

Product datasheet for **MC221321**

Stim2 (NM_001081103) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stim2 (NM_001081103) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stim2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221321 representing NM_001081103
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCTCTTCGGTTGTTGGTGGCCGGCGTGGCGGACGGATGCGATCTGGTGCCTCCGGCACCTCCGCG
 GCGGGCGCGCGTGGGATCGGCCGGAGCGCGGGTCTCCTTCGGCTGCGGCTGCGGGCGAGCGCCAGGC
 GCTGCTGACAGATCCCTGTATGTCGCTGAGTCCACCTTGCTTCACTGAAGAAGACAGTTTACGTTGGAA
 GCACCTTACAGACAATACACAAACAGATGGACGACGACAAGGACGGCGGGATCGAAGTGGACGAGAGTGATG
 AGTTTATCAGAGAAGATATGAAATATAAAGATGCTACGAATAAACATAGTCACCTGCACAGAGAAGATAA
 GCACATAACTGTTGAGGATTTGTGAAACAGTGGAAAACATCAGAAGTTCACAATTGGACACTTGAGGAT
 ACCCTGCAGTGGTAAATAGAATTTGTTGAACTGCCACAATATGAGAAGAATTTTAGGGATAATAATGTGA
 AGGGAACAACACTCCCCAGGATAGCAGTTCATGAACTTCATTTATGATTTCCAGTTGAAAATCAGCGA
 CCGAAGTACAGACAGAACTCCAACCTCAAAGCCCTGGATGTGGTCTGTTTGGGCTCTGACACGCCCA
 CCTCATAACTGGATGAAGGATTTATTCTACAATTTCCATAGTAATTGGTGTGGGGTGTGGTGTGG
 CTATACACAAAATAAGACATCAAAGGAACATGTTGCAAAAATGATGAAAGACTTAGAGAGTCTGCAGAC
 TGCAGAGCAGAGTCTCATGGACTTACAAGAGAGACTTGAAAAGGCACAGGAAGAAAACAGAACTGTTGCT
 GTAGAAAAGCAAAATCTGGAACGGAAAATGATGGATGAAATCAACTATGCCAAGGAGGAGGCCTGTCCGC
 TGGCGGAGCTGAGGGAGGGCGCAGAGTGTGAGCTGAGCAGGCGCCAGTATGCAGAGCAGGAACTGGAGCA
 GGTCCGCATGGCTCTAAAAAGGCCGAAAAGGAGTTTGAAGTGAAGAGCAGCTGGTCTGTCCCTGACGCA
 CTACAGAAATGGCTTACGCTAAGGACGAGGCAGAAAAAATTAAGAAGAGAAGCAGCAGCTTTTGGGAC
 AGATGCAGCTAGCCATCGCTAAGGACGAGGCAGAAAAAATTAAGAAGAGAAGCAGCAGCTTTTGGGAC
 CCTGCAGTGTGCACACAGCTCCTCCCTGGACGAAGTAGACCACAAGATTCTGGAAGCCAAGAAAGCCCTC
 TCTGAGCTGACCAGTGTGCTGCGAGAACGGCTTTTTCGCTGCGCAGCAGATTGAGAAGATCTGTGGCTTTC
 AGATAGCTCACAACCTCTGGGCTCCCCAGTCTCACCTCCTCTGTACTCTGACCACAGCTGGGTGGTGTGAT
 GCCTAGAGTCTCCATTCCACCCTACCCTATTGCTGGAGGAGTTGATGACCTCGATGAAGACACACCCCCA
 ATCGTGCCACAGTTTCCAGGGACCGTGGCTAACCTGCAGGATCTTTAGCCAGAAGCAGTGTATGATGCC
 GCTCTCGTCGACGATCGTGCCATCCTCCCCACAGTCTCAGCGAGCTCAGCTTCTGCTCATGCTCCTCT
 GGCAGCCACCCTCGGCACCCTACCATCCGCAGCATCCCCAGCACTCGTTGCCTTCCCCAGATCCAGAC
 ATCCTGTCTGTCAAGTTGCCCTGCTGTATCGGAACGAAGAGGAGGAGGAGGCTATCTACTTCACTG
 CTGAGAAAACAATGGGAAGTGCCAGACACAGCTTCAAGATGTGACTCCTTAAACTCTTCCAGTGGGAGAAA
 ACCGTCTCCCCCTCAAGCCTTGAGATGTACCAACATTGTCTTCCCGAAAAATCTCAAGAGACGAGCTT
 TCCTGGAGGACTCTTCCAGGGGGAGTCAACCGTGACAGCAGATGTCTCCCGGGCTCCCTGAGTGTG
 TGGGTCTGACGGAGACCAAGAGCATGATCTTACGCCCTGCAAGCAGAGTGTACAATGGCATCCTGGAGAA
 ATCCTGCAGCATGCACCAGCTCTCCAGCGGCATCCCGGTGCCTCATCCCCGACACACATCGTGCTCCTCA
 GCCGGCAATGATAGCAAGCCAGTTCAGGAAGCCTCGAATGTTTCCAGAGTAAGCAGCATCCCACATGACC
 TCTGTCAATGGTGAGAAAAGCAAAAAGCCATCAAAAATCAAAAAGCCTTTTCAAGAAAGTCTAAGTG
 A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001081103

Insert Size: 2241 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	NM_001081103.2 , NP_001074572.2
RefSeq Size:	4930 bp
RefSeq ORF:	2241 bp
Locus ID:	116873
UniProt ID:	P83093
Cytogenetics:	5 29.69 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> <p>CCDS Note: The coding region has been updated to represent an alternate splicing pattern and to use a downstream start codon. PMID:11463338 provides experimental evidence for the use of the downstream start codon, but no data is available regarding the use of the upstream start codon.</p>