

Product datasheet for **RC221275**

CFAP94 (NM_001082973) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CFAP94 (NM_001082973) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CFAP94
Synonyms:	CASC1; LAS1; PPP1R54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC221275 representing NM_001082973
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCGCAGTAAGAAAAAGAAAGTCACCAAAGCTGAACGATTGAAGCTGCTACAAGAGGAGGAGAGA
 GACGACTGAAAGAGGAAGAGGAAGCCCGTTTGAATATGAGAAAAGAAATGGAAAAGGCTTGAATACA
 GCGAATTGAGAAAAGAAAATGGCATCGACTTGAAGCAAAAGATCTAGAAAAGGAGAAATGAAGAAGTTGAA
 GAAGTTTATTTAGAGAGGTGTTTTCTGAAGCAGAGAAAATTGAAACAGGAACTAAATTGCTTTCTC
 AGTGGAAGCACTACATCAATGTGATGGGAGTCTGATCCTTCAGTAGCCCAAGAAATGAACACGTTTAT
 TAGTTTGTGAAAAGAGAAAACAATGAGACTTTTGAGGAAGTGATTGAGAAGAGTAAAGTAGTGCTAAAT
 TTAATTGAGAAATGAAATTTATTTACTGAAAACCTCCACCATGTGATTTGCAAGATAAAAAATAAATAC
 AGTACCAAGAATCAATACTACAACCTGCAGGAGCTCCTTCATCTTAAATTCGGTGTAGCCACAGAAACT
 TCTCAAACAAGCTAGTACTTTGGCAGATCTGGACAGTGGAAATATGGAAAAGTCATTAAGATGAAAT
 GTTACTCTGTATGTGTGGCAAACCTCAAGAAGATCCAAGGCACAGAAGTGTTAGATTCTCTGAAACAC
 AAATTGGATTTGAGATTTCAAGGATATTAGCAACAAGTGACATTGCTGTACGACTCCTGCATACCCACTA
 TGATCATGTTTCTGACTGCACCCTGTTTCAACACCATCAAAAAGAATACACTTCTGCAGTAACTGAGCTT
 GTCAAAGATGATGTTAAGAAATGTAGAAAAGCAATCAGCAAGGAGGTGCAAGAAGAGTCCAAACAACAAG
 AAAGAGGGTCTCACTTAATTCAGGAGGAAGAAATAAAAGTTGAGGAGGAACAAGGTGATATTGAAGTGAA
 AATGAGTTCTGCTGAGGAAGAATCTGAAGCCATAAAATGTGAACGAGAGATGAAAGTATTAAGTGAACT
 GTTTCAGCAGCACAGTTGTTGCTGGTAGAGAATCTTCTGAAAAGCCAGATTTCTTTGAAGACAATGTGG
 TGGATTTATGCCAGTTCACAACCTGGGTGGAGTATACCACTTGGATATTTTGGAGCTTCTCCACAGTG
 TAAACCAGTGAAGGGATGGATGATTGTGAAAATCTCAAAGAAGGATTACAGAAAATACACATATCCTCCG
 GAAACTACAGAAGAGTTGAGACAGAAAATGCTTTCCACCTATAGAGGTCACACTTGAGGTTTCATGAGA
 ATGTAATCTTTTTGAGGATCCTGTGGTTGAAGGTGGGATGCTGAAGGTAACATTGGAGAAGTATGAGG
 CATCAGCAATGTATCCTACAAACCAAAAAGAAAGACTTGTAAACATTCAGCCTGGACACCTTTGGCCCTGT
 ACCTTGATTCAAGATGCTCATATTAACATGCCGTACCAGTCATGGGAACTAAGACCCTTGATGTAATA
 AAGTACTTTTAACTGTGACTACAGTATTTACTGAGATTCAAATACAAATTAAGGAAAACCTCTGCATGTT
 ATCTTCAATCAAATAAAAGACAAGAAACACATCTCTATTTTGAAGGAACTGGATGACTCCTATTCTCT
 TTCATTATTGCTTTGAAAGAAGCTGGACTGAATATCTTCTACTAGACACTCTCATTTTTATGTTATTA
 TAAACAATAAGGTTCTTTGGTAGAAGTAAAGCTTATCGACAGATGGCCCTACTAAGTTCTGCTTTTGC
 ATTTGGTTGGAGCAAGTGGAACTACTATGTAATTCTACAAAAGTCGATTTAAGGTGAGGGAACACCTT
 ACTGAAGAATGACTGAGAAATCCTAATTTGGCCCTTTTAAATGTTTGTGGTGACAGAGCACAAGACTGA
 AGATCAAGGAAGAGAGTGAGGCATTTTCTGAAGCACTTAAAGAAGAACTGAGTTTCATTCTACTTTATA
 TCACATGGTGAAGGATTTGCTTCTGAGGAAGCAATGGAGAAAGTCAGGAGTTCCAAGTTCAGTTTGTG
 AACTCTGTGTGCCACATGCTGCTCTCTACCAGATTGCTCAGCTACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221275 representing NM_001082973
Red=Cloning site Green=Tags(s)

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MSGSKKKKVTKAERLKLQEEEEERLKEEEEARLKYEEEMERLEIQRIEKEKWHRLKADLERRNEELE
ELYLLERCPEAEKQETKLLSQWKHYIQCDGSPDPSVAQEMNTFISLWKEKTNETFEEVIEKSKVVLN
LIEKLFILLETPPCDLQDKNIIQYQESILQLQELLHLKFGVATEILLKQASTLADLDSGNMEKVIKDN
VTLYVWANLKKNPRHRSVRFSETQIGFEIPRILATSDIAVRLLHTHYDHVSALHPVSTPSKEYTSAVTEL
VKDDVKNVEKAIKSKEVEEESKQQERGSHLIQEEEIKVEEEQGDIEVKMSSAESEAIK CEREMKVLSET
VSAAQLLLVENSSEKPDFFDNVDLCQFTTLGGVYHLDILELPPQCKPKVKGWMI VEILKEGLQKYTYPP
ETTEEFETENAFPPIEVTLVHENVIFFEDPVVVRWDAEGKHWRTDGISNVSYKPKERLVTFLSDFGPV
TLIQDAHINMPYQSWELRPLDVNKVLLTVTTVFTEIQIQIKENLMLSSIKLKDKKHISILEGTMPTIP
FIIALKEAGLNIFPTRHSHFYVIINNKVPLVEVKAYRQALLSSAFAGWSKNLLCNSTKVVFKVREHL
TEECTENPWALLMFGDRAQLKIKEESEAFSEALKEETEFHSTLYHMKDFASEEAMEKVRSSNCQFV
NSVCHMLLSTRLLSYS
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001082973

ORF Size: 2148 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_001082973.2](#)

RefSeq Size: 2505 bp

RefSeq ORF: 2151 bp

Locus ID: 55259

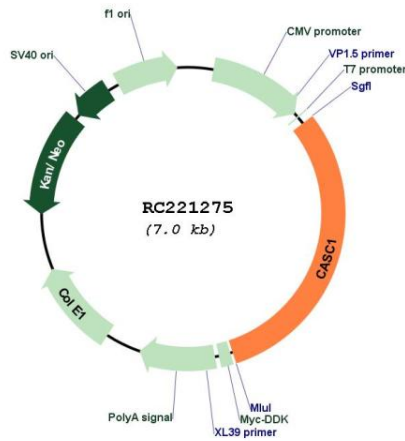
UniProt ID: [Q6TDU7](#)

Cytogenetics: 12p12.1

MW: 83 kDa

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 RC221275