

Product datasheet for **RC230479**

STIM2 (NM_001169118) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STIM2 (NM_001169118) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STIM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230479 representing NM_001169118
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

TTGCTGGTCTCGGGCTGCTGGTAGCCGGAGCGCGGACGGATGCGAGCTTGTGCCCCGGCACCTCCGCG
 GCGGGCGGGCGACTGGCTCTGCCGCAACTGCCGCTCCTCTCCCGCCGCGCGGGCCGCGATAGCCCGGC
 GCTCATGACAGATCCCTGCATGTCACTGAGTCCACCATGCTTTACAGAAGAAGACAGATTTAGTCTGGAA
 GCTCTTCAAACAATACATAAAACAATGGATGATGACAAAGATGGTGAATTGAAGTAGAGGAAAAGTGATG
 AATTCATCAGAGAAGATATGAAATATAAAGATGCTACTAATAAACACAGCCATCTGCACAGAGAAGATAA
 ACATATAACGATTGAGGATTTATGGAACGATGGAAAACATCAGAAGTTCATAATTGGACCCTTGAAGAC
 ACTCTTCAGTGGTTGATAGAGTTTGTGAACTACCCCAATATGAGAAGAATTTAGAGACAACAATGTCA
 AAGGAACGACACTTCCAGGATAGCAGTGCACGAACCTTCATTTATGATCTCCAGTTGAAAATCAGTGA
 CCGGAGTACAGACAAAACTTCAGCTCAAGGCATTGGATGTGGTTTTGTTTGGACCTCTAACACGCCCA
 CCTCATAACTGGATGAAAGATTTATCCTCACAGTTTCTATAGTAATTGGTGTGGAGGCTGCTGGTTTG
 CTATACGCAGAATAAGACATCAAAAGAACATGTTGCAAAAATGATGAAAGATTTAGAGAGCTTACAACAC
 TGCAGAGCAAAGTCTAATGGACTTACAAGAGAGGCTTGAAAAGGCACAGGAAGAAAACAGAAATGTTGCT
 GTAGAAAAGCAAATTTAGAGCGCAAAATGATGGATGAAATCAATTATGCAAAGGAGGAGGCTTGTCCGGC
 TGAGAGAGCTAAGGGAGGGAGCTGAATGTGAATTGAGTAGACGTCAGTATGCAGAACAGGAATTGGAACA
 GGTTCCGATGGCTCTGAAAAGGCCGAAAAGAATTTGAACTGAGAAGCAGTTGGTCTGTTCAGATGCA
 CTTCAGAAATGGCTTTCAGTTAACACATGAAGTAGAGTTGCTGCTTCATATCTGATTCAGGCAGAAAAATTA
 AAATGCAGCTAGCTATTGCTAAAGATGAGTTGCTGCTTCATATCTGATTCAGGCAGAAAAATTA
 GAAGAGAAGCACAGTCTTTGGGACTCTGCACGTTGCACACAGCTCCTCCCTAGATGAGGTAGACCACAAA
 ATTCTGGAAGCAAAGAAAGCTCTCTGAGTTGACAACCTGTTTACGAGAACGACTTTTTCGCTGGCAAC
 AAATTGAGAAGATCTGTGGCTTTCAGATAGCCATAACTCAGGACTCCCCAGCCTGACCTTTCCTTTTA
 TTCTGATCACAGCTGGTGGTGTGCCAGAGTCTCCATTCCACCCTATCCAATTGCTGGAGGAGTTGAT
 GACTTAGATGAAGACACACCCCAATAGTGTACAATTTCCCGGACCATGGCTAAACCTCCTGGATCAT
 TAGCCAGAAGCAGCAGCCTGTGCCGTTACGCCGACGATTGTGCCGCTCCTCGCCTCAGCCTCAGCGAGC
 TCAGCTTGCTCCACACGCCCCCACCCTCACACCCTCGGCACCCTCACCACCCGCAACACACACCACAC
 TCCTTGCTTCCCCTGATCCAGATATCCTCTCAGTGTCAAGTTGCCCTGCGCTTTATCGAAATGAAGAGG
 AGGAAGAGGCCATTTACTTCTCTGCTGAAAAGCAATGGGAAGTGCCAGACACAGCTTCAGAATGTGACTC
 CTTAAATCTTCCATTGGAAGGAAAACAGTCTCCTCCTTTAAGCCTCGAGATATACCAAACATTATCTCCG
 CGAAAGATATCAAGAGATGAGGTGTCCCTAGAGGATTCCTCCCGAGGGGATTCGCCTGTAACCTGTGGATG
 TGTCTTGGGGTTCTCCGACTGTGTAGGTCTGACAGAACTAAGAGTATGATCTTCAGTCTGCAAGCAA
 AGTGTACAATGGCATTGGAAGAAATCCTGTAGCATGAACCAGCTTTCAGTGGCATCCCGGTGCCTAAA
 CCTCGCCACACATCATGTTCTCAGCTGGCAACGACAGTAAACCAGTTCAGGAAGCCCCAAGTGTGGCA
 GAATAAGCAGCATCCACATGACCTTTGCATAATGGAGAGAAAAGCAAAAAGCCATCAAAAATCAAAAG
 CCTTTTTAAGAAGAAATCTAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230479 representing NM_001169118
 Red=Cloning site Green=Tags(s)

LLVLGLLVAGAADGCELVPRHLRGRATGSAATAASSPAAAAGDSPALMTDPCMSLSPPCFTEEDRFSLE
 ALQTIHKQMDDDKDGGIEVEEESDEFIREDMKYKDANKHSHLHREDKHITIEDLWKRWKTSEVHNWTL
 TLQWLIEFVELPQYEKNFRDNNVKGTTLPRIAVHEPSFMISQLKISDRSHRQKLQKALDVLFGPLTRP
 PHNWMKDFILTVSIVIGVGGCWFAYTQNKTSKEHVAKMMKDLESLQTAEQSLMDLQERLEKAQEENRVA
 VEKQNLERKMMDEINYAKEEACRLRELREGAECELSRRQYAEQLEQVRMALKKAEKEFELRSSWSVPDA
 LQKWLQLTHEVEVQYNIKRQNAEMQLAIKDEVAASYLIQAEKIKKKRSTVFGTLHVAHSSSLDEVDHK
 ILEAKKALSELTTCLRERLFRWQQIEKICGFQIAHNSGLPSLTSSLYSDHSWVMPRVSIPPYPIAGGVD
 DLDETPPIVSQFPGTMAKPPGSLARSSSLCRSRRSIVPSSPQPQRAQLAPHAPHPSHRPHHPHQPHTPH
 SLPSPDPDILSVSSCPALYRNEEEEEAIYFSAEKQWEVPTASECDSLNSSIGRKQSPPLSLEIYQTLSP
 RKISRDEVSLEDSRGGSPVTVDSWVSPDCVGLTETKSMIFSPASKVYNGILEKSCSMNQLSSGIPVPK
 PRHTSCSSAGNDSKPVQEAPSVARISSIPHDLCHNGEKSCKPSKIKSLFKKSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001169118

ORF Size: 2262 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001169118.1](#), [NP_001162589.1](#)

RefSeq ORF: 2265 bp

Locus ID: 57620

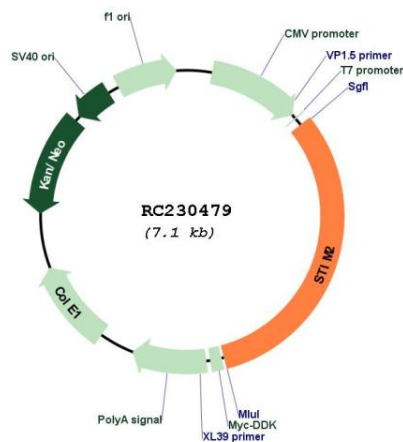
UniProt ID: [Q9P246](#)

Cytogenetics: 4p15.2

MW: 85.2 kDa

Gene Summary: This gene is a member of the stromal interaction molecule (STIM) family and likely arose, along with related family member STIM1, from a common ancestral gene. The encoded protein functions to regulate calcium concentrations in the cytosol and endoplasmic reticulum, and is involved in the activation of plasma membrane Orai Ca(2+) entry channels. This gene initiates translation from a non-AUG (UUG) start site. A signal peptide is cleaved from the resulting protein. Multiple transcript variants result from alternative splicing. [provided by RefSeq, Dec 2009]

Product images:



Circular map for RC230479