

Product datasheet for **MC206672**

Cyfp1 (BC054429) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyfp1 (BC054429) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyfp1
Synonyms:	P140SRA-1, Sra-1, mKIAA0068
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC054429

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CGCAGACCAGGATGGCTGCCAAGTGACACTAGAGGACGCACTGTCCAATGTGGACCTCCTGGAGGAGCT
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CACTTGATAAATTCAGTGAAACACTGCAGCAGTGCTGTGACCTTTCCCAGCTGTGGTCCGAGAGTTCT
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 CATAATACCAACTAATTGTATTAATAAAAAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI

ACCN: BC054429

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).

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: [BC054429](#), [AAH54429](#)

RefSeq Size: 4116 bp

RefSeq ORF: 3762 bp

Locus ID: 20430

Cytogenetics: 7 B5

Gene Summary: Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit is an adapter between EIF4E and FMR1. Promotes the translation repression activity of FMR1 in brain probably by mediating its association with EIF4E and mRNA (By similarity). Regulates formation of membrane ruffles and lamellipodia. Plays a role in axon outgrowth. Binds to F-actin but not to RNA. Part of the WAVE complex that regulates actin filament reorganization via its interaction with the Arp2/3 complex. Actin remodeling activity is regulated by RAC1. Regulator of epithelial morphogenesis. May act as an invasion suppressor in cancers. As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (PubMed:27605705).[UniProtKB/Swiss-Prot Function]