

Product datasheet for SC119792

IGF1 (NM_000618) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: IGF1 (NM_000618) Human Untagged Clone
Tag: Tag Free
Symbol: IGF1
Synonyms: IGF; IGF-I; IGFII; MGF
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000618 edited
 ATGGGAAAAATCAGCAGTCTTCCAACCAATTATTTAAGTGCTTTTTGTGATTTCTTG
 AAGGTGAAGATGCACACCATGTCTCCTCGCATCTTTCTACCTGGCGCTGTGCCTGCTC
 ACCTTCACCAGCTCTGCCACGGCTGGACCGGAGACGCTCTGCGGGGCTGAGCTGGTGGAT
 GCTCTTCAGTTCGTGTGTGGAGACAGGGGCTTTTATTTCAACAAGCCACAGGGTATGGC
 TCCAGCAGTCGGAGGGCGCCTCAGACAGGCATCGTGGATGAGTGCTGCTCCGGAGCTGT
 GATCTAAGGAGGCTGGAGATGTATTGCGCACCCCTCAAGCCTGCCAAGTCAGCTCGCTCT
 GTCCGTGCCACGCCACACCGACATGCCAAGACCCAGAAGGAAGTACATTTGAAGAAC
 GCAAGTAGAGGGAGTGCAGGAAACAAGAACTACAGGATGTAG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000618 unedited
 GGGGATCAGGATTTGTATACGACTCTACTATAGGCGGCCGCAATTTCGACCAGCAGA
 CTTTGTACTTCATAACAATGGGAAAAACAGCAGTCTTCCAACCAATTATTTAAGTGCTG
 CTTTTGTGATTTCTGAAGGTGAAGATGCACACCATGTCTCCTCGCATCTTTCTACCT
 GGCGCTGTGCCTGCTCACCTTCACCAGCTCTGCCACGGCTGGACCGGAGACGCTCTGCGG
 GGCTGAGCTGGTGGATGCTCTTCAGTTCGTGTGTGGAGACAGGGGCTTTTATTTCAACA
 GCCACAGGGTATGGCTCCAGCAGTCGGAGGGCGCCTCAGACAGGCATCGTGGATGAGTG
 CTGCTTCCGGAGCTGTGATCTAAGGAGGCTGGAGATGTATTGCGCACCCCTCAAGCCTGC
 CAAGTCAGCTCGCTCTGTCCGTGCCAGCGCCACACCGACATGCCAAGACCCAGAAGGA
 AGTACATTTGAAGAACGCAAGTAGAGGGAGTGCAGGAAACAAGAACTACAGGATGTAGGA
 AGACCCTCCTGAGGAGTGAAGAGTGACATGCCACCGCAGGATCCTTTGCTCTGCACGAGT
 TACCTGTTAAACTTTGGAACACCTACCAAAAAATAAGTTTGATAACATTTAAAAGATGGG
 CGTTTCCCCCAATGAAATACACAAGTAAACATTCCAACATTGTCTTTAGGAGTGATTTGC
 ACCTTGCAAAAAATGGTCTGGAGTTGGTAGATTGCTGTTGATCTTTTATCAATAATGTTT
 TATAGAAAAAGAAAAAATATATATATATATATATATATCCTAGTCCCTGCCTCTCAAGAGCC
 ACNATGCATGGGTGTTGTATAGATCCAGTTGCACTAAATTCCTCTCTGAAATCTGGCTGC
 TGGAGCCATCATTACAGCACCTTGT



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000618 unedited CCCCCGGTCCCCTGTGTCTCCCTTCACTCCCGCCGNTCCGCTATGCACCGCGGNCCG CNATCCTACGACCGAGTTCTTTTTTTTTTTTTTTAGTCAAGTACTTTCTTAAAGAAACA TAGCACCACATTGGCATAGCTGGCCAAACAATAAATGGGAAAGCAAAATGTGCTACATCT TTTATTCTAAGCCTTCTCCCAAGTGCATAAAATAGTACCAGAACCCTGGAGCCACAGAG CCTGATATGGTTTTATCTACACAACATTGACGCTTACGGAGAGGAAGGATTCTCACGG GCGGACCGGCCTCTCCGTTCCGCTCGTCCCGCCCTTAATAAAAACCTTCAAGGAAGTGAC CTTTTTCACTACCCCATTTGGATTCTTACGCCGAATGTGTGCGTGCCGCGTGCCTGTG TGTGTGTGTGCGCTCCTTCTCCATACCCTACTTTCCCTTATCCACCTTTTCTAATCTC ACCCTTAATTCCACCCCGTCCCCTTATCCCCTATCCACACCCCTTTTACTAAT TCTCCCCCTCCATAAATCTTTCCACCTTCTTCGTCCTTTCTCTCTACT ACACCCGCCACCTCCCCATCCCACCCTATTTTCTACCATATACTACCCCAATCC CATTTTCTNTCTCCCCCCCCACCCCGCCCTCCCATCCCCCGTCTCTACCC CCACATCTTCTCCCCACCCCGCCCTCTCCCCCGTTTCTCGCTACCACATTTTA TATCCCATCTGTACTTCCCACCACCCTCTTACCCGCCTTCGTTCTTTCCCAACC CTCCCTCTCCCTTCTTTTCAATTTATTTTTATGTATCCTCTCTACCTTCCCC CCACCTCATCTTTTTACCCATTTCCCGTTGTTGTACCCCATCCCCTACACGCTTT AGTTTGTGTCTCCCTCCGTCATCTTATCCACCAACCCCGTGTCTTACCC CCCGTCTCCACCCAT
Restriction Sites:	NotI-NotI
ACCN:	NM_000618
Insert Size:	4230 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:	NM_000618.2 , NP_000609.1
RefSeq Size:	7260 bp
RefSeq ORF:	462 bp
Locus ID:	3479
UniProt ID:	P05019
Cytogenetics:	12q23.2

Domains:	IGF
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:	<p>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]</p> <p>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 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.</p>