Product datasheet for RC200348L4

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ROC1 (RBX1) (NM_014248) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ROC1 (RBX1) (NM_014248) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	ROC1
Synonyms:	BA554C12.1; RNF75; ROC1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200348).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:

```
        Sgf I              ORF              Mlu I
--- GCG ATC GCC  ATG --- // --- NNŇ  ACG CGT ---
```

```
                                                    Kozak
                                                  Consensus
        EcoR I           BamH I        RBS          Sgf I              ORF
CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C  ATG --- --- ---

                                 Mlu I          Not I   Xho I        mGFP Tag
--- --- --- --- --- --- NNŇ  ACG CGT  ACG CGG CCG CTC GAG  ATG AGC GGG GGC --- --- --- ---
                                      T   R   T   R   P   L   E   M   S   G   G   -   -   -   -

--- --- GGA CTC AGA GTT TGG GTA GGA AGC
  -   -   G   L   R   V
```

* The last codon before the Stop codon of the ORF.

|	
ACCN:	NM_014248
ORF Size:	324 bp

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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.
RefSeq:	NM_014248.2
RefSeq Size:	906 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
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:
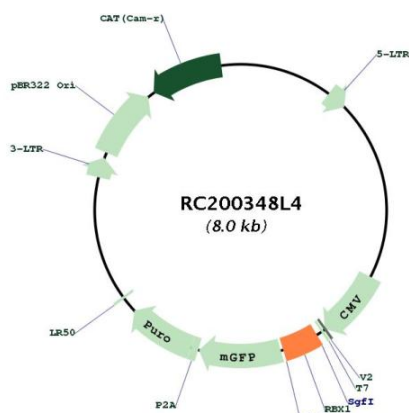
Circular map for RC200348L4
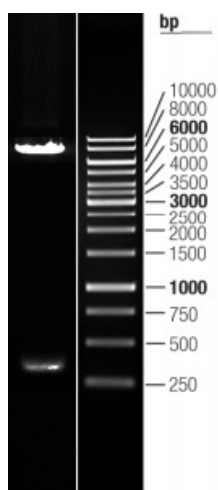
Double digestion of RC200348L4 using SgfI and MluI