

Product datasheet for **SC108000**

C12orf32 (NM_031465) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C12orf32 (NM_031465) Human Untagged Clone
Tag:	Tag Free
Symbol:	C12orf32
Synonyms:	chromosome 12 open reading frame 32; HKMT1188; HKMT1188, MGC13204; MGC13204
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108000 sequence for NM_031465 edited (data generated by NextGen Sequencing)

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ATGCCTCCAGAAAAACGCCGCCAGCCTTCCAGAAAGCCCCGCTGCTGTTCCACCAA  
CAACCACTGGAGGGCCCCAACACAGCTGTGCATCTACACAGCTTCCCATCACTCACA  
CGACAGGTGCCAGCAAGCCATTGACCACAGCACCATCACTTCTGGGTATCACCTGAT  
TTTGATACAGCAGCAGGAAGCTTGTCCAGCCTACCAGAAACACAAAACCGGGCGAGA  
CACTCAAGTCGAAAACCTACCACCTCCAAGTTCCACATCTAACTTTTGAGAGTCCGCAA  
TCTTCCAGTTCAGAGACATTGGGGATCCCCTTAATCCGAGAGTGCCCCAGTGAATCAGAA  
AAGGATGTTTCCAGAAGACCTTAGTTCAGTGCTCAGTCCCCAAAGCTGTGGGAACATG  
TCAGTGCAGGCACTTCAGAGCTTACCTTATGTGTTTATTCCACCTGATATCCAGACCCCA  
GAGTCATCATCTGTGAAGGAAGAACTCATTCCCCAAGATCAGAAGGAAAACAGCCTTCTA  
AGCTGCACTCTTCACTGGCACTCCTAATAGCCAGAGCCTGGACCTGTTCTGGTTAAA  
GACACCCCGAGGACAAGTATGGAATAAAGGTCACATGGAGGAGACGACAGCACCTGCTT  
GCTTACCTCAGGGAGAGAGGGAAGCTGAGCAGAAGCCAATTCCTTGTGAAAAGCTGA
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Clone variation with respect to NM_031465.2
489 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_031465 unedited</p> <pre> GAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTCCTCATT ACCGGTTGATGCCTCCCAAAAAAAAAACGCCAGCCTTCCCAGAAAGCCCCGCTGCTGT TCCACCAACAACCACTGGAGGGCCCCAACACAGCTGTGCATCTACACAGCTTCCCATCA CTCACACTCGACAGGTGCCAGCAAGCCATTGACCACAGCACCATCACTTCCTGGGTAT CACCTGATTTTGATACAGCAGCAGGAAGCTTGTCCCAGCCTACCAGAAACACAAAACC GGGCGAGACACTCAAGTCGAAAACCTACCACCTCAAGTTCCACATCTAACTTTTGAGA GTCCGCAATCTTCCAGTTCAGAGACATTGGGGATCCCCTTAATCCGAGAGTGCCCCAGTG AATCAGAAAAGGATGTTTCCAGAAGACCCTTAGTTCCAGTGCTCAGTCCCCAAAGCTGTG GGAACATGTCAGTGCAGGCACTTCAGAGCTTACCTTATGTGTTTCCACCTGATATCC AGACCCAGAGTCATCATCTGTGAAGGAAGAACTATTCCCCAAGATCAGAAGGAAAAACA GCCTTCTAAGCTGCACTTTCACACTGGCACTCCTAATAGCCCAGAGCCTGNACCTGTTT TGGTTAAAGACACCCCGAGGACAAGTATGGAATAAAGGTCACATGGAGGAGACGACAGC ACCTGCTTGCTTACCTCAGGAGAGAGGGAAGCTGAGCAGAAGCCAATTCCTTGAAAA GCTGACTGCCATCAGTAATCTCATAGAAAAGAGATATGTTTTCTGGAGTCTANAGGAAATC ATCCTAGGGTTTTGGTTTTGTTTT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_031465 unedited</p> <pre> TTTGGACGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGACTGGGGGAAGT CCTTCTGCATTAATTACAATAAGTAATACTCATTGAAAACCTTTCCTTATTTACACACAGT TGAACAGTTATTCTAAGAAACCATTTTCCCACCCTATTTAATATTGACAGATTTCTTCAG TTAGAAAACAAAACCTCAAACACACGCAATCCTAAAGAACTCATCTATGTCCCCCTTATC TCCCCTCATCTTATGTAGTCCCTAAAACAGGGCTTGCTGCCCTTCTTCTTCTTGCCCTT TCAGCAGATGAGTCAAGTTGCAGAGGTGGCAGTCAACCATAGAGTCACAGAGTTTGATT TTTTTCCATCCATCAGGTCGTAGAAGCTGCCACTGAGCCTGACAAGAGTTGGTACTCAAA AATGCAGAATGAATAGTTTGAATGAGGTGATTAAGGATTAATGAGTAGTGGTTAAGGAA ACAAAGACCATTAGTGGATGGGGTAATATTGCTGTATTACTGATGGAAGCAGGATTCTCT AAAAAACTTTCTGCAGCCATTTACTTACATAACATTTTAAAGAGTTACTACAAGATTTT TAAAAATTTAAACAGTTAATAACAAGAAAAATATGAAGTGAATAGTTCATGACACTAACT GAAGTGTTCATGACACAAAGTATCTTAGAAAACAAATCTCGGCTGGGCCAGCACTTTGTG AGGTCAAGGCCAGCAGATGACTTGAGGTCAGGATTTTGAGACCAGCCTGGCCAACATGGA GAAACACATCTCTACTAAAATACAAAAAATANCCAGCATGTTGGCTGGGCCTGTATCCAG CTCTGGGAGGCTGAGCAGAGAATCGCTGACCAGAAGTGGTGGTGCATAGGTGGATCATC CATGCCTCAGCTGGCACAGAGCATTTCTCTAAACAAACAAACCTAGATGATTC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_031465
Insert Size:	1830 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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: 717 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]