

Product datasheet for **RC232248**

RHNO1 (NM_001257097) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RHNO1 (NM_001257097) 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: >RC232248 representing NM_001257097.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCTCCAGAAAAACGCCGCCAGCCTTCCCAGAAAGCCCCGCTGCTGTTCCACCAACAACCACTG
GAGGGCCCAACACAGCTGTGCATCTACACAGCTTCCATCACTCACACTCGACAGGTGCCAGCAAG
CCCATTGACCACAGCACCATCACTTCTGGGTATCACCTGATTTTGATACAGCAGCAGGAAGCTTGTTCC
CCAGCCTACCAGAAACACCAAAACCGGGCGAGACTCAAGTCGAAAACCTACCACCTCCAAGTTTCCA
CATCTAACTTTGAGAGTCCGCAATCTTCCAGTTCAGAGACATTGGGGATCCCCTAATCCGAGAGTGC
CCCAGTGAATCAGAAAAGGATGTTTCCAGAAGACCCTTAGTTCAGTGCTCAGTCCCAAAGCTGTGGG
AACATGTCAGTGCAGGCACTTACAGACTTACCTTATGTGTTTCCACCTGATATCCAGACCCAGAG
TCATCATCTGTGAAGGAAGAACTCATTCCCAAGATCAGAAGGAAAACAGCCTTCTAAGTGCACCTT
CACACTGGCACTCCTAATAGCCCAGAGCCTGGACCTGTTCTGGTTAAAGACACCCCGAGGACAAGTAT
GGAATAAAGGTACATGGAGGAGACGACAGCACCTGCTTGCTTACCTCAGGGAGAGAGGGAAGCTGAGC
AGAAGCCAATTCCTTGTGAAAAGC
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Protein Sequence: >Peptide sequence encoded by RC232248
Blue=ORF Red=Cloning site Green=Tag(s)

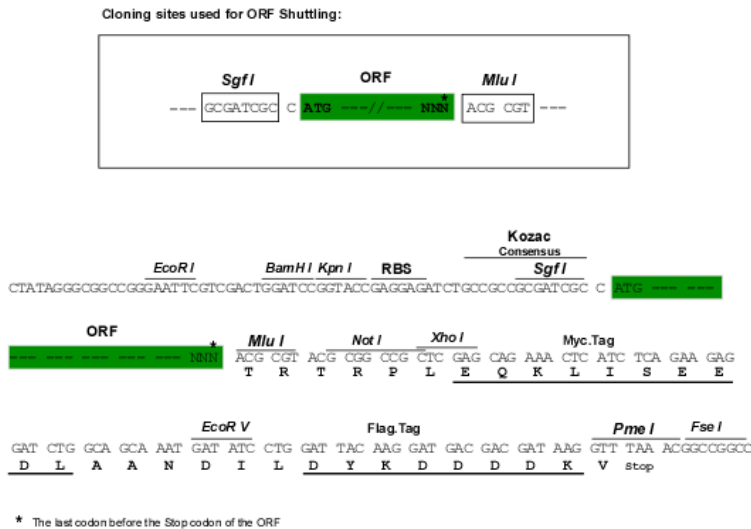
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MPPRKKRRQPSQKAPLLFHQQPLEGPKHSCASTQLPITHTRQVPSKPIDHSTITSWVSPDFDTAAGSLF
PAYQKHQNRARHSSRKPTTSKPHLTFESPOSSSETLGIPLIRECPSESEKDVSRRLVPVLSQSCG
NMSVQALQSLPYVFIIPDIQTPSSSVKEELIPDQKENSLLSCTLHTGTPNSPEPGPVLVKDTPEDKY
GIKVTWRRRQHLLAYLRERGLRSQFLVKS
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```



Chromatograms: https://cdn.origene.com/chromatograms/mk6411_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001257097

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: 2083 bp

RefSeq ORF: 717 bp

Locus ID: 83695

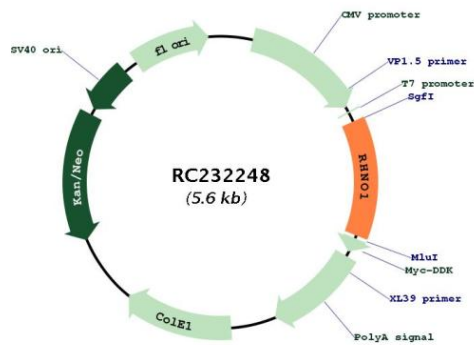
UniProt ID: [Q9BSD3](#)

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 RC232248