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Product datasheet for MG217038

Fnip2 (NM_001162999) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Fnip2
Synonyms:	D630023B12Rik; mKIAA1450
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG217038 representing NM_001162999
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCCGACCCTGCTCCAGAAGCTCTTCAACAAAAGGGGCGGCGGCGCAGCGTCTGCCCAGGCCCGGC
CGCCCAAGGAGGAGCCGGCCTTCAGTTGGTCGTGTTCGGAGTTTGGCTTGAGTGACATCCGCCTGCTAGT
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GCATTGCTCGATCAGCTTCACTGAGCAGCCTTTTGATCACGCCCTTCCCGTCTCCAAGCTCTTCTACATC
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ATAGGCTCTCCGGTGAGACTGACTCGCACTGTGGTGATTGGGAAGCAGAAGGATTTGGTCCAGCGCATTC

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TTTATGTTCTGACCTACTTTCTCCGTTGCTCTGAACTGCAAGAGAATCAGCTGAGCTGGAGTGGAAATCC
CAGTGAGGATGACCAGGTTATAAATGGGAGCAAGATAATAACCGCCCTGGAAAAGGGAGAGGTGGAAGAG
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ACGTGAAAGAGCTGAGTGTGGTGCTGGGGATCGAATCCAATGACCTGCCTCTGCTGACGGCCATCGCCAG
CACTCACTCTCCGTACGTGGCACAGATCCTCTTA

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217038 representing NM_001162999
Red=Cloning site Green=Tags(s)

MAPTLLQKLFNKRGGGAASAQARPPKEEPAFSWSCSEFGLSDIRLLVYQDCERRGRQVMFDSRAVQKMEE
AAAQKAEDVPIKMSARCCQESSSSSGSSSSGSSSSHGFGGSLQHAKQQLPKYQYTRPASDVSMLGEMMFG
SVAMSYKGSTLKIHYIRSPPQLMISKVFSATMGSFCGSTNNLQDSFEYINQDPQAGKLNTNQYNLGPFRT
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SEYVVVTVSSEPALVPPILPQGTAERRSPEPTVVAEISEGVNTSELGHKPEKNRCKRPEQNSEASSMGFQ
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FKADFEKDITPQDHSSGGEGVSEDRGLRANMTHAVGQLSQVDGPLAHSLCAAESGRRLLEQTRDVQLKGY
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DRTEESLEVELPLPRSQSTSKANVRNFGRSLLAGYCATYMPDLVLHGTSSDEKLKQCLAADLVHTVHHPV
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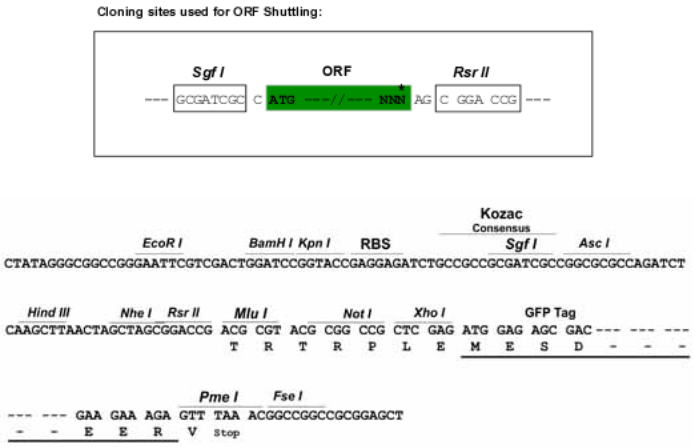
SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001162999

ORF Size: 3324 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001162999.2, NP_001156471.1

RefSeq Size: 7095 bp

RefSeq ORF: 3327 bp

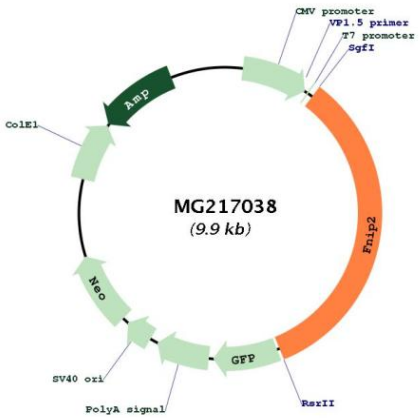
Locus ID: 329679

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]

Product images:



Circular map for MG217038