

Product datasheet for **SC313706**

SESN3 (NM_144665) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SESN3 (NM_144665) Human Untagged Clone
Tag:	Tag Free
Symbol:	SESN3
Synonyms:	SEST3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

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>OriGene sequence for NM_144665 edited
CCTAGCCTGGCGGGGGCGGGGTCTGGAAGAGGGGGCGGGTGAACAACGGGCCGGTGAG
GAGCAGCCGCCGCTCTCCGCCGTCGCTGGGGCAGCTGCCGCGGTGGTCGCCTCTGGCA
GTGCCGCTAGCTTTCAGGCAGTCGCCTCTCTCCCGACATCCCGCCTTGAGGAGGCTGAG
GCGGAATCGCGGCTGGCGGGGGGGACGGACCGGCCCTGCAGTGGCCGAGTGACAGCC
CGGACCCGGCCCTCCGCCGCTCTCGCCTCGGCGCCCGCAGCCACGATGAACCGGGGCGG
CGGCAGCCGTCGGCGCCGCCAACTACCTGCTCTGTACCAACTGCCGAAAGTGTGCG
GAAGGATAAAAAGAAATCAGAGTGTCTCAACCCTTGACAAGAGGACCAAGTGCCTTTATTCC
AGAGAAGGAAGTTGTCCAAGCAAACACAGTGGATGAACGTAATACTTTCTTGTGGAAGA
ATACTCTACATCCGGTCTGACAAACATCACACAGGTCATGAGTTTACACACTCAGTA
CCTGGAGTCTTTCTTGGGAGCCAGTTTTACATGTTGCGCATGGATGGTCCCTTCTCT
ACCATACAGGCACTATATTGCAATAATGGCTGCAGCTAGACATCAGTGTCTTACTTAAT
AAACATGCATGTGGATGAATTTTTAAAGACTGGAGGTATTGCTGAGTGGTGAATGGTTT
GGAATATGTGCCAAAAGACTGAAAAATCTTAATGAAATTAATAAGCTGCTAGCACATCG
ACCTTGGCTGATCACAAAAGAGCACATTAGAACTTGTCAAACTGGAGAAAATAATTG
GTCTCTGCCTGAACTGGTACATGCTGTGGTCTCTGGCACATTATCATGCTTTGGCAAG
CTTTGTTTTGGTAGTGGTATCAATCCAGAGAGAGATCCAGAAATCTCCAATGGATTGAG
GCTAATATCAGTCAACAATTTCTGCGTTTGTGATCTTGCTAATGACAACAACATAGAGAA
TGCATCTCTTTCAGGCAGCAACTTTGGGATTGTGGATTCTCTAAGTGAGCTAGAGGCCTT
AATGGAAGGATGAAAAGACTTCAAGAAGAAAGGAAGATGAAGAGGCGTCTCAAGAAGA
AATGAGCACTCGTTTTGAAAAGGAGAAGAAAGAAAGTCTTTTTGTGGTCTCTGGAGATAC
TTTTATTTCATTTCCCTCATTGAGTTTTGAGGATGACATGATTATAACATCTGATGTCTC
TCGATATATTGAAGACCCTGGTTTTGGGTATGAAGACTTTGCCAGACGAGGAGAAGAGCA
TTTGCCAACATTCCGAGCTCAGGACTATACCTGGGAAAATCATGGGTTCTCCCTGGTGAA
CAGACTTTATTCTGACATTGGACATCTTCTTGATGAAAAGTTTCGGATGGTCTACAATCT
CACATATAAACTATGGCCACCCATGAGGATGTTGACACAACCATGCTGCGCAGAGCTTT
ATTTAACTATGTTCACTGTATGTTTGAATCAGGTATGATGACTATGATTATGGAGAAGT
TAATCAATTACTTGAAGAAGCCTGAAGGTTTACATTAAGACAGTGACCTGCTATCCTGA
GAGAACTACAAAACGCATGTATGATAGTTACTGGCGGCAGTTCAAACACTCAGAAAAAGT
TCATGTCAATCTACTTTTAAATGGAAGCACGAATGCAAGCTGAACTCTTTATGCTCTTCG
TGCCATAACTCGGCATTTGACCTGAAGTATCACCCAAGGAAAATGTCATACATGTGTAAA
GACCTTTCACATAAGATAAACATTGAAGCTATTTGTGATATAGCATCAAAAATTATTCAG
TTCTCTAGTGCAAGTTTAGCCGTTTGTTTTTTTTTKTTTTTTGTTTTTTCGGCGTGTAA
ATGTGCAATGATGTGTTTTATTTTCTTGATGCTTAACATTACTAACAATTGCAAAAATA
ATACTGAGGAGCACTACTTTGCATTGTTTGTAGTTGGAGTTTTGGATACTGATCATAAAT
CATGAATCTGGCGTATTAATGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_144665 unedited
 CCGCGGGACCNCNCCCCTTTCNCCCCCGGTTTCAGATTTGTATACGACTCACTTATAGG
 CGGCCGCGNATTCGGCACGAGCCTAGCCTGGCGGGGGCGGGGTCTGGAAGAGGGGGCGG
 GTGGAACAACGGGCGGTTGAGGAGCAGCCGCGCCGCTCTCCGCCGTCGCTGGGGCAGCTG
 CCGCGGTGGTCGCTCTGGCAGTGCCGCTAGCTTTCAGGCAGTCGCTCTCCTCCCGACA
 TCCCGCCTTGAGGAGGCTGAGGCCGAATCGCGGCTGGCGGGGGGACGGACCGGCCCT
 GCAGTGGCCGCGAGTGACAGCCCCGACCCGCCCCCTCCGCCGCTCTCGCTCGGGCCCCGC
 AGCCACGATGAACCGGGGCGGCGCAGCCGTCGCGCCGCCCAACTACCTGCTCTGTAC
 CAACTGCCGAAAAGTGCTGCGGAAGGATAAAAGAAATCAGAGTGTCTCAACCCTTGACAAG
 AGGACCAAGTGCCTTTATTCCAGAGAAGGAAGTTGTCCAAGCAAACACAGTGGATGAACG
 TACTAATTTCTGTGGAAGAATACTCTACATCCGGTCGCTGGGACACATCACACAGGT
 CATGANGTTACACACTCAGTACCTGGAGTCTTTCTTGGGAGCCAGTTTTACATGTTGCG
 CATGGATGGTCCCCTTCTACCATACAGGCACTATATTGCAATAATGGCTGCAGCTAG
 ACATCAGTGTCTTTACCTTATAACATGCATGTGGATGAATTTTTAAAGACTGGAGGTAT
 TGCTGAATGGTGAATGGTTTGAATTTTGCCTCAAGACTGAAAATCTTATGAATTAATAG
 CTGTTACCCTTAACCTTGTCTGATCCAAAGAACCTTCTGACTTGTAAAACCTGAAAAAAA
 TTGGCTTTGCTGACTGGACATGTTGGGCCCTCCTGCCCTTAAATGCTTTGAAACT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_144665 unedited
 GANGAGCTGGGNGGGGTCACAGGNATGCCACCCGGTCTGTTTCAGGAAAAGCTATGA
 CCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAGCATTAA
 TACGCCAGATTCATGATTTATGATCAGTATCCAAAACCTCAACTACAAACAATGCAAAGT
 AGTGCTCCTCAGTATTATTTTTGCAATTGTTAGTAATGTTAAGCATCAAGGAAAAATAAAA
 CACATCATTGCACATTACAGCCGCAAAAAACAAAAACAAAAACAAACGGCTAAAC
 TTTGACACTAGAGAACTGAATAATTTTTGATGCTATATCACAAATAGCTTCAATGTTTAT
 CTTATGTGAAAGGTCTTTACACATGTATGACATTTTCCTTGGGTGATACTTCAGGTCAA
 TGCCGAGTTATGGCACGAAGAGCATAAAGAAGTTCAGCTTGCATTCGTGCTTCCATTAAA
 AGTAGATTGACATGAACCTTTCTGAGTGTGAACTGCCGCCAGTAACATCATACATG
 CGTTTTGTAGTTCTCTCAGGATAGCAGGTCAGTGTCTTAATGTAACCTTCAGGCTTCTT
 TCAAGTAATTGATTAACCTTCTCCATAATCATAGTCATCATACATGATTCCAAACATACAG
 TGAACATAGTTAAATAAAGCTCTGCGCAGCATGGTTGTGTCAACATCCTCATGGGTGGCC
 ATAGTGTATATGTGAGATTGTAGACCATCCGAAACTTTTCATCAAGAAGATGTCCAATG
 TCAGAATAAAGTCTGTTACCAGGGGAGAACCCATGATTTTCCAGGTTTC

Restriction Sites:

Please inquire

ACCN:

NM_144665

Insert Size:

2100 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:	<ol style="list-style-type: none"> 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_144665.2 , NP_653266.2
RefSeq Size:	1987 bp
RefSeq ORF:	1479 bp
Locus ID:	143686
UniProt ID:	P58005
Cytogenetics:	11q21
Domains:	PA26
Protein Pathways:	p53 signaling pathway
Gene Summary:	<p>This gene encodes a member of the sestrin family of stress-induced proteins. The encoded protein reduces the levels of intracellular reactive oxygen species induced by activated Ras downstream of RAC-alpha serine/threonine-protein kinase (Akt) and FoxO transcription factor. The protein is required for normal regulation of blood glucose, insulin resistance and plays a role in lipid storage in obesity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2012]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>