

## Product datasheet for MC226399

### Insig2 (NM\_001271531) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Insig2 (NM\_001271531) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Insig2  
**Synonyms:** 2900053I11Rik; C730043J18Rik; Insig-2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226399 representing NM\_001271531  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGAAGGAGAGACGGAGTCACCTCGGCCTAAAAAGTGTGGCCATACATTTCTCTGTCACCAGCC  
 AGAGTGTGAACGTGGTGATCCGCGGGTGGTACTCTTCTCATTGGAGTGTTCCTGGCATTAGTGTGAA  
 CTTGCTTCAGATTCAGAGAAACGTGACACTTTTTCCACCAGATGTGATCACGAGCATCTTTTCATCTGCC  
 TGGTGGGTACCACCATGCTGCGGCACAGCCTCAGCTGTGATTGGGCTGTTGTACCCTGCATTGACAGGC  
 ATCTAGGAGAACCTCATAAATTTAAAAGAGAGTGGTCCAGTGTCATGCGCTGCGTGGCGGTGTTCTGTGGG  
 TATAAATCACGCCAGTGCTAAAGTAGACTTCGACAACAACCTCCAGTTTTCCCTCACACTGGCTGCACTG  
 TCAGTAGGACTGTGGTGGACTTTTGACAGATCTAGAAGTGGTTTTGGCCTTGGTGTGGAATTGCTTTCT  
 TAGCAACCGTTGTCAACCAACTGTTAGTCTACAATGGTGTATCAATACACATCTCCAGATTTTCTCTA  
 TGTCCGTTCTTGGTTGCCATGTATTTTTTGTGGAGGCATAACGATGGGAAACATTGGCCGCAACTG  
 GCAATGTATGAATGCAAAGTTATTGCTGAAAAATCTCATCAAGAA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001271531  
**Insert Size:** 678 bp



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<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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001271531.1</a></u> , <u><a href="#">NP_001258460.1</a></u>
<b>RefSeq Size:</b>	2468 bp
<b>RefSeq ORF:</b>	678 bp
<b>Locus ID:</b>	72999
<b>UniProt ID:</b>	<u><a href="#">Q91WG1</a></u>
<b>Cytogenetics:</b>	1 E2.3
<b>Gene Summary:</b>	<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 (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same isoform (1).</p>