

## Product datasheet for **RG206207**

### CFAP94 (NM\_001082972) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CFAP94 (NM_001082972) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CFAP94
Synonyms:	CASC1; LAS1; PPP1R54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206207 representing NM\_001082972  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGCAGACAGGTGGAGGGGCGACCACTGATTCTGCTTACCAGTGTTAAATAATGTAATCAAGAGCC  
 AGTCATATTTTACAGCGAAGCGGTCGGTTTGGGAAATAACTCATACCTTGGGGTGGGTCGGCCCTTTC  
 TCAGCAATGGCTTTCCTTACCTGGACCAGGCGGACAGGGTCCCAAAGCAAAAAAGTCTGGCAGTAAGAAA  
 AAGAAAGTCAACAAAGCTGAACGATTGAAGCTGCTACAAGAGGAGGAGAGACGACTGAAAGAGGAAG  
 AGGAAGCCCGTTTAAAATATGAGAAAGAAGAAATGGAAAGGCTTAAAATACAGCGAATTGAGAAAGAAAA  
 ATGGCATCGACTGAAGCAAAAGATCTAGAAAGGAGAAATGAAGAAGTGAAGAAGTAAATTTATTAGAG  
 AGGTGTTTTCTGAAGCAGAGAAATTGAAACAGGAAACTAAATTGCTTTCTCAGTGAAGCACTACATTC  
 AATGTGATGGGAGTCCTGATCCTTCAGTAGCCCAAGAAATGAACACGTTTATTAGTTTGTGAAAGAGAA  
 AACAAATGAGACTTTTGAAGGAGTATTGAGAAGAGTAAAGTAGTCTAAATTTAATTGAGAAATGAAA  
 TTTATTTTACTGAAACTCCACCATGTGATTTGCAAGATAAAAAATAATACAGTACCAAGAATCAATAC  
 TACAATCGCAGGAGCTCCTTTCATCTTAAATTCGGTGTAGCCACAGAAATACTTCTCAAACAGCTAGTAC  
 TTTGGCAGATCTGGACAGTGAAATATGGAAAAAGTCATTAAGATGAAAATGTTACTCTGTATGTGTGG  
 GCAAACCTCAAGAAGAATCCAAGGCACAGAAAGTGTAGATTCTCTGAAACACAAATTGGATTTGAGATTC  
 CAAGGATATTAGCAACAAGTACATTGCTGTACGACTCCTGCATACCCACTATGATCATGTTTCTGCACT  
 GCACCTGTTTCAACACCATCAAAGAATACACTTCTGCAGTAACTGAGCTTGTCAAAGATGATGTTAAG  
 AATGTAGAAAAAGCAATCAGCAAGGAGGTCGAAGAAGAGTCCAAACAACAAGAAAGGGTCTCACTTAA  
 TTCAGGAGGAAGAAATAAAGTTGAGGAGGAACAAGGTGATATTGAAGTGAAGTGAAGTCTGCTGAGGA  
 AGAATCTGAAGCCATAAAATGTGAACGAGAGATGAAAGTATTAAGTGAAGTCTTTTCAGCAGCACAGTTG  
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 CAACTCTGGTGGAGTATACCACTTGGATATTTTGGAGCTTCTCCACAGTGTAACCAGTGAAGGGATG  
 GATGATTGTGAAATACTCAAAGAAGGATTACAGAAATACACATATCCTCCGAAACTACAGAAGAGTTT  
 GAGACAGAAAATGCTTTCCACCTATAGAGGTCACACTTGAGGTTTATGAGAATGTAATCTTTTTTGGG  
 ATCCTGTGGTTGAAGGTGGGATGCTGAAGGTAACATTGGAGAAGTATGGCATCAGCAATGTATCCTA  
 CAAACCAAAAGAAAGACTTGTAACATTCAGCCTGGACACCTTTGGCCCTGTACCTTGATTCAAGATGCT  
 CATATTAACATGCCGTACCAGTCATGGGAATAAGACCACTTGATGTAATAAAGTACTTTTAACTGTGA  
 CTACAGTATTTACTGAGATTCAAATACAAATTAAGGAAAACCTCTGCATGTTATCTTCAATCAAACATAAA  
 AGACAAGAAACACATCTCTATTTTGAAGGAACCTGGATGACTCCTATTCTTTTCAATTTGCTTTGAAA  
 GAAGCTGGACTGAATATCTTCTACTAGACACTCTCATTTTTATGTTATTATAAACAATAAGGTTCCCTT  
 TGGTAGAAGTGAAGCTTATCGACAGATGGCCCTACTAAGTTCTGCTTTTGCATTTGGTTGGAGCAAGTG  
 GAACCTACTATGTAATTCTACAAAAGTCGTATTTAAGTGG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG206207 representing NM\_001082972  
 Red=Cloning site Green=Tags(s)

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MRQTGGGATTDASPVLNIVIKSQSYFTAKRVGLGNNSYLVGVRPSSQQWLSLPGPGGQGPKAKKSGSKK
KKVTKAERLKLQEEEEERLKEEEEARLKYEKEEMERLEIQRIEKEKWHRLAKDLERRNEELEELYLLE
RCFPEAEKLRKQETKLLSQWKHYIQCDGSPDPSVAQEMNTFISLWKEKTNETFEVIEKSKVVLNLIEKLL
FILLETPPCDLQDKNIIQYQESILQLQELLHLKFGVATEILLKQASTLADLDSGNMEKVIKDENVTLVYVW
ANLKKNPRHRSVRFSETQIGFEIPRILATSDIAVRLHLLHTHYDHSALHPVSTPSKEYTSAVTELVKDDVK
NVEKAISKEVEEESKQQERGSHLIQEEEIKVEEQGDIEVKMSSAEESEAIK CEREMKVLSETVSAACL
LLVENSSEKPDFEDNVVLDLQFTTLGGVYHLDILELPPQCKPVKGMWIVEILKEGLQKYTPPETTEEF
ETENAFPIEVTLEHENVIFFEDPVVVRWDAEGKHWRDGI SNVSYKPKERLVTFSLDTFGPVTLIQDA
HINMPYQSWELRPLDVNKVLLT VTTVFTEIQIQIKENL CMLSSIKLKDKKHSILEGTWMTPIPIIALK
EAGLNIFPTRHSFYVI INNKVPLVEVKAYRQ MALLSSAFAGWSKWNL LCNSTKVVFKW
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001082972

**ORF Size:** 2070 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\\_001082972.3](#)

**RefSeq Size:** 2651 bp

**RefSeq ORF:** 2073 bp

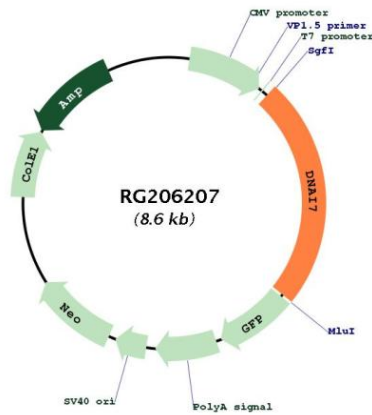
**Locus ID:** 55259

**UniProt ID:** [Q6TDU7](#)

**Cytogenetics:** 12p12.1

**Gene Summary:** Via its association with the multisubunit axonemal dynein complex, is potentially involved in the regulation of cilia function. May also act as a cell cycle regulator.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG206207