

Product datasheet for **RC238516**

RIPX (RUFY3) (NM_001291994) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIPX (RUFY3) (NM_001291994) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RIPX
Synonyms:	RIPX; SINGAR1; ZFYVE30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238516 representing NM_001291994
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCTCTGCTCTGACGCCTCCGACCGATATGCCAACCCCCACCACTGACAAGATCACACAGGCTGCCATGG
 AGACCATCTACCTTTGCAAATTCGAGTGTCCATGGATGGAGAATGGCTCTGCCTGCGAGAGCTGGATGA
 CATCTCACTTACACCTGACCCAGAGCCTACCCATGAAGACTCTTGGGAGGATTTGACAGATTTGGTGGAG
 CAAATGCGCGATGATACAGAAGATCCTAATTATCTCATGGCTAATGAACGCATGAACCTCATGAACATGG
 CCAAGCTGAGTATCAAGGGCTTGATTGAATCAGCTCTGAACCTGGGGAGGACTCTTGACTCTGACTATGC
 ACCTCTCCAGCAATTCTTTGTGGTATGGAGCACTGTCTGAAACATGGCTTGAAAGCTAAAAAACTTTT
 CTCGGACAAAATAATCCTTCTGGGGCCCTCTAGAACTGGTAGAAAAGCTTGTTCCAGAAGCCGCAGAGA
 TAACAGCAAGTGTTAAAGATCTCCAGGACTTAAGACACCAGTAGGTAGAGGAAGAGCCTGGCTTCGTTT
 GGCATTAATGCAAAAGAACTTTTCAAGATATATGAAAGCTTTGATCAATAAGAAAGAACTTCTCAGTGAA
 TTCTACGAACCCAATGCCCTCATGATGGAAGAAGAAGGAGCCATAATTGCTGGTCTGTTGGTGGGTCTGA
 ATGTCATTGATGCCAATTTCTGTATGAAAGGAGAAGACTTGGAAGTCTCAGGTTGGAGTTATAGATTTTTC
 AATGTATCTCAAGGACGGGAACAGCAGTAAAGGTACTGAAGGAGACGGTCAGATTACTGCAATTCCTGGAC
 CAGAAGAACTATGTAGAAGAACTGAACAGACATTTGAATGCTACTGTAACAACCTTCAGGCAAAAGTAG
 ATGCATTAGAAAAATCCAACACTAACTGACAGAGGAGCTTGCAAGTTCGCAACAACAGGATCATTACCTT
 ACAAGAAGAAATGGAACGAGTTAAAGAGGAAAGTTCTACATACTGGAATCCAATCGGAAGGGTCCCAAG
 CAAGACAGAACTGCAGAAGGGCAAGCACTAAGTGAAGCAAGAAAGCATTTAAAGAAGAGACACAATTAC
 GATTGGATGTTGAGAAAGAACTGGAGATGCAGATCAGCATGAGGCAGGAGATGGAATTGGCTATGAAGAT
 GCTGGAGAAGGATGTCTGTGAGAAGCAGGATGCCCTGGTATCTCTTCGGCAGCAGCTGGATGACCTCAGA
 GCTCTCAAGCATGAACCTTGCCTTTAAGCTGCAGAGTTCAGACTTAGGAGTAAACAGAAAAGTGAAGTAA
 ACAGTCGCTTGGAAGAGAAGACTAATCAGATGGCTGCTACCATTAAACAACCTGAACAAAGTGAAAAGGA
 TTTGGTGAACAGGCAAGAGACCTTAAATAGTGCAGCAATAAACTGATCCCAAAACATCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

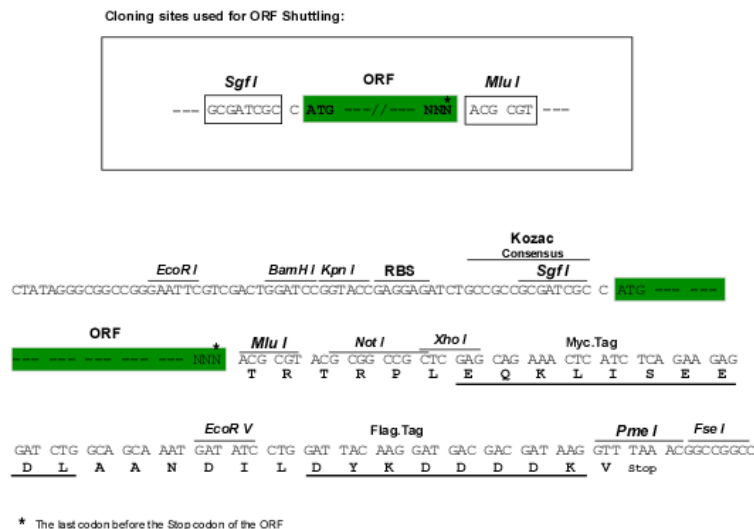
>RC238516 representing NM_001291994
 Red=Cloning site Green=Tags(s)

MSALTPPTDMPPTTDDKITQAAMETIYLCKFRVSMGWLCLRELDLISLTPDPEPTHEDSWEDLTDLVE
 QMRDDTEDPNYLMANERMNLMNAKL SIKGLIESALNLGRTLDSYAPLQQFFVVMHCLKHGLKAKKTF
 LGQNKSFWGPLELVEKL VPEAAEITASVKDLPGLKTPVGRGRAWLRALMQKKLSEYMKALINKKELLSE
 FYEPNALMEEEEGAI IAGLLVGLNVIDANFCMKGEDLDSQVGVIDFSMYLKDGNSKSGTEGDGQITAILD
 QKNYVEELNRHLNATVNNLQAKVDALEKSNTKLTEELAVANNRIITLQEEMERVKEESSYILESNRKGPK
 QDRTAEGQALSEARKHLKEETQLRLDVEKELEMQISMRQEMELAMKMLEKDVCEKQDALVSLRQQLDDLRL
 ALKHELAFKLQSSDLGVKQKSELNSRLEEKTNQMAATIKLEQSEKDLVKQAKTLNSAANKLIPKHH

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001291994

ORF Size: 1461 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_001291994.2](#)

RefSeq Size: 4473 bp

RefSeq ORF: 1464 bp

Locus ID: 22902

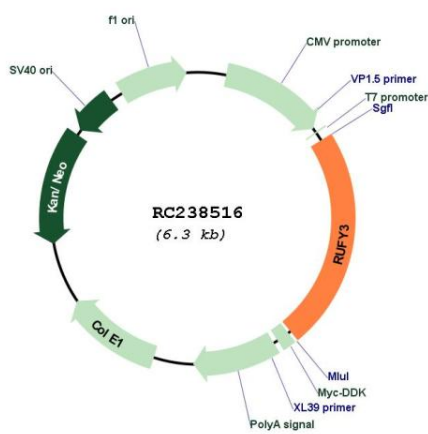
UniProt ID: [Q7L099](#)

Cytogenetics: 4q13.3

MW: 55.6 kDa

Gene Summary: This gene encodes a RPIP8, UNC-14, and NESCA domain-containing protein that is required for maintenance of neuronal polarity. In addition, it has been implicated in mediation of gastric cancer cell migration and invasion via interaction with P21-activated kinase-1, which promotes its expression. The encoded protein localizes to F-actin-enriched invadopodia to induce formation of protrusions, thereby facilitating cell migration. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC238516