

Product datasheet for **RN212859**

Stim1 (NM_001108496) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stim1 (NM_001108496) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Stim1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >NM_001108496.2
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGTGTGCGCTCGTCTTCCCTGTGGCTTCTTTGGGGCTCCTTCTGCATCAGGGCCAGAGTCTCA
 GCCATAGTCACAGTGAGAAGAATACAGGAGCTAGCTCGGGGCGACTTCTGAAGAGTCTACCGAAGCAGA
 GTTTTGC CGGATTGACAAGCCCTGTGCCACAGTGAAGATGAGAAGCTCAGCTTTGAGGCGTCCCAAC
 ATCCACAAGCTGATGGATGATGATGCCAATGGTGTGGATGTGGAAGAAAGTATGAGTTCCTAAGGG
 AAGACCTCAATTACCATGACCCTACAGTAAACACAGCACCTTCCATGGTGGGACAAGCTTATCAGCGT
 GGAGGACCTATGGAAGGCATGGAAGGCATCAGAAGTGTATAACTGGACCGTGGATGAGGTGATACAGTGG
 CTGATTACGTATGTGGAGCTGCCACAGTATGAGGAGACTTCCGGAAGTGCAGCTTACTGGCCATGCCA
 TGCCAAGGCTAGCTGTAACAAACACCACCATGACAGGGACTGTCCTGAAGATGACAGACCGGAGCCACAG
 GCAGAAGCTGCAGCTGAAGGCTCTGGACACAGTGTGTTCCGGCCTCCTCTTTGACTCGCCACAATCAC
 CTGAAGGACTTCATGCTGGTGGTATCTATCGTGATTGGTGTGGTGGCTGCTGGTTTGCCTATATCCAGA
 ACCGTTACTCTAAGGAGCACATGAAGAAAATGATGAAGGATCTGGAAGGATTGCACCGAGCTGAGCAGAG
 TCTGCATGACCTTTCAGGAAAGGCTGCACAAGGCCAGGAGGAGCACCGAACAGTGGAAAGTAGAGAAGGTC
 CACCTGGAGAAGAAGCTGCGTGACGAGATCAATCTTGCCAAGCAGGAAGCTCAGCGGCTGAAGGAGCTGA
 GGGAGGGTACCGAGAATGAGAGGAGCCGCCAAAAATATGCTGAGGAAGAGCTGGAGCAGGTTCCGGAGGC
 TTTGAGGAAAGCAGAGAAGGAGCTGGAATCACACAGCTCCTGGTATGCTCCTGAGGCCCTGCAGAAGTGG
 CTGCAGCTGACACATGAGGTGGAGGTGCAGTACTACAACATCAAGAAGCAAAATGCAGAGAGGCAGCTGC
 TGGTGGCCAAGGAGGGGCTGAGAAAATAAAAAAGAAGAAACACGCTTTTGGTACCTTCCATGTGGC
 CCACAGCTCGTCCCTGGATGACGTGGATCATAAAATCTTAAGTCTAAGCAGGCACTGAGTGAGGTGACA
 GCAGCCCTGAGGGAGCGCTGCACCGGTGGCAGCAGATCGAGATCCTCTGTGTTTCCAGATTGTCAATA
 ACCCTGGCATCCACTCCTTGGTGGCCGCGCTCAACATAGATCCCAGCTGGATGGGCACTACCCGCCCTAA
 CCCTGCCACTTCATCATGACTGACGATGTGGATGACATGGATGAGGAGATCGTGTCCGCTTGTCCATG
 CAGTCCCCAGCCTGCAGAGCAGTGTCCGGCAGCGCTGACGGAGCCACAGCATGGCCTGGGATCTCAGA
 GGGATTTGACCCATTCCGATTCCGAGTCTCCCTCCACACGAGTGACCGCCAGCGTGTGGCCCCAAGCC
 TCCTCAGATGGGCGTGTGCAGATGAGGCTCTCAATGCCACGTCTTCCAATGGTAGCCATCGGCTGATT
 GAGGGGTCCATCCAGGATCTCTGGTGGAGAACTGCCTGACAGCCCTGCTCTGGCCAAGAAGACAATCC
 TGGCGCTGAACCATGGCCTAGATAAGGCCACAGCCTGATGGAGCTGAACCCCTCAGTCCCACCTGGTGG
 CTCCCCACTTTTGGATTCTTCCATTCTCATAGCCCCAGCTCCCCAGACCCAGACACACCATCTCCAGTT
 GGGGACAGCCGAGCCCTGCAGGGTAGCCGAAACACACGAATCCCCACTTGGCTGGCAAGAAGGCTATGG
 CTGAGGAGGATAATGGCTCTATTGGTGGAGGAGACAGACTCTAGTCCAGGCAGGAAGAAGTTTCCCCTCAA
 AATTTTAAAGAAGCCTCTTAAGAAGTAG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001108496

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_001108496.2](#), [NP_001101966.2](#)

RefSeq Size: 3839 bp

RefSeq ORF: 2058 bp

Locus ID: 361618

UniProt ID: [P84903](#)

Cytogenetics: 1q32

Gene Summary: Plays a role in mediating store-operated Ca(2+) entry (SOCE), a Ca(2+) influx following depletion of intracellular Ca(2+) stores (By similarity). 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 (PubMed:16208375). Involved in enamel formation (By similarity). Activated following interaction with STIMATE, leading to promote STIM1 conformational switch (By similarity).[UniProtKB/Swiss-Prot Function]