

Product datasheet for **MG211733**

Fnip1 (NM_173753) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fnip1 (NM_173753) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fnip1
Synonyms:	A730024A03Rik; AI838773; AW557298
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211733 representing NM_173753 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCCCCACCCTGTTCCAGAAGCTCTTCAGCAAGCGGAGCGGATTAGGCGCGCCGGGACGAGACGCCCGCACCCGGACTGCGCGTTCAGTTGGCCCTTGCCAGAATTTGACCCAAGTCAGATTCGACTGATCGTATCAAGACTGTGAAAGACGAGGGAGAAATGTATTGTTTGACTCCAGTGTTAAGAGAAAAATGAGGACACATCAGTATCGAAGCTCTGTAATGATGCTCAAGTCAAGTCTTTGGGAAGTGTGCCAGCTGAAGCCAGGAGAGATAGTTCTTCTCTTTGGATAGCTCTATCACTTTATCTTCTGATGGAAAAGACCAGTGTCCCAATACAGGGTTCTCGGTGTTCTTCTGATGCCAATATGCTTGGAGAGATGATGTTTGGCTCAGTAGCAATGAGCTACAAAGGATCCACCTTAAAAATTCATCAGATCCGCTCGCTCCACAGCTTATGCTTAGCAAAGTTTTCCCGCACGGACTGGCAGTAGTATCTGTGGGAGTCTCAACTCTGCAGGACAGTCTTGAAATCATCAATCAGGACAGTAATACATTGAAAGCTGATAGCAGCACAGTTAGTAATGGGCTGCTTGGAAATATAGGTCTTTCCAGTTCTGCAGCCCCAGGCGGGCTTTCTCTGAGCAGGGTCCGCTCCGCTGATCAGGAGTGCCTCTTTCTTTGCAGTTCACAGCAACCAATGGACATGCCAGGAAGAGAAGTGAATGAGGACAGAGACAGCGGCATAGCACGTTCTGCATCTCTGAGCAGCTTGTTCATCACCCATTCCCCTCCCCAACTTCACTTACCCGAAGCTGTGCTAGCAGCTACCAGCGAGCTTGGCGACGTAGCCAAACAAGTTTGGAAAATGGGGTGTTCCTAGTGGTCTGTAGAAGAAAGCTTTAATCTGTGATGAAAAGTTGTGGCCCTAATCCAGGAATTGTGAGGAAAGAAGATTGCAATTGGGGTAATCTTTTCATTATCCAAGATGAAGATGAAAATAACAAATTCATGAAATCTTTTTTTCACATTTTCTCTCTTTGAAAGCCACATGAACAAATTAAGAGTGAATAGAACAGGCAATGAAAAATGAGCCGGAGATCAGCTGATGCCAGCCAGAGAAGTTGGCATAAATCGAATACTTGATGCCCTGACTGAGTTCAGAACAACAATTTGTAATCTTTATACAATGCCAAGAAATGGGGAACCTGTCTGGCTTACATGATGTCAGGGACTCCAGAGAAGAACCAGCTTTGCCATCGTTTCATGAAGGAATCACCTTTCTAATGAAAATGCCTCAAAAATCAATTTGCCAGCTCTCATTACTGCAGTTTTGACCAATCATCTTGCCTGGGTCCAACAGTCATGCCAAATGGACAGCCACCTATAAAAATATTTTTAGAAAACATTCTCTCAGAGTGTG



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GGCATGTTGGCAAAGACTCATCCATATAACCCTCTTTGGGCACAACCTGGAGATTTGTATGGCGCTATTG
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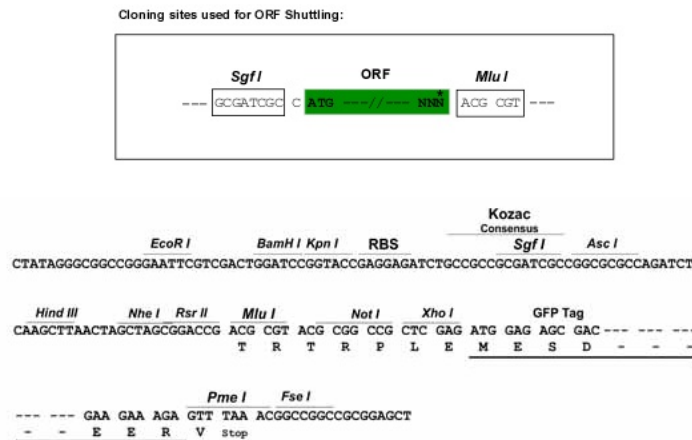
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211733 representing NM_173753
 Red=Cloning site Green=Tags(s)

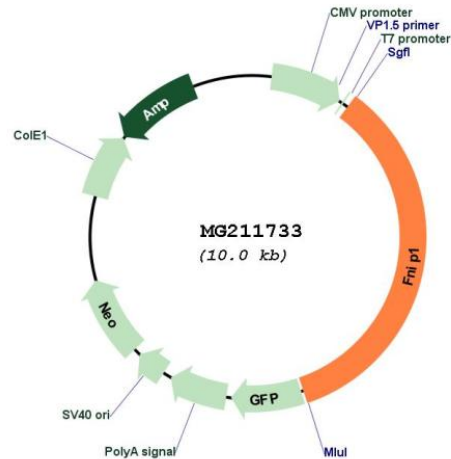
MAPTLFQKLF SKRSLGAPGRDARDPDCAF SWPLPEFDPSQIRLIVYQDCERRGRNVLFDSSVKKRNEDT
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 YKGSTLKIHQIRSPQLMLSKVF TARTGSSICGSLNQLDQSLF INQDSNTLKADSSTVSNGLLGNIGLS
 QFCSPRRAF SEQPLRL IRSASFFAVHSNPM DMPGREL NEDRDSGIARSASL SFLITPFPSPNSLTRS
 CASSYQRRWRRSQTT SLENGVFP RWSVEESFNL SDESCGP NPGIVRKKKI AIGVIFSL SKDEDENKFN
 FFFSHFPLFESHMNLKLSAIEQAMKMSRRSADASQ RSLAYNRILDAL TEFRTTICNL YTMPRI GEPVWLT
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 V GMLAKTHPYNPLWAQLG DLYGAIGSPVRLARTV VVGKRQDLVQRLLYFLTYF IRCSELQETHLENGE
 DE AI VMPGTVITTTLEKGEIEE SEYVLITMHRNKSSLL FKESEET RTPNCNCKYCSHPVLGQNTENVSQ
 PER EDTQDNSKELLGISDECQKISPPDCQEENAVD VQYRDKLRTCLDTKLET VVCTGSAPADKCVLSE
 TCLE PREESWQNKELLDSDNHTGTAMRPTGIVVEK KPPDKNVPSAF SCEVTQTKVTF LIGDSMSPDSD
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 FDEYFND DS IETRTIDDPVKTSTDSKEYCCMLE YPKRLYTKTNKQKSELCKCIETVHQDSCNACFPQ
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 EDEIPFPGS KLIIEVS AVQPNIANFGRSLLGGYSSYPDFVLQ GIGNDERLRQLVSDL SHAVQHPVLDE
 PIAEAVCII ADMDKWTVQVASSQRRTDNKLGKEVLVSSLVSNLLHSTLQLYKHNLSPNFCVMHLEDRLQEL
 YFKSKML SEYLRGQMRVHVKELGVVLGIESSDLPLLA AVASTHSPYVAQILL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
Cloning Scheme:



Plasmid Map:



ACCN: NM_173753

ORF Size: 3495 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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]