

Product datasheet for **MG202632**

Insig2 (NM_133748) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Insig2 (NM_133748) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Insig2
Synonyms:	2900053I11Rik; C730043J18Rik; Insig-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202632 representing NM_133748 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAAGGAGAGACGGAGTCACCTCGGCCTAAAAAGTGTGGCCATACATTTCTCTGTACCAGCC
AGAGTGTGAACGTGGTGATCCGCGGGTGGTACTCTTCTCATTGGAGTGTCTGGCATTAGTGTGAA
CTTGCTTCAGATTCAGAGAAACGTGACACTTTTTCCACCAGATGTGATCACGAGCATCTTTTCATCTGCC
TGGTGGTACCACCATGCTGCGGCACAGCCTCAGCTGTGATTGGGCTGTTGTACCCCTGCATTGACAGCC
ATCTAGGAGAACCTCATAAATTTAAAAGAGAGTGGTCCAGTGTCATGCGCTGCGTGGCGGTGTTCTGTGGG
TATAAATCACGCCAGTGCTAAAGTAGACTTCGACAACAACCTCCAGTTTTCCCTCACACTGGCTGCACTG
TCAGTAGGACTGTGGTGGACTTTTGACAGATCTAGAAGTGGTTTTGGCCTTGGTGTGGAATTGCTTTCT
TAGCAACCGTTGTACCCAACCTGTTAGTCTACAATGGTGTATCAATACACATCTCCAGATTTTCTCTA
TGTCCGTTCTGGTTGCCATGTATTTTTTGGTGGAGGCATAACGATGGGAAACATTGGCCGCAACTG
GCAATGTATGAATGCAAAGTTATTGCTGAAAAATCTCATCAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202632 representing NM_133748
 Red=Cloning site Green=Tags(s)

MAEGETESPRPKKCGPYISSVTSQSVNVVIRGVVLFVIGVFLALVLNLLQIQRNVTLPDPVITSIFSSA
 WWVPCCGTASAVIGLLYPCIDRHLGEPHKFKREWSSVMRCVAVFVGINHASAKVDFDNNFQFSLTLAAL
 SVGLWWTFRSRSGFLGVGIAFLATVVTQLLVYNGVYQYTSDFLYVRSWLPICIFFAGGITMGNIGRQL
 AMYECKVIAEKSHQE

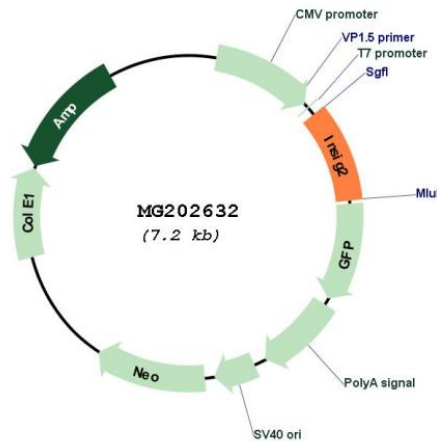
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_133748

ORF Size: 675 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:	<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_133748.2
RefSeq Size:	2449 bp
RefSeq ORF:	678 bp
Locus ID:	72999
UniProt ID:	Q91WG1
Cytogenetics:	1 E2.3
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]