

Product datasheet for **RG230326**

STIM2 (NM_001169117) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STIM2 (NM_001169117) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STIM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230326 representing NM_001169117
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

TTGCTGGTCTCGGGCTGCTGGTAGCCGGAGCGCGGACGGATGCGAGCTTGTGCCCCGGCACCTCCGCG
 GCGGCGGGCGACTGGCTCTGCCGCAACTGCCGCTCCTCTCCGCGCGGCGCGCGCATAGCCCGG
 GCTCATGACAGATCCCTGCATGCTACTGAGTCCACCATGCTTTACAGAAGAAGACAGATTTAGTCTGGAA
 GCTCTTCAAACAATACATAAAACAATGGATGATGACAAAGATGGTGAATTGAAGTAGAGGAAAAGTGATG
 AATTCATCAGAGAAGATATGAAATATAAAGATGCTACTAATAAACACAGCCATCTGCACAGAGAAGATAA
 ACATATAACGATTGAGGATTTATGGAACGATGGAAAACATCAGAAGTTCATAATTGGACCTTGAAGAC
 ACTCTTCAGTGGTTGATAGAGTTTGTGAACTACCCCAATATGAGAAGAATTTAGAGACAACAATGTCA
 AAGGAACGACACTTCCAGGATAGCAGTGCACGAACCTTCATTTATGATCTCCAGTTGAAAATCAGTGA
 CCGGAGTCACAGACAAAACCTTCAAGCTCAAGGCATTGGATGTGGTTTTGTTTGGACTCTAACACGCCCA
 CCTCATAACTGGATGAAAGATTTATCCTCACAGTTTCTATAGTAATTGGTGTGGAGGCTGCTGGTTTG
 CTATACGCAGAATAAGACATCAAAAGAACATGTTGCAAAAATGATGAAAGATTTAGAGAGCTTACAAC
 TGCAGAGCAAAGTCTAATGGACTTACAAGAGAGGCTTGAAGAGCACAGGAAGAAAACAGAAATGTTGCT
 GTAGAAAAGCAAATTTAGAGCGCAAAATGATGGATGAAATCAATTATGCAAAGGAGGAGGCTTGTCCGGC
 TGAGAGAGCTAAGGGAGGGAGCTGAATGTGAATTGAGTAGACGTCAGTATGCAGAACAGGAATTGGAACA
 GGTTCCGATGGCTCTGAAAAGGCCGAAAAGAATTTGAACTGAGAAGCAGTTGGTCTGTCCAGATGCA
 TTTCAGAAATGGCTTCAAGTAAACATGAAGTAGAAGTGAATACTACAATATTTAAAGACAAAACGCTG
 AAATGCAGCTAGCTATTGCTAAAGATGAGGCAGAAAAAATTTAAAGAGAAGAGAAGCAGCTTTTGGGAG
 TCTGCACGTTGCACACAGCTCCTCCCTAGATGAGGTAGACCACAAAATTCTGGAAGCAAAGAAAGCTCTC
 TCTGAGTTGACAACCTGTTTACGAGAACGACTTTTTCGCTGGCAACAAATTGAGAAGATCTGTGGCTTTC
 AGATAGCCATAACTCAGGACTCCCAGCCTGACCTCTCCCTTTATTCTGATCACAGCTGGGTGGTGTGAT
 GCCCAGAGTCTCCATTCCACCCTATCCAATTGCTGGAGGAGTTGATGACTTAGATGAAGACACACCCCCA
 ATAGTGTCAAAATTTCCCGGACCATTGGCTAAACCTCCTGGATCATTAGCCAGAAGCAGCAGCCTGTGCC
 GTTCACGCCGAGCATTGTGCCCTCCTCGCCTCAGCCTCAGCGAGCTCAGCTTGTCCACACGCCCCCCA
 CCCGTACACCCTCGGCACCCTACCACCCGCAACACACACCACACTCCTTGCCTTCCCCTGATCCAGAT
 ATCCTCTCAGTGTCAAGTTGCCCTGCGCTTTATCGAAATGAAGAGGAGGAAGAGGCCATTTACTTCTCTG
 CTGAAAAGCAATGTATTCACCTGGGCTCGGTGCGTGCAAAAGTGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230326 representing NM_001169117
 Red=Cloning site Green=Tags(s)

LLVLGLLVAGAADGCELVPRHLRGRATGSAATAASSPAAAAGDSPALMTDPCMSLSPPCFTEEDRFSLE
 ALQTIHKQMDDDKDGIEVEESDEFIREDMKYKDANKHSHLHREDKHITIEDLWKRWKTSEVHNWTL
 TLQWLIEFVELPQYKFRDNNVKGTTLPRIAVHEPSFMISQLKISDRSHRQKLQKALDVLVFGPLTRP
 PHNWMKDFILTVSIVIGVGGWFAYTQNKTSKEHVAKMMKDLESQTAEQSLMDLQERLEKAQEENRVA
 VEKQNLERKMMDEINYAKEEACRLRELREGAECEL SRRQYAEQELEQVRMALKKAEKFEFLRSSWSV
 PDA LQKWLQLTHEVEVQYNIKRQNAEMQLAIKDEAEKIKKRSTVFGTLHVAHSSSLDEVHDKILEAKKAL
 SELTTCRLRERLFRWQIEKICGFQIAHNSGLPSLTSSLYSDHSWVMPRVSIPPYPIAGGVDDLDE
 DTPP IVSQFPGTMAKPPGSLARSSSLCRSRRSIVPSSPQPQRAQLAPHAPHPSHPRHPHPHQHTPHSL
 PSPDPD ILSVSSCPALYRNEEEEEAIYFSAEKQCIHLGLGACKSE

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1654_e08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001169117

ORF Size: 1797 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_001169117.1](#), [NP_001162588.1](#)

RefSeq Size: 5222 bp

RefSeq ORF: 1800 bp

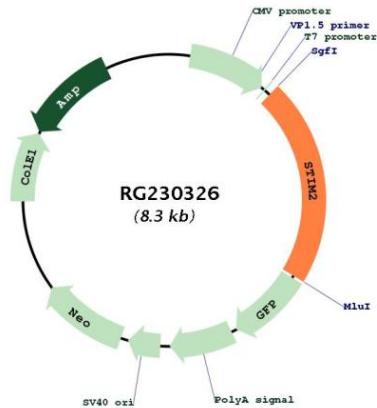
Locus ID: 57620

UniProt ID: [Q9P246](#)

Cytogenetics: 4p15.2

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 RG230326