

Product datasheet for **MC229520**

Cyfp2 (NM_001252460) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cyfp2 (NM_001252460) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cyfp2
Synonyms: 1500004I01Rik; 6430511D02Rik; AA930218; AU022376; mKIAA1168; Pir121
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229520 representing NM_001252460
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCACCCACGTCACCTTTGGAAGATGCCCTGTCCAACGTGGACCTGCTGGAGGAACTGCCCTCCCAG
ACCAGCAGCCATGTATCGAGCCCCGCCATCCTCCATCATGTACCAGGCTAACTTTGACACGAACTTCGA
GGACAGGAATGCATTTGTACGGCATTGCAAGGTACATTGAGCAGGCAACGGTCCACTCCAGCATGAAT
GAAATGCTGGAGGAGGGCCACGACTATGCAGTCATGCTGTACACCTGGCGCAGCTGCTCCCGGGCCATCC
CGCAGGTGAAGTCAATGAGCAGCCAAATCGGGTTCGAGATCTACGAGAAGACGGTGGAGGTGCTGGAGCC
AGAGGTACCAAGCTCATGAAGTTCATGTACTTTAGCGCAAGGCCATCGAGCGCTTCTGTAGCGAGGTG
AAGCGGCTGTGTACGCTGAGCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTGCTGACGCTGGGCAAGT
TCATCAACATGTTTCGGGTCTTGGACGAGCTAAAGAACATGAAGTGCAGTGTCAAGAATGACCACTCTGC
CTACAAGAGAGCAGCACAGTTCCTAAGGAAGATGGCGGACCCCAAGTCCATCCAGGAATCTCAGAACCTG
TCCATGTTCTGGCCAATCACAACAGGATCACCCAGTGTCTTACCAGCAACTGGAAGTATCCCGGGCT
ATGAGGAGCTGCTGGCAGACATTGTCAACATCTGTGTTGATTACTATGAGAATAAGATGTACCTGACGCC
CAGTGAAAAGCACATGTTGCTCAAGGTGATGGGCTTTGGTCTCTATCTGATGGACGAAAATGTCAAGTAA
ATTTACAAACTGGATGCCAAGAAGAGAATCAACCTTAGCAAAAATTGATAAGTTTTTAAGCAGCTGCAGG
TGGTACCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTAAGACCAGTGCTCACTATGAAGA
GAACAAGTCCAAGTGGACATGCACTCAGAGCAGCATCAGCCCCAGTACAACATCTGTGAGCAGATGGTT
CAGATCCGGGATGATCACATCCGCTTCTCTCTGAGCTGGCTCGTACAGCAACAGCGAGGTGGTGACAG
GCTCAGGGCTGGACAGCCAGAAGTCGGATGAAGAGTACCGGGAGCTTTTTGACCTGGCCCTGCGAGGCC
GCAGCTTCTATCCAAGTGGAGTGCCTATGTCATGGAGGTGACTCTTGAAGCTGGTTACCCCCACAGAC
AAGTTCTGCAACAAGGACTGCCCGGCACCGCGGAAGAGTACGAGAGAGCCACGCGCTACAATTATACCA
CGGAGGAGAAGTTTGCCTTTGTGGAGGTGATTGCCATGATCAAGGGTTTGCAGGTGCTCATGGGAAGGAT
GGAGAGTGTCTTCAACCAGGCCATCCGCAACACTATCTACGCAGCCCTGCAGGATTTCCGCCAGGTGACG
CTCGGGAGCCGTTGCGCAAGCAGTTCGAAAGAAAAGAATGTCCTTATCAGCGTTCTGCAAGCAATTC



GAAAGACCATCTGTGACTGGGAGGGAGGCCGAGAGCCCCCAATGACCCATGCTTAAGAGGGGAGAAGGA
 CCCCAAAGGTGGCTTTGACATCAAGGTGCCCGCGTGTGTGGTCCATCCAGCACACAGCTGTACATG
 GTGCGCACCATGCTTGAGTCACTCATCGCAGACAAGAGCGGCTCCAAGAAGACGCTCAGAAGCAGCCTGG
 ATGGCCCTATCGTCTTGCCATAGAGGACTTCCACAAGCAGTCTTCTTTTTACACACCTGCTTAACAT
 CAGCGAGGCTCTCAGCAGTGTGTGACCTCTCCAGCTCTGGTCCGAGAATCTTCTCGGAGTTGACC
 ATGGGCCGGCGAATCCAGTTCGGATTGAGATGTCCATGCCCTGGATTCTAACGGACCATATTCTGGAAA
 CCAAAGAACCTTCCATGATGGAGTATGTCCTCTACCCCTTGGATCTGTACAACGACAGCGCTACTATGC
 CCTCACCAAATTCAAAAAGCAGTTCCTGTATGACGAGATCGAAGCCGAGGTAAACCTGTGTTTTGATCAG
 TTTGTCTACAAGCTGGCTGACCAGATCTTCGCCTACTACAAGCCATGGCCGGCAGTGTCTGTGGATA
 AACGTTTTAGAGCTGAGTGAAGAATATGGGGTATCATACCGTACCCGCCATCCAACCCTACGAGAC
 ACTGCTGAAGCAGAGACATGTCCAGCTGTTGGGAGATCAATTGACTTGAACAGACTCATACCCAGCGG
 ATCTCTGCTGCCATGTACAAGTCTTGGACCAGGCCATCAGCCGCTTTGAGAGTGAAGACCTGACCTCCA
 TTGTGGAGCTGGAGTGGCTGTGGAGATTAACCGACTCACACCCGACTCCTCTGAAGCACATGACGCT
 AGACAGCTTCGATGCCATGTTCCGAGAAGCCAATCATAACGTGTCTGCCCTTACGGCCGCATCACCTG
 CATGTCTTCTGGAGCTGAACCTTGGACTTCTCCCAACTACTGTATAATGGATCCACAAACCCTTTG
 TCCGAAGTCCATCCCTTTCACCAAGAACCACAACGGGATAAGCCCGCCAAATGTCCAGCCTTATTACCT
 CTATGGATCCAAGCCTCTCAACATTGCCTACAGCCACATCTATAGCTCCTACCGGAACCTTTGTGGGGCC
 CCTCACTTCAAGACCATCTGCAGACTGTTGGGCTACCAGGGCATCGCTGTGGTATGGAGGAACTGCTGA
 AAATCGTCAAGAGCTTGCTCCAAGGCACCATCTGCAGTACGTGAAGACGCTCATAGAGGTGATGCCGAA
 AATCTGTGCTTTCCTCGGCACGAGTACGGCTCTCCAGGAATCTGGAGTTCTTCCACCACCAACTGAAG
 GACATCATCGAGTATGCAGAACTCAAACAGACGTGTTCCAGAGCCTCCGAGAGGTGGGCAACGCCATCC
 TGTTCTGCCTCCTCATAGAGCAAGCTCTGTCTCAGGAGGAAGTCTGTGATTTGCTCCATGCTGCACCCTT
 CAAAACATTCTGCCCGAGTCTACATCAAAGAGGGGGAGCGCCTGGAAGTCCGGATGAAGCGCCTCGAG
 GCCAAGTACGCCCACTTCACTGGTTCCTGATAGAGCGGCTGGGGACGCCTCAGCAAATCGCCATCG
 CTGCGGAGGGTGACCTGTGACCAAGGAGCGGCTCTGCTGCGGCCTGTCCATGTTTGAGGTATCCTGAC
 CCGAATCCGGAGCTACCTGCAGGACCCCATCTGGAGGGGCCGCCACCCACCAATGGCGTCATGCATGTG
 GATGAGTGTGGAGTTTACCAGGCTGTGGAGTGCATGCAGTTTGTCTACTGTATCCCTGTGGGGACCA
 ACGAGTTCACAGCTGAGCAGTGTTCGGTGACGGCTTGAAGTGGCCGGCTGCTCCATATTGTCTTGTCT
 GGGCCAGCAGCGCGCTTTGACCTGTTGACTTCTGTTATCATCTGCTGAAGGTGCAGAGGCAGGACGGG
 AAGGATGAGATCATTAAAGATGTGCTCTGAAGAAGATGGCTGACCGCATCAGGAAGTACCAGATCTTGA
 ACAATGAGTTTTTGGCCATCCTGAACAAGTACATGAAGTCTGTAGAGACAGACAGTTCACCGTAGAGCA
 TGTGCGCTGCTTCCAGCCCCAATCCACCAGTCATTGGCCACCACCTGC TAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_001252460

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.

RefSeq: [NM_001252460.1](#), [NP_001239389.1](#)

RefSeq Size: 6677 bp

RefSeq ORF: 3762 bp

Locus ID: 76884

UniProt ID: [Q5SQX6](#)

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 (3) has an additional segment in the 5' UTR, compared to variant 1. Variants 1-3 encode the same protein.