

Product datasheet for **MG217769**

Cyfp2 (NM_133769) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyfp2 (NM_133769) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyfp2
Synonyms:	1500004I01Rik; 6430511D02Rik; AA930218; AU022376; mKIAA1168; Pir121
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217769 representing NM_133769 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCACCCACGTCACCTTTGGAAGATGCCCTGTCCAACGTGGACCTGCTGGAGAACTGCCCTCCCAG
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GAAATGCTGGAGGAGGGCCACGACTATGCAGTCATGCTGTACACCTGGCGCAGCTGCTCCGGGCCATCC
CGCAGGTGAAGTCAATGAGCAGCCCAATCGGGTCGAGATCTACGAGAAGACGGTGGAGGTGCTGGAGCC
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CTACAAGAGAGCAGCACAGTTCCTAAGGAAGATGGCGGACCCCCAGTCCATCCAGGAATCTCAGAACCTG
TCCATGTTCTCGGCAATCACACAGGATCACCCAGTGTCTTACCAGCAACTGGAAGTGATCCCGGGCT
ATGAGGAGCTGCTGGCAGACATTGTCAACATCTGTGTTGATTACTATGAGAATAAGATGTACCTGACGCC
CAGTAAAAAGCACATGTTGCTCAAGGTGATGGCTTTGGTCTCTATCTGATGGACGAAAATGTCAGTAAC
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TGTGCGCTGCTTCCAGCCCCAATCCACCAGTCATTGGCCACCACCTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG217769 representing NM_133769
 Red=Cloning site Green=Tags(s)

MTTHVTLEDALSNVDLLEELPLPDQQPCIEPPSSIMYQANFDTNFEDRNAFVTGIARYIEQATVHSSMN
 EMLEEGHDYAVMLYTWRSRRAIPQVKCNEQPNRVEIYEKTVLEVLEPEVTKLMKFMFYQRKAIERFCSEV
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 SMFLANHNRIQTCLHQQLEVIPGYEELLADIVNICVDYENKMYLTPSEKHMLLKVMGFGLYLMDGNVSN
 IYKLDAAKRINLSKIDKFFKQLQVVPVPLFGDMQIELARYIKTSAHYEENKSKWTCTQSSISPOYNICEQMV
 QIRDDHIRFISELARYSNSEVVTGSGLDSSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKL VHPTD
 KFCNKDCPGTAAEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVT
 LREPLRQAVRKKKNVLISVLQAIRKTI CDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRVRGSPSTQLYM
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 AKYAPLHLVPLIERLGT PQQIAIAREGDLLTKERLCCGLSMFEVILTRIRSYLQDPIWRGPPPTNGVMHV
 DECVEFHRLWSAMQFVYCI PVGTNEFTAECQCFGDGLNWAGCSII VLLGQQRFFDLDFCYHLLKVQRQDG
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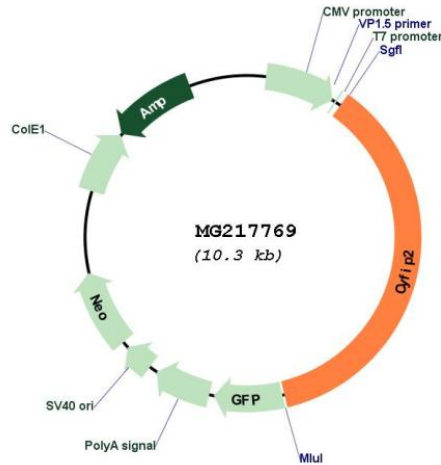
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


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.

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

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]