

## Product datasheet for **MC223606**

### Fnip2 (NM\_001162999) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fnip2 (NM\_001162999) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Fnip2  
**Synonyms:** D630023B12Rik; mKIAA1450  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223606 representing NM\_001162999  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGC**C

ATGGCCCCGACCTGCTCCAGAAGCTCTCAACAAAAGGGCGGGCGCAGCGTCTGCCAGGCCCGGC  
 CGCCAAAGGAGGACCGCCTTCAGTTGGTCGTGTTCCGAGTTTGGCTTGAGTGACATCCGCCTGCTAGT  
 TTACCAGGACTGTGAGAGGAGAGGCAGACAAGTCATGTTTACTCCAGAGCCGTTCCAGAAGATGGAAGAG  
 GCAGCAGCTCAGAAAGCAGAGGATGTTCTATTTAAATGTCAGCCAGATGCTGTCAGGAAAGCAGCAGCA  
 GCAGCGGCAGCAGCAGCAGCGGCAGCAGCTCTTCTCATGGCTTTGGAGGATCTTTACAACACGCTAAGCA  
 ACAGCTTCAAAGTACCAATACACGAGACCAGCATCTGATGTCAGCATGCTTGGGGAGATGATGTTTGGC  
 TCAGTTGCAATGAGTTACAAAGGCTCCACCCTGAAGATACACTACATACGATCTCCTCCACAAGTATGA  
 TTAGTAAAGTCTTTCTGCTACAATGGTAGCTTCTGTGGAAGTACAAATAATCTGCAGGACAGCTTCGA  
 ATACATTAACCAAGATCCTCAGGCTGGAAAAGTGAACACAAATCAGTACAATTTGGTCTTTTCGTA  
 GGAAGTAACCTAGCACACAGCACACCTGTTGATATGCCAAGCAGAGGGCAGAATGAAGACAGGGACAGCG  
 GCATTGCTCGATCAGCTTCACTGAGCAGCCTTTTGTATCAGCCCTTCCCGTCTCCAAGCTCTTCTACATC  
 CTCTCCAGCAGTTACCAGCGCCGCTGGCTCCGAAGTCAGACAACGAGTTTGGAAAATGGCATCTTTCCA  
 AGGAGGTCAACTGATGAGACATTTAGCTTGGCCGAAGAAACGTGTAGCTCTAATCCAGCTATGGTTAGAA  
 GGAAGAAGATCGCCATCAGCATCATCTTTCCCTGTGTGAGAGAGAGGGCCGCCAGCGGATTTCCAGGA  
 CTTCTTTTCTCCCACTTCCCTGTTTGAATCTCACATGAACAGGCTGAAGGGTGAATCGAAAAGGCC  
 ATGATCTCCTGTAGGAAGATCTCTGAATCAAGTCTCCGAGTCCAGTCTATGTGAGCCGCTGATGGAAG  
 CACTGGGAGAATTCAGAGGGACTATCTGGAACTTATATTCTGTTCCAAGGATAGCTGAACCAGTTTGGCT  
 TACCATGATGTCAAACACCTTGGAGAAAACCAACTCTGCCAGCGCTTCTCAAGGAATTTATACTTCTG  
 ATTGAACAAGTCAACAAAACAGTTTTTGTGCCTTACTGACTGCGGTGTTAACCTACCACCTGGCCT  
 GGGTACCAACTGTCATGCTGTTGACCACCTCCCATTAAGCCTTCTCGGAGAAGCGTACCTCTCAGTC  
 AGTGAACATGCTGGCCAAAACACATCCATATAATCCTCTCTGGGCGCAGCTGGGTGACCTCTATGGAGCT  
 ATAGGCTCTCCGGTGAGACTGACTCGCACTGTGGTGATTGGGAAGCAGAAGGATTTGGTCCAGCGCATTC



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TTTATGTTCTGACCTACTTTCTCCGTTGCTCTGAACTGCAAGAGAATCAGCTGAGCTGGAGTGGAAATCC
CAGTGAGGATGACCAGGTTATAAATGGGAGCAAGATAATAACCGCCCTGGAAAAGGGAGAGGTGGAAGAG
TCTGAGTATGTGGTAGTTACCGTGAGCAGTGAGCCTGCCCTGGTACCACCAATCCTACCACAGGGGACAG
CTGAGAGGAGGAGCCCTGAGCCTACAGTAGTAGCTGAGATCTCGGAAGGCGTTAATACTAGCGAACTGGG
TCACAAACCTGAAAAGAACAGATGCAAGAGGCCAGAGCAGAATCCGAGGCCAGTAGTATGGGCTTCAA
GAGGCAGAACCTGACAGTTCGTGGATACCTCAAGGCATATTCTGTGAGGACAAACAGAATGACCAAGAGG
CAACCCAGGATTGTTCTTCAAGTCTCCAGCTGTGAGGTGCCAGGGTAAGAAGGAGGATGGACCAACA
AACCCCTCACTCGAAGCTGCATGGGGAGACGCTAAAGAAGCGAGCAGAGCAGTCCGACGCTGGCCCTGC
CCAGACAGGCATTCCCAGGAGGATCCTCCTGTCGAAAAGGTCACCTTCCACATTGGGAGTTCATCTCCC
CGGAGTCTGACTTTGAAAGCCGGACAAAAGAATGGAGGAGCGATTAAAGGCCTGTGGACATTTCCATGG
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TTCCCTTTGTGCCGAGAAAGTGGCGGAGACTGCTGGAACAGACTAGAGATGTGCAATAAAAGGCTAC
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TCCCTATGGGGATGCCAGTGGTAAGGGCAACTACAGGAGCGAAGGAGACATTCCAGGAACGAGAGCTT
GGATAGTGCTCTTGAGACAGTGATGATGAAGCGTGTGCTTAGCCCTGTAGAAGTACAGTCCACGTTGT
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TTAGAAATTTGGCCGCTCACTTCTGGCAGGTTACTGTGCCACGTACATGCCTGATCTGGTGTGCTGATG
AACCAGCAGCGATGAGAAGCTGAAGCAGTGCCTGGCAGCTGATCTGGTCCACACGGTGCACCATCCAGTA
CTCGATGAGCCATAGCCGAAGTGTCTGTATCATTGCAGACTGACAAGTGGACTGTCAGGTGGCCA
CGAGTCAGCGGAAGGTGACGGACACCATGAAGCTGGGCCAGGATGTCTTGGTCTCCAGTCAGGTGCCAG
TTTACTTCAGTCCATCTTACAGCTCTATAAGCTTCACTCCCTGCTGATTTTTGTATCATGCATCTGGAA
GACAGACTGCAGGAGATGTACCTGAAGAGTAAAATGCTTTCAGAGTATCTCCGGGGACACACGCGTGTGC
ACGTGAAAAGAGCTGAGTGTGGTGTGGGATCGAATCCAATGACCTGCCTCTGCTGACGGCCATCGCCAG
CACTCACTCTCCGTACGTGGCACAGATCCTCTTAG
    
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AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM\_001162999
- Insert Size:** 3327 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\\_001162999.2](#), [NP\\_001156471.1](#)

RefSeq Size: 7095 bp

RefSeq ORF: 3327 bp

Locus ID: 329679

UniProt ID: [Q80TD3](#)

Cytogenetics: 3 E3

**Gene Summary:** Acts as a co-chaperone of HSP90AA1. Inhibits the ATPase activity of HSP90AA1 leading to reduction in its chaperone activity. Facilitates the binding of client protein FLCN to HSP90AA1. May be involved in energy and/or nutrient sensing through the AMPK and mTOR signaling pathways. May regulate phosphorylation of RPS6KB1 (By similarity). May play a role in the signal transduction pathway of apoptosis induced by O6-methylguanine-mispaired lesions (PubMed:19137017).[UniProtKB/Swiss-Prot Function]