

## Product datasheet for **SC322910**

### IGF2 (NM\_001127598) Human Untagged Clone

#### Product data:

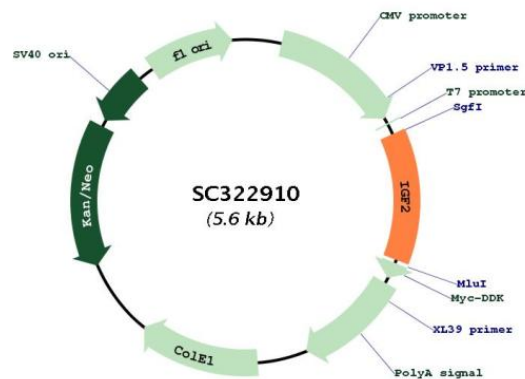
Product Type:	Expression Plasmids
Product Name:	IGF2 (NM_001127598) Human Untagged Clone
Tag:	Tag Free
Symbol:	IGF2
Synonyms:	C11orf43; GRDF; IGF-II; PP9974; SRS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC322910 representing NM_001127598. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTTTCCCAGACCCCAAATTATCGTGGTGGCCCCGAGACCGAACTCGCGTCTATGCAAGTCCAA
CGCACTGAGGACGGGTAACCAATTATCCAGATATTTGGGTGGGCCGAAAGGCGAGCTACTTAGACGC
ACCCCGGTGAGCTCGGCCATGCAGACCAATGGGAATCCCAATGGGGAAGTCGATGCTGGTGCTTCTC
ACCTTCTGGCCTTCGCCTCGTGTGCTGATTGCTGCTTACCGCCCCAGTGAGACCCGTGCGGGGGGAG
CTGGTGGACACCCTCCAGTTCGTCTGTGGGACCGCGGCTTCTACTTCAGCAGGCCCGCAAGCCGTGTG
AGCCGTCGCAGCCGTGGCATCGTTGAGGAGTGCTTTCCGCAGCTGTGACCTGGCCCTCCTGGAGACG
TACTGTGCTACCCCGCCAAGTCCGAGAGGGACGTGTGACCCCTCCGACCGTGCTCCGGACAACCTC
CCCAGATACCCCGTGGGCAAGTTCTTCCAATATGACACCTGGAAGCAGTCCACCCAGCGCCTGCGCAGG
GGCCTGCCTGCCCTCCTGCGTGCCTGGGGTACGCTGCTCGCCAAGGAGCTCGAGGCGTTAGGGAG
GCCAAACGTCACCGTCCCTGATTGCTCTACCCACCAAGACCCCGCCACGGGGGCGCCCCCAGAG
ATGGCCAGCAATCGGAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: Sgfl-MluI



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**Plasmid Map:**


**ACCN:** NM\_001127598

**Insert Size:** 711 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).

**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:**

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\\_001127598.2](#)

RefSeq Size:	4875 bp
RefSeq ORF:	711 bp
Locus ID:	3481
UniProt ID:	<a href="#">P01344</a>
Cytogenetics:	11p15.5
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
MW:	26.3 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 (3) contains two alternate exons at the 5' end, one non-coding and another coding, compared to variant 1. This results in the use of an upstream AUG (not found in variants 1 and 2) and a longer isoform (2) with a distinct N-terminus compared to isoform 1. 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>