

# **Product datasheet for MR219434L4**

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## Stim2 (NM\_001081103) Mouse Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Stim2 (NM\_001081103) Mouse Tagged Lenti ORF Clone

Tag: mGFP Symbol: Stim2

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

**E. coli Selection:** Chloramphenicol (34 ug/mL)

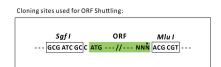
**ORF Nucleotide** 

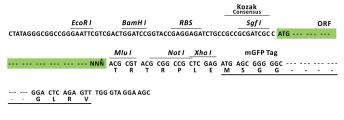
The ORF insert of this clone is exactly the same as(MR219434).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





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

ACCN: NM\_001081103

ORF Size: 2238 bp



## Stim2 (NM\_001081103) Mouse Tagged Lenti ORF Clone - MR219434L4

**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:** <u>NM 001081103.2</u>, <u>NP 001074572.2</u>

 RefSeq Size:
 4930 bp

 RefSeq ORF:
 2241 bp

 Locus ID:
 116873

 UniProt ID:
 P83093

**Cytogenetics:** 5 29.69 cM

**Gene Summary:** Plays a role in mediating store-operated Ca(2+) entry (SOCE), a Ca(2+) influx following

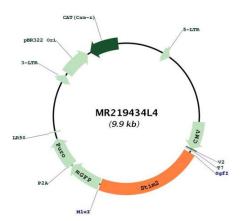
depletion of intracellular Ca(2+) stores. Functions as a highly sensitive Ca(2+) sensor in the endoplasmic reticulum which activates both store-operated and store-independent Ca(2+)-influx. Regulates basal cytosolic and endoplasmic reticulum Ca(2+) concentrations. Upon mild

variations of the endoplasmic reticulum Ca(2+) concentration, translocates from the endoplasmic reticulum to the plasma membrane where it probably activates the Ca(2+) release-activated Ca(2+) (CRAC) channels ORAI1, ORAI2 and ORAI3. May inhibit STIM1-

mediated Ca(2+) influx (By similarity).[UniProtKB/Swiss-Prot Function]



# **Product images:**



Circular map for MR219434L4