OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC208757

Igf1 (NM_001111275) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Igf1 (NM_001111275) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Igf1
Synonyms:	C730016P09Rik; Igf; Igf-; Igf-1; Igf-I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NM_001111275.1 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGGAAAATCAGCAGCCTTCCAACTCAATTATTTAAGATCTGCCTCTGTGACTTCTTGAAGATAAAGA TACACATCATGTCGTCTTCACACCTCTTCTACCTGGCGCTCTGCTTGCTCACCTTCACCAGCTCCACCAC AGCTGGACCAGAGACCCTTTGCGGGGCTGAGCTGGTGGATGCTCTTCAGTTCGTGTGTGGACCGAGGGGC TTTTACTTCAACAAGCCCACAGGCTATGGCTCCAGCATTCGGAGGGCACCTCAGACAGGCATTGTGGATG AGTGTTGCTTCCGGAGCTGTGATCTGAGGAGACTGGAGATGTACTGTGCCCCACTGAAGCCTACAAAAGC AGCCCGCTCTATCCGTGCCCAGCGCCACACTGACATGCCCAAGACTCAGAAGGAAGTACATTTGAAGAAC ACAAGTAGAGGAAGTGCAGGAAACAAGACCTACAGAATGTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Chromatograms:	https://cdn.origene.com/chromatograms/ja1516_e03.zip
Restriction Sites:	SgfI-MluI
ACCN:	NM_001111275
Insert Size:	462 bp

View online »

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).

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_001111275.1, NP_001104745.1

RefSeq Size: 7069 bp

RefSeq ORF: 462 bp

Locus ID: 16000

UniProt ID: P05017

Cytogenetics: 10 43.7 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. This gene is predominantly expressed in the liver and the encoded protein undergoes proteolytic processing to generate a disulfide-linked mature polypeptide. Transgenic disruption of this gene in mice results in reduced postnatal survival and severe growth retardation. Mice lacking the encoded protein exhibit generalized organ hypoplasia including underdevelopment of the central nervous system and developmental defects in bone, muscle and reproductive systems. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]
Transcript Variant: This variant (4) lacks an alternate frame-shifting exon in the 3' coding region, compared to variant 1, resulting in a protein (isoform 4) with a novel C-terminus, compared to isoform 1. This isoform (4) is also known as IA. Sequence Note: This RefSeq was created from transcript and genomic sequence because transcript sequence consistent with the reference assembly was not available for all regions of the RefSeq transcript. The extent of this transcript is supported by transcript alignments.