

## Product datasheet for **RC225218**

### IGF1 (NM\_00111285) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IGF1 (NM\_00111285) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** IGF1  
**Synonyms:** IGF; IGF-I; IGFII; MGF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC225218 representing NM\_00111285  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAAAAATCAGCAGTCTTCCAACCAATTATTTAAGTGCTGCTTTTGTGATTTCTTGAAGGTGAAGA  
 TGCACACCATGTCCTCCTCGCATCTCTTCTACCTGGCGCTGTGCCTGCTCACCTTACCAGCTCTGCCAC  
 GGCTGGACCGGAGACGCTCTGCGGGCTGAGCTGGTGGATGCTCTTCAGTTCGTGTGTGGAGACAGGGGC  
 TTTTATTTCAACAAGCCACAGGGTATGGCTCCAGCAGTCGGAGGGCGCCTCAGACAGGCATCGTGGATG  
 AGTGCTGCTTCCGGAGCTGTGATCTAAGGAGGCTGGAGATGTATTGCGCACCCCTCAAGCCTGCCAAGTC  
 AGCTCGCTCTGTCCGTGCCAGCCACACCGACATGCCAAGACCCAGAAGTATCAGCCCCATCTACC  
 AACAGAACACGAAGTCTCAGAGAAGGAAAGTTGGCCAAAGACACATCCAGGAGGGGAACAGAAGGAGG  
 GGACAGAAGCAAGTCTGCAGATCAGAGGAAAGAAGAAAGAGCAGAGGAGGGAGATTGGAAGTAGAAATGC  
 TGAATGCAGAGGCAAAAAGGAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC225218 representing NM\_00111285  
 Red=Cloning site Green=Tags(s)

MGKISSLPTQLFKCCFDLKVKMHMTSSSHLFYLALCLLFTSSATAGPETLCGAELVDALQFVCGDRG  
 FYFNKPTGYGSSRRAPQTGIVDECCFRSCDLRRLRLEMYCAPLKPASARSVRAQRHTDMPKTQKYQPPST  
 NKNTKSQRRKGWPKTHPGGEQKEGTEASLQIRGKKKEQRREIGSRNAECRGKKGK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

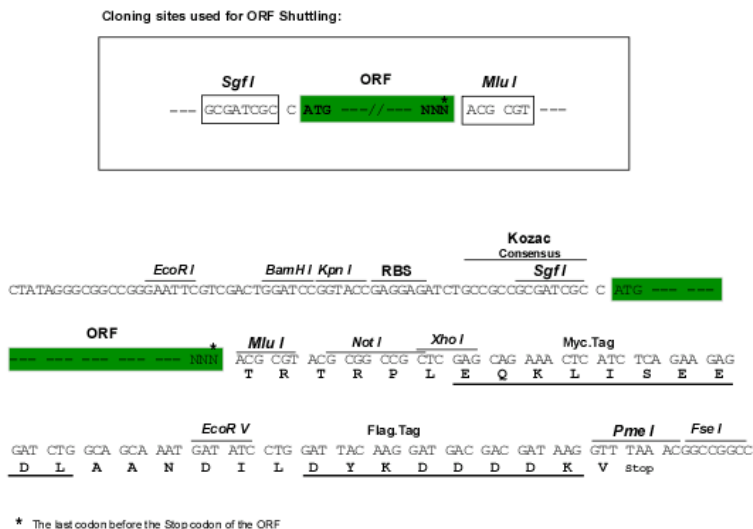


[View online »](#)

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1888\\_e10.zip](https://cdn.origene.com/chromatograms/ja1888_e10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001111285

**ORF Size:** 585 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001111285.3](#)

**RefSeq ORF:** 588 bp

**Locus ID:** 3479

**UniProt ID:** [P05019](#)

**Cytogenetics:** 12q23.2

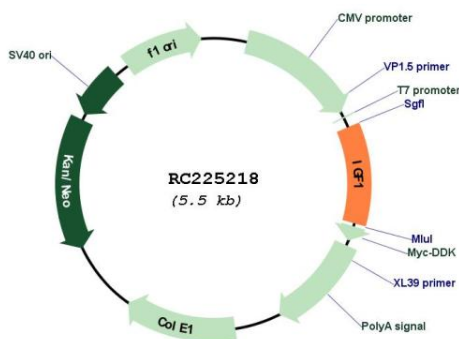
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

**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

**MW:** 21.84 kDa

**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]

### Product images:



Circular map for RC225218