

Product datasheet for **MG211268**

Cfap69 (NM_172447) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cfap69 (NM_172447) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Cfap69 |
| Synonyms: | 4921525K03; A330021E22Rik; AI427898 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG211268 representing NM_172447
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCACCGCGGAGGCCTCGGCCACCACGGCCGACGCCGCCGAGCGGGCGGCAGGACGAAGACCGGCA
 GTCCCGCACAAATCCCGGTGTTTGGGGTGGCGATCCCGGATGGGAGATGCAGGGTATTTTCAAGCCTAT
 GGACCTTAATCGTATCATCAAAGTCCTGAAGAGGAGGATAAGGATGTCTCAGAAGAAAAACAATTAAT
 TATATCAAGAACTGATACACTGCTATCAGAATGGATTTCTCTAAGAGATTTGGCACAGATATTTAAAA
 TTCTGAGTCTGTGTGCAGAAAAATTGAAAAGCAGCCCTGTTTTGTAGAACCCTGCATCTGACATCATAAA
 ATTATGTGGCTTGCCATTTTTGAAAAAGAAAGTATCGGATGAAATAACTTACACTGAAGATACTGCTAAT
 TCATTTGCACTTCTGGGTGAGTTAATGAAAATACCAAGTCTGCATTAAGGATACAAATTTGTAATGTA
 TTGTTGACTTCTATCATGCAGAACCATTAAGAAACATATCCAGGCTACCAGCAGGTGAGTTCATCCTA
 CAAGATTAATGTTAGAGGTGGTGGCTTGGCGAAGGCAATGGTCCAGTCGGCACTCCTGCTTGAGAAT
 CAGCTTGTGAGAAACTCTGGTTCTGAAAGTCCCTGCAGCATCTCTACTTCTGGAGTTAATTGCACTT
 TAATGGTGAAGCCCAAGCAGCCAGCGGAATCTGTGCTCACTCAATGACCCAGATCCCTCAGGACAGCT
 TTTATTTCTGTTTATCAGAAGTACTTTGGAATTTACTGGAAAACTTTCAAAGGAGGAAATATACAACAG
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 CCCTTGGTAAAAAGTCTTAAGCTTTTTAATTGCTATGAAGATTTGAGCTGAAGAAATTTTATTCAATA
 TAATTGTGATCTTATGTAAGATTTAGCTACTGTACAGCTATTAATCGATGGCAAAGTTATTTGGCTTT
 GTTTACCTATGTGAAAAAGCCTGAGAGACTCAAGATCATGGAGTGGTCTGCAGCACAGTATGAAGAACTA
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 CAG
 TTTCCATGGTACAGGCGGCCGTGAAACAAGTTCGCCAGATGCGTTACTCTACGGCTCCTCAGAGCC
 ATGTTTTATCTGGAAGATGAGACTGTGAACAAGGACCTTTGTGAGAGAGGGGTTATTCATCAACTGATAG
 AAATTTTTAAACTATGATGAGCAGACCTGCTGAGAAGGAAGAGGCCATTGCCTTAGAAATCCAGTCTGA
 CACATTACTTATCTGTCAGGTCTTTGTGAAAATATATCCAAAGGAAGGAAATTTTGGTACTGAAGGA
 GTTGACATAGTTCTTATGTAATGAAAACAGCCCAAGATTTACAGAGGGGTTTAGGCTACAATGTCC
 TTCTTTTCAGTACGTTAGACAGCATTGGTGTGCAATTTGGGATGTTATGATTCTGAAGATATTTTCT
 TGAAAAGGAAGGGATTTTTCTCCTTTTGGATATACTAGCATTGAACCAAAAAAATTTCTGTAATCTGATT
 CTTGGAATAATGGTTGAATTTTGTGATAATCCCAAACTTCTGCTCATGTCAATGCTTGGCGTGGGAAGA
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 GAAAGATGGTTGCGTCTTGCAAAGTGAAGTATTGAAAACCAAGCCCTCAGGATGTGCAAGTGAACA
 AAGAGTGTATGCAAAAATACAAGCTACACATAAGCAGAGAGAGCAGGCTAACAAGTATGGGAAAATCTT
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 GCCTTCGGGTGGGTGGTACAGTGCAAGCAGACCTACCCGGCTACTGGGAGGACCTCTGGCTGACACA
 GACATCGCTCTGAAAAACTGCCTATTCGAGGAGGGCCCTGCAGCGGTGAAAGTGAAGCCACCCTGA
 ATGATCCTAAAAAGAGCATCCCTACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211268 representing NM_172447
 Red=Cloning site Green=Tags(s)

MSTAEASATTADAAEAGGRKTGSPRTIPVFGVAIPDGEMQGIFKPMDLNRIIKVLEEDKDVSEEQLN
 YIKKLIHCYQNGFPLRDLAQIFKILSLCAEKIEKQPCFVEPASDIKLCGLPFLKKKVSDEITYEDTAN
 SFALLGELMKIPSSALRIQICKCIVDFYHAEPLKKHIPGYQQVSSSYKIKMVEVGLAKAMVQSALLLEN
 QLVKELWVLKVLQHLSTSGVNCTLMVKAQAASGICAHLNDPDPGQLLFRSSEVLWNLEKSSKEEIIQQ
 LSNLECLLALKEVFNLFVRGHSYERQLRNDILVITTIIAQNPAGPMIECGFTRDLILFATFNEVKSQN
 PLVKSLSLFCYEDFELKLLFNIIIVILCKDLATVQLLIDGKVI LALFTYVKKPERLKIMEWSAAQYEEL
 QLHAIATLSSVAPLLIEEYMSCHGNSRILAFLEWCGHEDSYFIHGNSFHGTGGRGNKFAQMRYTLRLLRA
 MVYLEDET VNKDLCERGVIHQLIEIFKTMSRPAEKEEAIALEIQSDTLILSGLCENYIQRKEMFGTEG
 VDIVLHVMKTDPKNLQRGLGYNVLLFSTLDSIWCCILGCYDSEDYFLEKEGIFLLLDILALNQQKFCNLI
 LGIMVEFCNDPKTSAHVNAWRGKDLTAASLLIKLWRKEEKELGVKDRNGKIVDTKRPLFTSFQEEQKT
 MPLPANCPPIAVMDVAENIRAKIYAVLDKLDFENLPGLSAEDFVTLCTIHRFYDFKIGEIWNEVSEEIKL
 EKLRLVTTDEKSLNSIIAATENIGKMASLQSEMIENQALQDVQNEQRVYAKIQATHKQREQANKSWENF
 LARTSNAKTLKKAKKLQEKAIIESSRYTERPQNATFHQTVIKGLNNTVPSGRVVTVQSTPTRLLGGPLADT
 DIALKKLPIRGGALQRVKVKPPLNDPKKSIPT

TRTRPLE - GFP Tag - V

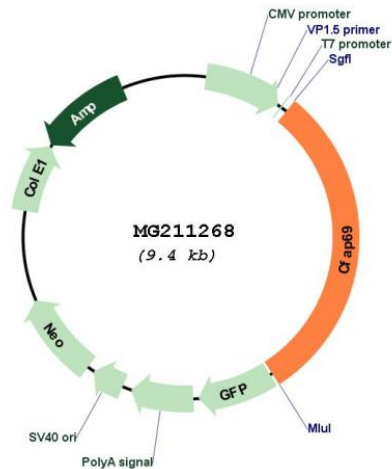
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172447

ORF Size: 2826 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_172447.2](#)

RefSeq Size: 3246 bp

RefSeq ORF: 2829 bp

Locus ID: 207686

UniProt ID: [Q8BH53](#)

Cytogenetics: 5 A1

Gene Summary:

Cilium- and flagellum-associated protein (PubMed:28495971, PubMed:29606301). In the olfactory epithelium, regulates the speed of activation and termination of the odor response and thus contributes to the robustness of olfactory transduction pathways (PubMed:28495971). Required for sperm flagellum assembly and stability (PubMed:29606301).[UniProtKB/Swiss-Prot Function]