

Product datasheet for **RC214130**

RUFY1 (NM_001040452) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUFY1 (NM_001040452) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RUFY1
Synonyms:	RABIP4; ZFYVE12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC214130 representing NM_001040452
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGAGGAGCGTGCCAACTGATGCACATGATGAACTCAGCATCAAGGTGTTGCTCCAGTCGGCTC
 TGAGCCTGGGCCGAGCCTGGATGCGGACCATGCCCCCTTGACAGCAGTTCTTTGTAGTGATGGAGCACTG
 CCTCAAACATGGGCTGAAAGTTAAGAAGAGTTTTATTGGCCAAAATAAATCATTCTTTGGTCTTTGGAG
 CTGGTGGAGAACTTTGTCCAGAAGCATCAGATATAGCGACTAGTGTAGAAAATCTCCAGAATTAAGA
 CAGCTGTGGGAAGAGGCCGAGCGTGGCTTTATCTTGCACTCATGAAAAGAACTGGCAGATTATCTGAA
 AGTGCTTATAGACAATAAACATCTTTAAGCGAGTTCTATGAGCCTGAGGCTTTAATGATGGAGGAAGA
 GGGATGGTATTGTTGGTCTGCTGGTGGGACTCAATGTTCTCGATGCCAATCTCTGCTTGAAGGAGAAG
 ACTTGGATTCTCAGTTGGAGTAATAGATTTTTCCCTCTACCTTAAGGATGTGCAGGATCTTGATGGTGG
 CAAGGAGCATGAAAGAATTACTGATGTCCTTGATCAAAAAAATTATGTGGAAGAACTTAACCGCCTTG
 AGCTGCACAGTTGGGGATCTTCAAACCAAGATAGATGGCTTGGAAAAGACTAACTCAAAGCTTCAAGAAG
 AGCTTTCAGCTGCAACAGACCGAATTTGCTCAGTTCAAGAAGAACAGCAGCAGTTAAGAGAACAAAATGA
 ATTAATTCGAGAAAGAAGTGAAGAGAGTGTAGAGATAACAAAACAGGATACCAAAGTTGAGCTGGAGACT
 TACAAGCAAACCTCGGCAAGGTCTGGATGAAATGTACAGTGATGTGTGGAAGCAGCTAAAAGAGGAGAAGA
 AAGTCCGTTGGAAGTGGAAAAGAACTGGAGTTACAAATTGGAATGAAAACCGAAATGGAATTTGCAAT
 GAAGTTACTGAAAAGGACACCCAGGAAAGCAGGACACACTAGTTGCCCTCCGCCAGCAGCTGGAAGAA
 GTCAAAGCGATTAATTTACAGATGTTTACAAAAGCTCAGAATGCAGAGAGCAGTTTGCAGCAGAAGAATG
 AAGCCATCACATCCTTTGAAGGAAAACCAACCAAGTTATGTCCAGCATGAAAACAAATGGAAGAAAGGTT
 GCAGCACTCGGAGCGGGCGAGGCAGGGGCTGAGGAGCGGAGCCACAAGCTGCAGCAGGAGCTGGCGGG
 AGGATCGGCGCCCTGCAGCTGCAGCTCTCCAGCTGCACGAGCAATGCTCAAGCCTGGAGAAAGAATTGA
 AATCAGAAAAGAGCAAAGACAGGCTCTTCAGCGCAATTACAGCACGAGAAAAGACACTTCTCTACT
 CAGGATGGAGCTGCAACAAGTGAAGGACTGAAAAGGAGTTGCGGGAGCTTCAGGACGAGAAGGCAGAG
 CTGCAGAAGATCTGCGAGGAGCAGGAACAAGCCCTCCAGGAAATGGGCCTGCACCTCAGCCAGTCCAAGC
 TGAAGATGGAAGATATAAAAAGAGTGAACCAGGCACTGAAGGGCCACGCCTGGTGAAGATGACGAAGC
 GACACACTGTAGGCAGTGTGAGAAGGAGTTCTCCATTTCCGGAGAAAGCACCCTGCCGAACTGTGGC
 CACATCTTCTGCAACACCTGCTCCAGCAACGAGCTGGCCCTGCCCTCTACCCCAAGCCGGTGCAGGTG
 GCGACAGTGCACACCTGCTCCTGCAGCGTGTCTCTCCACGGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214130 representing NM_001040452
 Red=Cloning site Green=Tags(s)

MMEERANLMHMMKLSIKVLLQSALSLGRSLDADHAPLQQFFVVMHCLKHGLKVKKSFIGQNKSFSGPLE
 LVEKLCPEASDIATSVRNLPELKTAVGRGRAWLYLALMQKKLADYLVKLVLDNKHLLSEFYEPALMEEE
 GMVIVGLLVGLNVLDANLCLKGEDLDSQVGVDFSLYLKDVQDL DGGKEHERITDVL DQKNYVEELNRHL
 SCTVGLDQTKIDGLEKTNKSLQEELSAATDRICSLQEEQQQLREQNELIRERSEKSVEITKQDTKVELET
 YKQTRQGLDEMYSVWVKLKEEKVRLLEKELELQIGMKTEMEIAMKLEKDTHEKQDTLVALRQQLLEE
 VKAINLQMFHKAQNAESSLQKNEAITSFEGKTNQVMSSMKQMEERLQHSERARQGAERSHKLQQLGG
 RIGALQLQLSLEHQCSSLKELKSEKEQRQALQRELQHEKDTSSLLRMELOQVEGLKRELQDEKAE
 LQKICEEQEQALQEMGLHLQSCLKMEDIKEVNOALKGAWLKDDEATHCRQCEKEFSISRRKHHCRCNG
 HIFCNTCSSNELALPSYKPKVVRVCDSCHTLLLRCSSTAS

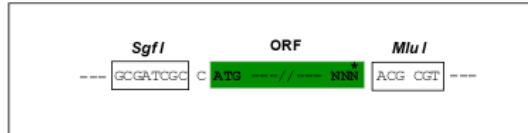
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

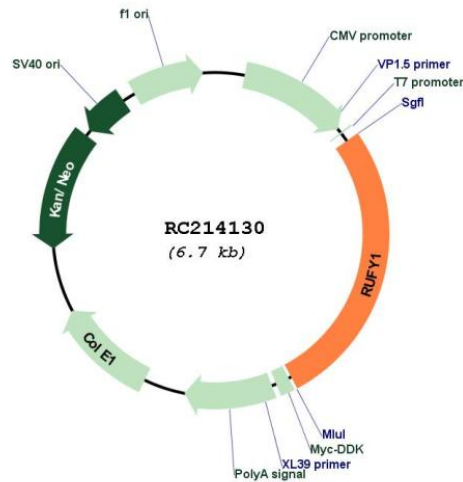
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001040452

ORF Size: 1800 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:	<ol style="list-style-type: none">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_001040452.3
RefSeq Size:	2485 bp
RefSeq ORF:	1803 bp
Locus ID:	80230
UniProt ID:	Q96T51
Cytogenetics:	5q35.3
Protein Pathways:	Endocytosis
MW:	69.1 kDa
Gene Summary:	This gene encodes a protein that contains a RUN domain and a FYVE-type zinc finger domain. The encoded protein binds to phosphatidylinositol-3-phosphate (PI3P) and plays a role in early endosomal trafficking, tethering and fusion through interactions with small GTPases including Rab4, Rab5 and Rab14. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]