

## Product datasheet for **SC302889**

### CYFIP2 (NM\_001037332) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CYFIP2 (NM_001037332) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYFIP2
Synonyms:	PIR121
Vector:	<u>pCMV6 series</u>

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001037332, the custom clone sequence may differ by one or more nucleotides

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ATGACCACGCACGTCCACCTGGAAGATGCCCTGTCCAACGTGGACCTGCTGAAGAGCTT
CCCCTCCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCATGTACCAGGCT
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GTCATGCTGTACACCTGGCGCAGCTGTTCCCGGCCATTCCCAGGTGAAATGCAACGAG
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CCCCAGTCTATCCAGGAGTCGCAGAACCTTTCCATGTTCTGGCCAACCAACAGGATC
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CATATGCTCCTCAAGGTGATGGGCTTTGGCCTTACCTAATGGATGGAATGTCAGTAAC
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CAGCTGCAGGTGGTGCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTAAG
ACCAGTGTCTCACTATGAAGAGAACAAGTCCAAGTGGACGTGCACCCAGAGCAGCATCAGC
CCCCAGTACAATATCTGCGAGCAGATGGTTCAGATCCGGGATGACCACATCCGCTTCATC
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AAGAAGAAGAATGTCTCATCAGCGTCTACAGGCAATTCGAAAGACCATCTGTGACTGG
GAGGGAGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGACCCCAAGGT
GGATTTGATATCAAGGTGCCCGCGTGTGTGGGGCCATCCAGCACACAGCTGTACATG
GTGCGGACCATGCTTGAATCACTATTGCAGACAAAAGCGGCTCCAAGAAGACCTGAGG
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AGCAGCCTGGATGGACCCATTGTCCTCGCCATAGAGGACTTTCACAAACAGTCTTCTTC
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TGGTTCCGAGAATTCTTCTGGAGTTAACCATGGGCCGACGAATCCAGTCCCATCGAG
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TACAGCTCCTACAGGAATTTCTGGGGCCACCTATTTCAAGACTATCTGCAGACTCCTG
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CAAGGAACCAATCTCCAGTATGTGAAAACACTGATAGAGGTGATGCCCAAGATATGCCGC
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CGCTGGAGGTCCGGATGAAACGTCTGGAAGCCAAGTATGCCCGCTCCACCTGGTCCCT
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AGCTACCTGCAGGACCCCATCTGGCGGGGCCACCGCCACCAATGGCGTCATGCACGTC
GATGAGTGTGGAGTTCACCGGCTGTGGAGCGCCATGCAGTTCGTGTACTGCATCCCT
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TGCTCCATCATTGCTGCTGGCCAGCAGCGTCGCTTTGACCTGTTGACTTCTGTTAC
CACCTGCTAAAAGTGCAGAGGCAGGACGGGAAGGATGAAATCATTAAAGATGTGCCCTG
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CTGAACAAATACATGAAGTCCGTGGAGACAGACAGTTCCTACTGTGGAGCATGTGGCTGC
TTCCAGCCACCCATCCACCAGTCCTTGGCCACCACTTGCTAA

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001037332
- OTI Disclaimer:** 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001037332.1](#), [NP\\_001032409.1](#)

**RefSeq Size:** 6791 bp

**RefSeq ORF:** 3762 bp

**Locus ID:** 26999

**Cytogenetics:** 5q33.3

**Protein Pathways:** Regulation of actin cytoskeleton

**Gene Summary:** Involved in T-cell adhesion and p53/TP53-dependent induction of apoptosis. Does not bind RNA. As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) represents the longest transcript. Variants 1, 2, and 3 all encode the same protein.