Product datasheet for MC208759

Igf2 (NM_001122736) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Igf2 (NM_001122736) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Igf2
Synonyms:	AL033362; Igf; Igf-; Igf-2; Igf-II; M; M6; M6pr; Mpr; Peg; Peg2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206836 representing BC053489. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGATCCCAGTGGGGAAGTCGATGTTGGTGCTTCTCATCTCTTTGGCCTTCGCCTTGTGCTGCATC
GCTGCTTACGGCCCCGGAGAGACTCTGTGCGGAGGGGAGCTTGTTGACACGCTTCAGTTTGTCTGTTCG
GACCGCGGCTTCTACTTCAGCAGGCCTTCAAGCCGTGCCAACCGTCGCAGCCGTGGCATCGTGGAAGAG
TGCTGCTTCCGCAGCTGCGACCTGGCCCTCCTGGAGACATACTGTGCCACCCCCGCCAAGTCCGAGAGG
GACGTGTCTACCTCTCAGGCCGTACTTCCGGACGACTTCCCCAGATACCCCGTGGGCAAGTTCTTCCAA
TATGACACCTGGAGACAGTCCGCGGGACGCCTGCGCAGAGGCCTGCCTGCCCTCCTGCGTGCCCGCCGG
GGTCGCATGCTTGCCAAAGAGCTCAAAGAGTTCAGAGAGGCCAAACGTCATCGTCCCCTGATCGTGTTA
CCACCCAAAGACCCCGCCCACGGGGGAGCCTCTTCGGAGATGTCCAGCAACCATCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001122736
Insert Size:	543 bp

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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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_001122736.2, NP_001116208.1
RefSeq Size:	3701 bp
RefSeq ORF:	543 bp
Locus ID:	16002
UniProt ID:	P09535
Cytogenetics:	7 87.99 cM

Gene Summary: This gene encodes a member of the insulin-like growth factor (IGF) family of proteins that promote growth and development during fetal and postnatal life. It is an imprinted gene that is expressed only from the paternal allele. The encoded protein undergoes proteolytic processing to generate a mature peptide. The transgenic overexpression of this gene in mice results in prenatal overgrowth, polyhydramnios, fetal and neonatal lethality, disproportionate organ overgrowth including tongue enlargement, and skeletal abnormalities. Mice lacking the encoded protein exhibit growth deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Oct 2015]

Transcript Variant: This variant (2) uses an alternate exon at its 5' terminus and uses a downstream in-frame start codon, compared to variant 1. This results in a protein (isoform 2) with a shorter N-terminus, compared to isoform 1. Variants 2 and 3 encode the same protein.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.