

Product datasheet for **RG225870**

RIPX (RUFY3) (NM_001130709) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIPX (RUFY3) (NM_001130709) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RIPX
Synonyms:	RIPX; SINGAR1; ZFYVE30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225870 representing NM_001130709
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGAGACCCCGCCGCCGCCACCGCTGGTGCCGAAAGTTGCAGCGAGGAGCCGGCAGGGGCGGGG
 AGTGGCGGCCGGAGGAGCCGCGCGCTCCCGCGGGGACGACCGAGAGGGCGAGGCGGGCGCCG
 GCCGGCTCCCGCGCGGCAGTCGAGAGCCGACTCGCCGGTGGCCGCCCTTCTCTGCTGTACCCC
 GGCGATGGAGGCGCCGGCTTCGAGTGCGCCGCCGCCGAGCAGCAGCGCTCCTGGAGGACCCGCCGT
 CCCCCGGCTCACCGCTGCCCTTCTGCTGCTGAGTACCCGAGCGCGCGCGGCGGAGCAGCGGCGG
 CAAGCACCATCCTAATTATCTCATGGCTAATGAACGCATGAACCTCATGAACATGGCCAAGCTGAGTATC
 AAGGGCTTGATTGAATCAGCTCTGAACCTGGGAGGACTCTTGACTCTGACTATGCACCTCTCCAGCAAT
 TCTTTGGTGATGGAGCACTGTCTGAAACATGGCTTGAAAGCTAAAAAACTTTTCTCGGACAAAATAA
 ATCCTTCTGGGGCCTCTAGAACTGGTAGAAAAGCTTGTCCAGAAGCCGAGAGATAACAGCAAGTGTT
 AAAGATCTTCAGGACTTAAGACACCAGTAGGTAGAGGAAGAGCCTGGCTTCGTTTGGCATTAAATGCAAA
 AGAAACTTTTCAAGATATATGAAAGCTTTGATCAATAAGAAAGAACTTCTCAGTGAATTCTACGAACCCAA
 TGCCCTCATGATGGAAGAAGAAGGAGCCATAATTGCTGGTCTGTTGGTGGGTCTGAATGTCATTGATGCC
 AATTTCTGTATGAAAGGAGAAGACTTGGACTCTCAGGTTGGAGTTATAGATTTTTCAATGTATCTCAAGG
 ACGGGAACAGCAGTAAAGGTAAGTGAAGGAGACGGTCAGATTACTGCAATTCTGGACCAGAAGAACTATGT
 AGAAGAACTGAACAGACATTTGAATGCTACTGTAACAACCTTCAGGCAAAAGTAGATGCATTAGAAAAA
 TCCAACACTAACTGACAGAGGAGCTTGCACTTGAACAACAGGATCATTACCTTACAAGAAGAAATGG
 AACGAGTTAAAGAGGAAAGTTCTACATACTGGAATCCAATCGGAAGGGTCCCAAGCAAGACAGAACTGC
 AGAAGGGCAAGCACTAAGTGAAGCAAGAAAGCATTAAAAAGAGAGACACAATTACGATTGGATGTTGAG
 AAAGAACTGGAGATGCAGATCAGCATGAGGAGGAGATGGAATTGGCTATGAAGATGCTGGAGAAGGATG
 TCTGTGAGAAGCAGGATGCCCTGGTATCTCTTCGGCAGCAGCTGGATGACCTCAGAGCTCTCAAGCATGA
 ACTTGCTTTAAGCTGCAGAGTTCAGACTTAGGAGTAAACAGAAAAGTGAACAAACAGTCGCTTGGA
 GAGAAGACTAATCAGATGGCTGCTACCATTAAACAACCTGAACAAAGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

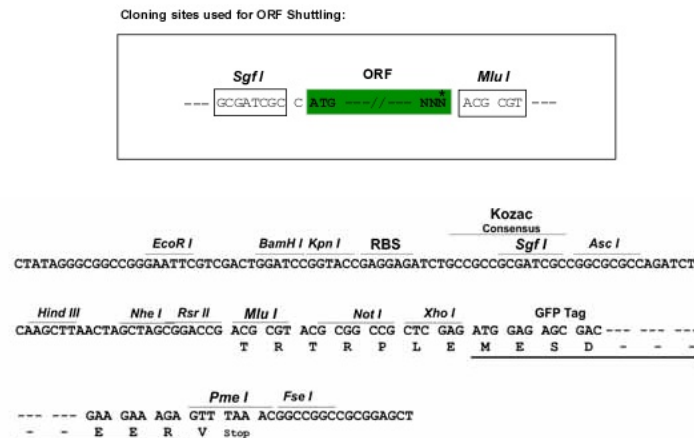
>RG225870 representing NM_001130709
 Red=Cloning site Green=Tags(s)

MAETPPPPTAGAESCSEEPARGGEWRPEEPRRAPAGGTDREGEAGPPASPAGQSEPDSPVAAPFFLLYP
 GDGGAGFGVRPPPQQRSWRTPPSPGSPLPFLLLSYPSGGGSSGSKHHPNYLMANERMNLMNAKL SI
 KGLIESALNLRGLTDSYAPLQQFFVVMHCLKHGLKAKKTFLLGQNKSFWGPLELVEKLVPEAAEITASV
 KDLPLGLKTPVGRGAWLRALMQKKLSEYMKALINKKELLSEFYEPNALMMEEGAI IAGLLVGLNVIDA
 NFCMKGEDLDSQVGVIDFSMYLKDGNSSKGTEGDGQITAILDQKNYVEELNRHLNATVNNLQAKVDALK
 SNTKLTEELAVANNRIITLQEEMERVKEESSYILESNRKGPKQDRTAEGQALSEARKHLKEETQLRLDVE
 KELEMQISMRQEMELAMKMLEKDVCQDALVSLRQQLDDLRLKHELAFKLQSSDLGVKQKSELNSRLE
 EKTNQMAATIKLEQR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001130709

ORF Size: 1518 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_001130709.1](#), [NP_001124181.1](#)

RefSeq Size: 1822 bp

RefSeq ORF: 1521 bp

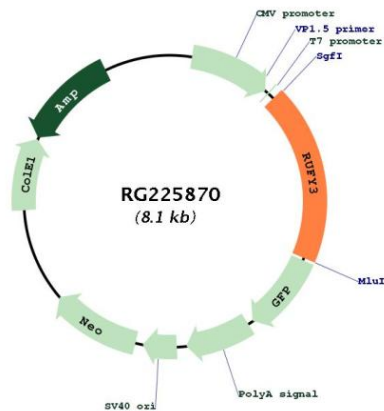
Locus ID: 22902

UniProt ID: [Q7L099](#)

Cytogenetics: 4q13.3

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 RG225870