

Product datasheet for MC212914

Insig1 (NM_153526) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Insig1 (NM_153526) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Insig1
Synonyms:	1810013C12Rik; Insig-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC212914 representing NM_153526 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAGGCTGCACGACCAGTCTGGAATATCCAAGCGGGCGCTGCGAGGCCGTACAGCCTCCCGC
GAGGCATGATTGCGGCGGCCGCTTGTCCGAGGGCCCGAGTCCCCGAACCCGAGCAGCGCCCCGGG
CCAGCGAGCGGGAACCACAGGATGCAGCGCGGGCCGGCAGCTGGCACCAGACTTGGTGCAGCGGAGC
CTAGTGCTTTCTCATTGGCGTGGTCTGGCCCTGGTGTCAACCTGCTGCAGATCCAGCGGAATGTCA
CGCTCTTCCCGACGAGGTGATAGCCACCATCTTCTCCTCGCCTGGTGGGTGCCCCGCTGTGTGGCAC
GGCAGCGGCTGTTGTGGTTTACTGTATCCCTGTATTGACAGTCACCTGGGAGAACCACACAAGTTCAAG
AGAGAATGGGCCAGCGTTATGCGCTGTATTGCCGTGTTGTTGGCATCAACCACGCCAGTGCCAAATTAG
ATTTTGCCAATAATGTCCAGCTGTCTTGAAGTATTAGCAGCCCTCTCTTTGGGTTTGTGGTGGACATTTGA
TCGTTCCCGAAGCGGCTTGGGCTTGGGATTACCATCGCCTTCTAGCTACGCTGATCACTCAGTTTCTT
GTGTATAATGGTGTCTACCAGTACAGTCCCCTGATTTCTCTATATCCGTTCTTGGCTCCCCTGTATAT
TTTTCTCAGGAGGTGTACAGTGGGAAACATAGGACGACAGTTAGCTATGGGTGTCCGAAAAGCCTCA
CAGTGAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_153526
Insert Size:	780 bp



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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_153526.5 , NP_705746.1
RefSeq Size:	2667 bp
RefSeq ORF:	780 bp
Locus ID:	231070
UniProt ID:	Q8BGI3
Cytogenetics:	5 B1
Gene Summary:	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. Initiates the sterol-mediated ubiquitin-mediated endoplasmic reticulum-associated degradation (ERAD) of HMGCR via recruitment of the reductase to the ubiquitin ligase, AMFR/gp78. May play a role in growth and differentiation of tissues involved in metabolic control. May play a regulatory role during G0/G1 transition of cell growth. [UniProtKB/Swiss-Prot Function]