

## Product datasheet for **RC219798**

### IGF2 (NM\_000612) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IGF2 (NM\_000612) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** IGF2  
**Synonyms:** C11orf43; GRDF; IGF-II; PP9974; SRS3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC219798 representing NM\_000612  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAATCCCAATGGGGAAGTCGATGCTGGTCTTCTCACCTTCTTGGCCTTCGCCTCGTGTGCATTG  
CTGCTTACCGCCCAGTGAGACCCTGTGCGCGGGGAGCTGGTGGACACCCTCCAGTTCGCTGTGGGA  
CCGCGGCTTCTACTTCAGCAGGCCCGAAGCCGTGTGAGCCGTCGCAGCCGTGGCATCGTTGAGGAGTGC  
TGTTCCGCAGCTGTGACCTGGCCCTCCTGGAGACGTACTGTGCTACCCCGCCAAGTCCGAGAGGGACG  
TGTCGACCCTCCGACCGTCTCCGGACAACCTCCCCAGATACCCCGTGGCAAGTCTTCCAATATGA  
CACCTGGAAGCAGTCCACCCAGCGCCTGCGCAGGGGCCTGCCTGCCCTCCTGCGTGCCCGCGGGGTAC  
GTGCTCGCCAAGGAGCTCGAGGCGTTCAGGGAGGCCAAACGTACCCGTCCCCTGATTGCTCTACCCACC  
AAGACCCCGCCACGGGGCGCCCCCAGAGATGGCCAGCAATCGGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC219798 representing NM\_000612  
Red=Cloning site Green=Tags(s)

MGIPMGKSMVLVLLTFLAFASCCIAAYRPSETLGGELVDTLQFVCGDRGFYFSRPASRVRRSRGIVEEC  
CFRSCDLALLETYCATPAKSERDVSTPPTVLPDNFPRYPVGFQYDTWKQSTQRLRRLPALLRARRGH  
VLAKELEAFREAKRHRPLIALPTQDPAHGGAPPEMASNRK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

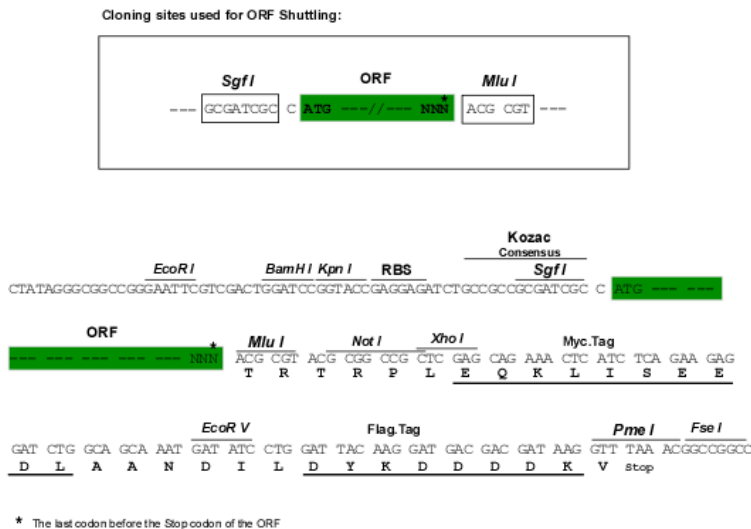
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6043\\_e04.zip](https://cdn.origene.com/chromatograms/mk6043_e04.zip)



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_000612

ORF Size: 540 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_000612.6](#)

RefSeq Size: 1640 bp

RefSeq ORF: 543 bp

Locus ID: 3481

UniProt ID: [P01344](#)

**Cytogenetics:** 11p15.5

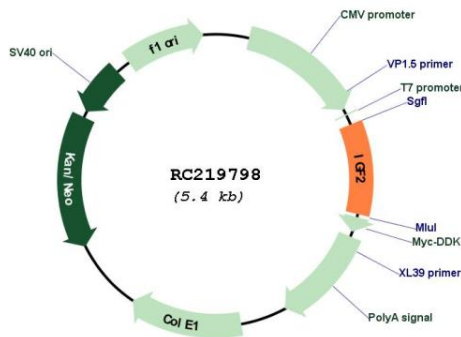
**Domains:** IIGF

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

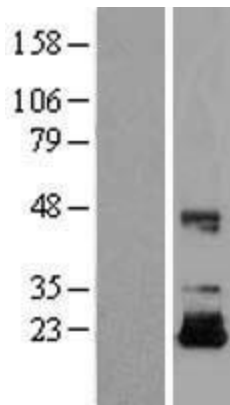
**MW:** 20.14 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for RC219798



Western blot validation of overexpression lysate (Cat# [LY400204]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219798 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).