

## Product datasheet for **RG200348**

### ROC1 (RBX1) (NM\_014248) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ROC1 (RBX1) (NM\_014248) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ROC1  
**Synonyms:** BA554C12.1; RNF75; ROC1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200348 representing NM\_014248  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCAGCGATGGATGTGGATACCCCGAGCGGCACCAACAGCGCGCGGGCAAGAAGCGCTTTGAAG  
TGAAAAAGTGGAAATGCAGTAGCCCTCTGGGCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAA  
CCACATTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCCGCTACTTCAGAAGAGTGTACTGTC  
GCATGGGGAGTCTGTAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAACACGACAGGTGT  
GTCCATTGGACAACAGAGAGTGGGAATTCAAAAGTATGGGCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG200348 representing NM\_014248  
Red=Cloning site Green=Tags(s)  
MAAAMDVDTPSGTNSGAGKKRFVKKWNAVALWAWDIVVDNCAICRNHIMDLCEIQANQASATSEECTV  
AWGVCNHAFHFHCISRWLKTRQVCPLDNREWEFQKYGH

**TRTRPLE** - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3010\\_a07.zip](https://cdn.origene.com/chromatograms/ja3010_a07.zip)

**Restriction Sites:** Sgfl-Mlul



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_014248

**ORF Size:** 324 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\\_014248.4](#)

**RefSeq Size:** 521 bp

**RefSeq ORF:** 327 bp

**Locus ID:** 9978

**UniProt ID:** [P62877](#)

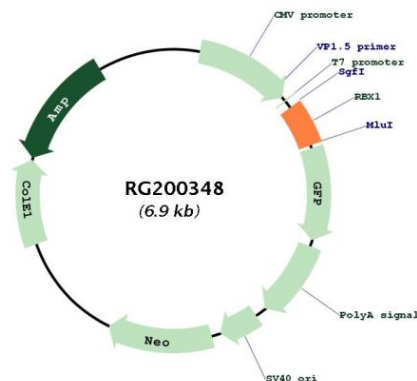
**Cytogenetics:** 22q13.2

**Protein Families:** Druggable Genome

**Protein Pathways:** Cell cycle, Nucleotide excision repair, Oocyte meiosis, Pathways in cancer, Renal cell carcinoma, TGF-beta signaling pathway, Ubiquitin mediated proteolysis, Wnt signaling pathway

**Gene Summary:** This locus encodes a RING finger-like domain-containing protein. The encoded protein interacts with cullin proteins and likely plays a role in ubiquitination processes necessary for cell cycle progression. This protein may also affect protein turnover. Related pseudogenes exist on chromosomes 2 and 5.[provided by RefSeq, Sep 2010]

### Product images:



Circular map for RG200348