

## Product datasheet for **SC101330**

### INSIG2 (NM\_016133) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	INSIG2 (NM_016133) Human Untagged Clone
Tag:	Tag Free
Symbol:	INSIG2
Synonyms:	INSIG-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101330 sequence for NM_016133 edited (data generated by NextGen Sequencing) ATGGCAGAAGGAGAGACAGAGTCACCTGGGCCAAAAAGTGTGGCCATATATTTTCATCT GTCAGTAGCCAGAGTGTGAACCTTGATGATTCGAGGAGTAGTGCTATTTTTTATTGGAGTA TTTCTTGCAATTAGTGTAAATTTACTTCAGATTCAGAGAAATGTGACGCTCTTTCCACCT GATGTGATTGCAAGCATCTTTCTTCTGCATGGTGGGTACCCCATGCTGTGGCACGGCT TCAGCTGTGATTGGGTTATTATACCCCTGCATTGACAGACATCTAGGAGAACCACATAAA TTTAAAAGAGAGTGGTCCAGTGTAAATGCGGTGTGTAGCAGTCTTTGTTGGTATAAATCAT GCCAGTGTAAAGTGGATTTGATAACAACATACAGTTGTCTCTCACACTGGCTGCACTA TCCATTGGACTGTGGTGGACTTTTGATAGATCTAGAAGTGGTTTTGGCCTGGAGTAGGA ATTGCCTTCTGGCAACTGTGGTCACTCAACTGCTAGTATATAATGGTGTTTACCAATAT ACATCTCCAGATTTCTCTATGTTTCGTTCTTGGTTACCATGTATATTTTTTGCTGGAGGC ATAACAATGGGAAACATTGGTCGACAACTGGCAATGTACGAATGTAAGTTATCGCAGAA AAATCTCATCAGGAATGA
	Clone variation with respect to NM_016133.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_016133 unedited TCGGACTTTGTAATAGACTCCTATAGGCGGCCGGATTTCGCAGGGGGCCTGGGTCCCAGAA GTGGCGGAGGGCGGGGAATTCTTGGTAGGTCCTACTTTAGGACAAGAATGTTGGTACCG TTGAAGCCGTCAGTTCCTTGGATTACAGACAGTTGAGCCTTTTCAGCTGGGAAGCCTTTC CATTTTTTTTTTTAAACGGCTTCTGAACCTATGAAACCATGGCAGAAGGAGAGACAGA GTCACCTGGGCCAAAAAGTGTGGCCATATATTTTCATCTGTCACTAGCCAGAGTGTGAA CTTGATGATTCGAGGAGTAGTGCTATTTTTTATTGGAGTATTTCTGCATTAGTGTAAA TTTACTTCAGATTCAGAGAAATGTGACGCTCTTCCACCTGATGTGATTGCAAGCATCTT TTCTTCTGCATGGTGGGTACCCCATGCTGTGGCACGGCTTCAGCTGTGATTGGGTATT ATACCCCTGCATTGACAGACATCTAGGAGAACCACATAAATTTAAAAGAGAGTGGTCCAG TGTAATGCGGTGTGTAGCAGTCTTTGTTGGTATAAATCATGCCAGTGCTAAAGTGGATT CGATAACAACATACAGTTGTCTCTCACACTGGCTGCACTATCCATTGGACTGTGGTGGAC TTTTGATAGATCTAGAAGTGGGTTTTGCCTTGGAGTANGAATTGCCTTCTGGCAACTGT GGTCACTCAACTGCTAGTATATAATGGTGGTTACCAATATACATCTCCAGATTTCTCT ATGTTTCGTTCTGGTTACCCTGTATATTTTTTTGCTGAAGCATAACCATGGGAAACTTG GTCGACAACCTGGCATGTTCCAATGTAAAGTTTCCAAAAAAATCTCATCGGGATGAAGAA GGCAAAAATATTTTTTGTTCAAAAAACCGGTGAAAAGGGTGTGAAATGGTTAATATCCC CCCAAACCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016133
<b>Insert Size:</b>	3500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_016133.2</a> , <a href="#">NP_057217.2</a>
<b>RefSeq Size:</b>	2592 bp
<b>RefSeq ORF:</b>	678 bp
<b>Locus ID:</b>	51141
<b>UniProt ID:</b>	<a href="#">Q9Y5U4</a>
<b>Cytogenetics:</b>	2q14.1-q14.2
<b>Protein Families:</b>	Transmembrane

**Gene Summary:**

The protein encoded by this gene is highly similar to the protein product encoded by gene INSIG1. Both INSIG1 protein and this protein are endoplasmic reticulum proteins that block the processing of sterol regulatory element binding proteins (SREBPs) by binding to SREBP cleavage-activating protein (SCAP), and thus prevent SCAP from escorting SREBPs to the Golgi. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) and variant 2 both encode the same isoform (a).