

## Product datasheet for **RG232195**

### **RHNO1 (NM\_001252500) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RHNO1 (NM_001252500) 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:	>RG232195 representing NM_001252500 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTCCAGAAAAAACGCCGCCAGCCTTCCCAGAAAGCCCCGCTGCTGTTCCACCAACAACCACTGG  
AGGGCCCCAAACACAGCTGTGCATCTACACAGCTTCCCATCACTCACACTCGACAGGTATCACCTGATTT  
TGATACAGCAGCAGGAAGCTTGTCCCAGCCTACCAGAAACCCAAAACCGGGCGAGACTCAAGTCGA  
AAACCTACCACCTCCAAGTTTCCACATCTAACTTTGAGAGTCCGCAATCTTCCAGTTCAGAGACATTGG  
GGATCCCCTTAATCCGAGAGTGCCCCAGTGAATCAGAAAAGGATGTTTCCAGAAGACCCTTAGTTCAGT  
GCTCAGTCCCCAAGCTGTGGGAACATGTCAGTGCAGGCACTTCAGAGCTTACCTTATGTGTTTCATTCCA  
CCTGATATCCAGACCCCAGATCATCGTCTGTGAAGGAAGAACTATTCCCAAGATCAGAAGGAAAACA  
GCCTTCTAAGCTGCACTTTCACACTGGCACTCCTAATAGCCCAGAGCCTGGACCTGTTCTGGTTAAAGA  
CACCCCAGGACAAGTATGGAATAAAGGTCACATGGAGGAGACGACAGCACCTGCTTACCTCAGG  
GAGAGAGGGAAGCTGAGCAGAAGCCAATTCCTTGTAAGGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232195 representing NM\_001252500  
Red=Cloning site Green=Tags(s)

MPPRKKRRQPSQKAPLLFHQQPLEGPKHSCASTQLPITHTRQVSPDFDTAAGSLFPAYQKHQNRARHSSR  
 KPTTSKFPHLTFESPQSSSETLGIPLIRECPSESEKDVSRRLVPVLSQSCGNMSVQALQSLPYVFI  
 PDIQTPESSSVKEELIPDQKENSLLSCTLHTGTPNSPEPGPVLVKDTPEDKYGIKVTWRRRQHLLAYLR  
 ERGKLSRSQFLVKS

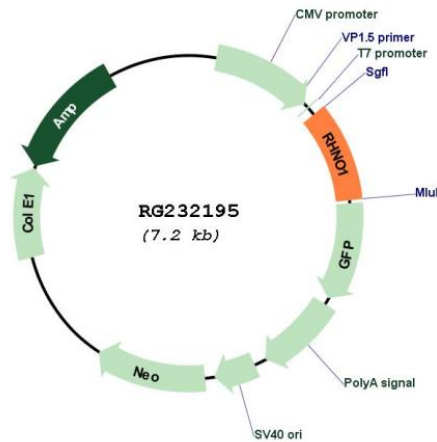
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001252500

**ORF Size:** 672 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001252500.3</a>
<b>RefSeq Size:</b>	1920 bp
<b>RefSeq ORF:</b>	675 bp
<b>Locus ID:</b>	83695
<b>UniProt ID:</b>	<a href="#">Q9BSD3</a>
<b>Cytogenetics:</b>	12p13.33
<b>Gene Summary:</b>	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]