

Product datasheet for **RG205274**

INSIG2 (NM_016133) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INSIG2 (NM_016133) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INSIG2
Synonyms:	INSIG-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205274 representing NM_016133 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAAGGAGAGACAGAGTCACCTGGGCCAAAAAGTGTGGCCATATATTTTCATCTGTCACTAGCC
AGAGTGTGAACCTGATGATTCGAGGAGTAGTGCTATTTTTTATTGGAGATTTCTTGCATTAGTGTTAAA
TTTACTTCAGATTCAGAGAAATGTGACGCTCTTCCACCTGATGTGATTGCAAGCATCTTTCTTCTGCA
TGGTGGGTACCCCATGCTGTGGCACGGCTTCAGCTGTGATTGGTTATTATACCCCTGCATTGACAGAC
ATCTAGGAGAACCACATAAATTTAAAAGAGAGTGGTCCAGTGTAATGCGGTGTGTAGCAGTCTTTGTTGG
TATAAATCATGCCAGTGCTAAAGTGGATTCGATAACAACATACAGTTGTCTCTCACACTGGCTGCACTA
TCCATTGGACTGTGGTGGACTTTTGATAGATCTAGAAGTGGTTTTGGCCTTGGAGTAGGAATTGCCTTCT
TGGCAACTGTGGTCACTCAACTGCTAGTATATAATGGTGTTTACCAATATACATCTCCAGATTTCTCTA
TGTTCTGTTCTGGTTACCATGTATTTTTTGGTGGAGGCATAACAATGGGAAACATTGGTGCACAACCTG
GCAATGTACGAATGTAAGTTATCGCAGAAAAATCTCATCAGGAA

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205274 representing NM_016133
 Red=Cloning site Green=Tags(s)

MAEGETESPGPKKCGPYISSVTSQSVNLMIRGVVLFFIGVFLALVLNLLQIQRNVTLPDPVIAIFSSA
 WWVPCCGTASAVIGLLYPCIDRHLGEPHKFKREWSSVMRCVAVFVGINHASAKVDFDNNIQLSLTLAAL
 SIGLWTFDRSRSGFLGVGIAFLATVVTQLLVYNGVYQYTSDFLYVRSWLPICIFFAGGITMGNIGRQL
 AMYECKVIAEKSHQE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016133

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:

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_016133.4](#)

RefSeq Size: 2592 bp

RefSeq ORF: 678 bp

Locus ID: 51141

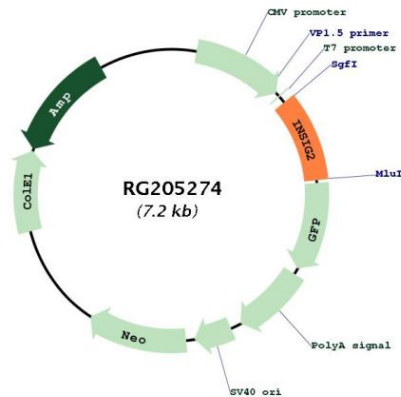
UniProt ID: [Q9Y5U4](#)

Cytogenetics: 2q14.1-q14.2

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is highly similar to the protein product encoded by gene INSIG1. Both INSIG1 protein and this protein are endoplasmic reticulum proteins that block the processing of sterol regulatory element binding proteins (SREBPs) by binding to SREBP cleavage-activating protein (SCAP), and thus prevent SCAP from escorting SREBPs to the Golgi. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205274