

## Product datasheet for **RC232249**

### **RHNO1 (NM\_001257098) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RHNO1 (NM\_001257098) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RHNO1  
**Synonyms:** C12orf32; HKMT1188; RHINO  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC232249 representing NM\_001257098.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCTCCAGAAAAACGCCGCCAGCCTTCCCAGAAAGCCCCGCTGCTGTTCCACCAACAACCACTG
GAGGGCCCAACACAGCTGTGCATCTACACAGCTTCCATCACTCACACTCGACAGGTGCCAGCAAG
CCCATTGACCACAGCACCATCACTTCTGGGTATCACCTGATTTTGATACAGCAGCAGGAAGCTTGTTCC
CCAGCCTACCAGAAACACCAAAACCGGGCGAGACTCAAGTCGAAAACCTACCACCTCCAAGTTTCCA
CATCTAACTTTGAGAGTCCGCAATCTCCAGTTCAGAGACATTGGGGATCCCCTTAATCCGAGAGTGC
CCCAGTGAATCAGAAAAGGATGTTTCCAGAAGACCCTTAGTTCAGTGCTCAGTCCCAAAGCTGTGGG
AACATGTCAGTGCAGGCACTTACAGCTTACCTTATGTGTTTCCACCTGATATCCAGACCCAGAG
TCATCATCTGTGAAGGAAGAACTCATTCCCAAGATCAGAAGGAAAACAGCCTTCTAAGTGCACCTT
CACACTGGCACTCCTAATAGCCCAGAGCCTGGACCTGTTCTGGTTAAAGACACCCCGAGGACAAGTAT
GGAATAAAGGTACATGGAGGAGACGACAGCACCTGCTTGCTTACCTCAGGGAGAGAGGGAAGCTGAGC
AGAAGCCAATTCCTTGTGAAAAGC
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Protein Sequence:** >Peptide sequence encoded by RC232249  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MPPRKKRRQPSQKAPLLFHQQPLEGPKHSCASTQLPITHTRQVPSKPIDHSTITSWVSPDFDTAAGSLF
PAYQKHQNRARHSSRKPTTSKFPHLTFESPOSSSETLGIPLIRECPSESEKDVSRRLVPVLSPOQSCG
NMSVQALQSLPYVFIIPDIQTPSSSVKEELIPDQKENSLLSCTLHTGTPNSPEPGPVLVKDTPEDKY
GIKVTWRRRQHLLAYLRERGLRSQFLVKS
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

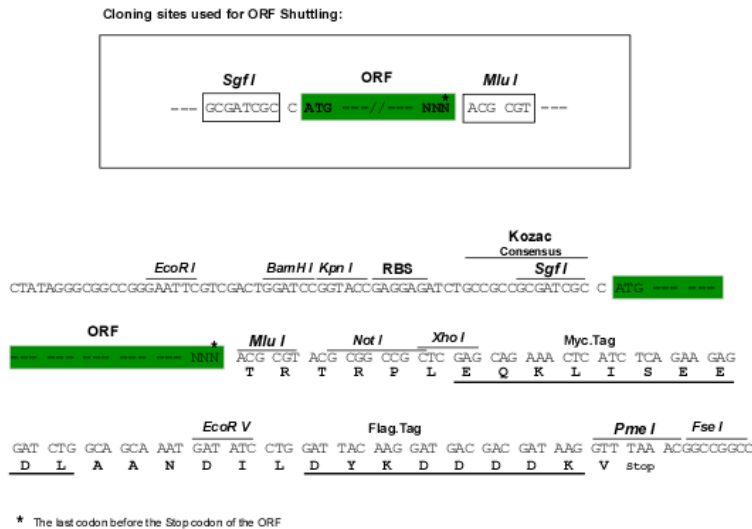


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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6411\\_b06.zip](https://cdn.origene.com/chromatograms/mk6411_b06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001257098

**ORF Size:** 714 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 Size:** 1982 bp

**RefSeq ORF:** 717 bp

**Locus ID:** 83695

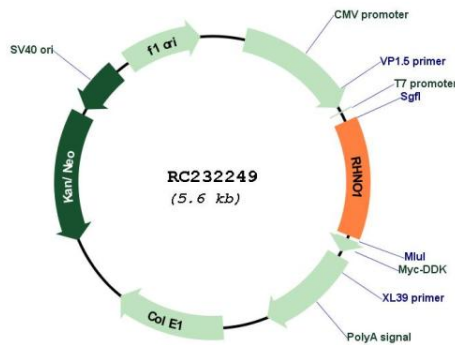
**UniProt ID:** [Q9BSD3](#)

**Cytogenetics:** 12p13.33

**MW:** 26.7 kDa

**Gene Summary:** Plays a role in DNA damage response (DDR) signaling upon genotoxic stresses such as ionizing radiation (IR) during the S phase. Recruited to sites of DNA damage through interaction with the 9-1-1 cell-cycle checkpoint response complex and TOPBP1 in a ATR-dependent manner. Required for the progression of the G1 to S phase transition. Plays a role in the stimulation of CHEK1 phosphorylation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC232249