

Product datasheet for SC126582

INSIG1 (NM 198336) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: INSIG1 (NM_198336) Human Untagged Clone

Tag: Tag Free Symbol: INSIG1

Synonyms: CL6

Vector: pCMV6-XL5

E. coli Selection: Ampicillin (100 ug/mL)

Cell Selection: None

Restriction Sites: Notl-Notl

ACCN: NM_198336

Insert Size: 3240 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: 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.

RefSeg: NM 198336.1, NP 938150.1

RefSeq Size: 3049 bp
RefSeq ORF: 993 bp
Locus ID: 3638



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INSIG1 (NM_198336) Human Untagged Clone - SC126582

UniProt ID: <u>015503</u>

Cytogenetics: 7q36.3

Protein Families: Druggable Genome, Transmembrane

Gene Summary: 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]

Transcript Variant: This variant (2) has multiple coding region differences, compared to variant 1, one of which results in a frameshift. The encoded isoform (2) has a distinct C-terminus and

is shorter than isoform 1.