

Product datasheet for **MC220402**

Stim1 (NM_009287) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stim1 (NM_009287) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stim1
Synonyms:	SIM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220402 representing NM_009287
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGTGTGCGCCCGTCTTGCCTGTGGCTTCTTTGGGGCTCCTTCTGCATCAGGGCCAGAGTCTCA
 GCCATAGTCACAGTGAAAAGAATACAGGAGCTAGCTCCGGGGCGACTTCTGAAGAGTCTACCGAAGCAGA
 GTTTTGCCGAATTGACAAGCCCTGTGCCACAGTGAGGATGAGAAGCTCAGCTTTGAGGCCGTCCGAAAC
 ATCCATAAGCTGATGGATGACGATGCCAATGGTGTGGATGTGGAAGAAAGTATGAGTTCCTAAGGG
 AAGACCTCAATTACCATGACCAACAGTGAAACATAGCACCTTCCATGGTGGGATAAGCTTATCAGCGT
 GGAGGACCTGTGGAAGCGTGGAAGTATCAGAAGTGTACAAGTGGACTGTGGATGAGGTGATACAGTGG
 CTCATTACGATGTGGAGCTGCCACAGTATGAGGAAACCTTCCGGAAGTGCAGCTTACTGGCCACGCCA
 TGCCAAGGCTAGCAGTAACCAACACCACCATGACAGGGACTGTACTGAAGATGACAGATCGGAGCCACAG
 GCAGAAGCTGCAGCTGAAGGCCCTGGACACAGTGTGTTGGGCCTCCTCTTGACTCGGCATAATCAC
 CTGAAGGACTTCATGCTGGTGGTGTCTATCGTTATTGGTGTGGGTGGCTGCTGGTTTGCCTATATCCAGA
 ACCGTTACTCTAAGGAGCACATGAAGAAAATGATGAAGGATCTGGAAGGGTTACACCGGGCTGAGCAGAG
 TCTGCATGACCTTCAAGAAAGGCTGCACAAGGCCAGGAGGAGCACCGAAGTGTGGAAGTAGAGAAGGTC
 CACCTGGAGAAGAAGCTGCGAGATGAGATCAACCTTGCCAAGCAGGAAGCTCAGCGGCTGAAGGAGCTGA
 GGGAGGGTACTGAGAATGAGAGGAGCCGTCAAAAATATGCTGAGGAAGAGCTGGAGCAGGTTTCGGGAGGC
 CTTGAGGAAAGCAGAGAAGGAGCTGGAATCACACAGCTCATGGTATGCTCCTGAGGCCCTGCAGAAGTGG
 CTGCAGCTGACCCATGAGGTGGAGGTGCAGTACTACAACATCAAGAAGCAAAATGCAGAGAGGCAGCTGC
 TGGTGGCCAAGGAGGGGGCTGAGAAAATAAAAAAGAAGAAACACGCTTTTTGGTACCTTCCATGTGGC
 CCACAGCTCTTCCCTGGATGATGTGGATCATAAAATCCTAACTGCTAAGCAAGCTCTGAGTGAGGTGACA
 GCGGCACTGAGGGAGCGCTGCACCGGTGGCAGCAGATCGAGATCCTCTGCGGTTTCCAGATTGTCAATA
 ACCCCGGCATCCACTCCTTGGTGGCTGCTCTAACATCGACCCAGCTGGATGGGCAGCACCCGCCCTAA
 CCCCAGCCACTTCATCATGACTGACGATGTGGATGACATGGATGAGGAGATTGTGTGCGCCTTGTCCATG
 CAGTCCCCAGCCTGCAGAGCAGTGTCCGGCAGCGCTGACGGAGCCACAGCTTGGCCTGGGATCTCAGA
 GGGATTTGACCCATTCCGATTCCGAGTCTCCCTCCACATGAGTGACCGCCAGCGTGTGGCCCCAAGCC
 TCCTCAGATGGGCGTGTGCAGATGAAGCTCTCAATGCCATGCCTTCCAATGGCAGCCATCGGCTGATT
 GAGGGGTCCATCCAGGATCTCTGGTGGAGAACTGCCTGACAGCCCTGCTCTGGCCAAGAAGACATTTA
 TGGCGTTGAACCATGGCCTAGACAAGGCCACAGCCTGATGGAGCTGAACCCCTCAGTCCCACCTGGTGG
 CTCCCCACTTTTGGATTCTTCCATTCTTTAGCCCCAGTTCCCCAGACCCAGACAGCCATCTCCAGTT
 GGGGACAACCGAGCTCTGCAGGGTAGCCGAAACACACGAATTCACCCTTGGCTGGCAAGAAGGCAATGG
 CTGAGGAGGATAATGGTTCCATTGGTGGAGGAGACAGACTCCAGTCCAGGCAGGAAGAAGTTTCTCTCAA
 AATTTTTAAGAAGCCTCTTAAGAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_009287
- Insert Size:** 2058 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:

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_009287.4](#), [NP_033313.2](#)

RefSeq Size: 3609 bp

RefSeq ORF: 2058 bp

Locus ID: 20866

UniProt ID: [P70302](#)

Cytogenetics: 7 54.71 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. Acts as Ca(2+) sensor in the endoplasmic reticulum via its EF-hand domain. Upon Ca(2+) depletion, translocates from the endoplasmic reticulum to the plasma membrane where it activates the Ca(2+) release-activated Ca(2+) (CRAC) channel subunit ORAI1. Involved in enamel formation. Activated following interaction with STIMATE, leading to promote STIM1 conformational switch.[UniProtKB/Swiss-Prot Function]