

## Product datasheet for **MC208754**

### Igf1 (NM\_001111274) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Igf1 (NM\_001111274) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Igf1  
**Synonyms:** C730016P09Rik; Igf; Igf-; Igf-1; Igf-I  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208754 representing NM\_001111274  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACCGCACCTGCAATAAAGATACACATCATGTCGTCTTCACACCTCTTCTACCTGGCGCTCTGCTTGC  
TCACCTTCACCAGCTCCACCACAGCTGGACCAGAGACCCTTTGCGGGGCTGAGCTGGTGGATGCTCTTCA  
GTTTCGTGTGTGGACCGAGGGGCTTTTACTTCAACAAGCCACAGGCTATGGCTCCAGCATTTCGGAGGGCA  
CCTCAGACAGGCATTGTGGATGAGTGTTGCTTCCGGAGCTGTGATCTGAGGAGACTGGAGATGACTGTG  
CCCCACTGAAGCCTACAAAAGCAGCCCGCTCTATCCGTGCCAGCGCCACACTGACATGCCAAAGACTCA  
GAAGTCCCCTCCCTATCGACAAACAAGAAAACGAAGCTGCAAAGGAGAAGGAAAGGAAGTACATTTGAA  
GAACACAAG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001111274  
**Insert Size:** 432 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).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001111274.1</a></u> , <u><a href="#">NP_001104744.1</a></u>
<b>RefSeq Size:</b>	7039 bp
<b>RefSeq ORF:</b>	432 bp
<b>Locus ID:</b>	16000
<b>Cytogenetics:</b>	10 43.7 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region, compared to variant 1. These differences cause translation initiation from a distinct start codon and result in an isoform (3) with a novel N-terminus, compared to isoform 1. This isoform (3) is also known as IIB. This isoform (3) may undergo proteolytic processing similar to isoform 4.</p> <p>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.</p>