

Product datasheet for **RC232195**

RHNO1 (NM_001252500) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RHNO1 (NM_001252500) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RHNO1
Synonyms: C12orf32; HKMT1188; RHINO
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232195 representing NM_001252500
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCTCCAGAAAAACGCCGCCAGCCTTCCAGAAAGCCCGCTGCTGTTCCACCAACAACCACTGG
AGGGCCCCAACACAGCTGTGCATCTACACAGCTTCCCATCACTCACACTCGACAGGTATCACTGATTT
TGATACAGCAGCAGGAAGCTTGTCCAGCCTACCAGAAACACAAAACCGGGCGAGACTCAAGTCGA
AAACCTACCACCTCCAAGTTCCACATCTAACTTTGAGAGTCCGCAATCTTCCAGTTCCAGAGACATTGG
GGATCCCCTTAATCCGAGAGTGCCCGAGTGAATCAGAAAAGGATGTTCCAGAAGACCCCTTAGTTCCAGT
GCTCAGTCCCCAAAGCTGTGGGAACATGTCAGTGCAGGCCTTCCAGAGCTTACCTTATGTGTTTATTCCA
CCTGATATCCAGACCCAGAGTCATCGTCTGTGAAGGAAGAACTATTCCCAAGATCAGAAGGAAAAACA
GCCTTCTAAGCTGCACTTTCACACTGGCACTCCTAATAGCCCAGAGCCTGGACCTGTTCTGGTTAAAGA
CACCCCGAGGACAAGTATGGAATAAAGGTCACATGGAGGAGACGACAGCACCTGCTTACCTCAGG
GAGAGAGGGAAGCTGAGCAGAAGCCAATTCCTTGTAAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232195 representing NM_001252500
Red=Cloning site Green=Tags(s)

MPPRKKRRQPSQKAPLLFHQQPLEGPKHSCASTQLPITHTRQVSPDFDTAAGSLFPAYQKHQNRARHSSR
 KPTTSKFPHLTFESPQSSSETLGIPLIRECPSESEKDVSRRLVPVLSQSCGNMSVQALQSLPYVFI
 PDIQTPESSSVKEELIPDQDKENSLLSCTLHTGTPNSPEPGPVLVKDTPEDKYGIKVTWRRRQHL LAYLR
 ERGKLSRSQFLVKS

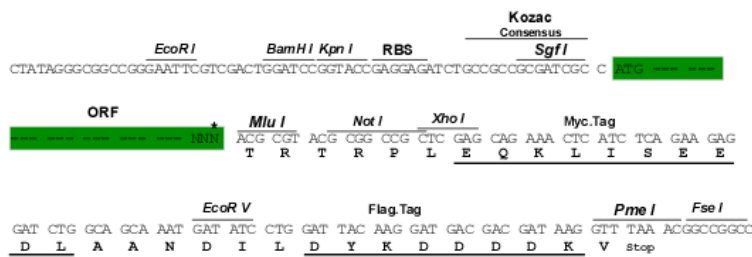
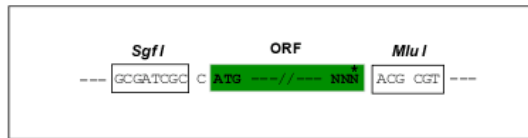
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

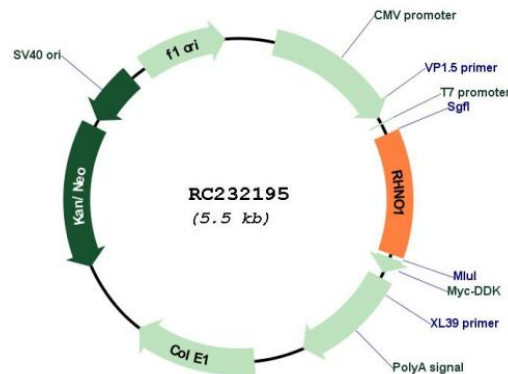
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001252500

ORF Size: 672 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_001252500.3
RefSeq Size:	1920 bp
RefSeq ORF:	675 bp
Locus ID:	83695
UniProt ID:	Q9BSD3
Cytogenetics:	12p13.33
MW:	25.6 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]