptional regulatory activity. Involved in the regulation of heat shock response, seems to play a positive feedback with HSF1 to modulate heat-shock downstream gene expression (By similarity). Plays a role in the regulation of hematopoiesis even if the mechanisms are unknown (PubMed:24937306). In cancers such as thyroid or lung cancer, it has been described as promoter of cell proliferation, G1-to-S-phase transition and inhibitor of apoptosis. However, it negatively regulates self-renewal of liver cancer cells via suppresion of NOTCH2 signaling (By similarity).[UniProtKB/Swiss-Prot Function]