

Product datasheet for **RC215762**

INSM2 (NM_032594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	INSM2 (NM_032594) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	INSM2
Synonyms:	IA-6; IA6; mlt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC215762 representing NM_032594
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGCCAAGGGGATTCTGGTGAAGCGAACTAAACGGACAGCGGCTTGTACCGAGTTCGCCTTCCGGAGC
 GTGTCTTCCCTCTGCTGGGGCCCCAGGGGCGCCGCCCTTCTTGAGGAGGCTCCAGCGCCTCCTTGCC
 CGGCGCGAGCGGGCGACACCCCCACCCGAGAGGAACAGGAAAGGGTTGACGCGGAGGCGGCCCGG
 GAACAGTCGGGGTCGCCATGTCGGGCGGCTGGGGTGAAGCCGGGACGGGCGGGCGGGAAGGCGCGGAGT
 GGCGGGCGGGTGGCAGGAAGTCCCGGGCCAGCCCCAGCCCCAGCCCCAGTCCAGCGAAGCGGCAGG
 CGCAGAGTGCCTCGGGCGTCTCTGGAGCGCTGCCTCAGCTCGCCCGTCTCCGCCGAGTCTTTCCCGGG
 GGGCGCGCGCGTGGCCGCTTTCTCTGCTCCGTGGCGCCAGCAGCGCACCGACCCCGGGGGAGCAGT
 TTCTGCTGCCGCTTCGGGCGCGCTTCCAGAGCCCGCGCTTCAGCCGACCTGCGCCCCCTCGGCCGC
 CCTTCAGAGTCTGAAGCGGGCGGCGGCGGCGAGCGCCGCGCAAGGCACCCACGGGCTGCGCGTCTGGA
 CCCGCGCGCGGGAATCAAGAAGCCAAAGGCCATGAGGAAGTTGAGCTTTGCCGATGAGGTGACCACAT
 CCCCTGTCTGGGCTGAAGATCAAGGAGGAGGAGCCCGAGCGCGTCCCGGGGCTTGGGGGGAGCCG
 CACGCCACTGGGGAGTTTCATCTGCCAGCTGTGCAAGGAGCAGTACGAGACCCCTTCGCGCTGGCCAG
 CACCGTCTCTCCGCATCGTGCCTGAGTACCGCTGCCCTGAGTGCACAAAGTGTTCAGCTGTCTCTG
 CGAACCTGGCCTCCCATCGCCGCTGGCATAAGCCGCGTCTGCGGCTGCAAGCGCCGACAGTCTCTC
 CGCGACGGGAAGCGCCTTCTCTGCTCTTCTGCTCTCCCGGACTCCGGGGCATTGCATCTTTCTG
 GCGGAGGGAAGGAGAACAGCCGAATAGAGCGGACTGCGGATCAGCACCCGAGGCCAGGACAGTCCG
 GGGCGGATCAGCACCCGACAGCGCCCCGAGGAGGGCCTCCAGTGGTACGCATCCAGAGCCACCGCT
 GCCTCAGGGCCCCACACGGAGGGGTGTTGGGGCGCGGGTACCTGTGCGGGGAGTACCAAGTGGTGCG
 AGGGGATCCGAGATTTCTGTGCTCCATATTGCCACAAAAGTTTCTGCGCAAGCTATCTGCGCAAGC
 ACCTGAGCACTACGAGGCGGGCTCGGCCGTCGCTAGCGCGGGCTTTGGCTCCGAACGCGGTGCCCC
 ACTTGCTTCTGCTTGGCCATTGTGCGGAGCGCACTTCCCTACAGCAGATATCAGGAGAAGCAGCGGCTG
 TGGCATGCTGTCCGAGGAGTGTCTCTGCGCGTCTGCGGGGGCTCTCCGAAACGTGGGCCCTA
 GCGGGCCATCTGACGGGAGTGCCAGCAAATTTCTCTGCAAGCACTGCGCGTCCACTTTTTTTAGCTC
 TCCAGGGCTGACCCGGCACATCAATAAGTGCCACCCCTCAGAAAGCCGGAAGTGTCTGCTGCGATG
 CCACTGCGGCTGGCTGC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215762 representing NM_032594
 Red=Cloning site Green=Tags(s)

MPRGFLVKRTKRTGGLYRVLAERVFPLLGPQGAPPFLFEEAPSASLPGAERATPPTREEPGKGLTAEAAAR
 EQSGSPCRAAGVSPGTGGREGAEWRAGGREGPGSPSPSPSPAKPAGAE LRRAFLERCLSSPVSAESFPG
 GAAVAAFSCSVAPAAAPTGEQFLLPLRAPFPEPALQPDAPLSAALQSLKRAAGGERRGKAPTGCASG
 PAAAGIKPKAMRKL SFADEVTTSPVLGLKIKEEPEGAPSRGLGGSRTPLGEFICQLCKEQYADPFALAQ
 HRCRIVRVEYRCPECDKVFSPANLASHRRWHKPRPAAANAATVSSADGKPPSSSSSSRDSGAIASFL
 AEGKENSRIERTADQHPQARDSSGADQHPDSAPRQGLQVVTHPEPPLPQGPYTEGVLGRRVPVPGSTSGG
 RGSEIFVCPYCHKKFRRQAYLRKHLSTHEAGSARALAPGFGSERGAPLAFACPLCGAHFPTADIREKHL
 WHAVREELLLPALAGAPPETSGPSGSDGSAQQIFSCKHCPSTFFSSPGLTRHINKCHPSESQVLLLM
 PLRPGC

TRTRPLE**QKLISEEDLA**AND**ILDYKDDDDK**V

Chromatograms:

https://cdn.origene.com/chromatograms/mk8029_a01.zip

Restriction Sites:

Sgfl-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032594.2](#), [NP_115983.2](#)

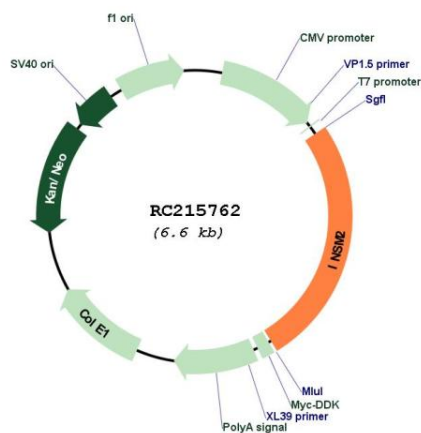
RefSeq Size: 3024 bp

RefSeq ORF: 1701 bp

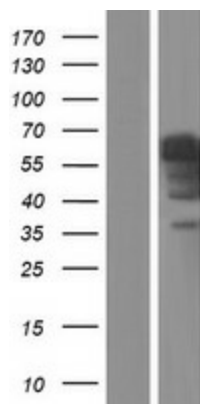
Locus ID: 84684

UniProt ID: [Q96T92](#)
Cytogenetics: 14q13.2
MW: 59.3 kDa
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 RC215762



Western blot validation of overexpression lysate (Cat# [LY410009]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215762 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).