

Product datasheet for **SC316861**

FNIP2 (NM_020840) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FNIP2 (NM_020840) Human Untagged Clone
Tag:	Tag Free
Symbol:	FNIP2
Synonyms:	FNIP1; MAPO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316861 representing NM_020840. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGGCCCCGACCCTGCTCCAGAAGCTCTTCAACAAAAGGGGAGCAGCGGCAGCTCCGCGCGCGCTCT
GCCCAGGGCAGGGCTCCTAAGGAAGGACCCGCCTTTAGTTGGTCATGTTCCGAGTTTGACCTGAATGAG
ATTCGCCTGATAGTTTACCAGGACTGTGACAGGAGAGGCAGACAAGTCTTGTTGACTCTAAAGCTGT
CAAAAGATTGAGGAGGTGACAGCTCAGAAAACAGAGGATGTTCTATTAAATATCAGCCAAGTGTGC
CAGGGAAGCAGCAGTGTGACGAGCAGTAGCAGCAGCAGCATCTTCCCACAGTTCTTCTGGGGATCT
TCACATCATGCTAAGGAACAGCTTCCAAAGTACCAGTACACAAGACCAGCTTCCGATGTCAACATGTTA
GGGGAATGATGTTTGGCTCAGTTGCCATGAGTTACAAAGGCTCCACCTAAAGATACACTACATACGT
TCTCTCCACAAGTATGATTAGTAAAGCTTCTCTGCTAGAATGGGCAGCTTCTGTGGAAGTACAAAT
AACTTGCAAGACAGCTTTGAGTACATCAACCAAGATCCTAATTTGGGAAAAGTGAACACAAATCAAAAT
AGTTTGGGTCCTTGTCGTAAGTAACTAGCACACAGCACACCAGTTGATATGCCAAGCAGAGGA
CAGAATGAAGACAGGGACAGTGGCATTGCTCGATCAGCCTCACTAAGCAGTCTTTTGATCACACCTTTC
CCATCTCCAAGCTCCTCTACATCTTCTCCAGCAGTTACCAGCGCCGCTGGCTTCGAAGTCAGACAACA
AGTTTGGAAAATGGCATCATCCCAAGAAGTCAACTGATGAGACATTAGCTTGGCTGAAGAAACCTGT
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GAAGAAGCACAAAGGAATTTCCAGGACTTCTTCTTTCTCATTTTCCCCTGTTTGAATCTCACATGAAC
AGGCTGAAGAGTGCAATTGAAAAGGCTATGATCTCCTGTAGGAAAATAGCAGAATCAAGTCTCCGAGTC
CAGTTTTATGTCAGCCGTTTGTGGAAGCTCTGGGAGAATTAGAGGAATATCTGGAAGTATATTCT
GTTCCAAGGATAGCTGAACCTGTATGGCTTACTATGATGTCCGGCACTTTGGAAAAAACAGCTCTGC
CAGCGCTTCTCAAGGAGTTTACACTTCTGATAGAACAGATAAATAAAACCAGTTTTTGTGCTTCTA
CTGACTGCGGTGTTAACCTACCACCTGGCTGGGTCCTCAACTGTCATGCCTGTGGATCACCTCCCATC
AAAGCCTTCTCAGAGAAACGTACCTCCAGTCAGTGAACATGCTGGCCAAAACACATCCGTATAATCCT
CTTTGGGCACAGCTGGGTGATCTTACGGAGCCATAGGCTCTCCAGTGAGACTGACTCGACCGTAGTG



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GTAGGGAAGCAGAAGGACTTAGTCCAGCGAATACTTTATGTCCTGACCTACTTTCTCCGTTGCTCTGAG
CTACAAGAGAACCAGCTGACCTGGAGTGGCAATCATGGTGAAGGTGACCAAGTTTTAAATGGGAGCAAG
ATCATAACAGCCTTGGAGAAAGGAGAGGTGGAGGAGTCTGAGTATGTGGTCATTACGGTGAGGAACGAG
CCCGCTCTTGTACCCCCATCCTACCACCAACAGCAGCAGAGAGACACAACCCCTGGCCGACAGGGTTT
CCTGAGTGCCAGAGGGCACTGACAGTAGAGACCTGGGTCTTAAACCTGACAAAGAAGCTAACAGGAGG
CCAGAGCAGGGTTCTGAGGCTTGACGCGAGGGTGCCTGGGGCCAGCATCAGACGCTTCTTGAAACCT
CAGAATGCATTTTGTGGGGATGAGAAAAATAAGAGGCACCGCAAGATGGCTCTTCAAGACTTCCAGC
TGTGAAGTTTTGGGGCAGGAATGAAGATGGACCAGCAAGCTGTCTGTGAGCTGTTGAAAGTGGAGATG
CCTACAAGACTGCCAGACCGGTCACTGGCCTGGCCTGACAGACATCTCCGGGAGAAACCTTCC
TTAGAAAAGGTCACTTTCCAGATTGGAAGCTTTGCATCTCCAGAGTCTGACTTTGAAAGCCGATGAAA
AAAATGGAGGAACGGGTGAAGGCCTGTGGCCCTCCTTGAGGCCAGTGAGGCTGCTGATGTGGCTCAG
GACCCGACAGTTTCTAGGAGCCCTTTAAACCTGGCTTTCAGGAGAATGTTTGTGTCTCAGAAATCGG
CTTTCAGAGGGGGATGAAGGCGAGTCTGACAAGGGTTTTGCAGAGGACAGAGGCAGCAGAAACGACATG
GCAGCAGATATTGCTGGCAGCTCAGCCACGCTGCTGACTTGGGCACAGCCTCCACGGTGCAGGAGGA
ACGGGAGGGAGGAGGCTGGAGGCCACTAGAGTTTGTATGTGAAGGCTGCGGAAGGACCTGTGCTGGAG
CCTGTTGCCCCAGGTGTGTCCAGCGGGCCCTGGCCTCGTGGCTGGTGCGAATATCCCTGTGGGGAT
GACAACAAGAAGGCCAATTCAAGACTGAAGGAGACATCCCCGAAATGAAAGCTCAGATAGCGCCCTG
GGAGACAGTGACGACGAAGCCTGCGCTTCAGCCATGCTAGATCTGGGTACGGTGGTGACAGGACTGGA
GGGTCTTGAAGTGGAGCTGCCTCTGCCAAGGTCTCAGAGCATCAGCACCAGAATGTAAGGAACCTT
GGCCGCTCACTTCTGGCGGGCTACTGCCCCACATACATGCCTGATCTTGTGCTTCATGGGACCGGCAGT
GATGAGAAGCTGAAGCAGTGCCTGGTGGCCGACCTGTCCACACAGTCCATCATCCAGTCTGGATGAG
CCAATAGCTGAAGCTGTCTGTATTATCGCAGACACGGATAAATGGAGTGTGCAGGTAGCTACAAGTCAG
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CAGTCCATTTTACAGCTCTATAAGCTTACCTCCCTGCTGATTTTGCATCATGCATCTTGAAGATAGA
CTACAGGAGATGTACCTAAAAGTAAAATGCTATCTGAATATCTCCGGGGACACACAGAGTCCATGTG
AAAGAATTAGGTGTCGTACTGGGATTGAATCCAACGACCTGCCTCTGTTGACTGCTATTGCCAGTACT
CATTCTCCTTATGTGGCTCAAATACTCTTA^{TAA}
^{ACGCGT}ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_020840
Insert Size:	3345 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_020840.2](#)

RefSeq Size: 7085 bp

RefSeq ORF: 3345 bp

Locus ID: 57600

UniProt ID: [Q9P278](#)

Cytogenetics: 4q32.1

MW: 122.1 kDa

Gene Summary: This gene encodes a protein that binds to the tumor suppressor folliculin and to AMP-activated protein kinase (AMPK), and may play a role cellular metabolism and nutrient sensing by regulating the AMPK-mechanistic target of rapamycin signaling pathway. The encoded protein may also be involved in regulating the O6-methylguanine-induced apoptosis signaling pathway. This gene has a closely related paralog that encodes a protein with similar binding activities. Both related proteins also associate with the molecular chaperone heat shock protein-90 (Hsp90) and negatively regulate its ATPase activity and facilitate its association with folliculin. [provided by RefSeq, Jul 2017]
 Transcript Variant: This variant (1) encodes the longest isoform (1).