

Product datasheet for MC229519

Cyfp2 (NM_001252459) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyfp2 (NM_001252459) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyfp2
Synonyms:	1500004I01Rik; 6430511D02Rik; AA930218; AU022376; mKIAA1168; Pir121
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229519 representing NM_001252459 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACCACCCACGTCACTTTGGAAGATGCCCTGTCCAACGTGGACCTGCTGGAGGAAGTCCCCCTCCAG
 ACCAGCAGCCATGTATCGAGCCCCGCCATCCTCCATCATGTACCAGGCTAACTTTGACACGAACCTCGA
 GGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCAGGCAACGGTCCACTCCAGCATGAAT
 GAAATGCTGGAGGAGGGCCACGACTATGCAGTCATGCTGTACACCTGGCGCAGCTGCTCCGGGCCATCC
 CGCAGGTGAAGTCAATGAGCAGCCCAATCGGGTCGAGATCTACGAGAAGACGGTGGAGGTGCTGGAGCC
 AGAGGTACCAAGCTCATGAAGTTCATGTACTTTCAGCGCAAGGCCATCGAGCGCTTCTGTAGCGAGGTG
 AAGCGGCTGTGTACGCTGAGCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTGTGACGCTGGGCAAGT
 TCATCAACATGTTTCGCGGTCTTGGACGAGCTAAAGAACATGAAGTGCAGTGTCAAGAATGACCACTCTGC
 CTACAAGAGAGCAGCAGATTCTTAAGGAAGATGGCGGACCCCAAGTCCATCCAGGAATCTCAGAACCTG
 TCCATGTTCTTGCCAATCACAAAGGATCACCCAGTGTCTTACCAGCAACTGGAAGTGATCCCGGGCT
 ATGAGGAGCTGCTGGCAGACATTGTCAACATCTGTGTTGATTACTATGAGAATAAGATGTACCTGACGCC
 CAGTGAAGACACATGTTGCTCAAGGTGATGGGCTTTGGTCTCTATCTGATGGACGAAATGTCAGTAAC
 ATTTACAACTGGATGCCAAGAAGAGAATCAACCTTAGCAAAATTGATAAGTTTTTAAGCAGCTGCAGG
 TGGTACCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTAAGACCAAGTGCTCACTATGAAGA
 GAACAAGTCCAAGTGACATGCACTCAGAGCAGCATCAGCCCCAGTACAACATCTGTGAGCAGATGGTT
 CAGATCCGGGATGATCACATCCGCTTCTCTGAGCTGGCTCGCTACAGCAACAGCGAGGTGGTGACAG
 GCTCAGGGCTGGACAGCCAGAAGTCGGATGAAGAGTACCGGGAGCTTTTTGACCTGGCCCTGCGAGGCC
 GCAGCTTCTATCCAAGTGGAGTGCCCATGTGATGGAGGTGACTCTTGAAGCTGGTTACCCCCACAGAC
 AAGTTCTGCAACAAGGACTGCCCGGGCACCAGGAGGATACGAGAGAGCCACGCGCTACAATTATACCA
 GCGAGGAGAAGTTTGCCTTTGTGGAGGTGATTGCCATGATCAAGGGTTTGCAGGTGCTCATGGGAAGGAT
 GGAGAGTGTCTCAACCAGGCCATCCGCAACACTATCTACGCAGCCCTGCAGGATTCGCCCAAGGTGACG


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CTGCGGGAGCCGTTGCGGCAAGCAGTTCGAAAGAAAAAGAATGTCCTTATCAGCGTTCTGCAAGCAATTC
 GAAAGACCATCTGTGACTGGGAGGGAGGCCGAGAGCCCCCAATGACCCATGCTTAAGAGGGGAGAAGGA
 CCCCAAAGGTGGCTTTGACATCAAGGTGCCCGCCGCTGCTGTGGGTCCATCCAGCACACAGCTGTACATG
 GTGCGCACCATGCTTGAGTCACTCATCGAGACAAGAGCGGCTCCAAGAAGACGCTCAGAAGCAGCCTGG
 ATGGCCCTATCGTCCTTGCCATAGAGGACTTCCACAAGCAGTCTTCTTTTACACACCTGCTTAACAT
 CAGCGAGGCTCTTCAGCAGTGTGTGACCTCTCCAGCTCTGGTCCGAGAATTCTTCTGGAGTTGACC
 ATGGGCCGGCGAATCCAGTTCCTGATTGAGATGTCATGCCCTGGATTCTAACGGACCATATTCTGGAAA
 CCAAAGAACCCTTCATGATGGAGTATGTCTCTACCCCTTGGATCTGTACAACGACAGCGCTACTATGC
 CCTCACCAAATTCAAAAAGCAGTTCTGTATGACGAGATCGAAGCCGAGGTAAACCTGTGTTTTGATCAG
 TTTGTCTACAAGCTGGCTGACCAGATCTTCGCCTACTACAAAGCCATGGCCGGCAGTGTCTGCTGGATA
 AACGTTTTAGAGCTGAGTGAAGAACTATGGGGTATCATACCGTACCCGCCATCCAACCGCTACGAGAC
 ACTGCTGAAGCAGAGACATGTCCAGCTGTTGGGAGATCAATTGACTTGAACAGACTCATCACCCAGCGG
 ATCTCTGCTGCCATGTACAAGTCTTGGACCAGGCCATCAGCCGCTTTGAGAGTGAAGACCTGACCTCCA
 TTGTGGAGCTGGAGTGGCTGCTGGAGATTAACCGACTCACACCCGACTCCTCTGTAAGCACATGACGCT
 AGACAGCTTCGATGCCATGTTCCGAGAAGCCAATCATAACGTGTCTGCCCTTACGGCCGCATCACCTG
 CATGTCTTCTGGGAGCTGAACCTTGAACCTTCTCCCAACTACTGTATAATGGATCCACAAACCGTTTTG
 TCCGAAGTGCATCCCTTTCACCAAGAACCACAACGGGATAAGCCCGCCAATGTCCAGCCTTATTACCT
 CTATGGATCCAAGCCTCTCAACATTGCCTACAGCCACATCTATAGCTCCTACCGAACTTTGTGGGGCC
 CCTCACTTCAAGACCATCTGCAGACTGTTGGGCTACCAGGGCATCGCTGTGGTATGGAGGAAGTCTGA
 AAATCGTCAAGAGCTTGCTCCAAGGCACCATCTGCAGTACGTGAAGACGCTCATAGAGGTGATGCCGAA
 AATCTGTCTGTTTGCCTCGGCACGAGTACGGCTCTCCAGGAATCCTGGAGTTCTTCCACCACCAACTGAAG
 GACATCATCGAGTATGCAGAACTCAAAACAGACGTGTTCCAGAGCCTCCGAGAGGTGGGCAACGCCATCC
 TGTCTGCCTCCTCATAGAGCAAGCTCTGTCTCAGGAGGAAGTCTGTGATTGCTCCATGCTGCACCCTT
 CCAAAACATTCTGCCCCGAGTCTACATCAAAGAGGGGGAGCGCCTGGAAGTCCGGATGAAGCGCCTCGAG
 GCCAAGTACGCCCACTTCACCTGGTTCCTCTGATAGAGCGGCTGGGGACGCCTCAGCAAATCGCCATCG
 CTCGGGAGGGTGACCTGCTGACCAAGGAGCGGCTCTGCTGCGGCTGTCCATGTTTGAGGTATCTCTGAC
 CCGAATCCGGAGCTACCTGCAGGACCCCATCTGGAGGGGGCCGCCACCCACCAATGGCGTCATGCATGTG
 GATGAGTGTGTGGAGTTTACCGGCTGTGGAGTGCATGAGTTTGTCTACTGTATCCCTGTGGGGACCA
 ACGAGTTCACAGCTGAGCAGTGTCTCGGTGACGGCTTGAAGTGGCCGGCTGCTCCATCATTGTCTTGT
 GGGCCAGCAGCGCGCTTTGACCTGTTTGAACCTCTGTTATCATCTGCTGAAGGTGCAGAGGCAGGACGGG
 AAGGATGAGATCATTAAAGATGTGCTCTGAAGAAGATGGCTGACCGCATCAGGAAGTACCAGATCTTGA
 ACAATGAGGTTTTTGCCATCCTGAACAAGTACATGAAGTCTGTAGAGACAGACAGTTCACCGTAGAGCA
 TGTGCGCTGCTTCCAGCCCCAATCCACCAGTCATTGGCCACCACCTGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001252459
Insert Size:	3762 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001252459.1, NP_001239388.1</u>
RefSeq Size:	6622 bp
RefSeq ORF:	3762 bp
Locus ID:	76884
UniProt ID:	<u>Q5SQX6</u>
Cytogenetics:	11 B1.1
Gene Summary:	Part of the WAVE1 complex that regulates actin filament reorganization via its interaction with the Arp2/3 complex (By similarity). Involved in T-cell adhesion and p53-dependent induction of apoptosis (By similarity). Does not bind RNA. As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (PubMed:27605705).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1-3 encode the same protein.