

Product datasheet for **RG232249**

RHNO1 (NM_001257098) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RHNO1 (NM_001257098) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RHNO1
Synonyms: C12orf32; HKMT1188; RHINO
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232249 representing NM_001257098
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCCAGAAAAAACGCCGCCAGCCTTCCCAGAAAGCCCCGCTGCTGTTCCACCAACAACCACTGG
AGGGCCCCAACACAGCTGTGCATCTACACAGCTTCCATCACTCACACTCGACAGGTGCCAGCAAGCC
CATTGACCACAGCACCATCACTTCTGGGTATCACCTGATTTTGATACAGCAGCAGGAAGCTTGTCCCA
GCCTACCAGAAACACAAAACCGGGCGAGACACTCAAGTCGAAAACCTACCACCTCCAAGTTTCCACATC
TAACTTTTGAGAGTCCGCAATCTCCAGTTCAGAGACATTGGGGATCCCCTTAATCCGAGAGTGCCCCAG
TGAATCAGAAAAGGATGTTTCCAGAAGACCCTTAGTTCAGTGCTCAGTCCCAAAGCTGTGGGAACATG
TCAGTGCAGGCACCTTCAGAGCTTACCTTATGTGTTCACTCCACCTGATATCCAGACCCCAGAGTCATCGT
CTGTGAAGGAAGAACTCATTCCCAAGATCAGAAGGAAAACAGCCTTCTAAGCTGCACTCTTCACACTGG
CACTCCTAATAGCCCAGAGCCTGGACCTGTTCTGGTTAAAGACACCCCGAGGACAAGTATGGAATAAAG
GTCACATGGAGGAGACGACAGCACCTGCTTGCTTACCTCAGGGAGAGGGGAAGCTGAGCAGAAGCCAAT
TCCTTGAAAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232249 representing NM_001257098
Red=Cloning site Green=Tags(s)

MPPRKKRRQPSQKAPLLFHQQPLEGPKHSCASTQLPITHTRQVPSKPIDHSTITSWVSPDFDTAAGSLFP
 AYQKHQNRARHSSRKPTTSKFPHLTFESPQSSSSETLGIPLIRECPSESEKDVSRRLVPVLSPOSCGNM
 SVQALQSLPYVFIPPDIQTPSSSVKEELIPDQDKENSLLSCTLHTGTPNSPEPGVPLVKDTPEDKYGIK
 VTWRRRQHLLLAYLRERGLRSRSQFLVKS

TRTRPLE - GFP Tag - V

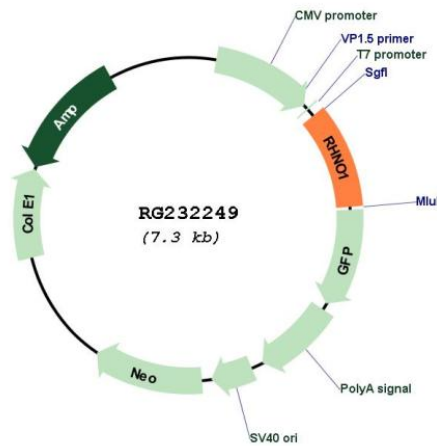
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none">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_001257098.2
RefSeq Size:	1982 bp
RefSeq ORF:	717 bp
Locus ID:	83695
UniProt ID:	Q9BSD3
Cytogenetics:	12p13.33
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]