

## Product datasheet for **RG236319**

### IGF2 (NM\_001291861) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IGF2 (NM\_001291861) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IGF2  
**Synonyms:** C11orf43; GRDF; IGF-II; PP9974; SRS3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236319 representing NM\_001291861.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGAATCCCAATGGGGAAGTCGATGCTGGTCTTCTCACCTTCTTGGCCTTCGCCTCGCTGCTGCATT
GCTGCTTACCGCCCCAGTGAGACCCTGTGCGCGGGGAGCTGGTGGACACCCTCCAGTTCGTCGTGGG
GACCGCGCTTCTACTTCAGCAGGCCCGCAAGCCGTGTGAGCCGTCGAGCCGTGGCATCGTTGAGGAG
TGCTGTTCCGCAGCTGTGACCTGGCCCTCCTGGAGACGTAAGTGTCTACCCCGCCAAGTCCGAGAGG
GACGTGTCGACCCTCCGACCGTCTCCGACAACCTCCCCAGATACCCCGTGGCAAGTCTTCCAA
TATGACACCTGGAAGCAGTCCACCAGCGCTGCGCAGGGGCTGCCTGCCCTCCTGCGTCCCCGCCG
GGTCACGTGCTCGCAAGGAGCTCGAGGCGTTCAGGGAGGCCAAACGTCACCGTCCCCTGATTGCTCTA
CCCACCAAGACCCCGCCACGGGGCGCCCCCAGAGATGGCCAGCAATCGGAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236319  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MGIPMGKSMVLVLLTFLAFASCCIAAYRPSETLCGGELVDTLQFVCGDRGFYFSRPASRVSRRSRGIVVEE
CCFRSCDLALLETYCATPAKSERDVSTPPTVLPDNFPRYPVKGFFQYDTWKQSTQRLRRGLPALLRARR
GHVLAKELEAFREAKRHRPLIALPTQDPAHGGAPPEMASNRK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** Sgfl-MluI

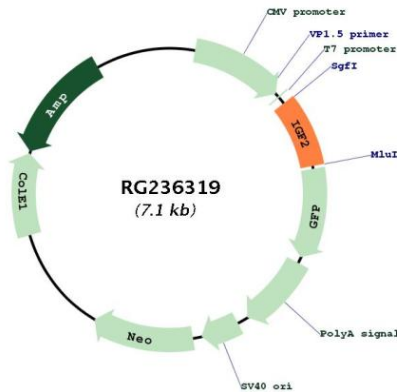


**Cloning Scheme:**


- ACCN:** NM\_001291861
- 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).
- RefSeq:** [NM\\_001291861.3](#)
- RefSeq Size:** 4539 bp
- RefSeq ORF:** 543 bp
- Locus ID:** 3481
- UniProt ID:** [P01344](#)
- Cytogenetics:** 11p15.5
- Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
- MW:** 20.1 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 RG236319