

## Product datasheet for **RC240089**

### CYFIP2 (NM\_001291722) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CYFIP2 (NM_001291722) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYFIP2
Synonyms:	EIEE65; PIR121
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240089 representing NM_001291722 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCACGCACGTCACCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTGAAGAGCTTCCCCTCCCCG  
ACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCATGTACCAGGCTAACTTTGACACAACTTTGA  
GGACAGGAATGCATTTGTACGGCATTGCAAGGTACATTGAGCAGGCTACAGTCCACTCCAGCATGAAT  
GAGATGCTGGAGGAAGGACATGAGTATGCGGTCATGCTGTACACCTGGCGCAGCTGTTCCCGGGCCATTC  
CCCAGGTGAAATGCAACGAGCAGCCCAACCGAGTAGAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCC  
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TCATCAACATGTTTGTCTGCTGGATGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCACTCTGC  
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GAAAGACCATCTGTGACTGGGAGGGAGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGA  
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**Protein Sequence:** >RC240089 representing NM\_001291722  
 Red=Cloning site Green=Tags(s)

MTTHVTLEDALSNVDLLEELPLPDQQPCIEPPSSIMYQANFDTNFEDRNAFVTGIARYIEQATVHSSMN  
 EMLEEGHEYAVMLYTWRSRRAIPQVKCNEQPNRVEIYEKTVVEVLEPEVTKLMKFMFYQRKAIERFCSEV  
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 IYKLDKAKRINLSKIDKFFKQLQVVPFLFGDMQIELARYIKTSAHYEENKSKWTCTQSSISPOYNICEQMV  
 QIRDDHIRFISELARYSNSEVVTGSGLDSDQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYVSWKLVHPTD  
 KFCNKDCPGTAAEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVT  
 LREPLRQAVRKKKNVLSVLAIRKTI CDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAGVPSSTQACQ  
 WSPRALFHPTGGTQGRRCRSLLYMVRTMLESLIADKSGSKTLRSSLDGPIVLAIEDFHKQSFFTHLL  
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 YALTKFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLLDKRFRAECKNYGVIIPYPPSNRY  
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 TLDSDAMFREANHNVSAPYGRITLHVFWELNDFL PNYCYNGSTNRFVRTAIPFTQEPQRDKPANVQPY  
 YLYGSKPLNIAYSHIYSSYRNFVGPFFKTI CRLLGYQGI AVVMEEL LKIVKSL LQGTILQYVKTLIEVM  
 PKICRLPRHEYGSPGILEFFHHQLKDII EYAELKTDV FQSLREVGNAILFCLLIEQALSQEEVCDLLHAA  
 PFQNILPRVYIKEGERLEVRMKRLEAKYAPLHLVPLIERL GTPQQIAIAREGDL LTKERLCCGLSMFEVI  
 LTRIRSYLQDPIWRGPPPTNGVMHVDECFVHRLWSAMQFVYCI PVGTNEFTA EQCFGDGLNWAGCSIIV  
 LLGQRRFDLDFCYHLLKVRQDQKDEI IKNVPLK KMADRIRKYQILNNEVFAILNKYMKSVETDSSTV  
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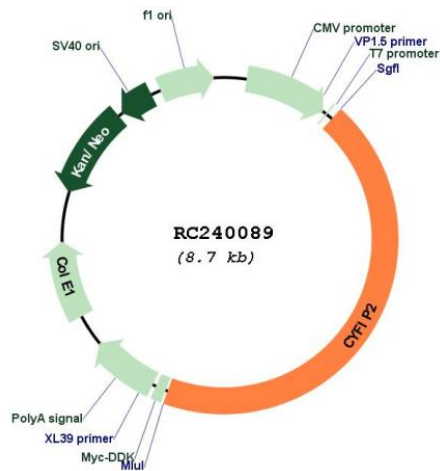
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001291722

ORF Size: 3834 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:

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\\_001291722.2](#)

RefSeq Size: 6574 bp

RefSeq ORF: 3837 bp

Locus ID: 26999

UniProt ID: [Q96F07](#)

Cytogenetics: 5q33.3

**Protein Pathways:** Regulation of actin cytoskeleton

**MW:** 148.8 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]