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Product datasheet for MC208793

Ins2 (NM_008387) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ins2 (NM_008387) Mouse Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>MC208793 representing NM_008387 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCCTGTGGATGCGCTTCCTGCCCCTGCTGGCCCTGCTCTTCCTCTGGGAGTCCCACCCCACCCAGG CTTTTGTCAAGCAGCACCTTTGTGGTTCCCACCTGGTGGAGGCTCTCTACCTGGTGTGTGGGGAGCGTGG CTTCTTCTACACACCCATGTCCCGCCGTGAAGTGGAGGACCCACAAGTGGCACAACTGGAGCTGGGTGGA GGCCCGGGAGCAGGTGACCTTCAGACCTTGGCACTGGAGGTGGCCCAGCAGAAGCGTGGCATTGTAGATC AGTGCTGCACCAGCATCTGCTCCCTCTACCAGCTGGAGAACTACTGCAACTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_008387
Insert Size:	333 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).

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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_008387.5, NP_032413.1
RefSeq Size:	485 bp
RefSeq ORF:	333 bp
Locus ID:	16334
UniProt ID:	P01326
Cytogenetics:	7 88.0 cM
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] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1-3 encode the same protein.

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