

## Product datasheet for **SC337467**

### Stromal interaction molecule 1 (STIM1) (NM\_001277961) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stromal interaction molecule 1 (STIM1) (NM_001277961) Human Untagged Clone
Tag:	Tag Free
Symbol:	STIM1
Synonyms:	D11S4896E; GOK; IMD10; STRMK; TAM; TAM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001277961, the custom clone sequence may differ by one or more nucleotides

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ATGGATGTATGCGTCCGCTTTGCCCTGTGGCTCCTCTGGGGACTCCTCCTGCACCAGGGCCAGAGCCTCA
GCCATAGTCACAGTGAGAAGGCGACAGGAACCAGCTCGGGGCGCAACTCTGAGGAGTCCACTGCAGCAGA
GTTTTGCCGAATTGACAAGCCCCTGTGTACAGTGAGGATGAGAACTCAGCTTCGAGGCAGTCCGTAAC
ATCCACAAACTGATGGACGATGATGCCAATGGTATGTGGATGTGAAGAAAGTATGAGTTCCTGAGGG
AAGACCTCAATTACCATGACCCAACAGTAAACACAGCACCTTCCATGGTGAGGATAAGCTCATCAGCGT
GGAGGACCTGTGAAGGCATGGAAGTCATCAGAAGTATACAATTGGACCGTGGATGAGGTGGTACAGTGG
CTGATCACATATGTGGAGCTGCCCTAGTATGAGGAGACCTCCGGAAGCTGCAGCTCAGTGGCCATGCCA
TGCCAAGGCTGGCTGTCACCAACACCACCATGACAGGGACTGTGCTGAAGATGACAGACCGGAGTCACTG
GCAGAAGCTGCAGCTGAAGGCTCTGGATACAGTGTCTTTGGGCCTCCTCTTTGACTCGCCATAATCAC
CTCAAGGACTTCATGCTGGTGGTGTCTATCGTTATTGGTGTGGGCGGCTGCTGGTTTGCCTATATCCAGA
ACCGTTACTCCAAGGAGCACATGAAGAAGATGATGAAGGACTTGGAGGGTTACACCGAGCTGAGCAGAG
TCTGCATGACCTTCAGGAAAGGCTGCACAAGGCCAAGGAGGACCCGCACAGTGGAGGTGGAGAAGGTC
CATCTGGAAGAAGCTGCGCGATGAGATCAACCTTGCTAAGCAGGAAGCCAGCGGCTGAAGGAGCTGC
GGGAGGGTACTGAGAATGAGCGGAGCCGCAAAAATATGCTGAGGAGGAGTTGGAGCAGGTTCCGGGAGGC
CTTGAGGAAAGCAGAGAAGGAGCTAGAATCTCACAGCTCATGGTATGCTCCAGAGGCCCTTCAGAAGTGG
CTGCAGCTGACACATGAGGTGGAGGTGCAATATTACAACATCAAGAAGCAAAATGCTGAGAAGCAGCTGC
TGGTGGCAAGGAGGGGGCTGAGAAGATAAAAAAGAAGAGAAACACACTTTTGGCACCTCCACGTGGC
CCACAGCTTCCCTGGATGATGTAGATCATAAAATTCTAACAGCTAAGCAAGCACTGAGCGAGGTGACA
GCAGATTGCGGGAGCGCCTGCACCGCTGGCAACAGATCGAGATCCTCTGTGGCTTCCAGATTGTCAACA
ACCCTGGCATCCACTCACTGGTGGCTGCCCTCAACATAGACCCCAAGCTGGATGGGCAGTACACGCCCAA
CCCTGCTCACTTCATCATGACTGACGACGTGGATGACATGGATGAGGAGATTGTGTCTCCCTTGTCCATG
CAGTCCCCTAGCCTGCAGAGCAGTGTTCGCGAGCGCTGACGGAGCCACAGCATGGCCTGGGATCTCAGA
GGTTGGTAGAGGGCGAGGCTGGCCACTTCTTGACAAGCCGGGTATCTCTGCGGGAATGCGCAGCCTTTC
ATCTGGACAGTCTTTCAGTTCTGAAGGCTACGGGACCAGCTCTCCATCTGCCTCTGCTGCTTCTTGC
TCCTCTTCCATCACCACCATCACCCTACCACCACCACCACCACCCTTACCACCGTCCATGTCCACC
CTGTTTATTACCACCACAGCACTTCTATTTCTCCAGATGGAGCCCTACCCTGACACCCCCCTTCTGA
CAGCACCGCTGTGATGCCTGGCATTAGAGAGCTTGGGGGATTTGACCCATTCCGATTCGGAGTCTCC
CTCCACATGAGTGACCGCAGCGTGTGGCCCCAAACCTCCTCAGATGAGCCGTGCTGCAGACGAGGCTC
TCAATGCCATGACTTCCAATGGCAGCCACCGGCTGATCGAGGGGGTCCACCCAGGGTCTCTGGTGGAGAA
ACTGCCTGACAGCCCTGCCCTGGCCAAGAAGGCATTACTGGCGCTGAACCATGGGCTGGACAAGGCCAC
AGCCTGATGGAGCTGAGCCCTCAGCCCCACCTGGTGGCTCTCCACATTTGGATTCTTCCGTTCTCACA
GCCCCAGCTCCCCAGACCAGACACACCATCTCCAGTTGGGGACAGCCGAGCCCTGCAAGCCAGCCGAAA
CACACGCATTTCCACCTGGCTGGCAAGAAGGCTGTGGCTGAGGAGGATAATGGCTCTATTGGCGAGGAA
ACAGACTCCAGCCAGGCCGGAAGAAGTTCCCTCAAATCTTTAAGAAGCCTTTAAGAAGTAG
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001277961

**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\\_001277961.1](#), [NP\\_001264890.1](#)

**RefSeq Size:** 4380 bp

**RefSeq ORF:** 2376 bp

**Locus ID:** 6786

**Cytogenetics:** 11p15.4

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a type 1 transmembrane protein that mediates Ca<sup>2+</sup> influx after depletion of intracellular Ca<sup>2+</sup> stores by gating of store-operated Ca<sup>2+</sup> influx channels (SOCs). It is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. This gene may play a role in malignancies and disease that involve this region, as well as early hematopoiesis, by mediating attachment to stromal cells. Mutations in this gene are associated with fatal classic Kaposi sarcoma, immunodeficiency due to defects in store-operated calcium entry (SOCE) in fibroblasts, ectodermal dysplasia and tubular aggregate myopathy. This gene is oriented in a head-to-tail configuration with the ribonucleotide reductase 1 gene (RRM1), with the 3' end of this gene situated 1.6 kb from the 5' end of the RRM1 gene. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]

Transcript Variant: This variant (1, also known as STIM1L) represents the longest transcript and encodes the longest isoform (1).