

Product datasheet for **MG219434**

Stim2 (NM_001081103) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stim2 (NM_001081103) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stim2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219434 representing NM_001081103
 Red=Cloning site Blue=ORF Green=Tags(s)

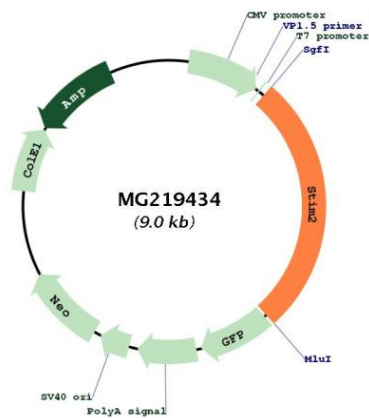
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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 CGCTTCGAGGGCGGCCGGCCCCGGGCAGCTGGCGGTGAGCGAGTGGCCGGCGGCTCCTGTGAGCGCTCC
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 CATTCCACCTACCTATTGCTGGAGGAGTTGATGACCTCGATGAAGACACACCCCAATCGTGCCACAG
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 TCAAGTTGCCCTGCTCTGTATCGGAACGAAGAGGAGGAGGAGGCTATCTACTTCACTGCTGAGAAACAAT
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 GCACAGCTCTCCAGCGCATCCCGGTGCCTCATCCCCGACACACATCGTGTCTCAGCGGCAATGAT
 AGCAAGCCAGTTCAGGAAGCCTCGAATGTTTCCAGAGTAAGCAGCATCCCACATGACCTCTGTATAATG
 GTGAGAAAAGCAAAAAGCCATCCAAAATCAAAGCCTTTTCAAGAGAAGTCTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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:	<ol style="list-style-type: none"> 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:	<u>P83093</u>
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 MG219434