

Product datasheet for **SC123649**

IGF1 (BC012881) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGF1 (BC012881) Human Untagged Clone
Tag:	Tag Free
Symbol:	IGF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC012881 edited
 GAGCCACCTCCCTGAGGCCGCTGCATCGCTTCCTTACAGCAGTCAACCACAGACTTTAAT
 TAATACAATAAGGTACAGACAACAGGGTGCCACGGACATTTAGGCCCAAGGAATATTATG
 CAAAAGCAGTGTTTTAAGGGAGTTTACGTGACAGACCAGCAGATTACACTGAACAAAGA
 AACAAGAAGTGATGTTGTCCCTGCCTGGAAGTGAACCTGGGGAGGAGAGAGGGAGAATTA
 TTCACAAAATCTCCTTCCCCAAACAGTCAACACCCAGAACCAACATGGAGCTCCTACCCC
 ACTGGGACTGCTGACTGAATCTTTCTGAGACCCAGTAAGGAGAAGTGGTTCCGGCAGC
 TGAGAAGCCAGGCTGTCTGCTAACGGCCTACAAGGGGCTCTCTCGCTGCTGTTAGGGCTG
 GTCTGCTCTGTGTCGGTCCAGTTGGGTACAACAAACCATTCACTCAACAGTGCCAG
 AGACCCCTCTGGAGACTGGGAAGCAGCTTCCTTGTGGTCGAGAGCTGTGCAGCCGGGAC
 AGGAGCCTGCATTCGTTATCACACATCACGGCCTTCGGCTTGGCTGGGGGCCAGGTGGGC
 ATGGATGCTGGCATGCCACAGGCAGATCTCAGCTTCCAGTGAGGTAGCAGCCTGCCGC
 ACCAAGACTCAGGGCTGTATGAGGAAGAGCCCTGGGACCCCCAGCATCCTCGGAACT
 CCCTGGAGCTTCATCATGGCCATGCGCAGCACACGGCAGACAACCGTTTCAGCAGTCCC
 TGGAGCCACGTGCTCCCTTCTTTTGCCTTGGCTCCCTTATGCCACCCACCAGCTC
 TTCAGGCTCAAAGGGGAAGTTGAAGAAGAATCTGGTACCTGGCCAGCTGCCAAGCCC
 CAAGGTACACAGCCCTAGAACCCTGCTGCCAAGTCCGTCTCGGGGGACCTAGGAGAGGA
 AGTCCGCCAGCCTGGGAAGCTGCCTCTCCAGCCTTGGCCAAGCACCTGGCAAAGTGC
 AGCTGAAATGCCGAGCACACTACAGGGGATACCCCTCCACCCAGCCCTGCTGAGAAG
 CCCAGCCACACTTTGATCTCCCTGAAATCCTTGAATCTAGGTCAAGGGTGGTGTAGGG
 GTTGGATGCACAGGAAGAGGCTGAGCACAAGACATGTGGACCAGTCAGGACTAGAGAC
 CTCCTTCTTCCAGACATGCACACTCAGCCAGCTGGAGATGACAAAACCTTACACACTC
 AAAGCCAAATACATGCGTAGGGGCGGCCACATGCCACGCACTGTTCTAAATATCTTTACA
 AACTCAGCTAATCCTCAGGACAATTCTCATTTTTACAGATGAGGAGACCGAGGCACAGCGT
 GGTGAAGTGACTTGTTCATGGTCACATAGGTGGTAAGGCAGTGAGGTGGAACCTGAACCC
 AGACAAGCAGCCTCCACTCCCCCAGCTGCTCACCTCTAACTCAGGCCGCTCTTGAAGA
 CAACCTGAAGATTTTTCTTTGCAATCGATAGTCTAGAGCAGGAGTCTCCAAGGGGAGAGA
 CCATGTCCCACTGGGAGCCCAAAGCACTCCAGGGAGGGTAGGAAAAAATATGAGAGCTT
 TTGTAAGTATTTTGTTCCTCACTCCTGTTTCTTCTCTCCCTTGTGGGTGAGGGCGAG
 TGAGCAGTTGATCATCTTAAACCAGGGCTGCCAGAGCCAGAGCCAGAGCCAGAAAATG
 GAGTGCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
 CTTTTTTTTTGATGGAGTCTAGCTCTGTGAC

5' Read Nucleotide Sequence: >OriGene 5' read for BC012881 unedited
 AACCTAAGATTTGTATACGACTTTTTATAGGCGGCCGCGCATTCTTTCTGAAACCCAGTA
 AGGAGAAGTGGTCCGGCAGCTGAGAAGCCAGGCTGTCTGCTAACGGCCTACAAGGGGCT
 CTCTCGCTGCTGTAGGGCTGGTCTGCTGTGTCCGTGGTCCAGTTGGGTACAACAAC
 CCATCACTCAACAGTGCCAGAGACCCCTCTGGAGACTGGGAAGCAGCTTCCTTGTGGT
 CGAGAGCTGTGCAGCCGGGACAGGAGCCTGCATTCGTTATCACACATCACGGCCTTCGGC
 TTGGCTGGGGGCCAGGTGGGCATGGATGCTGGCATGCCACAGGCAGATCTCAGCTTTCC
 AGTGAGGTAGCAGCCTGCCGACCAAGACTCAGGGCTGTATGAGGAAGAGCCCTGGGA
 CCCCCAGCATCCTCGGAACTCCCTGGAGCTTCATCATGGCCATGCGCAGCACACGGCA
 GACAACCGGTTACAGCAGTCCCTGGAGCCACGTGCCTCCCTTCTTTTGCCTTGGCTCC
 CTTATGCCACCCACCAGCTCTTCCAGGCTCCAAGGGGAAGTTGAAGAAGAATCTGGTA
 CCTGGCCAGCTGCCAAGCCCCAAAGTCAACAGCCCTAGAACCCTGTGCCAAGTCCGT
 CTCGGGGGACCTAGGAGAGGAAGTCCGCCAGCCTGAGAAGCTGCCTCTCCAGCCTTGCC
 AAGCACACCTGGCATACTGCAGCTGATATGCCGAGCACACTACAGGGGGGATACCCCT
 CCACCCAGCCCTGCTGAGAAGCCCAACCACACTTTGATCTCCCTGAAATCCCTGAAT
 CTAGGTCAAGGGTGGGTGCTAGGGGTTGGATGCACAGGGAAAAGCTGAGCACCAGACTGG
 GGGCCAGTCAGGACAGAGAACCTCT

Restriction Sites: Please inquire

ACCN:	BC012881
Insert Size:	1832 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).
Reconstitution Method:	<ol style="list-style-type: none">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:	<u>BC012881.1</u>
RefSeq Size:	1832 bp
Locus ID:	3479
Cytogenetics:	12q23.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Dilated cardiomyopathy, Focal adhesion, Glioma, Hypertrophic cardiomyopathy (HCM), Long-term depression, Melanoma, mTOR signaling pathway, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer
Gene Summary:	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]