

Product datasheet for MR200402

Ins1 (NM_008386) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ins1 (NM_008386) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ins1
Synonyms: Ins-1; Ins2-rs1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200402 representing NM_008386
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTGTTGGTGCACTTCTACCCCTGCTGGCCCTGCTTGCCTCTGGGAGCCCAAACCCACCCAGG
 CTTTTGTCAAACAGCATCTTTGGTCCCCACCTGGTAGAGGCTCTACCTGGTGTGTGGGAGCGTGG
 CTTCTTACACACCCAAGTCCCGCGTGAAGTGGAGGCCACAAGTGAACAAGTGGAGCTGGGAGGA
 AGCCCCGGGGACCTTACACCTTGGCGTTGGAGGTGGCCCGCAGAAGCGTGGCATTGTGGATCAGTGT
 GCACCAGCATCTGCTCCCTCTACCAGCTGGAGAACTACTGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200402 representing NM_008386
 Red=Cloning site Green=Tags(s)

MALLVHFLPLLALLALWEPKPTQAFVKQHLCPHLVEALYLCGERGFFYTPKSRREVDPQVEQLELGG
 SPGDLQTLALEVARQKRGIVDQCCTISCSLYQLENYCN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_008386

ORF Size: 324 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_008386.4](#), [NP_032412.3](#)

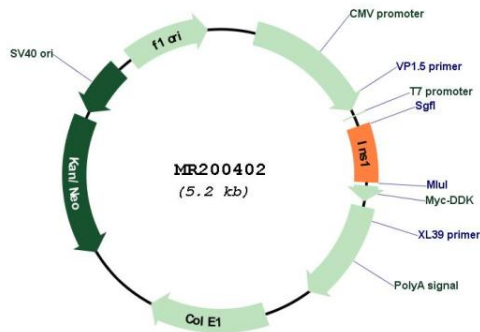
RefSeq Size: 1036 bp

RefSeq ORF: 327 bp

Locus ID: 16333
UniProt ID: [P01325](#)
Cytogenetics: 19 46.76 cM
MW: 12.6 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. [provided by RefSeq, Aug 2015]

Product images:



Circular map for MR200402