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Product datasheet for SC328964

STIM2 (NM_001169117) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STIM2 (NM_001169117) Human Untagged Clone
Tag:	Tag Free
Symbol:	STIM2
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_001169117, the custom clone sequence may differ by one or more nucleotides

TTGCTGGTGCTCGGGCTGCTGGTAGCCGGAGCGGCGGACGGATGCGAGCTTGTGCCCCGGCACCTCCGCG
GGCGGCGGGCGACTGGCTCTGCCGCAACTGCCGCCTCCTCTCCCGCCGCGGCGGCCGGCGATAGCCCGGC
GCTCATGACAGATCCCTGCATGTCACTGAGTCCACCATGCTTTACAGAAGAAGACAGATTTAGTCTGGAA
GCTCTTCAAACAATACATAAACAAATGGATGATGACAAAGATGGTGGAATTGAAGTAGAGGAAAGTGATG
AATTCATCAGAGAAGATATGAAATATAAAGATGCTACTAATAAACACAGCCATCTGCACAGAGAAGATAA
ACATATAACGATTGAGGATTTATGGAAACGATGGAAAACATCAGAAGTTCATAATTGGACCCTTGAAGAC
ACTCTTCAGTGGTTGATAGAGTTTGTTGAACTACCCCAATATGAGAAGAATTTTAGAGACAACAATGTCA
AAGGAACGACACTTCCCAGGATAGCAGTGCACGAACCTTCATTTATGATCTCCCAGTTGAAAATCAGTGA
CCGGAGTCACAGACAAAAACTTCAGCTCAAGGCATTGGATGTGGTTTTGTTTGGACCTCTAACACGCCCA
CCTCATAACTGGATGAAAGATTTTATCCTCACAGTTTCTATAGTAATTGGTGTTGGAGGCTGCTGGTTTG
CTTATACGCAGAATAAGACATCAAAAGAACATGTTGCAAAAATGATGAAAGATTTAGAGAGCTTACAAAC
TGCAGAGCAAAGTCTAATGGACTTACAAGAGAGGCTTGAAAAGGCACAGGAAGAAAACAGAAATGTTGCT
GTAGAAAAGCAAAATTTAGAGCGCAAAATGATGGATGAAATCAATTATGCAAAGGAGGAGGCTTGTCGGC
TGAGAGAGCTAAGGGAGGGAGCTGAATGTGAATTGAGTAGACGTCAGTATGCAGAACAGGAATTGGAACA
GGTTCGCATGGCTCTGAAAAAGGCCGAAAAAGAATTTGAACTGAGAAGCAGTTGGTCTGTTCCAGATGCA
CTTCAGAAATGGCTTCAGTTAACACATGAAGTAGAAGTGCAATACTACAATATTAAAAGACAAAACGCTG
AAATGCAGCTAGCTATTGCTAAAGATGAGGCAGAAAAAATTAAAAAGAAGAGAAGCACAGTCTTTGGGAC
TCTGCACGTTGCACACAGCTCCTCCCTAGATGAGGTAGACCACAAAATTCTGGAAGCAAAGAAAGCTCTC
TCTGAGTTGACAACTTGTTTACGAGAACGACTTTTTCGCTGGCAACAAATTGAGAAGATCTGTGGCTTTC
AGATAGCCCATAACTCAGGACTCCCCAGCCTGACCTCTTCCCTTTATTCTGATCACAGCTGGGTGGTGAT
GCCCAGAGTCTCCATTCCACCCTATCCAATTGCTGGAGGAGTTGATGACTTAGATGAAGACACACCCCCA
ATAGTGTCACAATTTCCCGGGACCATGGCTAAACCTCCTGGATCATTAGCCAGAAGCAGCAGCCTGTGCC
GTTCACGCCGCAGCATTGTGCCGTCCTCGCCTCAGCCTCAGCGAGCTCAGCTTGCTCCACACGCCCCCA
CCCGTCACACCCTCGGCACCCTCACCACCCGCAACACACACCACACTCCTTGCCTTCCCCTGATCCAGAT
ATCCTCTCAGTGTCAAGTTGCCCTGCGCTTTATCGAAATGAAGAGGAGGAAGAGGCCATTTACTTCTCTG
CTGAAAAGCAATGTATTCACCTTGGGCTCGGTGCGTGCAAAAGTGAATGA

Restriction Sites: SgfI-MluI

ACCN: NM_001169117

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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] Transcript Variant: This variant (3) lacks an alternate in-frame exon in the central coding region, and differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (3) has a distinct C-terminus and is shorter than isoform 1.