

Product datasheet for RC217082

CYFIP2 (NM_014376) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CYFIP2 (NM_014376) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | CYFIP2 |
| Synonyms: | EIEE65; PIR121 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC217082 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCACGCACGTCACCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTTGAAGAGCTTCCCCTCCCCG
ACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCATGTACCAGGCTAACTTTGACACAAAATTTGA
GGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCAGGCTACAGTCCACTCCAGCATGAAT
GAGATGCTGGAGGAAGGACATGAGTATGCGGTCATGCTGTACACCTGGCGCAGCTGTTCCCGGGCCATTC
CCCAGGTGAAATGCAACGAGCAGCCCAACCGAGTAGAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCC
GGAGGTCACCAAGCTCATGAAGTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGCAGCGAGGTG
AAGCGGCTGTGCCATGCCGAGCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTCCTGACCCTTGGAAGT
TCATCAACATGTTTGTCTCCTGGATGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCACTCTGC
CTACAAGAGGGCAGCACAGTTCTCTGCGGAAGATGGCAGATCCCCAGTCTATCCAGGAGTCGAGAACCTT
TCCATGTTCTCTGGCCAACCACAACAGGATCACCCAGTGTCTCCACCAGCAACTTGAAGTGATCCCAGGCT
ATGAGGAGCTGCTGGCTGACATTGTCAACATCTGTGTGGATTACTACGAGAACAAGATGTACCTGACTCC
CAGTGAGAAAACATATGCTCCTCAAGGTGATGGCCTTTGGCCTCTACCTAATGGATGGAAAATGTCAGTAAC
ATTTACAACCTGGATGCCAAGAAGAGAATTAATCTTAGCAAAATGATAAATCTTTAAGCAGCTGCAGG
TGTTGCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTAAGACCAGTGCTCACTATGAAGA
GAACAAGTCCAAGTGGACGTGCACCCAGAGCAGCATCAGCCCCAGTACAATATCTGCGAGCAGATGGTT
CAGATCCGGGATGACCACATCCGCTTCTCTCCGAGCTCGCTCGTACAGCAACAGTGAGGTGGTGACGG
GCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGCGAGCTCTTCGACCTAGCCCTGCGGGTCT
GCAGCTTCTATCCAAGTGGAGCGCCACGTCATGGAGGTGACTCTTGGAAAGCTGGTTTATCCCACAGAC
AAGTTCTGCAACAAGGACTGTCTGGCACCGGGAGGAATATGAGAGAGCCACACGCTACAATTACCA
GTGAGGAAAAATTTGCCTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTGCTCATGGCCAGGAT
GGAGAGCGTCTCAACCAGGCCATCAGGAACACCATCTACGCGGATTGCAGGACTTCGCCAGGTGACG



CTGCGTGAGCCCCTGCGGCAGGCGGTACGGAAGAAGAAGTGTCTCATCAGCGTCTACAGGCAATTC
GAAAGACCATCTGTGACTGGGAGGGAGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGA
CCCCAAAGGTGGATTTGATATCAAGGTGCCCGGCGTGTGTGGGGCCATCCAGCACACAGCTGTACATG
GTGCGGACCATGCTTGAATCACTCATTGCAGACAAAAGCGGCTCCAAGAAGACCCTGAGGAGCAGCCTGG
ATGGACCCATTGTCTCGCCATAGAGGACTTTCACAAACAGTCTTCTTTCACACATCTGCTCAACAT
CAGTGAAGCCCTGCAGCAGTGTGTGACCTCTCCAGCTCTGGTCCGAGAATTCCTCTGGAGTTAACC
ATGGGCCGACGAATCCAGTTCGCCATCGAGATGTCCATGCCCTGGATTCTAACGGACCATATCTGGAAA
CCAAAGAACCCTTCCATGATGGAGTATGTCTCTACCCCTCTGGATCTGTACAACGACAGCGCCTACTATGC
TCTGACCAAGTTTAAAAAGCAGTTCCTGTACGATGAGATAGAAGCTGAGGTGAACCTGTGTTTTGATCAG
TTTGTCTACAAGCTGGCAGACCAGATCTTTGCTTACTACAAAGCCATGGCTGGCAGTGTCTGTTGGATA
AACGTTTTTCGAGCTGAGTGAAGAATTATGGCGTCATCATTCCGTATCCACCGTCCAATCGCTATGAAAC
ACTGCTGAAGCAGAGACAGTCCAGCTGTTGGGTAGATCAATTGACTTGAACAGACTCATTACCCAGCGC
ACCTCTGCCGCCATGTATAAATCCTTGGACCAAGCTATCAGCCGCTTTGAGAGTGAGGACCTGACCTCCA
TTGTGGAGCTGGAGTGGCTGCTGGAGATTAACCGGCTCACGCATCGGCTGCTCTGTAAGCATATGACGCT
GGACAGCTTCGATGCCATGTTCCGAGAGGCCAATCACAATGTGTCCGCCCTATGGCCGTATCACCTG
CATGTCTTCTGGGAAGTGAACCTTGGACTTCTCCCAACTACTGTACAATGGGTCCACTAACCGTTTTG
TGGGACTGCCATTCTTTCACCAAGAACCACAAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCT
CTATGGATCCAAGCCTCTCAACATTGCCTACAGCCACATCTACAGCTCCTACAGGAATTTTCGTGGGGCCA
CCTCATTTCAAGACTATCTGCAGACTCTGGGTTATCAGGGCATCGCTGTGGTATGGAGGAAGTCTAA
AGATTGTGAAGAGCTTGTCCAAGGAACCATCTCCAGTATGTGAAAACACTGATAGAGGTGATGCCCAA
GATATGCCGCTTGCCCGACATGAGTATGGCTCCCAGGGATCCTGGAGTCTTCCACCACCAGCTGAAG
GACATCATTGAGTACGCAGAGCTCAAAACAGACGTGTTCCAGAGCCTGAGGGAAGTGGGCAATGCCATCC
TCTTCTGCCTCCTCATAGAGCAAGCTCTGTCTCAGGAGGAGTCTGCGATTTGCTCCATGCCGACCCCT
CCAAAACATCTTGCCCTAGAGTCTACATCAAAGAGGGGGAGCGCCTGGAGGTCCGGATGAAACGTCTGGAA
GCCAAGTATGCCCGCTCCACCTGGTCCCTCTGATCGAGCGGCTGGGGACCCCTCAGCAAATCGCCATTG
CTCGCGAGGGTGACCTCCTGACCAAGGAGCGGCTGTGCTGTGGCCTGTCCATGTTTCGAGGTATCCTGAC
CCGCATTCGGAGTACCTGCAGGACCCCATCTGGCGGGGCCACC GCCACCAATGGCGTCATGCACGTC
GATGAGTGTGGAGTTCACCGGCTGTGGAGCGCATGCAGTTCGTGTACTGCATCCCTGTGGAAACCA
ACGAGTTCACAGCTGAGCAGTGTTCGGCGATGGCTTGAAGTGGCTGGTGTCTCCATCATTGCTCCTGCT
GGGCCAGCAGCTCGCTTTGACCTGTTGACTTCTGTTACCACCTGCTAAAAGTGCAGAGGCAGGACGGG
AAGGATGAAATCATTAAAGATGTGCCCTGAAGAAGATGGCCACCGGATCAGGAAGTATCAGATCTTGA
ACAATGAGGTTTTTGCCATCCTGAACAAATACATGAAAGTCCGTGGAGACAGACAGTTCCTACTGTGGAGCA
TGTGCGCTGCTTCCAGCCACCCATCCACCAGTCTTGGCCACCATTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RC217082 protein sequence
 Red=Cloning site Green=Tags(s)

```

MTTHVTLEDALSNVDLLEELPLPDQQPCIEPPSSIMYQANFDTNFEDRNAFVTGIARYIEQATVHSSMN
EMLEEGHEYAVMLYTWRSRRAIPQVKCNEQPNRVEIYEKTVLEVEPEVTKLMKFMFQRKAIERFCSEV
KRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCSVKNDHSAYKRAAQFLRKMADPQSIQESQNL
SMFLANHNRIITQCLHQQLEVIPGYEELLADIVNICVDYENKMYLTPSEKHMLLKVMGFGLYLDGNSV
IYKLDAKKRINLSKIDKFFKQLQVPLFGDMQIELARYIKTSAHYEENKSKWTCTQSSISPOYNICEQMV
QIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYVSWKLVHPTD
KFCNKDKCPGTAEEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVT
LREPLRQAVRKKKNVLSVLAIRKTI CDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYM
VRTMLES LIADKSGSKTLRSSL DGPVLAIEDFHKQ SFFFTHLLNI SEALQCCDLSQLWFREFFLELT
MGRRIQFPIEMSPWILTDHILETKEPSMMEYVLYPLDLYND SAYYALTKFKKQFLYDEIEAEVNLCFDQ
FVYKLDADQIFAYYKAMAGSVLLDKRFRAECKNYGVIIPYPPSNRYETLLKQRHVQLLGRSIDLNRITQR
TSAAMYKSLDQAISRFESEDLTSIVLEWLLEINRLTHRLLCKHMTLDSFDAMFREANHNVSAPYGRITL
HVFWELNDFL PNYCYNGSTNRFVRTAIPFTQEPQDKPANVQPYLYGSKPLNIAYSHIYSSYRNFVGP
PHFKTICRLLGYQGI AVVMEELLKIVK SLLQGTILQYVKT LIEVMPKICRLPRHEYGSPGILEFFHHQLK
DIIEYAE LKTDV FQSLREVGNA ILFCLLIEQALSQEEVCDLLHAAPFQNILPRVYIKEGERLEVRMKRLE
AKYAPLHLVPLIERLGT PQQIAIAREG DLLTKERLCCGLSMFEVILTRIRSYLQDPIWRGPPPTNGVMHV
DECVEFHRLWSAMQFVYCI PVGTNEFTAECQCFGDGLNWAGCSII VLLGQQRRFDLDFCYHLLKVKQRQDG
KDEI IKNVPLKKMADRIRKYQILNNEVFAILNKYMKSVETDSSTVEHVRCFQPPIHQSLATTC
  
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6713_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

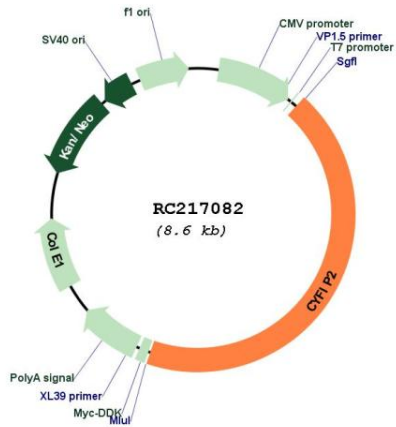


ACCN: NM_014376

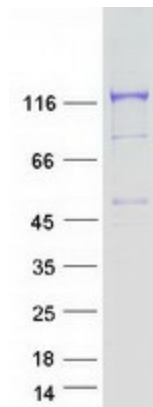
ORF Size: 3759 bp

| | |
|-------------------------------|---|
| OTI Disclaimer: | 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 |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| 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: | NM_014376.1 , NP_055191.1 |
| RefSeq Size: | 6625 bp |
| RefSeq ORF: | 3762 bp |
| Locus ID: | 26999 |
| UniProt ID: | Q96F07 |
| Cytogenetics: | 5q33.3 |
| Protein Pathways: | Regulation of actin cytoskeleton |
| MW: | 145.7 kDa |
| 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] |

Product images:



Circular map for RC217082



Coomassie blue staining of purified CYFIP2 protein (Cat# [TP317082]). The protein was produced from HEK293T cells transfected with CYFIP2 cDNA clone (Cat# RC217082) using MegaTran 2.0 (Cat# [TT210002]).