

Product datasheet for **SC321816**

STIMATE (NM_198563) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STIMATE (NM_198563) Human Untagged Clone
Tag:	Tag Free
Symbol:	STIMATE
Synonyms:	TMEM110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_198563.1

TGCGGGTTTGCGGCGCTGCGCCGCGAGGCAGCGAGGCCGGGCGGCCCTGGGCCCTCGC
GCCCTCCCGGAGGCCTGTATGCAGGGCCCCGCCGGAACGCGAGCCGGGACTGCCA
GGCGGGCCGCCCTCCACAGTCGCGTCCGGGGCGGGCCGCTGCGAGAGCGGCGCGCTCATG
CACAGCTTCGGCATCTTCTGCGAGGGGCTGCTCGGCGCTCGTGGCCTTCAGCACGTTAATG
CTCAAACGCTTCAGAGAACAAAGCATGAAAGACGTCCGTGGAGGATATGTTTTAGAC
ACTTCCAAACAAGCCATAGGAATGCTGTTTATCCACTTTGCAAATGTATACCTAGCAGAT
CTCACTGAAGAGGACCCCTTGTTCACTGTACCTCATCAACTTCTCTCTGGACGCCACTGTG
GGCATGCTGCTCATCTACGTGGGGGTGCGCGCCGTGAGCGTCTGGTAGAGTGGCAGCAG
TGGGAGTCCCTGCGCTTCGGCGAATATGGAGACCCCTGTCAGTGTGGAGCCTGGGTCGGG
CAGTGCGCTCTTTACATCGTGATCATGATTTTTGAAAAGTCTGTCGTCTTCATCGTCCTC
CTAATACTTCAGTGGAAAAAGGTGGCCCTGTTGAATCCCATTGAAACCCAGACATGGAAG
CTGGCCATCGTCATGCTGATCGTCCCTTCTTTGTCAACGCTTTGATGTTTTGGGTAGTG
GACAAATTTCTCATGAGAAAGGGGAGACGAAAGCTAAGCTAGAAGAAAGGGGAGCCAAC
CAGGACTCGAGGAATGGGAGCAAGGTCCGCTACCGGAGGGCCGCATCCCACGAGGAGTCT
GAGTCTGAGATCCTGATCTCAGCGGATGATGAGATGGAGGAGTCCGACGTGGAGGAGGAC
CTCCGCAGACTGACCCCCCTCAAGCCTGTGAAGAAAAAGAACCCGCTTTGGGCTACCC
GTATGACACATTCCATGCTGGGGGTGACGGGAGGGCCCCGCCAGCCGCTGGTGTGCAGA
GGTCATCCCACAGCATCGTTCTTACCCTCTCTCTGCCCTTCTTTCTACCTCTGCTCCT
CTTGCTGTCTCTGCCCGCTCTCGCCTGCCCCAGACTACTGTGACTTAAAAAGAGGGAAG
AGGAGCCAGCGCCCGAGGGGGCCACTGGCGCTGGAGGTCCCCATTCAAGTTCACCTACAA
ACACTGACCAAATATGCAAGGAAGGAGCTGTGTTTGTGTTGTGTCGTCCCAGACAGTGT
GTGAGGGACCTGAGGCCCTGCCCGTGTCCGACCACCGAGTGGCAAGGTGGAAGGAAGCA
CAGGCACACAGACCGTGGGTGGGTCTCCTCACCCTGGCTGTGGGCAGTGCGAACACGTAA
CACCTCGGGCTAAAAGTGACTCGTTGACCAAGTTGGAACCGGAATGCTTCTTACTCAA
AATGGCTTTTGAATACTATGATTTCTGAAGCTGGTTTTATGAGTTGTGACGCTTTACCA
GGTTGGGGGTATGTTTTATTCTCAAAAGTACTTACGGAGCAATAGGGCAAAACAGAG
ATTTTAAAGTCTTCGTGAAAAA

Restriction Sites: Please inquire

ACCN: NM 198563

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:	<u>NM_198563.1, NP_940965.1</u>
RefSeq Size:	1614 bp
RefSeq ORF:	885 bp
Locus ID:	375346
UniProt ID:	<u>Q86TL2</u>
Cytogenetics:	3p21.1
Protein Families:	Transmembrane
Gene Summary:	Acts as a regulator of store-operated Ca(2+) entry (SOCE) at junctional sites that connect the endoplasmic reticulum (ER) and plasma membrane (PM), called ER-plasma membrane (ER-PM) junction or cortical ER (PubMed:26322679, PubMed:26644574). SOCE is a Ca(2+) influx following depletion of intracellular Ca(2+) stores (PubMed:26322679). Acts by interacting with STIM1, promoting STIM1 conformational switch (PubMed:26322679). Involved in STIM1 relocalization to ER-PM junctions (PubMed:26644574). Contributes to the maintenance and reorganization of store-dependent ER-PM junctions (PubMed:26644574).[UniProtKB/Swiss-Prot Function]