

Product datasheet for **RC225218**

IGF1 (NM_001111285) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IGF1 (NM_001111285) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IGF1
Synonyms: IGF; IGF-I; IGF1; MGF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC225218 representing NM_001111285
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAAAAATCAGCAGTCTTCCAACCAATTATTTAAGTGCTGCTTTTGTGATTTCTGAAGGTGAAGA
TGCACACCATGTCCTCTCGCATCTCTTCTACCTGGCGCTGTGCCTGCTCACCTTCACGAGCTCTGCCAC
GGCTGGACCGGAGACGCTCTGCGGGCTGAGCTGGTGGATGCTCTTCAGTTCGTGTGTGGAGACAGGGGC
TTTTATTTCAACAAGCCACAGGGTATGGCTCCAGCAGTCGGAGGGCGCCTCAGACAGGCATCGTGGATG
AGTGCTGCTTCCGGAGCTGTGATCTAAGGAGGCTGGAGATGTATTGCGCACCCCTCAAGCCTGCCAAGTC
AGCTCGCTCTGTCCGTGCCCAGCGCCACACCGACATGCCAAGACCCAGAAGTATCAGCCCCATCTACC
AACAAGAACACGAAGTCTCAGAGAAGGAAAGTTGGCCAAAGACACATCCAGGAGGGGAACAGAAGGAGG
GGACAGAAGCAAGTCTGCAGATCAGAGGAAAGAAGAAAGAGCAGAGGAGGGAGATTGGAAGTAGAAATGC
TGAATGCAGAGGCAAAAAAGGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225218 representing NM_001111285
Red=Cloning site **Green**=Tags(s)

MGKISSLPQLFKCCFDFLKVKMHTMSSSHLFYALCLLTFTSSATAGPETLCAELVDALQFVCGDRG
FYFNKPTGYGSSRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPASARSVRAQRHTDMPKTQKYQPPST
NKNTKSQRRKGWPKTHPGGEQKEGTEASLQIRGKKKEQRREIGSRNAECRGKKGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

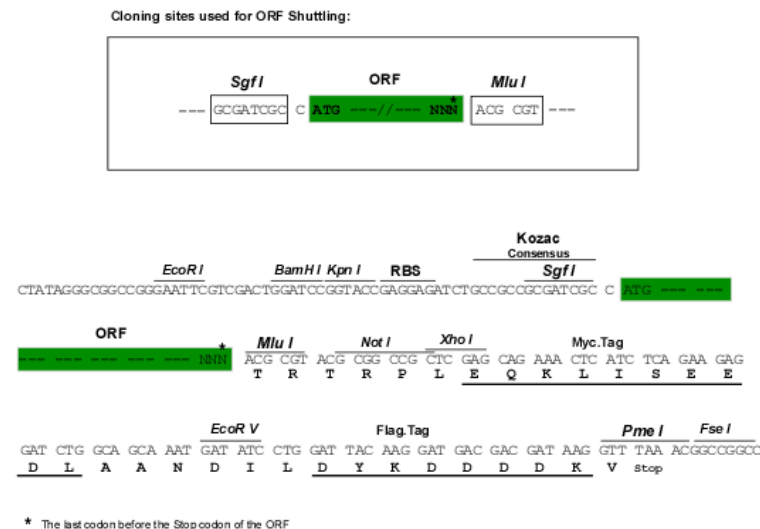


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Chromatograms: https://cdn.origene.com/chromatograms/ja1888_e10.zip

Restriction Sites: Sgfl-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 or by calling 301.340.3188 option 3 for pricing and delivery.

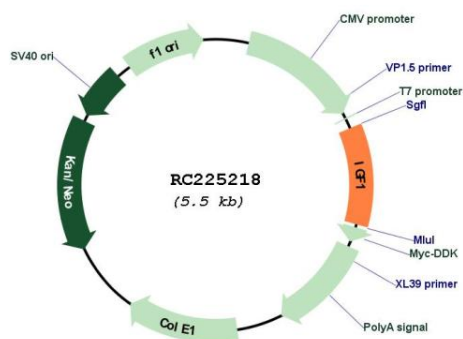
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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: | <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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM_001111285.3</u> |
| RefSeq ORF: | 588 bp |
| Locus ID: | 3479 |
| UniProt ID: | <u>P05019</u> |
| 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