

Product datasheet for SC317276

IGF2 (NM_001007139) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IGF2 (NM_001007139) Human Untagged Clone
Tag:	Tag Free
Symbol:	IGF2
Synonyms:	C11orf43; GRDF; IGF-II; PP9974; SRS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317276 representing NM_001007139. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGGAATCCCAATGGGGAAGTCGATGCTGGTGCTTCTCACCTTCTTGGCCTTCGCCTCGTCTGCATT
 GCTGCTTACCGCCCCAGTGAGACCCTGTGCGCGGGGAGCTGGTGGACACCCTCCAGTTCGTCTGGGG
 GACCGCGGCTTCTACTTCAGCAGGCCCGCAAGCCGTGTGAGCCGTCGACCCGTGGCATCGTTGAGGAG
 TGCTGTTTCCGACGTGTGACCTGGCCCTCCTGGAGACGTAAGTGTCTACCCCGCCAAGTCCGAGAGG
 GACGTGTCGACCCTCCGACCGTCTCCGACAACCTCCCGAGATACCCCGTGGCAAGTCTTCCAA
 TATGACACCTGGAAGCAGTCCACCCAGCGCCTGCGCAGGGGCTGCCTGCCCTCCTGCGTGCCCGCCGG
 GGTACAGTGTCTGCCAAGGAGCTCGAGGCGTTCAGGGAGGCCAAACGTCACCGTCCCTGATTGCTCTA
 CCCACCAAGACCCCGCCACGGGGCGCCCCCAGAGATGGCCAGCAATCGGAAG**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001007139
Insert Size:	543 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).


[View online »](#)

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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>NM_001007139.5</u>
RefSeq Size:	5162 bp
RefSeq ORF:	543 bp
Locus ID:	3481
UniProt ID:	<u>P01344</u>
Cytogenetics:	11p15.5
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
MW:	20.1 kDa
Gene Summary:	<p>This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in development and growth. It is an imprinted gene, expressed only from the paternal allele, and epigenetic changes at this locus are associated with Wilms tumour, Beckwith-Wiedemann syndrome, rhabdomyosarcoma, and Silver-Russell syndrome. A read-through INS-IGF2 gene exists, whose 5' region overlaps the INS gene and the 3' region overlaps this gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]</p> <p>Transcript Variant: This variant (2) contains two alternate 5' non-coding exons, therefore, has a different 5' UTR compared to variant 1. Variants 1, 2, 4 and 5 encode the same isoform (1).</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>