

Product datasheet for **MC225716**

Insig2 (NM_001271532) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Insig2 (NM_001271532) Mouse Untagged Clone
Tag: Tag Free
Symbol: Insig2
Synonyms: 2900053I11Rik; C730043J18Rik; Insig-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC225716 representing NM_001271532
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCTGCGTGGCGGTGTTCTGGGTATAAATCACGCCAGTGCTAAAGTAGACTTCGACAACAATTCC
 AGTTTTCCCTCACACTGGCTGCACTGTCAGTAGGACTGTGGTGGACTTTTGACAGATCTAGAAGTGGTTT
 TGGCCTTGGTGTGAATTGCTTTCTTAGCAACCGTTGTCACCCAAGTGTAGTCTACAATGGTGTAT
 CAATACACATCTCAGATTTTCTATGTCGGTCTTGGTGGCCATGTATTTTTTGTGGAGGCATAA
 CGATGGGAAACATTGGCCGCACTGGCAATGTGAATGCAAAGTTATTGCTGAAAAATCTCATCAAGA
 ATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001271532
Insert Size: 354 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).



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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001271532.1</u> , <u>NP_001258461.1</u>
RefSeq Size:	2321 bp
RefSeq ORF:	354 bp
Locus ID:	72999
Cytogenetics:	1 E2.3
Gene Summary:	<p>Mediates feedback control of cholesterol synthesis by controlling SCAP and HMGCR. Functions by blocking the processing of sterol regulatory element-binding proteins (SREBPs). Capable of retaining the SCAP-SREBF2 complex in the ER thus preventing it from escorting SREBPs to the Golgi. Seems to regulate the ubiquitin-mediated proteasomal degradation of HMGCR.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) lacks an exon which contains a portion of the 5' UTR and 5' coding region including the start codon, compared to variant 1. These differences cause translation initiation at a downstream start codon and result in an isoform (2) with a shorter N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>