

Product datasheet for MR202632

Insig2 (NM_133748) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Insig2 (NM_133748) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Insig2 |
| Synonyms: | 2900053I11Rik; C730043J18Rik; Insig-2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR202632 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAAGGAGAGACGGAGTCACCTCGGCCTAAAAAGTGTGGCCATACATTTCTCTGTACCAGCC
AGAGTGTGAACGTGGTGATCCGCGGGTGGTACTCTTCTCATTGGAGTGTCTGGCATTAGTGTGAA
CTTGCTTCAGATTCAGAGAAACGTGACACTTTTTCCACCAGATGTGATCACGAGCATCTTTTCATCTGCC
TGTTGGGTACCACCATGCTGCGGCACAGCCTCAGCTGTGATTGGGCTGTTGTACCCCTGCATTGACAGCC
ATCTAGGAGAACCTCATAAATTTAAAAGAGAGTGGTCCAGTGTCATGCGCTGCGTGGCGGTGTTCTGTGGG
TATAAATCACGCCAGTGCTAAAGTAGACTTCGACAACAACCTCCAGTTTTCCCTCACACTGGCTGCACTG
TCAGTAGGACTGTGGTGGACTTTTGACAGATCTAGAAGTGGTTTTGGCCTTGGTGTGGAATTGCTTTCT
TAGCAACCGTTGTACCCAACCTGTTAGTCTACAATGGTGTATCAATACACATCTCCAGATTTTCTCTA
TGTCCGTTCTGGTTGCCATGTATTTTTTGGTGGAGGCATAACGATGGGAAACATTGGCCGCAACTG
GCAATGTATGAATGCAAAGTTATTGCTGAAAAATCTCATCAAGAA

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202632 protein sequence
Red=Cloning site Green=Tags(s)

MAEGETESPRPKKCGPYISSVTSQSVNVVIRGVVLFVIGVFLALVLNLLQIQRNVTLPDPVITSIFSSA
 WWVPPCCGTASAVIGLLYPCIDRHLGEPHKFKREWSSVMRCVAVFVGINHASAKVDFDNNFQFSLTLAAL
 SVGLWWTDFDRSRSGFLGVGIAFLATVVTQLLVYNGVYQYTSDFLYVRSWLPICIFFAGGITMGNIGRQL
 AMYECKVIAEKSHQE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133748

ORF Size: 678 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

RefSeq: [NM_133748.2](#)

RefSeq Size: 2711 bp

RefSeq ORF: 678 bp

Locus ID: 72999

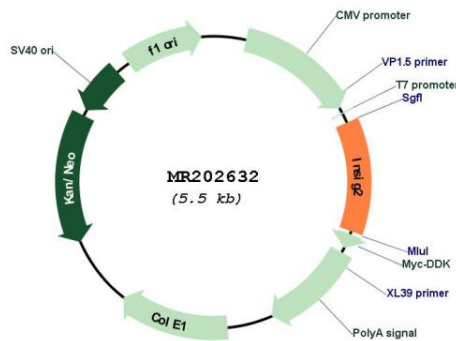
UniProt ID: [Q91WG1](#)

Cytogenetics: 1 E2.3

MW: 24.9 kDa

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. Seems to regulate the ubiquitin-mediated proteasomal degradation of HMGCR.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202632