

Product datasheet for **MR217769**

Cyfp2 (NM_133769) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyfp2 (NM_133769) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyfp2
Synonyms:	1500004I01Rik; 6430511D02Rik; AA930218; AU022376; mKIAA1168; Pir121
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217769 representing NM_133769 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCACCCACGTCACCTTTGGAAGATGCCCTGTCCAACGTGGACCTGCTGGAGGAAGTCCCCCTCCAG
 ACCAGCAGCCATGTATCGAGCCCCGCCATCCTCCATCATGTACCAGGCTAACTTTGACACGAACCTCGA
 GGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCAGGCAACGGTCCACTCCAGCATGAAT
 GAAATGCTGGAGGAGGGCCACGACTATGCAGTCATGCTGTACACCTGGCGCAGCTGCTCCGGGCCATCC
 CGCAGGTGAAGTGCAATGAGCAGCCCAATCGGGTCGAGATCTACGAGAAGACGGTGGAGGTGCTGGAGCC
 AGAGGTACCAAGCTCATGAAGTTCATGTACTTTACGCGCAAGGCCATCGAGCGCTTCTGTAGCGAGGTG
 AAGCGGTGTGTACGCTGAGCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTGTGACGCTGGGCAAGT
 TCATCAACATGTTTCGCGGTCTTGGACGAGCTAAAGAACATGAAGTGCAAGTGTCAAGAATGACCACTCTGC
 CTACAAGAGAGCAGCAGATTCTTAAGGAAGATGGCGGACCCCAAGTCCATCCAGGAATCTCAGAACCTG
 TCCATGTTCTTGCCAATCACAAAGGATCACCCAGTGTCTTACCAGCAACTGGAAGTGATCCCGGGCT
 ATGAGGAGCTGCTGGCAGACATTGTCAACATCTGTGTTGATTACTATGAGAATAAGATGTACCTGACGCC
 CAGTGAAGACACATGTTGCTCAAGGTGATGGGCTTTGGTCTCTATCTGATGGACGAAATGTCAGTAAC
 ATTTACAACTGGATGCCAAGAAGAGAATCAACCTTAGCAAAATTGATAAGTTTTTAAGCAGCTGCAGG
 TGGTACCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTAAGACCAAGTGCTCACTATGAAGA
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 CAGATCCGGGATGATCACATCCGCTTCTCTGAGCTGGCTCGCTACAGCAACAGCGAGGTGGTGACAG
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 GCAGCTTCTATCCAAGTGGAGTGCCCATGTCTGAGGTGTACTTTGGAAGCTGGTTACCCCCACAGAC
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 GGAGAGTGTCTCAACAGGCCATCCGCAACACTATCTACGCAGCCCTGCAGGATTCGCCAGGTGACG


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CTGCGGGAGCCGTTGCGGCAAGCAGTTCGAAAGAAAAAGAATGTCCTTATCAGCGTTCTGCAAGCAATTC
 GAAAGACCATCTGTGACTGGGAGGGAGGCCGAGAGCCCCCAATGACCCATGCTTAAGAGGGGAGAAGGA
 CCCCAAAGGTGGCTTTGACATCAAGGTGCCCGCCGCTGCTGTGGGTCCATCCAGCACACAGCTGTACATG
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 CTCGGGAGGGTGACCTGCTGACCAAGGAGCGGCTCTGCTGCGGCTGTCCATGTTTGAGGTATCCTGAC
 CCGAATCCGGAGCTACCTGCAGGACCCCATCTGGAGGGGGCCGCCACCCACCAATGGCGTCATGCATGTG
 GATGAGTGTGGAGTTTACCGGCTGTGGAGTGCATGCAGTTTGTCTACTGTATCCCTGTGGGGACCA
 ACGAGTTCACAGCTGAGCAGTGTTCGGTGACGGCTTGAAGTGGCCGGCTGCTCCATCATTGTCTTGCT
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 TGTGCGCTGCTTCCAGCCCCAATCCACCAAGTATTGGCCACCACCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217769 representing NM_133769
 Red=Cloning site Green=Tags(s)

MTTHVTLEDALSNVDLLEELPLPDQQPCIEPPSSIMYQANFDTNFEDRNAFVTGIARYIEQATVHSSMN
 EMLEEGHDYAVMLYTWSCSRAIPQVKCNEQPNRVEIYEKTVLEVEPTKLMKMYFQKAIERFCSEV
 KRLCHAERRKDFVSEAYLLTLGKFINMFAYLDELKNMKCSVKNDHSAYKRAAQFLRMADPQSIQESQNL
 SMFLANHNRIQTCLHQLEVIPGYEELLADIVNICVDYENKMYLTPSEKHMLLKVMGFLYLMGDNVSN
 IYKLDKAKRINLSKIDKFFKQLQVPLFGDMQIELARYIKTSAHYEENKSKWTCTQSSISPQYNICEQMV
 QIRDDHIRFISELARYSNSEVVTGSGLDQSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKL VHPTD
 KFCNKDCPGTAAEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVT
 LREPLRQAVRKKKNVLISVLQAIKRTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSQLYM
 VRTMLES LIADKSGSKTLRSSLDGPVLAIEDFHKQSFFFTHLLNISEALQCCDLSQLWFREFFLELT
 MGRRIQFPIEMSPWILTDHILETKEPSMMEYVLYPLDLYNDSAYYALTKFKKQFLYDEIEAEVNLCFDQ
 FVYKLADQIFAYYKAMAGSVLLDKRFRAECKNYGVIIPYPPSNRYETLLKQRHVQLLGRSIDLNLITQR
 ISAAMYKSLDQAISRFESDLTSIVLEWLLEINRLTHRLCKHMTLDSFDAMFREANHNVSAPYGRITL
 HVFWELNFDLPNYCYNGSTNRFVRTAIPFTQEPQDKPANVQPYLYGSKPLNIAYSHIYSSYRNFGVP
 PHFKTICRLLGYQGIAYVMEELLKIVKSLQGTILQYVKTLEIEMPKICRLPRHEYGSPGILEFFHHQLK
 DIIEYAEKTDVFSQSLREVGNAILFCLLIEQALSQEEVCDLLHAAPFQNILPRVYIKEGERLEVMRKLE
 AKYAPLHLVPLIERLGTQQIAIAREGDLTKERLCCGLSMFEVILTRIRSYLQDPIWRGPPPTNGVMHV
 DECVEFHRLWSAMQFVYCIPVGTNEFTAECQFGDGLNWAGCSIIVLLGQQRFFDLDFCYHLLKVQRQDG
 KDEI IKNVPLKKMADRIRKYQILNNEVFALNKYMKSVETDSSSTVEHVRCFQPPIHQSLATTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9046_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

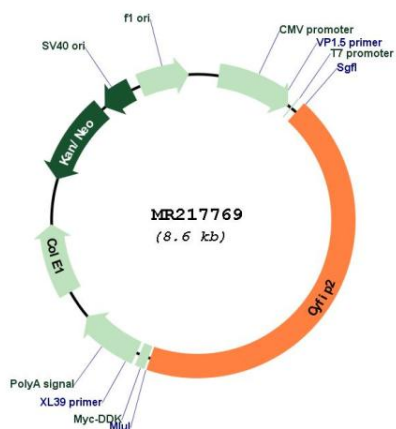


ACCN: NM_133769

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:	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:	NM_133769.3 , NP_598530.2
RefSeq Size:	6352 bp
RefSeq ORF:	3762 bp
Locus ID:	76884
UniProt ID:	Q5SQX6
Cytogenetics:	11 B1.1
MW:	146.1 kDa
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]

Product images:



Circular map for MR217769