

## Product datasheet for **RG203042**

### IER3IP1 (NM\_016097) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IER3IP1 (NM\_016097) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IER3IP1  
**Synonyms:** HSPC039; MEDS; PRO2309  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203042 representing NM\_016097  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTTTACCCTGTACTCACTGCTGCAGGCAGCCCTGCTCTGCGTCAACGCCATCGCAGTGTGCACG  
AGGAGCGATTCTCAAGAACATTGGCTGGGGAACAGACCAGGGAATTGGTGGATTGGAGAAGAGCCGGG  
AATTAATCAGCTAATGAACCTTATTCGATCTGTAAGAACCGTATGAGAGTGCCATTGATAATAGTA  
AACTCAATTGCAATTGTGTTACTTTTATTATTGGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG203042 representing NM\_016097  
Red=Cloning site Green=Tags(s)  
MAFTLYSLLQAALLCVNAIAVLHEERFLKNIGWGTDQGIGGFGEPEGIKSQLMNLIRSVRTVMRVP LIIV  
NSIAIVLLLLFG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_016097

**ORF Size:** 246 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\\_016097.5](#)

**RefSeq Size:** 1460 bp

RefSeq ORF: 249 bp

Locus ID: 51124

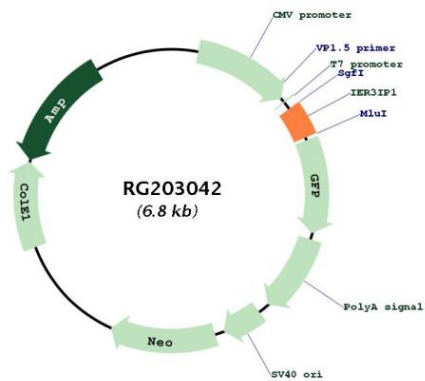
UniProt ID: [Q9Y5U9](#)

Cytogenetics: 18q21.1

Protein Families: Transmembrane

**Gene Summary:** This gene encodes a small protein that is localized to the endoplasmic reticulum (ER) and may play a role in the ER stress response by mediating cell differentiation and apoptosis. Transcription of this gene is regulated by tumor necrosis factor alpha and specificity protein 1 (Sp1). Mutations in this gene may play a role in microcephaly, epilepsy, and diabetes syndrome (MEDS), and a pseudogene of this gene is located on the long arm of chromosome 12. [provided by RefSeq, Dec 2011]

**Product images:**



Circular map for RG203042