

Product datasheet for **RG215007**

INSM1 (NM_002196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INSM1 (NM_002196) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INSM1
Synonyms:	IA-1; IA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215007 representing NM_002196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCCGCGGCTTCTGGTGAAGCGCAGCAAGAAGTCCACGCCGTTTCTACCGGGTCCGCGCGCGG
 AGGACGCGCAGCCGCGCACTGCTGCTCTCGCCAGCTGCGGGGGCGCCCGCGCCGAGCCCCGCGCGCGAG
 CCCGGTCCCCGGGCGCTGCCGCCGCGCGCCCGCGGAGCGCGCCATGCAGCGCTCGCCGCGCGGCTT
 GCCTGCGCGCTGGGCCGAGCCACCCCGCAGGGCCGCGGGCCGCGCACTTCGGCAACCCGAGGCTG
 CGCACCCCGCGCGCTCTACAGTCCCACGCGGCCGTGAGCCGCGAGCAGAGAAGCACAAGTACTTCGA
 ACGCAGCTTCAACTGGGCTCGCCGGTCTCGGCCGAGTCTTCCACGCCCCGCGCGTCTCGGAGGG
 GCGGGCGCGCGCGCGAGCGGAGTGGCGGAGGCGGCACCTGCGGCGCGCAGCCGCTGCTCTTCGCGC
 CCGCCGAGCTCAAGATGGGCACGGCTTCTCGGCTGGCGCGAGGCGGCCCGCGGCCCGGGCCCCGGCCC
 CCCACTGCCCCCTGCCGCCGCCCTGCCGCCCGGAAAGCGGCCCGCCCCCTACCGCCGCGGAGCCG
 CCCGCCAAGGCAGTCAAGGCCCGGGCGCAAGAAGCCCAAGGCCATCCGCAAGCTGCACTTCGAGGACG
 AGGTGACCACGTGCGCCGTGCTGGGGCTCAAGATCAAGGAGGGCCCGGTGGAGGCGCCGCGGGGCCGCG
 GGGGGGCGCGCGCGGCCGTGGGCGAGTTCATCTGCCAGCTGTGCAAGGAGGAGTACGCCGACCCGTTT
 GCGCTGGCGCAGCACAATGCTCGCGCATCGTGCCTGTGGAGTACCGCTGTCCGAGTGCGCCAAGGTCT
 TCAGTGTCCCGGCCAACCTGGCTCGCACCGCCGCTGGCACAACCGGGCCCGCGCCCGCGCGCCCG
 CGCGCCGAGCCAGAAGCAGCAGCCAGGGCTGAGGCGCGGGAGGCACCGGGCGGGCAGCAGCCGGGAC
 ACGCCGAGCCCCGGCGCGTGTCCGAGTGGGCTCCGAGGACGGGCTCTACGAGTGCCATCACTGCGCCA
 AGAAGTTCGCGCCAGGCCTACCTACGAAGCACCTGCTGGCGCACCAACAGGCGCTGCAGGCCAAGGG
 CGCGCCGCTAGCGCCCCCGGCCGAGGACCTACTGGCCTTGTAACCCGGGGCCGACGAGAAGGCGCCCCAG
 GAGGCGCGCGCGCAGCGGAGGGGGCGCGCTGCTGGGCTGAGTGCGTCCGCGAGTGCCACCTGTGCC
 CAGTGTGCGGAGAGTCGTTGCGCAGCAAGGGCGCTCAGGAGCGCCACCTGCGCCTGCTGCACGCCGCCA
 GGTGTTCCCTGCAAGTACTGCCCGCCACCTTCTACAGCTCGCCCGCCTTACGCGGCACATCAACAAG
 TGCCACCCATCCGAAAACAGACAGGTGATCCTCCTGCAGGTGCCCGTGCGCCCGGCTGC

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215007 representing NM_002196
 Red=Cloning site Green=Tags(s)

MPRGFLVKRSKSTPVSRYVRGGEDGDRALLSPSCGGARAEPAPSPVPGPLPPPPPAERAHAALAAAL
 ACAPGPQPPPPQGPRAAHFGNPEAAHPAPLYSPTRPVSREHEKHKYFERSFNLGSPVSAESFPTPAALLGG
 GGGGASGAGGGGTCGGDPLLFAPAELKMGTAFSAGAEAAARGPGPGPLPPAAALRPPGKRPPPTAAEP
 PAKAVKAPGAKPKAIRKLHFEDEVTTSPVLGLKIKEGPVEAPRGRAGGAARPLGEFICQLCKEEYADPF
 ALAQHKCSRIVRVEYRCPECAKVFSCPANLASHRRWHKPRPAPAAARAPEPEAAARAAREAPGGGSDRD
 TPSPGGVSESGSEDGLYECHCAKKFRRQAYLRKHLLAHHQALQAKGAPLAPPAEDLLALYPGPDEKAPQ
 EAAGDGEGAGVLGLSASAEHLCPVCGESFASKGAQERHLRLHAAQVFPCKYCPATFYSSPGLTRHINK
 CHPSENRQVILLQVPVRPAC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002196

ORF Size: 1530 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_002196.3](#)

RefSeq Size: 2838 bp

RefSeq ORF: 1533 bp

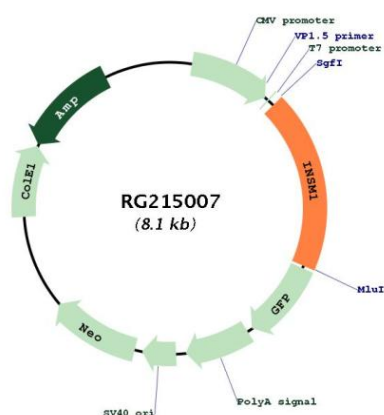
Locus ID: 3642

UniProt ID: [Q01101](#)

Cytogenetics: 20p11.23

Gene Summary: Insulinoma-associated 1 (INSM1) gene is intronless and encodes a protein containing both a zinc finger DNA-binding domain and a putative prohormone domain. This gene is a sensitive marker for neuroendocrine differentiation of human lung tumors. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG215007