

Product datasheet for **RG203020**

C12orf32 (NM_031465) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C12orf32 (NM_031465) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C12orf32
Synonyms:	chromosome 12 open reading frame 32; HKMT1188; HKMT1188, MGC13204; MGC13204
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203020 representing NM_031465 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCCAGAAAAAACGCCGCCAGCCTTCCCAGAAAGCCCCGCTGCTGTTCCACCAACAACCACTGG
AGGGCCCCAACACAGCTGTGCATCTACACAGCTTCCATCACTCACACTCGACAGGTGCCAGCAAGCC
CATTGACCACAGCACCATCACTTCTGGGTATCACCTGATTTTGATACAGCAGCAGGAAGCTTGTCCCA
GCCTACCAGAAACACAAAACCGGGCGAGACACTCAAGTCGAAAACCTACCACCTCAAGTTTCCACATC
TAACCTTTGAGAGTCCGCAATCTCCAGTTCAGAGACATTGGGGATCCCCTTAATCCGAGAGTGCCCCAG
TGAATCAGAAAAGGATGTTTCCAGAAGACCCTTAGTTCAGTGCTCAGTCCCAAAGCTGTGGGAACATG
TCAGTGCAGGCACCTTCAGAGCTTACCTTATGTGTTTCATTCCACCTGATATCCAGACCCCAGAGTCATCAT
CTGTGAAGGAAGAACTATTCCCAAGATCAGAAGGAAAACAGCCTTCTAAGCTGCACTCTTCACTGG
CACTCCTAATAGCCCAGAGCCTGGACCTGTTCTGGTTAAAGACACCCCGAGGACAAGTATGGAATAAAG
GTCACATGGAGGAGACGACAGCACCTGCTTGCTTACCTCAGGGAGAGGGAAGCTGAGCAGAAGCCAAT
TCCTTGAAAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203020 representing NM_031465
 Red=Cloning site Green=Tags(s)

MPPRKKRRQPSQKAPLLFHQQPLEGPKHSCASTQLPITHTRQVPSKPIDHSTITSWVSPDFDTAAGSLFP
 AYQKHQNRARHSSRKPTTSKFPHLTFESPQSSSSETLGIPLIRECPSESEKDVSRRLVPVLSPOQSCGNM
 SVQALQSLPYVFIPPDIQTPESSSVKEELIPQDQKENSLLSCTLHTGTPNSPEPGVPLVKDTPEDKYGIK
 VTWRRRQHLLAYLRERGLSRSQFLVKS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031465

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: [NM_031465.2](#), [NP_113653.1](#)

RefSeq Size: 1872 bp

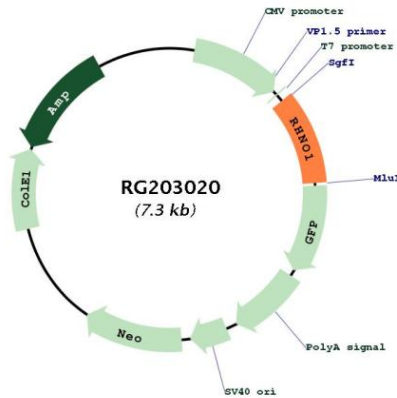
RefSeq ORF: 716 bp

Locus ID: 83695

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]

Product images:



Circular map for RG203020