

Product datasheet for SC100423

CYFIP2 (NM_014376) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYFIP2 (NM_014376) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYFIP2
Synonyms:	EIEE65; PIR121
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100423 sequence for NM_014376 edited (data generated by NextGen Sequencing)

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ATGACCACGCACGTACCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTGAAGAGCTT
CCCCTCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCCCTCCATCATGTACCAGGCT
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AAGAAGAAGAATGTCTCATCAGCGTCCTACAGGCAATTCGAAAGACCATCTGTGACTGG
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TTCCAGCCACCCATCCACCAGTCTTGGCCACCACTTGCTAA

Clone variation with respect to NM_014376.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014376 unedited NGGGTCAGATTTGTATACGACTCACTATAGGCGCCGCGATTTCGGCAGAGGGCCCTCC CCTGGACCCGCCGAGAGCCAGTGCAGAATACAGAAACTGCAGCCATGACCACGCACGTC ACCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTTGAAGAGTTCCCTCCCGACCAG CAGCCATGCATCGAGCCTCCACCTTCTCCATCATGTACCAGGCTAACTTGGACACAAAC TTTGAGGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCAGGCTACAGTC CACTCCAGCATGAATGAGATGCTGGAGGAAGGACATGAGTATGCGGTCATGCTGTACACC TGGCGCAGCTGTTCCCGGCCATTCCCCAGGTGAAATGCAACGAGCAGCCCAACCGAGTA GAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCCGGAGGTCACCAAGCTCATGAAGTTC ATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGACGCGAGGTGAAGCGGCTGTGCCAT GCCGAGCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTCCTGACCCTTGGCAAGTTCATC AACATGTTTGTCTGCTGGATGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCAC TCTGCCTACAAGAGGGCAGCACAGTTTCTGCGGAAGATGGCAGATCCCCAGTCTATCCAG GAGTCGAGAACCTTTCCATGTTCTGGCCAACCAACAGGATACCCAGTGTCTNCAC CAGCAACTTGAAGTGATCCCAGGCTATGAGGAGCTGCTGGCTGACATTGTCACATCTGTG TGGATACTACGAGAACAAGAGTACCTGACTNCCAGTGAGAACTATGCTCCTCAGGTGAT GGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_014376
Insert Size:	4700 bp
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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_014376.1</u> , <u>NP_055191.1</u>
RefSeq Size:	4250 bp
RefSeq ORF:	3762 bp
Locus ID:	26999
UniProt ID:	<u>Q96F07</u>
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 (3) contains an alternate exon in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same 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.