

## Product datasheet for **SC302898**

### **RIPX (RUFY3) (NM\_001037442) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RIPX (RUFY3) (NM_001037442) Human Untagged Clone
Tag:	Tag Free
Symbol:	RUFY3
Synonyms:	RIPX; SINGAR1; ZFYVE30
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001037442 edited  
 ATGTCTGCTCTGACGCCTCCGACCGATATGCCAACCCACCACACTGACAAGATCACACAG  
 GCTGCCATGGAGACCATCTACCTTTGCAAATCCGAGTGTCCATGGATGGAGAATGGCTC  
 TGCCTGCGAGAGCTGGATGACATCTCACTTACACCTGACCAGAGCCTACCCATGAAGAT  
 CCTAATTATCTCATGGCTAATGAACGCATGAACCTCATGAACATGGCCAAGCTGAGTATC  
 AAGGGCTTGATTGAATCAGCTTGAACCTGGGGAGGACTTTGACTCTGACTATGCACCT  
 CTCCAGCAATTTTGTGGTGATGGAGCACTGTCTGAAACATGGCTTGAAGCTAAAAAA  
 ACTTTTCTCGGACAAAATAAATCCTTCTGGGGCCCTCTAGAAGTGGTAGAAAAGCTTGT  
 CCAGAAGCCGAGAGATAACAGCAAGTGTTAAAGATCTTCCAGGACTTAAAGACACCAAGT  
 GGTAGAGGAAGAGCCTGGCTTCGTTTGGCATTAAATGCAAAAGAACTTTTCAAGATATATG  
 AAAGCTTTGATCAATAAGAAAGAACTTCTCAGTGAATTCTACGAACCCAATGCCCTCATG  
 ATGGAAGAAGAAGGAGCCATAATTGCTGGTCTGTTGGTGGGTCTGAATGTCATTGATGCC  
 AATTTCTGTATGAAAGGAGAAGACTTGGACTCTCAGGTTGGAGTTATAGATTTTTCAATG  
 TATCTCAAGGACGGGAACAGCAGTAAAGGTAAGGACTGAAGGAGACGGTCAGATTACTGCAATT  
 CTGGACCAAGAAGAACTATGTAGAAGAACTGAACAGACATTTGAATGCTACTGTAACAAC  
 CTTCAGGCAAAAGTAGATGCATTAGAAAAATCCAACTAACTGACAGAGGAGCTTGCA  
 GTTGCAAAACAACAGGATCATTACCTTACAAGAAGAAATGGAACGAGTTAAAGAGGAAAGT  
 TCCTACATACTGGAATCCAATCGGAAGGGTCCCAAGCAAGACAGAAGTGCAGAAGGGCAA  
 GCCTAAGTGAAGCAAGAAAGCATTAAAAAGAGAGACACAATTACGATTGGATGTTGAG  
 AAAGAAGTGGAGATGCAGATCAGCATGAGGCAGGAGATGGAATTGGCTATGAAGATGCTG  
 GAGAAGGATGTCTGTGAGAAGCAGGATGCCCTGGTATCTCTTCGGCAGCAGCTGGATGAC  
 CTCAGAGCTCTCAAGCATGAACCTGCCTTAAAGCTGCAGAGTTCAGACTTAGGAGTAAAA  
 CAGAAAAGTGAACAAACAGCTCGCTTGGAAAGAGAAGACTAATCAGATGGCTGCTACCATT  
 AAACAACCTTGAACAAAGATTGCGCCAGGCTGAGCGAAGCCGCAATCTGCTGAGTTGGAC  
 AACCGGCTCTTCAACAGGACTTTGGAGACAAGATCAACAGTCTGCAGCTGGAAGTCGAG  
 GAGCTCACAGGCAGCGGAACAGCTTGTAGTAACTAAAAACAGGAAAAAGAAAGAAGA  
 TTACAAAACGACAGGAGCATCCAGGAAGGGTCCAGAAAGTCAAGATCCAAGATGGAT  
 GGGAAAGCAGAAAATGCAAGAGGAAAATGTTAACTAAAAAGCCCTGGAAGAAAGCCAC  
 AGGCTGCAACCCACCCTATGGATGAACAGGATCAGCTGCTGCTCTGAAAAGCCACAG  
 TTGTGTCAGCTATGCCAGGAAGACGGCAGCCTAACAAAGAAATGTGTGTAAGAAGTGCAGC  
 GGAACCTTCTGTGATGCCTGTTCAACAAATGAACCTGCCTTCTCCTCAAGTATCAAGCTT  
 GAGCGAGTTTGAATCCCTGTCAACAGCATCTGATGAAGCAATATTCTACCAGCCCATCA  
 TAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_001037442 unedited  
 NGGCAAGTTCAAATTTGTATACGACTCATATAGGCGCCGCGNAATTCGCACGAGGGTCA  
 GCCATTTTGGTCAACACCCTGCTTACTGCGCACGGCCAATCCTATGAGAAGTCAAGTCC  
 CAGCTCATCTGAGCAGATCCTGGAAGTGATTTCTGCAGCTCAGGATTTTTTTTTTAAAGCT  
 ACNATTGAAAATATAGGTTTATTTTTTGTTCAGGTTTTTCTTTTATTTTTTTTTCTGCA  
 CAAAGGAGGAGGATTTTTCACTTACTCATATCGAGGCCAGATTTTTAAAGCCAGCTAAGG  
 CAGCATCAGCTGTGCGGGATTTAAAGCCTATAGCTCAGCTGAAAAAAAAGGTGGGGGGCA  
 GGGAAAGGGAAGATAAAAGGAGAGGAAGCTGGGAGAAGACAAGCATCATCTATTTTTGCTA  
 TGTGGTAGGAAGTGTCTATAAGATAGTGTAGAATTGTTTATCTTGAGCAGTTTGTCTTA  
 ACCTATAAGGTATTTTTCTTTTTTTTTTTTTTAAACCTCCCCACCCTTTCTGAAAG  
 CTTTGTTCAGAGCTTTGTATTGGTTTTTTTTGGTGGAGGAGTTGATTTATTTTTTTGG  
 TGTGTGTGTGAGTGTGTGTGTCTGTGTGTGTGTGGTCCAGCTGAGTCATCAT  
 GTCTGCTCTGACGCTCCGACCGATATGCCAACCCACCACACTGACAAGATCACACAGGC  
 TGCCATGGAGACCATCTACCTTTGCAAATCCGAGTGTCCATGGATGGAGAATGGCTCTG  
 CCTGCGAGAGCTGGATGACATCTCACTTACACCTGACCCAGAGCCTACCCATGAAGATCC  
 TAATTATCTCATGGCTAATGAACGCATGAACCTCATGAACATGGN

<b>3' Read Nucleotide Sequence:</b>	>Forward primer walk for NM_001037442 unedited AAAATGGACAAAAAATTGNAAGAATGCGCCAGGCTGAGCGAACCGCCAATCTGCTGAG TTGGACAACCGGCTCTTCAAACAGACTTTGGAGACAAGATCAACAGTCTGCAGCTGGAAG TCGAGGAGCTCACCAGGCAGCGGAACCAGCTTGAGTTAGAATAAAACAGGAAAAAGAAA GAAGATTACAAAACGACAGGAGCATCCCAGGAAGGGTCCCAGAAGTCAGAATCCAAGA TGGATGGGAAGCACAAAATGCAAGAGGAAAATGTTAACTAAAAAGCCCCTGGAAGAAA GCCACAGGCTGCAACCCACCCTATGGATGAACAGGATCAGCTGCTGCTCTGAAAAGC CACAGTTGTGTCAGCTATGCCAGGAAGACGGCAGCCTAACAAAGAATGTGTGAAGAACT GCAGCGAACCTTCTGTGATGCCTGTTCAACAAATGAACTGCCTCTTCCTTCAAGTATCA AGCTTGAGCGAGTTTGAATCCCTGTCACAAGCATCTGATGAAGCAATATTCTACCAGCC CATCATAAGACTGGAGGCCAAGACCTGGACCAAAACGTTTATGCAGGCTCCTCTGTACCT GTGTTTTAGTGTCCAGGATCTCATAGAGCCAGTTCTTAGAGTCAACTAAAGAGTTGATA GGAATTTACTAGTCCAGGGAGAAAAGGCAGTGGTTGGGTTACTGGAAATTTTGCTCAT TTTCTCTAATGACTGTATGAATAANAGTGAACCTACTTGAGCCTTCTCTCTAAATCTA AACAACTGGATATTGAAGTTTGTCTTATAGCATATCTTTGGGAAGGCAACTCATTTTAA TGATTAGTACTGGGGTGGATTAA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001037442
<b>Insert Size:</b>	4400 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001037442.1, NP_001032519.1</u>
<b>RefSeq Size:</b>	2991 bp
<b>RefSeq ORF:</b>	1863 bp
<b>Locus ID:</b>	22902
<b>UniProt ID:</b>	<u>Q7L099</u>
<b>Cytogenetics:</b>	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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.