

## Product datasheet for MC223785

### Fnip1 (NM\_173753) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fnip1 (NM_173753) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fnip1
Synonyms:	A730024A03Rik; AI838773; AW557298
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223785 representing NM_173753 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCACCCTGTTCCAGAAGCTCTTCAGCAAGCGGAGCGGATTAGGCGCGCCGGGACGAGACGCC  
GCGACCCGGACTGCGCGTTCAGTTGGCCCTTGCCAGAATTTGACCCAAGTCAGATTCGACTGATCGTATA  
TCAAGACTGTGAAAGACGAGGGAGAAATGTATTGTTGACTCCAGTGTTAAGAGAAAAATGAGGACACA  
TCAGTATCGAAGCTCTGTAATGATGCTCAAGTCAAGGTCTTTGGGAAGTGCTGCCAGCTGAAGCCAGGAG  
GAGATAGTTCTTCTCTTTGGATAGCTCTATCACTTTATCTTCTGATGAAAAAGACCAGTGTCCAAATA  
CCAGGGTCTCGGTGTTCTTCTGATGCCAATATGCTTGGAGAGATGATGTTGGCTCAGTAGCAATGAGC  
TACAAAGGATCCACCTTAAAAATTCATCAGATCCGCTCGCTCCACAGCTTATGCTTAGCAAAGTTTCA  
CCGCACGGACTGGCAGTAGTATCTGTGGGAGTCTCAACTCTGCAGGACAGTCTTGAATTCATCAATCA  
GGACAGTAATACATTGAAAGCTGATAGCAGCACAGTTAGTAATGGGCTGCTTGGAAATATAGGTCTTTCA  
CAGTTCTGCAGCCCCAGGCGGGCTTTCTCTGAGCAGGGTCCGCTCCGCTGATCAGGAGTGCCTTTCT  
TTGCAGTTCACAGCAACCAATGGACATGCCAGGAAGAGAATGAATGAGGACAGAGACGCGGCATAGC  
ACGTTCTGCATCTCTGAGCAGCTTGTTTCATCACCCATTCCCCTCCCAAACCTTCACTTACCCGAAGC  
TGTGCTAGCAGCTACCAGCGACGTTGGCAGCTAGCCAAACAACAAGTTTGGAAAATGGGTGTTTCCTA  
GATGGTCTGTAGAAGAAAGCTTTAATCTGTGATGAAAGTTGTGGCCCTAATCCAGGAATTGTGAGGAA  
AAAGAAGATTGCAATTGGGGTAATCTTTTCATTATCCAAGATGAAGTAAAAAACAATTCATGAA  
TTCTTTTTTTCACATTTTCTCTCTTTGAAAGCCACATGAACAAATTAAGAGTGAATAGAACAGGCAA  
TGAAAAATGAGCCGGAGATCAGCTGATGCCAGCCAGAGAAGTTGGCATAAATCGAATACTTGATGCCCT  
GACTGAGTTCAGAACAAATTTGTAATCTTTATACAATGCCAAGAATTGGGAACCTGTCTGGCTTACA  
ATGATGTCAGGGACTCCAGAGAAGAACCAGCTTTGCCATCGTTTCATGAAGGAATTCACCTTTCTAATGG  
AAAATGCCTCCAAAAATCAATTCTTGCCAGCTCTCATTACTGCAGTTTTGACCAATCATCTTGCCGGGT  
TCCAACAGTCATGCCAAATGGACAGCCACCTATAAAAAATTTTTAGAAAAACATTCCTCTCAGAGTGTG  
GGCATGTTGGCAAAGACTCATCCATATAACCCTTTTGGGCACAACCTTGAGATTGTATGGCGCTATTG



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GATCTCCTGTACGGTTAGCAAGAACTGTAGTCGTTGGCAAACGACAAGACCTGGTCCAGAGACTGCTTTA  
 TTTTCTTACTTACTTCATCAGATGCTCTGAACTCAAGAAAACCCATCTTTTAGAAAATGGAGAAGATGAA  
 GCCATTGTTATGCCAGGCACAGTGATTACTACCACTTTAGAAAAGGGGAAATAGAGGAATCAGAGTATG  
 TGCTAATCACAATGCATAGAAAACAAAAGCAGCTTGCTCTTTAAAGAGTCAGAAGAGACAAGAACTCCCAA  
 CTGTAAGTGTAAATATTGCAGTCATCCAGTCCTTGGGCAAAATACAGAGAATGTGCACAACCAGAAAGA  
 GAAGATACTCAAGACAACCTAAGGAATTGCTAGGAATTCAGATGAATGCCAAAAGATTTCTCCTCCTG  
 ACTGCCAAGAAGAAAATGCTGTTGATGTTCAACAGTACAGAGATAAATTAAGAATTTGCCTTGACACCAA  
 GTTAGAGACAGTTGTTGTACAGGATCTGCTCCAGCCGACAAATGTGTGTGTCAGAGACATGCTTGGAA  
 CCAAGAGAAGAATCCTGGCAGAATAAGGAATTGCTGGATTCAGATAATCACACAGGCACAGCAATGAGAC  
 CCACAGGAATAGTTGTTGAAAAGAAACCTCCAGATAAGAATGTGCCAGTGCATTTTCTGTGAGGTAAC  
 TCAGACAAAGGTTACGTTCTTGATTGGAGATTCTATGTCACCTGATTGAGATACTGAACTTCGGAGTCAG  
 GCTGTGGTGGATCAGATTAACAGACATCACAGCGAACCCTAAAGGAAGACAGAGGAGTGGCTGATAAGC  
 ATCAAGAAAGTAAAATACTAAGGACCAATCTGAAGACTCTGACACACAGAACATAGTTTCTGGAGATC  
 CTGTGAGCTTCTTGTGGAGTCATTGAGATCCAGAAAGCATGAGCTTGTGTTGATGAATATTTAATGAT  
 GATTCAATTGAAACCAGGACTATTGATGATGTTCCAGTTAAAACAAGTACAGATAGTAAAGAGTATTGCT  
 GTATGTTGGAGTATCCAAAAGATTGTATACAAAACAAACAGAAAAGTAACTTTGTAATGTAT  
 AGAAACAGTTCATCAAGATTCATGTAATGCCTGCTTTCCTCAGCAGGACCAGAGGAATCCCTCCTCATT  
 CTTGTCCCCATGGGGATAAAGAGAGTTTCAGACAAAAAATGCTGTAGGAACTGAATGGGACATCCAA  
 GAAATGAAAGTTCAGATAGTGCCCTTGGAGATAGTGAGAGTGAAGACACAGGCCCGGACATAAGGAGACA  
 AGCTGGCGGTTACTGTGGAGGGGACCAGGAAGACTGGACAGAAGAGGATGAGATACCTTTTCTGGGTCA  
 AAATTGATTGAAGTGAAGTGTGTTTCAGCCCAACATTGCCAATTTGGAAGATCTTGTGGTGGCTACT  
 GCTCATCTTATGTTCTGACTTTGTTCTCAAGGAATTGGAATGATGAGAGGCTCCGTCAGTGCCTGGT  
 ATCAGATTTGTCATGCTGTGCAGCATCCAGTGTAGATGAACCAATAGCAGAAGCTGTGTATTATA  
 GCTGATATGGATAAATGGACTGTTCAAGTGGCCAGCAGTCAGAGACGAGTAACAGATAATAAATTGGGAA  
 AGGAGGTGTTGGTCTCTAGTCTTGTTCACCTGCTTCACTCTTCCAGCTTTATAAACATAATTT  
 ATCTCCAACTTTTGTGTAATGCACCTGAAGACCGGTTACAGGAGTTACTTCAAGAGCAAAATGCTG  
 TCTGAGTACCTGAGGGGACAGATGCGTGTTCATGTCAAGGAGCTAGGAGTGGTCTTGGGATTGAATCCA  
 GTGACCTTCTCTTCTGGCTGCGGTAGCAAGCACCCACTCTCCATACGTTGCTCAGATACTCCTTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_173753

**Insert Size:**

3498 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\\_173753.4](#), [NP\\_776114.2](#)

**RefSeq Size:** 6281 bp

**RefSeq ORF:** 3498 bp

**Locus ID:** 216742

**UniProt ID:** [Q68FD7](#)

**Cytogenetics:** 11 B1.3

**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. Competes with the activating co-chaperone AHSA1 for binding to HSP90AA1, thereby providing a reciprocal regulatory mechanism for chaperoning of client proteins. May be involved in energy and/or nutrient sensing through the AMPK and mTOR signaling pathways. May regulate phosphorylation of RPS6KB1.[UniProtKB/Swiss-Prot Function]