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Product datasheet for RG222284

FNIP1 (NM_001008738) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FNIP1 (NM_001008738) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FNIP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222284 representing NM_001008738 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCCCTACGCTGTTCCAGAAGCTCTTCAGCAAGAGGACCGGGCTGGGCGCGCCCGGCCGCGACGCCC GGGACCCAGATTGCGGGTTCAGTTGGCCTTTACCAGAGTTTGATCCAAGCCAGATTCGACTGATTGTATA TCAAGACTGTGAAAGACGAGGGAGAAATGTTTTGTTTGACTCCAGTGTTAAGAGAAGAAATGAGGACATA TCAGTATCGAAACTCTGCAGTGATGCTCAAGTTAAAGTCTTTGGGAAATGCTGCCAACTGAAACCTGGAG GAGACAGTTCTTCCTCTTTAGATAGTTCTGTGACTTCATCTTCTGATATAAAAGACCAGTGTCTTAAGTA CCAGGGTTCTCGGTGCTCTTCTGATGCCAATATGCTTGGAGAGATGATGTTTGGCTCAGTAGCAATGAGC TACAAAGGATCCACCTTAAAAATTCATCAGATTCGTTCCCCTCCACAGCTCATGCTCAGCAAAGTGTTTA CTGCTCGGACTGGCAGCAGTATTTGTGGGAGTCTCAATACGCTACAAGATAGTCTTGAATTCATCAATCA GGACAACAATACATTAAAGGCTGATAATAACACAGTTATTAATGGACTGCTTGGAAATATAGTTCACAGC AACCCAATGGACATGCCTGGAAGAGAGCTCAATGAGGACAGAGACAGTGGCATAGCACGGTCTGCATCTC TCAGCAGCTTGCTGATCACTCCATTTCCTTCCCCAAACTCCTCACTTACCCGAAGTTGTGCCAGCAGCTA CCAGCGACGTTGGCGACGCAGCCAAACAACAAGTTTGGAAAATGGGGTATTTCCTAGATGGTCTATAGAA GAAAGCTTTAATCTCTCAGATGAAAGCTGTGGCCCTAACCCAGGAATTGTGCGGAAAAAGAAGATTGCAA TTGGGGTAATCTTTTCATTGTCCAAAGATGAAGATGAAAATAACAAATTTAATGAATTCTTTTTTTCACA TTTTCCTCTCTTTGAAAGCCACATGAACAAATTAAAGAGTGCAATAGAACAGGCTATGAAAATGAGCCGG AGATCAGCTGATGCCAGTCAGAGAAGTTTGGCATATAATCGAATAGTTGATGCCCTAAATGAATTCAGAA CAACAATTTGTAATCTTTACACGATGCCACGAATTGGAGAACCTGTCTGGCTTACAATGATGTCGGGGAC TCCAGAAAAGAACCACCTTTGCTATCGTTTCATGAAGGAGTTCACCTTTCTAATGGAAAATGCTTCCAAA AATCAATTCTTGCCAGCTCTCATTACTGCAGTTCTGACCAATCATCTTGCCTGGGTTCCAACAGTCATGC CAAATGGACAACCACCTATAAAAATATTTTTAGAAAAGCATTCCTCTCAGAGTGTGGACATGTTGGCAAA GACTCATCCATATAACCCACTTTGGGCACAACTGGGAGACTTGTATGGCGCTATTGGCTCTCCCGTACGG TTAGCAAGGACTGTGGTAGTTGGCAAACGACAAGACATGGTCCAGAGGCTACTTTATTTTCTTACTTATT TTATAAGATGCTCTGAACTTCAAGAAACGCATCTTTTAGAAAATGGAGAAGATGAAGCCATCGTTATGCC

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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222284 representing NM_001008738
Red=Cloning site Green=Tags(s)

MAPTLFQKLFSKRTGLGAPGRDARDPDCGFSWPLPEFDPSQIRLIVYQDCERRGRNVLFDSSVKRRNEDI
SVSKLCSDAQVKVFGKCCQLKPGGDSSSSLDSSVTSSSDIKDQCLKYQGSRCSSDANMLGEMMFGSVAMS
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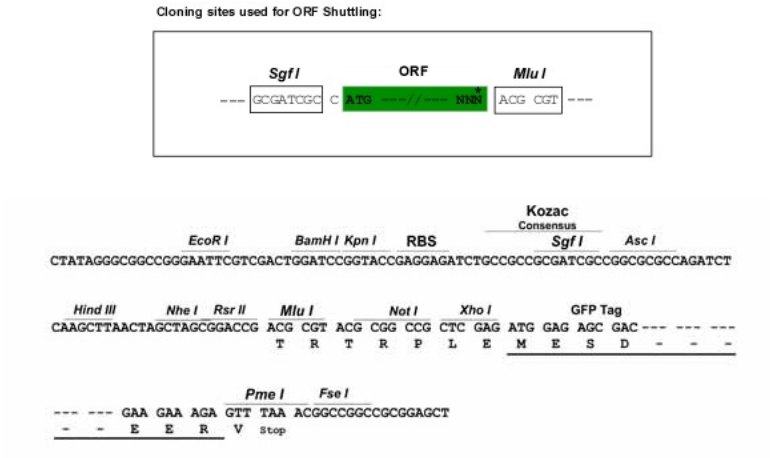
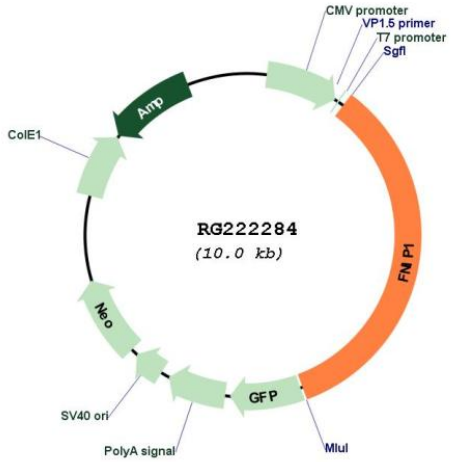
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001008738
ORF Size:	3414 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.
RefSeq:	NM_001008738.2, NP_001008738.2
RefSeq Size:	6571 bp
RefSeq ORF:	3417 bp
Locus ID:	96459
UniProt ID:	Q8TF40
Cytogenetics:	5q31.1
Gene Summary:	This gene encodes a protein that binds to the tumor suppressor protein folliculin and to AMP-activated protein kinase (AMPK). The encoded protein participates in the regulation of cellular metabolism and nutrient sensing by modulating the AMPK and target of rapamycin signaling pathways. 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]