

## Product datasheet for **RG225218**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IGF1 (NM\_00111285) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IGF1  
**Synonyms:** IGF; IGF-I; IGFII; MGF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG225218 representing NM\_00111285  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAAAAATCAGCAGTCTTCCAACCAATTATTTAAGTGCTGCTTTTGTGATTTCTGAAGGTGAAGA  
TGCACACCATGTCCTCCTCGCATCTCTTCTACCTGGCGCTGTGCCTGCTCACCTTACCAGCTCTGCCAC  
GGCTGGACCGGAGACGCTCTGCGGGCTGAGCTGGTGGATGCTCTTCAGTTCGTGTGTGGAGACAGGGGC  
TTTTATTTCAACAAGCCACAGGGTATGGCTCCAGCAGTCGGAGGGCGCCTCAGACAGGCATCGTGGATG  
AGTGCTGCTTCCGGAGCTGTGATCTAAGGAGGCTGGAGATGTATTGCGCACCCCTCAAGCCTGCCAAGTC  
AGCTCGCTCTGTCCGTGCCAGCCACACCGACATGCCAAGACCCAGAAGTATCAGCCCCATCTACC  
AACAGAACACGAAGTCTCAGAGAAGGAAAGTTGGCCAAAGACACATCCAGGAGGGGAACAGAAGGAGG  
GGCAGAAAGCAAGTCTGCAGATCAGAGGAAAGAAGAAAGAGCAGAGGAGGGAGATTGGAAGTAGAAATGC  
TGAATGCAGAGGCAAAAAGGAAAA

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG225218 representing NM\_00111285  
Red=Cloning site Green=Tags(s)

MGKISSLPTQLFKCCFDFLKVKMHMTMSSSHLFYLALCLLLFTSSATAGPETLCGAELVDALQFVCGDRG  
FYFNKPTGYGSSRRAPQTGIVDECCFRCDLRRLEMYCAPLKPASARSVRAQRHTDMPKTQKYQPPST  
NKNTKSQRKRWPKTHPGGEQKEGTEASLQIRGKKKEQRREIGSRNAECRGKKGK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**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).

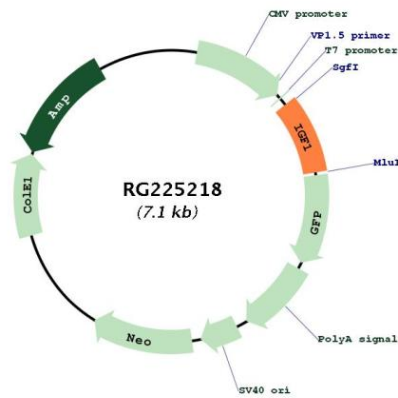
**Reconstitution Method:**

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 Size:	949 bp
RefSeq ORF:	588 bp
Locus ID:	3479
UniProt ID:	<a href="#">P05019</a>
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
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 RG225218