

## Product datasheet for **SC111530**

### ZNF420 (NM\_144689) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF420 (NM_144689) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZNF420
Synonyms:	APAK
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_144689, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCGGAAATTAGTGATGTTTCAGGGATGTTGCCATTGACTTCTCTCAGGAAGAGTGGGAATGCCTGG
ACTCTGCTCAGAGAGATTTGTATAGAGATGTGATGTTGGAGAACTATAGCAACTTGGTATCACTAGACTT
GCCTTCAAGGTGTGCAAGTAAGGACTTATCTCCAGAAAAGAACACTTATGAAACAGAATTATCCCAATGG
GAAATGAGTGACAGACTTGAAAACCTGTGATCTTGAAGAGTCCAATTCCAGGGATTATTTGGAAGCCAAAG
GCAAGATGGAGAAGCAACAAGAAAATCAGAAGGAATATTTCAAGCAAGGGATGATCATATATGACAAAAT
GTCCATTTTCAACCAGCATACTTACTTATCTCAACATTCAAGATGTCATTCTACTGAGAAAACCTATAAA
TGTAAGGAATGTGGGAAAGCCTTCAGACGAGCCTCACACCTAACACAACATCAAAGTATTCATACTGGT
AAAAACCTATGAATGTAAGCAATGCGGGAAGGCCTTTAGTCGTGATTCACAACTCAGTCTTCATCAGAG
ACTTCATACTGGTGAGAAAACCTATGCATGTAAGGAATGTGGGAAAGGCCTTTACTCAAAGCTCACAACCT
ATTTTACATCATAGAATTCATACTGGTGAAAAACCATATAAATGTGAAGAATGTGGGAAAGCCTTTATTC
GTAGCTCACAACCTACCCGACATCAAAAAGTTCATACTGGTGAGAAAACCTTATGAATGTAAGAATGTGG
GAAGGCCTTTACTCAGAATTCACAACCTACACTACACCAGAGACTTCATACTGGTGAAAAGCTCTATGAA
TGTAAGAATGTAGGAAGGTCTTTACTCAGCTCTCACAACCTATTCTGCATAAGAGAATTCATACCGGTG
AGAAAACCTATGAATGTAAGGAATGTGGAAAAGCCTTTATTTGTGGCTCAGACTTTCTCAACATCAGAA
AATTCATAATGGGAAAAACCATATGAATGTAAGGAATGTGGAAGGGCCTTTATTCGGGGCTCACTACTG
ATGCAACATCAGAGGATTCATACTGGTGAAAAACCTATAAATGTGAAGAATGTGGGAAAGGCCTTTATCC
GTGGCTCACAACCTACTCAACACCAGAGAATTCACACCAATGAAAAGCCCTATGAATGTAAGGAATGTGG
AAAGATGTTTAGTCATGGCTCACAACCTACTCAACATCAGAGAATACACACTGGTGAGAAAACCTATCAA
TGTAAGGAATGTGGAAAAGCCTTTAATCGTGGCTCACTCCTTACACGACACCAGAGGATTCATACTGGTG
AGAAAACCTATGAATGTAAGAATGTGGAAAACCTTTAGTCGTGGCTCAGAACCTACTCAACATGAGCG
AATTCACACAGGTGAGAAAACCTATGAATGTAAGGAATGTGGGAAATCTTTTATTCGTGGTCCAGCTT
ACTCAACATCAGAGAATCCATACTGGTGAGAAAACCTTATGAATGTAAGAATGTAGAATGGCCTTTACTC
AGAGTTCACATCTTTCCCAACATCAAAGACTTCACACTGGTGAGAAAACCTATGTGTGAATGAATGTGG
AAAGGCCTTTGCGCGTGGCTTACTACTTATACAACATCAGAGAATTCATACTGGTGAGAAAACCATATCAA
TGTAAGGAATGTGGGAAAGCCTTTATTCGTGGTTCACAGTTGACTCAACATCAGCGAATTCACACTGGAG
AAAAACCTATGAATGCAAGGAGTGTGGCAAGGCCTTTAGTCATGGCTCTCAGCTTACTCTACATCAGAG
AATCCATACTGGTGAGAAAGCCTATGAATGCAGAGAATGTAGAAAAGCCTTTACTCAGAGTTCACATCTT
TCTCGGCATCAGAGAATTCATACTGGTGAGAAAACCATATCAATGTAAGGAATGTGGGAAAGCCTTTACTC
GTGGTTACAGCTAACTCAACATCAGAGAATTCATATCAGTGAGAAATCTTTTGAATATAAGGAATGTGG
GATTGACTTTAGTCATGGCTCACAAGTTTACATGTGA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_144689 unedited  
 CCGCCGCGAAATTCGCACGAGGCTTGGCTCCGCACCTGCTGGGCTGGCGAACCCGAATTG  
 GGCTTGGAAACCCGGGAGCCAGATCTTGGACCCTGAACTGCACCTCTGTCAAGCTCTGCAT  
 TCTCCAGACTCTGTGCTTTCCTAAGATAGGAACCCAGAAGAGGACTGATCATTTCTTGCA  
 GCTCTAAAAACCATGGCTCGGAAATTAGTGATGTTCAAGGATGTTGCCATTGACTTCTCT  
 CAGGAAGAGTGGGAATGCCTGGACTCTGCTCAGAGAGATTTGTATAGAGATGTGATGTTG  
 GAGAAGCTATAGCAACTTGGTATCACTAGACTTGCCTTCAAGGTGTGCAAGTAAGGACTTA  
 TCTCCAGAAAAGAACACTTATGAAACAGAATTATCCCAATGGGAAATGAGTGACAGACTT  
 GAAAAGTGTGATCTTGAAGAGTCCAATTCCAGGGATTATTTGGAAGCCAAAGCAAGATG  
 GAGAAGCAACAAGAAAATCAGAAGGAATATTTCAAGCAAGGGATGATCATATATGACAAA  
 ATGTCCATTTTCAACCAGCATACTTACTTATCTCAACATTCAAGATGTCATTCTACTGAG  
 AAACCCTATAATGTAGGGAATGTGGGAAAGCCTTCAGACGAGCCTCACACCTAACACAAC  
 ATCAAAGTATTCATACTGGTAAAAACCCTATGAATGTAAGCATGCGGGAAGGCCTTTAG  
 TCGTGATACANAACCTCAGTCTCATAAAACCTACTGGTGAACCTNTGCATGTAAGG  
 ATGGGGGGGAGGGCCTTACTCAAAGCTACACTTATTTTACTCATAGAATNCTACTGGGGG  
 AAAACTTATAATGTGAAGAAATGGGGGAAAGCCTTTTTTTCGTAGCTACAACCTACCGCTTT  
 CAAAGTCTTCCGGGGGAGAACCTA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_144689 unedited  
 ACTATGAACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCA  
 TCAACAAATAAGATGTTTAAATTTATTTAAAGAGAAAACAGGAGGCAAGCAGACCAGAGCT  
 AGTATGGCTGTTCCACAAAGTCATCAGGGTTGCAGACTCCTTCTGTATTTCTGCTCCATG  
 ATCCATAACACCCAGATACCATTCTCAAAGTCCCATGAGAGTAACGGAGCTCCAGCTTA  
 GATGTCCACATTGTAGGCACGGAAGAAAAAGACAGGAAAAATGGATTTTCGTAATCTCCTA  
 CTCATATAAAATCACTTCTATCTTGTGACCTGCAAGGAAGGCTGAGATTTTCAGCCCA  
 GAAATTTGTTACTAAAAAGAGAAAAATAGATATAGGGTAGGAAAAAGCAGTCTGTATCA  
 CAAACTCTCATCATTTTTTATTGCAAAATAGTCTGTAATATCAGTTATTTTGTACTTTC  
 AAAAGCAATACATTCAAGTTTTTAAAAAATTCCTAGATTTATTAGACTTTGGATCTTAGA  
 CTTTCGTTAAAAATCACTTCACACCTTGTCCACTTCTCTAACAGCTGTGCTCAATAATAC  
 ACTGATTACATCCACTGGGTTTTTTTTTTTTTAAATAACTACTGATTATATCCACTGGGT  
 TTTTTTTTTTTTTTACAGTATGAATTTTCTCTTATAGCATAATGGATGAGATTTAAATGA  
 CAGCTTCTCACATTCATTATTGCATACAGTGCCCCCAACAAGTCATCTTGGATGTGT  
 TGTAAAAGATTTCTCAATATTCAATATACTATAAAGTCTCCTCCCTCATGCAATCTCTA  
 AAAAACCTGTGAAAATGGGGCTAAATTTGTGGATGCTCGTTCAGGCCCATTAAGACTT  
 TACTGGAAAACCTATAAACTTCAGAACTACATAAGTAATACTTAGTCTTCTAAAAGATA  
 A

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_144689

**Insert Size:**

4700 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_144689.3](#), [NP\\_653290.2](#)

**RefSeq Size:** 2990 bp

**RefSeq ORF:** 2067 bp

**Locus ID:** 147923

**UniProt ID:** [Q8TAQ5](#)

**Cytogenetics:** 19q13.12

**Domains:** KRAB, zf-C2H2

**Protein Families:** Transcription Factors

**Gene Summary:** The protein encoded by this gene is a KRAB-type zinc finger protein that negatively-regulates p53-mediated apoptosis. Under stress conditions, the encoded protein is phosphorylated by ATM and dissociates from p53, which activates p53 and initiates apoptosis. [provided by RefSeq, Jul 2016]