

Product datasheet for **MG202936**

Tmem142a (BC023149) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem142a (BC023149) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tmem142a
Synonyms: D730049H07Rik; orai-1; Tmem142a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202936 representing BC023149
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCCTCAACGAGCACTCGATGCAGGCGCTGTCTGGCGCAAGCTCTACTTAAGCCGCGCCAAGCTCA
 AAGCTTCCAGCCGGACCTCGGCTCTGCTCTCCGGCTTCGCCATGGTAGCGATGGTGAAGTCCAGCTGGA
 CACAGACCATGACTACCCACCAGGGTTGCTCATCGTCTTAGTGCCTGCACCACAGTGTAGTGGCCGTG
 CACCTGTTTGCCTCATGATCAGCACCTGCATCCTGCCAACATCGAGGCTGTGAGCAACGTCCACAACC
 TCAACTCGGTCAAAGAGTCACCCACGAGCGCATGCATCGCCACATCGAGCTGGCCTGGCCTTCTCCAC
 GGTTCATCGGGACGCTGTTTTCTAGCAGAGGTCGTGCTGCTCTGCTGGTCAAGTCTTACCTCTCAAG
 AGGCAAGCGGGACAGCCAAGCCCCACCAAGCCTCCCGTGAATCAGTCATCGTCGCCAACACAGCGACA
 GCAGCGGCATCACCCGGGTGAGGCGGCAGCCATTGCCTCCACCGCCATCATGGTTCCCTGTGGCCTGGT
 TTTTATCGTCTTTGCCGTTCACTTCTACCGTTCCTGGTCAGCCATAAGACGGACCGGCAGTTCCAGGAG
 CTCAATGAGCTGGCCGAGTTTGCCCGCTTGAGGACCAGCTGGACCACAGAGGGGACCATTCTCTAACAC
 CGGGCACCCACTATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202936 representing BC023149
 Red=Cloning site Green=Tags(s)

MSLNEHSMQALSWRKLYLSRAKLIKASSRTSALLSGFAMVAMVEVQLDTHDYPPGLLIVFSACTTVLVAV
 HLFALMISTCILPNIEAVSNVHNLNSVKESPHERMHRHIELAWAFSTVIGTLLFLAEVLLCWVKFLPLK
 RQAGQPSPTKPPAESVIVANHSOSSGITPGEAAAIATAIMVPCGLVFIIVFAVHFYRSLVSHKTRDQFQE
 LNELAEFARLQDQLDHRGDHSLTPGTHYA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC023149

ORF Size: 717 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: [BC023149.1](#)

RefSeq Size: 1675 bp

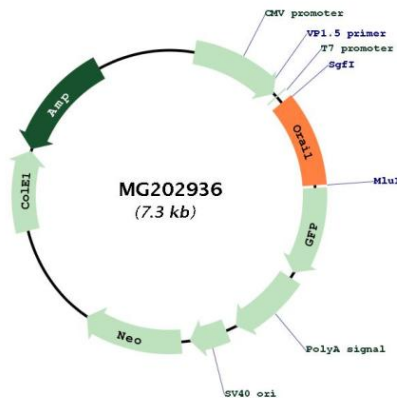
RefSeq ORF: 719 bp

Locus ID: 109305

Cytogenetics: 5 F

Gene Summary: Ca(2+) release-activated Ca(2+) (CRAC) channel subunit which mediates Ca(2+) influx following depletion of intracellular Ca(2+) stores and channel activation by the Ca(2+) sensor, STIM1. CRAC channels are the main pathway for Ca(2+) influx in T-cells and promote the immune response to pathogens by activating the transcription factor NFAT.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202936