

Product datasheet for SC116677

INSIG1 (NM_005542) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INSIG1 (NM_005542) Human Untagged Clone
Tag:	Tag Free
Symbol:	INSIG1
Synonyms:	CL6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116677 sequence for NM_005542 edited (data generated by NextGen Sequencing)

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ATGCCAGATTGCACGACCACTTCTGGAGCTGCTCCTGTGCGCACAGCGGAGGCGCCGA
GGCCCCCGCGAGCCAGCGCCGCGGGGCTGGCGGCAAGGTTGGGAGATGATCAACGTT
TCCGTGTCCGGGCCCTCCCTGCTGGCGGCCACGGTGCCCGGACGCTGACCCCGCGCCC
AGGGGCCGAGTGTGCGATGAGCGGCCCGAGCCCGGACGCCCTACCCCAACACCTGG
CATCATCGCCTGTTGCAGAGGAGCCTCGTGTCTTCTCGGTTGGGGTGGTCTAGCCCTG
GTGCTCAACCTGCTGCAGATCCAGAGGAATGCACTCTCTCCCCGAGGAGGTGATCGCC
ACCATCTTTTCTCCGCCTGGTGGTCCCTCCCTGCTGCGGGACAGCAGCTGCTGTTGTT
GGCCTACTGTACCCTGTATCGACAGTCACCTCGGAGAACCCACAAATTTAAGAGAGAA
TGGGCCAGTGTCATGCGCTGCATAGCAGTTTTTGTGGCATTAAACCACGCCAGTGCTAAA
TTGGATTTTGCCAATAATGTCCAGCTGTCTTGACTTTAGCAGCCCTATCTTTGGCCTT
TGGTGGACATTTGATCGTTCCAGAAGTGGCCTTGGGCTGGGGATCACCATAGCTTTTCTA
GCTACGCTGATCACGAGTTTCTCGTGTATAATGGTGTCTATCAGTATACATCCCCAGAT
TTCCTCTATTCGTTCTTGGCTCCCTGTATATTTTTCTCAGGAGGCGTCACGGTGGGG
AACATAGGACGACAGTTAGCTATGGGTGTTCTGAAAAGCCCCATAGTGATTGA

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Clone variation with respect to NM_005542.4



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005542 unedited
 AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGGCCGTGACTCCTCCTT
 TCCCCCGCCCCGCTCCGTTTCGGAGAGCCGGCGGGCGGGCGCCTCTCGGCCAGGAAGCGC
 CTCTTGGACGCGTGTGACCGATGCCAGATTGCACGACCACTTCTGGAGCTGCTCCTGTG
 CGCACAGCGCAGGCGCCGAGGCCCGCCGAGCCAGCGCCGCGGGGCTGGCGGCCAAGG
 TTGGGGAGATGATCAACGTTTTCCGTGTCCGGGCCCTCCCTGCTGGCGGCCACGGTGCCC
 CGGACGCTGACCCCGCCAGGGGCCGAGTGTGCGATGAGCGGCCCGAGCCCGGCA
 GCCCTACCCCAACCTGGCATCATCGCCTGTTGCAGAGGAGCCTCGTGTCTTCTCGG
 TTGGGGTGGTCTAGCCCTGGTGTCAACCTGCTGCAGATCCAGAGGAATGCTCACTCTCT
 TCCCCGAGGAGGTGATCGCCACCATCTTTTCTCCGCCTGGTGGGTCCCTCCCTGCTGCG
 GGACAGCAGCTGCTGTTGTTGGCCTACTGTACCCTGTATCGACAGTCACCTCGGGAGAC
 CCCACAAATTTAAGAGAGAATGGGCCAGTGTATGCGCTGCATAGCAGTTTTTGGTGGA
 TTAACCACGCCAGTGCTAANATGGATTTGCCAATATGTCCAGCTGTCCTTGACTTTAGCA
 GCCCTATCTTTGGCCTTTGGTGGACATTTTATCGTCCAGAAGTGGCCTTGGGGCTGGG
 ATCACCATAGCTTTTCTAGCTACGCTGATCAGCAGTTNCTCGGTATAATGGGGTCTTC
 AGAATACATCCCCAAATTCCTCTATATTCGGTCTTGGCTTCTTGATATTTTCTCAGGA
 GCGCTCACGTGGGGAACCATAGACAACAGTACTTTGGTGGTTCTGAAAGCCCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005542 unedited
 CGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTGGTTTTGAACCTTTAATAAAA
 GTAAAAAATGAATGCAAAAAGAACACAATGGTTGAAAACCTAGTATGAATGTGAACCTCA
 CTAGATGTTCAAATCTGGTAGAGTGCAAATTTTGTTCATACTATTTTACATTTTACAAA
 CTCAAATCACTTTGGTTCATATATTTTCTATAAACTATTGGCAAAAAATCCTCAAATTT
 ACATTCCTTTGGCTACATTATTTCTAACAGATATAGATTTACTTCCGGTTTCGGAGAGAA
 AGACTTATTGTGTGCGTGTATCAAGTCTGTTTTAAAGATTCACTCGCTGCTTTCATCTA
 ATAACCTCTGGTTTTTCATAAAATGCTGACATCTTCATTGGAAATTTTTTTCATGTAAC
 GTTTTTCATTTTCAGAAAATATAAGGGGGTCATTCCAAAGTTCAGAAATGATCCTATTTT
 TTTAAAAAACAAAATTCCTGTAAAAACAATTAACCTCAGGAACCTAAAATTTACTCCAAG
 ACATTTCCCTCAAACAAAGCAAAAACCCAGCAAAGATCGTTACATCACAAAACCAAAA
 CACAAAGACCAGCGCTCACAGGCAAGTTCCTCTAAGCTTCCATTCTGCTGACTGGTGGCT
 TCCATTTAAAAGGAGTCTTTTAATCAAGCCACTTTCACAGAATTTAAAACAAACCAACA
 CATGTAAATTGCANAATACAAAAAGGTAATTTATNAGTANAAATGACCCAAACCCACAA
 ACTGGAGTATTTGAAAGTTGAGGGTTCAGTGGGAGGTTGTACACGAAAGGACTTTCACA
 CTGAAGAATCATGCCGAGTTTCTCAGCAGACTGAATGAATGAGACCTTCTTCGACATTA
 CACGTAAAAATAATTAGAAATACAGCTANATGGNTTCTTTCCTGCACTGAGNTAGAACC
 AACTGCN

Restriction Sites:

NotI-NotI

ACCN:

NM_005542

Insert Size:

3000 bp

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).

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_005542.3 , NP_005533.2
RefSeq Size:	2978 bp
RefSeq ORF:	834 bp
Locus ID:	3638
UniProt ID:	O15503
Cytogenetics:	7q36.3
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>This gene encodes an endoplasmic reticulum membrane protein that regulates cholesterol metabolism, lipogenesis, and glucose homeostasis. The encoded protein has six transmembrane helices which contain an effector protein binding site. It binds the sterol-sensing domains of sterol regulatory element-binding protein (SREBP) cleavage-activating protein (SCAP) and 3-hydroxy-3-methylglutaryl-coenzyme A reductase (HMG-CoA reductase), and is essential for the sterol-mediated trafficking of these two proteins. It promotes the endoplasmic reticulum retention of SCAP and the ubiquitin-mediated degradation of HMG-CoA reductase. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]</p> <p>Transcript Variant: This variant (1) encodes isoform 1. Variants 1 and 6 encode the same protein.</p>