

Product datasheet for SC100426

CYFIP1 (NM_014608) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYFIP1 (NM_014608) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYFIP1
Synonyms:	P140SRA-1; SHYC; SRA-1; SRA1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC100426 sequence for NM_014608 edited (data generated by NextGen Sequencing)

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ATGGCGGCCCCAGGTGACTCTGGAGGACGCGCTGTCCAACGTGGACCTCCTGGAGGAGCTG
CCCCTGCCGACCAGCAGCCCTGCATCGAGCCCCGCCATCCTCGCTGCTCTACCAGCCA
AATTTCAACACTAACTTTGAAGACAGAAATGCATTTGTTACTGGCATCGCAAGATACATT
GAACAAGCCACCGTCCACTCTAGCATGAACGAGATGCTGGAGGAGGGCCAAGAATATGCT
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CAGCCTAACAGAGTGAAATCTACGAGAAAACCGTGGAGGTTCTGGAGCCTGAGGTGACA
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CTGGGCAAATTCATCAACATGTTTCGCTGTGCTGGACGAGCTGAAGAACATGAAGTGCAGT
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TGGGAGACGGGGCATGAGCCCTTCAATGACCCAGCCTTGCGGGGCGAGAAGGACCCCAAG
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MTGGTGAGAACCATGCTAGAGTCCCTCATTGCAGACAAAAGTGGTTCCAAGAAAACCTTG
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ATCCTGGATAAGTACCTGAAGTCAGGGACGGGGAGGGCAGCCAGTGGAGCATGTGCGC
TGCTTCCAGCCGCCATCCACCAGTCCCTCGCCAGCAGCTGA

Clone variation with respect to NM_014608.2

1677 t=>y;1681 a=>m

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014608 unedited
 TAATTGTATACCACTATTAGGCGCCGCGAATCGCCGAGGGAACTCCCAGGCCGCCAG
 GACCCCAAGCCGCCGCGGACGCAGCCAGGATGGCGGCCAGGTGACTCTGGAGGACGC
 GCTGTCCAACGTGGACCTCTGGAGGAGCTGCCCTGCCCGACCAGCAGCCCTGCATCGA
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 CGAGATGCTGGAGGAGGGCCAAGAATATGCTGTATGCTGTACACCTGGAGGAGCTGCTC
 CCGGGCCATCCCACAGGTGAAATGTAACGAGCAGCCTAACAGAGTGGAATCTACGAGAA
 AACCGTGGAGTTCTGGAGCCTGAGGTCACAAAAGTGAATTTTCACTGACTTCCAGAG
 AAATGCCATTGAGCGTTTCTGCGGGGAAGTGAGGCGCCTGTGCCATGCCGAGAGGAGGAA
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 GTCCCATGTTCTGGCCAATCATAACAAGATCACACAGTCTCTGCAGCAGCAGCTCGAAGT
 GGATTCTGGCTACCAAGACTCCTGGCAGATATGTAATCTGTGTGGATACTACGAGA
 CAGGATGTATTTGACGCCATGAGAAAACATGTTCTCAAATCATGGGATTTGGTCTGTA
 CTGATGATGGGAGTTCAGTACATCTATAGNTGGATGCCACGAAAGATAAACTATCCAAAT
 CGACAGTACTTCAGCACTCCAGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014608 unedited
 GACCGCGCCGCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
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 CACAAAAAAGGGATGGGAACAATGACTTAAAACATAAAATGCTCATAAAAGACCATCAGA
 AAGATCCCTAAACAAAAGCTAAATAGTTACAGTTAATGGTAAGTGGCAAGGGATTTAATG
 CATTGCTGGTATTAAGTTTCTTATGGAATGAATGAATGAACCCCGCAGCATTATGAC
 ACAGCTGCCAAAACATCCCATAAAAAACAATTTGTAGGAACGTGATGGCAACAATCAG
 CAGCCAATATTCTCAAGAGTTCCTAATTACAAAAGCATATACCATTTTAGTCTAAAAAA
 ATAAGTCAATTTTATAAAATTAAGTTTTTAGATCGAAAAGCACCCCTTTAACAGGTACA
 GAGATACTGAAAAATAGTCCCTAAAAATCTCACTAAATAGTTTACGGAGAGAAAAGGCATG
 CCATGTTGAGTTACCGAATGCAACGCGTGCCCTCANCTGCTGGCAAAGGACTGGTGGATG
 GGCCGCTGGAAACAANCACATGCTCCACTGGCGTGCCCTCCCGTCGCTGACTTTAAG
 TACTTATTCCAGGAGGGGATGATCTCATCATTGAGGATCTGGGACTTTGGGAATTCTCT
 TCACCATCTTTTTCAAAGCCATTTTTAAAAAATCTCCTCCTTTGCCACATGTTTCTGG
 GCTTTTAAAGTAAAAGGGGCGGAAATCCGCACAGGAAAAACCCCGCTGCCTGCCCAA
 AGTTTCGATGATCATACCGCCGCCAGGTGACCCCATCACAAGACCTGGTGTACTGGGA
 ACTCGGTGTCCCCCGGAAGGCCATGAACAAATGGTGGCGCCTCCCAATCTGGAATC
 CCACACCCTCCCC

Restriction Sites:

NotI-NotI

ACCN:

NM_014608

Insert Size:

4700 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_014608.2](#), [NP_055423.1](#)

RefSeq Size: 4446 bp

RefSeq ORF: 3762 bp

Locus ID: 23191

UniProt ID: [Q7L576](#)

Cytogenetics: 15q11.2

Protein Pathways: Regulation of actin cytoskeleton

Gene Summary: This gene encodes a protein that regulates cytoskeletal dynamics and protein translation. The encoded protein is a component of the WAVE regulatory complex (WRC), which promotes actin polymerization. This protein also interacts with the Fragile X mental retardation protein (FMRP) and translation initiation factor 4E to inhibit protein translation. A large chromosomal deletion including this gene is associated with increased risk of schizophrenia and epilepsy in human patients. Reduced expression of this gene has been observed in various human cancers and the encoded protein may inhibit tumor invasion. [provided by RefSeq, May 2017]
Transcript Variant: This variant (1), as well as variants 2-4, encodes isoform a. **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.