

Product datasheet for **RG215762**

INSM2 (NM_032594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INSM2 (NM_032594) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INSM2
Synonyms:	IA-6; IA6; mlt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215762 representing NM_032594
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCCAAGGGGATTCTGGTGAAGCGAACTAAACGGACAGCGGGCTTGTACCGAGTTCGCCTTCCGGAGC
 GTGCTTCTCCCTCTGCTGGGGCCCCAGGGGGCGCCGCCCTTCTTGAGGAGGCTCCAGCGCCTCCTTGCC
 CGGCGCGGAGCGGGCGACACCCCCACCCGAGAGGAACAGGAAAGGGTTGACGGCGGAGCGGCCCGG
 GAACAGTCGGGGTCGCCATGTGGGCGGCTGGGGTGAAGCCGGGACGGGCGGGCGGGAAGGCGCGGAGT
 GGCGGGCGGGTGGCAGGAAGTCCCGGGCCAGCCCCAGCCCCAGCCCCAGTCCAGCGAAGCGGCAGG
 CGCAGAGTGCCTCGGGCGTCTCTGGAGCGCTGCCTCAGCTCGCCCGTCTCCGCCGAGTCTTTCCCGGG
 GGGCGCCCGCGTGGCCGCTTTCTCTGCTCCGTGGCGCCAGCAGCCGACCGACCCCGGGGGAGCAGT
 TTCTGCTGCCGCTTCGGGCGCCGTTCCAGAGCCCGCGCTTCAGCCGGACCCTGCGCCCCCTCGGCCGC
 CCTTCAGAGTCTGAAGCGGGCGGCGGGCGGCGAGCGCCGCGGCAAGGCACCCACGGGCTGCGCGTCTGGA
 CCCGCGGCGCGGAATCAAGAAGCCAAAGGCCATGAGGAAGTTGAGCTTTGCCGATGAGGTGACCACAT
 CCCCTGTCTGGGCTGAAGATCAAGGAGGAGGAGCCCGAGCGCCGTCCCGGGGCTTGGGGGGCAGCCG
 CACGCCACTGGGGGAGTTTCATCTGCCAGCTGTGCAAGGAGCAGTACGAGACCCCTTCGCGCTGGCCAG
 CACCGTCTCTCCGCATCGTGGCGTAGAGTACCGCTGCCCTGAGTGCACAAAGTGTTGAGTGTCTCTG
 CGAACCTGGCCTCCCATCGCCGCTGGCATAAGCCGCGTCTGCGGCTGCAAAAGCCGCCACAGTCTCTC
 CGCCGACGGGAAGCCGCTTCTTCGTCTCTTCGTCTCCCGGGACTCCGGGGCATTGCATCTTTCTG
 GCGGAGGGAAGGAGAACAGCCGAATAGAGCGGACTGCGGATCAGCACCCGAGGCCAGGGACAGTCCG
 GGGCGGATCAGCACCCGACAGCGCCCCGAGGAGGGCCTCCAGTGGTGACGCATCCAGAGCCACCGCT
 GCCTCAGGGCCCCACACGGAGGGGTGTTGGGGCGCCGGGTACCTGTGCCGGGCAGTACCAAGTGGTGGC
 AGGGGATCCGAGATTTTCGTGTGCCCATATTGCCACAAAAGTTTCGTGCCAAGCCTATCTGCGCAAGC
 ACCTGAGCACTACGAGGCGGGCTCGGCCGTGCGCTAGCGCCGGGCTTTGGCTCCGAACGCGGTGCCCC
 ACTTGCTTCTGCTTGGCCATTGTGCGGAGCGCACTTCCCTACAGCAGATATCAGGGAGAAGCAGCGGCTG
 TGGCATGCTGTCCGCGAGGAGTGTCTCTGCCGCTCTGGCGGGGGCTCTCCCGAAACGTGGGCCCTA
 GCGGGCCATCTGACGGGAGTGCCAGCAAATTTCTCTGTGCAAGCACTGCCCCTCACTTTTTTTAGCTC
 TCCAGGGCTGACCCGGCACATCAATAAGTGCCACCCCTCAGAAAGCCGGAAGTGTCTGCTGCAGATG
 CCACTGCGGCCTGGCTGC

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

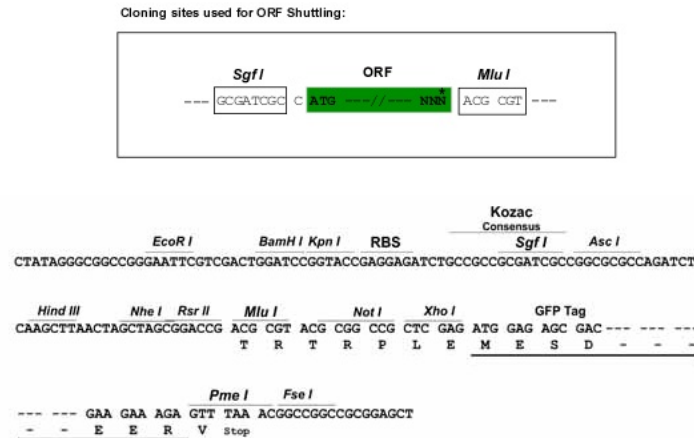
>RG215762 representing NM_032594
 Red=Cloning site Green=Tags(s)

MPRGFLVKRTKRTGGLYRVRLAERVFPLLGPQGAPPFLEEAPSASLPGAERATPPTREEPGKGLTAEAAAR
 EQSGSPCRAAGVSPGTGGREGAEWRAGGREGPGSPSPSPSPAKPAGAE LRRAFLERCLSSPVSAESFPG
 GAAVAAFSCSVAPAAAPTPGEQFLLPLRAPFPEPALQPDAPLSAALQSLKRAAGGERRGKAPTGCASG
 PAAAGIKPKAMRKL SFADEVTTSPVLGLKIKEEPEGAPSRGLGGSRTPLGEFICQLCKEQYADPFALAQ
 HRC SRIVRVEYRCPECDKVFSPANLASHRRWHKPRPAAANAATVSSADGKPPSSSSSSRDSGAIASFL
 AEGKENSRIERTADQHPQARDSSGADQHPDSAPRQGLQVVTHPEPPLPQGPYTEGLVRRVPVPGSTSGG
 RGSEIFVCPYCHKKFRQAYLRKHLSTHEAGSARALAPGFGSERGAPLAFACPLCGAHFPTADIREKHRL
 WHAVREELLLPALAGAPPETSGPSGSDGSAQQIF SCKHCPSTFFSSPGLTRHINKHPSESQRVLLLQM
 PLRPGC

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_032594

ORF Size: 1698 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_032594.2](#), [NP_115983.2](#)

RefSeq Size: 3024 bp

RefSeq ORF: 1701 bp

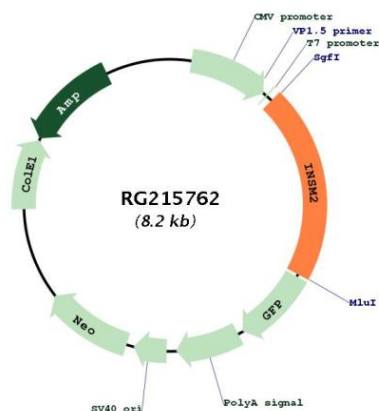
Locus ID: 84684

UniProt ID: [Q96T92](#)

Cytogenetics: 14q13.2

Gene Summary: May function as a growth suppressor or tumor suppressor in liver cells and in certain neurons.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG215762