

Product datasheet for **RC200348**

ROC1 (RBX1) (NM_014248) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: ROC1

Synonyms: BA554C12.1; RNF75; ROC1

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC200348 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCAGCGATGGATGTGGATACCCCGAGCGGCACCAACAGCGGCGCGGCAAGAAGCGCTTTGAAG
 TGAAGAAAGTGGATGCAGTAGCCCTCTGGGCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAA
 CCACATTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCCGCTACTTCAGAAGAGTGTACTGTC
 GCATGGGGAGTCTGTAAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAACACGACAGGTGT
 GTCCATTGGACAACAGAGAGTGGGAATTCAAAAGTATGGGCAC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200348 protein sequence
 Red=Cloning site Green=Tags(s)

MAAAMDVDTPSGTNSGAGKKRFEVKKWNAVALWWDIVVDNCAICRNHIMDLCECQANQASATSEECTV
 AWGVCNHAHFHFCISRWLKTRQVCPLDNREWEFQKYGH

TRTRPLE**QKLISEEDLA**NDILDYKDDDDKV

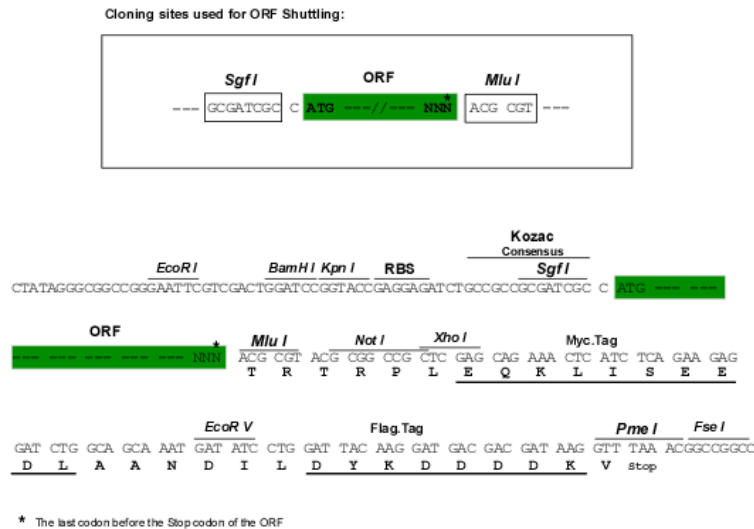
Chromatograms: https://cdn.origene.com/chromatograms/mk6061_g09.zip

Restriction Sites: SgfI-MluI



[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 or by calling 301.340.3188 option 3 for pricing and delivery.

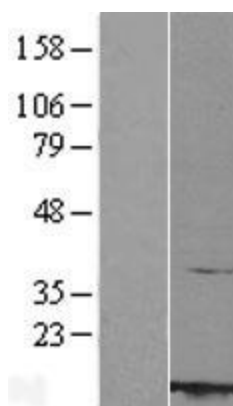
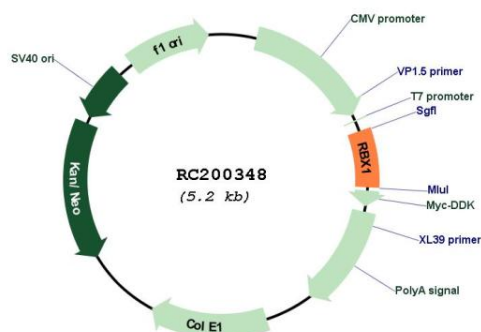
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

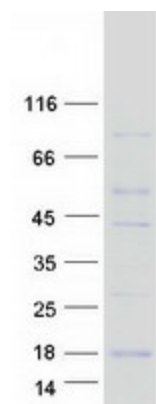
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_014248.4</u>
RefSeq Size:	906 bp
RefSeq ORF:	327 bp
Locus ID:	9978
UniProt ID:	<u>P62877</u>
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
MW:	12.3 kDa
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:



Western blot validation of overexpression lysate (Cat# [LY402295]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200348 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RBX1 protein (Cat# [TP300348]). The protein was produced from HEK293T cells transfected with RBX1 cDNA clone (Cat# RC200348) using MegaTran 2.0 (Cat# [TT210002]).