

Product datasheet for MR226647

Ins2 (NM 001185083) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ins2 (NM_001185083) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Ins2

Synonyms: AA986540; In; Ins-2; InsII; Mod; Mody; Mody4

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >MR226647 representing NM_001185083 Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CTTTTGTCAAGCAGCACCTTTGTGGTTCCCACCTGGTGGAGGCTCTCTACCTGGTGTGTGGGGAGCGTGG CTTCTTCTACACCCCATGTCCCGCCGTGAAGTGGAGGACCCACAAGTGGCACAACTGGAGCTGGGTGGA GGCCCGGGAGCAGGTGACCTTCAGACCTTGGCACTGGAGGTGGCCCAGCAGAAGCGTGGCATTGTAGATC

AGTGCTGCACCAGCATCTGCTCCCTCTACCAGCTGGAGAACTACTGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

>MR226647 representing NM_001185083 **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MALWMRFLPLLALLFLWESHPTQAFVKQHLCGSHLVEALYLVCGERGFFYTPMSRREVEDPQVAQLELGG

GPGAGDLQTLALEVAQQKRGIVDQCCTSICSLYQLENYCN

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

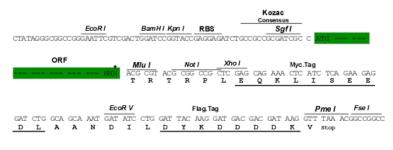
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001185083

ORF Size: 330 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: <u>NM 001185083.2</u>, <u>NP 001172012.1</u>

RefSeq Size: 455 bp RefSeq ORF: 333 bp



 Locus ID:
 16334

 UniProt ID:
 P01326

 Cytogenetics:
 7 88.0 cM

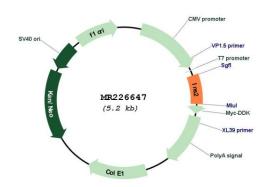
 MW:
 12.8 kDa

Gene Summary: This gene encodes insulin, a peptide hormone that plays a vital role in the regulation of

carbohydrate and lipid metabolism. The encoded precursor protein undergoes proteolytic cleavage to produce a disulfide-linked heterodimeric functional protein that is stored in secretory granules. An increase in blood glucose levels, among others, induces the release of insulin from the secretory granules. Mice deficient in the functional hormone encoded by this gene develop diabetes mellitus. Alternative splicing results in multiple transcript variants.

[provided by RefSeq, Aug 2015]

Product images:



Circular map for MR226647