

## **Product datasheet for RG220218**

## INS-IGF2 (NM 001042376) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** INS-IGF2 (NM\_001042376) Human Tagged ORF Clone

Tag:TurboGFPSymbol:INS-IGF2Synonyms:INSIGF

Selection:

**Mammalian Cell** 

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG220218 representing NM\_001042376
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCCTGTGGATGCGCCTCCTGCCCCTGCTGCGCGCTGCTGGCCCCTCTGGGGACCTGACCCAGCCGCAG
CCTTTGTGAACCAACACCTGTGCGGCTCACACCTGGTGGAAGCTCTCTACCTAGTGTGCGGGGAACGAGG
CTTCTTCTACACACCCCAAGACCCGCCGGGAGGCAGAGGACCTGCAGGCCTCAGCTTTGTCCCTCTCCTCC
TCCACGTCAACCTGGCCAGAGGGTCTGGACGCCACAGCCAGGCACCCCCTGCTTTGGTGGTGACTGCTA
ATATTGGCCAGGCCGGCGGATCATCGTCCAGGCAGTTTCGGCAGAGAGCCTTGGGCACCAGTGACTCCCC
GGTCCTCTTTATCCACTGTCCAGGAGGTGCGCGGGGACTGCGCAGGGACTAGAGTACAGGGGCCGAAGAGTC
ACCACCGAGCTTGTGTGGGAGGAGGGGTGGATTCCAGCCCCCAGCCCCAGGCCTCTGAATCGCTGCCAGCTC
AGCCCCCTGCCCAGCCTGCCCCACAGCCTGAGCCCCAGCAGGCCCAGTCCTGAGGTGAGCTG

 ${\tt CTGTGGCCTGTGGCCCAGGCGACCCCAGCGCTCCCAGAAC}$ 

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220218 representing NM\_001042376

Red=Cloning site Green=Tags(s)

MALWMRLLPLLALLALWGPDPAAAFVNQHLCGSHLVEALYLVCGERGFFYTPKTRREAEDLQASALSLSS STSTWPEGLDATARAPPALVVTANIGQAGGSSSRQFRQRALGTSDSPVLFIHCPGAAGTAQGLEYRGRRV

TTELVWEEVDSSPQPQGSESLPAQPPAQPAPQPEPQQAREPSPEVSCCGLWPRRPQRSQN

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



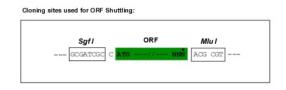
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

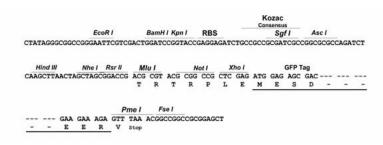
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

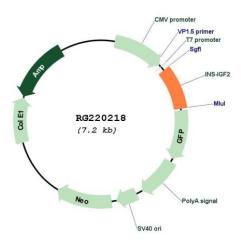


## **Cloning Scheme:**





## Plasmid Map:



**ACCN:** NM\_001042376

ORF Size: 600 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 001042376.3

RefSeq Size: 828 bp
RefSeq ORF: 603 bp
Locus ID: 723961
UniProt ID: F8WCM5
Cytogenetics: 11p15.5

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

**Gene Summary:** This locus includes two alternatively spliced read-through transcript variants which align to

the INS gene in the 5' region and to the IGF2 gene in the 3' region. One transcript is predicted to encode a protein which shares the N-terminus with the INS protein but has a distinct and longer C-terminus, whereas the other transcript is a candidate for nonsense-mediated decay (NMD). The transcripts are imprinted and are paternally expressed in the limb and eye.

[provided by RefSeq, Jul 2008]