

## Product datasheet for **MG213599**

### Cfap70 (NM\_029698) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cfap70 (NM_029698) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cfap70
Synonyms:	Ttc18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG213599 representing NM_029698 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCAGACGTCAAGCACAACGAAAATTGTGCACATTACTGTGACAAATGGATATGATTTGAAAGGCT  
TCAAAGGAGACACCCAGTTACTTTTGTCCGTGCAGAATTCACCCAGACAGTTCTTGAGACTCTTCAA  
AGTCACTGTCTCTCCCGAAGGAAGTCAAAAGTACAACCTTACTAGCAACATTGACCTCAGCCAGATGGA  
GGCGGTGCCTTAGATGACCTCGCCACAAGCCTTATTCTAACGGTGACTGAAGTTTGCCAAAGGAAA  
AGAAACAGAAAGATGAAAAGACCTTAATCTTGCCCAAGCTGTGGTGGATCTTCTCCTTACTAGAAGG  
AGAGGAGTCAATTTGAAACAACGGTCCCATTACACCCTGTGCCTGGGTACCCCTTGAAAACCTTTGCCA  
GGCTCTAAGCAATGCAGTCTTGATGTGAAGGATTTTGTGGCCGAGCCCTTATTGACCCAGCCAGGCTCT  
CAGCGAGCAATCTACTGAAGGTCACTGGAGGCCCTACTCTGTGCCGAGTCTTACATACCAGTAGG  
GCCTCAGCAGAATACATGGTCCGTCTGCAGGTCCCATCAGTCGGAGAGAAGGACTACACTATGATATTC  
AAGAATGGAAATCTGAAGCTTGGAGGGGAAAAAGAACCTGTTCCCGGCCAAAAATGGCCATTGCTA  
ACATTCTAGCTCCAGGAGCTAGTAACATTCCTGACGAATTCATTGTGGGGGTCCCTATGAGGAAGAAGA  
AGGAGAATCAACCACCCTGAGGACAGGGAATTTAGGAACCAAGCCGAATGCACGAAGAAGAGGATTGTC  
TGGGATTTGAAAGCCGCTGCTTCTCCATCCTTTTGGCGTTCGAAGTTTTCAGAAGCGAATTGCTGATT  
GCCGACTCTGGCCTGTGGAGATCACAAAGTGCCTTTGGTCGTTATGCCAAAAGCCAAACCAGGAAAAT  
TGAGAAGATCGATGATGAAAACAGCTTTCCTTTCATGGTGTGGCTTACATCAACATGGTCCCACTCCTG  
TATCCAGGAGTGAAGAAGATAAGAGGGGCTTTTCATGTGTACCCCTACCTGGATGGGACAGTCTTCGAAA  
AGACCAAGTGCTTGTTCAGCTTATTTCAGGGACTGGGCACCATTTGGTCCAAAAATAATAAGCAGGGGG  
ACTTAACCTCTCCACTGTCCAAACCTCTCTCAAGAATCTGAAAGAAGAGAAAACCAGGAAAGACAAGGAC  
ACAGAAGGACGGCCTCGGCTTGGAGAGCTGCAAGCGCCTAGTATAAAATCACAGAGCTCAGACCCCTT  
TGGAAAGTGAAGCCCCCTGAGCCACAACCTTGAAGGACAGCAATACATAGAAGCGGGAACATACATTGT  
CCTGGAGATCCAGCTGAAAAAGCCCTGGTTCCAAAGCGGATGCCAGAGGAACTGGCCAGAAGGGTCAAG



[View online >](#)

GAAATGATACCCCGAGGCCACCTCTCACTCGCCGACAGGGGGCGCTCAGAAGGCTGTGAGTGACTACC  
 ACACGCAGATCAAGGCATTTCTAGAGCCATACTCAATGAATACTACCGCATGTTTGGGAAGCAAGGGCC  
 TAAACTGGAGAGTGACATAGACAACGAGACCATGGAGGAGCGGAAGTGTGAGCTCAACTATGAGCTCAAT  
 TGCTCTGGAAAGTACTTTGCTTTCAAAGAACAGCTCAAGCATGCTGTGTAAGATTGTGAGAGAGAAAT  
 ACTTGAAGACAACAGCATTGAAAGCCAGGAGGAACTGCAGACATTTATCAGTGAGCTGTATGTGTTCTT  
 GGTAGATCAAATGCATGTGGCCCTGAACCAGGCCGTCCCGGATGATGTCCCAAGCAGTACCTCAACCATT  
 CAGACAAGCAGCGAGCAGCTCCGACTCTTTGCGTTTTGAGGCAGAAGTCAATGAGAAGTTGAAATGACAG  
 CAATGTATTATGAAGAGAGGTTGGTTCCGGAGCCCGAGAACCTGGAAAAGTGGCTGGATTACGGCGCTTT  
 CTGTCTCCTCACTGAAGACAACATCAAAGCGCAGGAATGTTTCCGAAAAGCCCTTCTCTGAATGAGAGT  
 CACGTTGACAGCTTGTGCTGTGTGGTGTCTGGCTATCTTGTGGAGAATATGAGCAAGCAGAAATCT  
 TCTTTGAGGATGCTACATGCTTGGAAACCCACCAATGTTATTGCCTGGACTTTACTCGATTGTTCTATGA  
 AATTGAGAATAATGATATTCGAATGAAATGGCATTTCATGAGGCCTTCAAACAGCTTACGGCGCGAACC  
 CTCAAACAAAGCTAAAAGCACTGTGACCATAGAGAACATGGAGGAAGGAGTAAAAGTGGAGCCCAGCT  
 TTGGCCCTTGGGAGTCTACAGGAGTCCACCACAGCCATCAAACGGAAGGCCTATCAGGGATGAGACC  
 CCAGAGCTCACACCAGCTGAGTCTCACACCAACATGGAAGTGCATCCTCAGCCCAAGGACCAAACT  
 GCTTTGTCAGTCTAGACGAGTTTTTGGAGAATCGCCTAAGGCCAGTCTGAGTACAGGAGCCAAATGG  
 CCACTGGGCGACCTCTGGAGCCTTCCCTGGTCCAGAGATCATCCAATGCACTGTTAAAGGAGCTGACGTC  
 AAAGAAAGATATATAAAATGCCAAGATTCATCAGCCTTTTCCCTCCTACCCAGCACGTTATTGCCAG  
 CCTCCTGTGACGATCTTCATGGAACCATTGCTTCTTGTGAGGTTCAACGCTGTACAGTTTGTGCACA  
 GAGTGTGGCAGATGAGCTGTGTGCCCAAGGAGGACCCAGTTGTGAGTATTATCTGGTTCTGGCCCA  
 GACACATCTTCTCAAGAAGGACTTTGCCAAGACAGAGGAGTACCTGCAGCAAGCAGCACAGATGGACTAC  
 CTGAACCCATAATGTCTGGGTGTGAAGGCCATCTACTTCTGAGTGGAAACCATGCTGAGGCCAAAG  
 AATGCTATGAGAGAATATTAGTTTTGTAGTTGATGCTTCTGAGATGCACTTCTCTACGCTGGG  
 ACACATCTACTTGAAGAGAAAAGAGTATGAAAACGCAAAGAGAAGTACATGCATGCCTGTAAAGAGATCA  
 CCTTCGTGCCTCACTTGGCTAGGACTAGGATTGCCTGTTACCGCTGGAGGAGCTCACGGAAGCTGAGG  
 ATGCTCTGTCTGAAGCCAACGCTTGAATAACTGCAACGCCAAGTGTGGGCCTATCTGGCTCTGCTG  
 CCTGAAAGTTGGACGACAACCTGGAAGCAGAGCAGGCTTATAAGTACACAATAAAGCTGAAACTGAAAGAC  
 CAGGCTCTACTTGAAGAAATCCACTGTACAGGAAATGGTTGGTTTTGAAATCCATCTTTC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG213599 representing NM\_029698  
 Red=Cloning site Green=Tags(s)

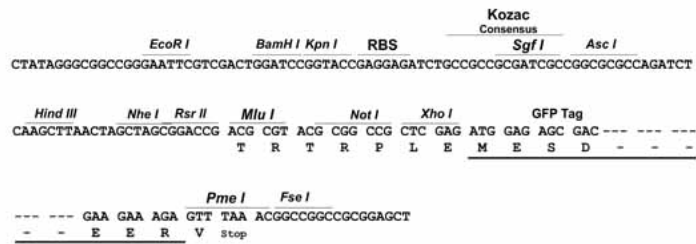
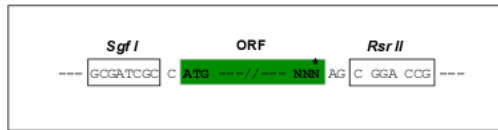
MDQTSSTTKIVHITVTNGYDLKGFKGDTPVTFVRAEFNQTVLGDSSKVTVSPEGTAKYNFTSNIDLSPDG  
 GGDLDLHAKPLFLTVTEVLPKEKKQKDEKTLILGQAVVDLLPLLEGEESFETTVPVLPVPGSPLETPLP  
 GSKQCSLDVVKVFAEPLLTPAQVSASNLLKVTLEAAYSVPESFIPVGPQQNYMVLQVPSVGEKDYTMIF  
 KNGNLKLGGEKEPVPRPKWPIANILAPGASNIPDEFIVGGPYEEEEGELNHPEDREFRNQAECKKRIV  
 WDLESRCFLHPFVAVASFQKRIADCRLWPVEITRVPLVVMKPKPKLEKIDDENQLSFHGVAYINMVPLL  
 YPGVKIRGAFHVPYLDGTVFEKTKCLFSLFRDTGHHLVQNNKAGGLNSPLSKPLSKNLKEEKPGDKD  
 TEGRPRLGELQAPSIKSSSDTPESEAPLSHNLEGGQYIEAGTYIVLEIQLEKALVPKRMPPEELARRVK  
 EMIPPRPPLTRRTGGAQKAVSDYHTQIKSISRILNEYRMRFGKQPKLESIDNETMEERKQCLNYELN  
 CSGKYFAFKEQLKHAVVKIVREKYLKTTAFESQEELQTFISELYVFLVDQMHALNQAVPDDVPSSTSTI  
 QTSSEQLRIFAFAEAEVNEKFEIAAMYEEERLVREPQNLNWLVDYGFCLLTEDNIKAQECFRKALSLNES  
 HVDSLILCGVLAILLNENYEQAEIFFEDATCLEPTNVIAWTLLGLFYEQNNDIRMEMAFHEAFKQLQART  
 LQTKLKSTVTIENMEEGVKVEPSFGPWGVVQESTTAIKTEGLSGMRPQSSHQLSPHTNMELHPQPQGPNT  
 ALSLDEFLEESPKAQSESQEPMATGQPLEPSLVQRSSNALLKELTSKDDISKCDSSAFSPPTQHVIAQ  
 PPVTIFMETIRFLMKVNAVQFVHRVLAHELLCPQGGPSCEYYLVLAQTHLLKKDFAKTEEYLQAAQMDY  
 LNPVWGVKGLYFLSGNHAEAKECYERTISFVVDASEMHFIFLRLGHIYLEEKEYENAKRTYMHACKRS  
 PSCLTWLGLGIACYRLEELTEAEDALSEANALNNCNAEVWAYLALVCLKVGRQLEAEQAYKYTIKLLKLD  
 QALLEEIHVTQEMVGFGNPSF

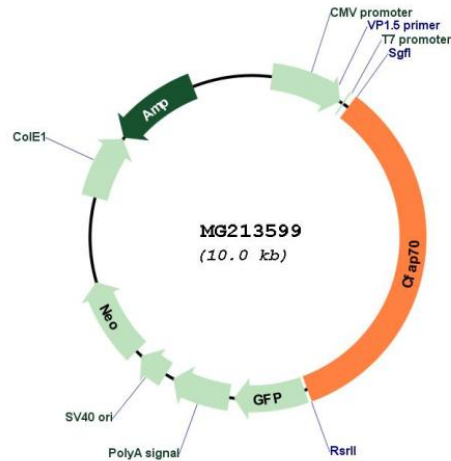
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_029698

**ORF Size:** 3423 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\\_029698.1](#), [NP\\_083974.1](#)

**RefSeq Size:** 3621 bp

**RefSeq ORF:** 3426 bp

**Locus ID:** 76670

**UniProt ID:** [D3YVL2](#)

**Cytogenetics:** 14 A3

**Gene Summary:** Axoneme-binding protein that plays a role in the regulation of ciliary motility and cilium length.[UniProtKB/Swiss-Prot Function]