

Product datasheet for **RC225724**

IQCG (NM_001134435) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IQCG (NM_001134435) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IQCG
Synonyms:	CFAP122; DRC9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC225724 representing NM_001134435
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGAAGACAGCCTGGAAGACTCAAACCTTCTCCAAAAGTTTGGCATTCTGAGATGACGGTGTGAG
 TGACAGGCGAACCACCTAGTACCGTAGAAGAAGAAGGAATACCTAAAGAAACAGACATAGAAATCATCCC
 AGAAATCCCGAAACTCTAGAGCCACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGAC
 ACCACAGACCAGCTCTCTATTCTGAACTACATCATGCCCGTTTCAGTACGAAGGGAGACAGAGCATCTGCG
 TGAAAAGCAGAGAAATGAATCTAGAAGGAACGAATCTAGACAACTTCCAATGGCCTCAACAATCACAAA
 AATACCCAGTCCGTTAATAACTGAGGAAGGACCAACTTGCCAGAAATCAGACACAGAGGCCGGTTCGCT
 GTGGAGTTTAAACAAAATGCAGGATCTTGTCTTCAAAAAACCTACAAGGCAGACCATCATGACTACGGAGA
 CACTGAAGAAAATTCAGATTGATAGGCAGTTTTTCAGCGATGTGATTGCAGATACCATTAAGGAGTTGCA
 AGATTCGGCCACTTACAACAGTCTCCTGCAAGCTTTGAGCAAAGAGAGGGAAAACAAAATGCATTTCTAT
 GACATCATTGCCAGGGAGGAAAAAGGAAGAAAACAGATAATATCACTTCAAAAACAGCTAATTAATGTCA
 AAAAGGAATGGCAATTTGAAGTCCAGAGTCAGAATGAGTATATTGCTAACCTCAAGGACCAACTGCAAGA
 GATGAAGGCAAAATCCAACCTTGGAGAATCGCTACATGAAAACCAATACCGAGCTGCAGATTGCCAGACC
 CAGAAAAAGTGTAACAGAACAGAGGAACCTTGGTGGAAGAGATTGAGAACTCAGGATGAAAACCGAAG
 AAGAGGCCCGACTCATAACAGAGATTGAAATGTTCTTAGAAAGGAGCAGCAGAACTTGAGGAGAGGCT
 GGAGTTCTGGATGGAGAAATACGATAAGGACACAGAAATGAAACAGAATGAACTAAATGCTCTCAAAGCC
 ACAAGGCCAGTGACTTAGCACACCTTCAAGACCTGGCAAAGATGATAAGAGAGTATGAACAGGTCATCA
 TTGAAGATCGTATAGAAAAGGAGAGGAGCAAGAAGAAGTAAAACAGGATCTCTTGGAAATTAAGAGCGCT
 TATAAAGCTCCAGGCCTGGTGGCGAGGCACTATGATACGGAGAGAAATTGGTGGTTTCAAGATGCCTAAA
 GACAAAGTTGATAGCAAGGATTCAAAAGGCAAAGGTAAGGCAAGGATAAGAGGAGAGGCAAGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225724 representing NM_001134435
 Red=Cloning site Green=Tags(s)

MEEDSLEDSNLPKVVHSEMTVSVTGEPSTVEEEGIPKETDIEIIPETLEPLSLPDVLRISAVLED
 TTDQLSILNYIMPVQYEGRQSIKVSREMNLGNTLTKLPMASITKIPSLITEEGPNLPEIRHRGRFA
 VEFNMQDLVFKKPTRQTIMTETLKKIQIDRQFFSDVIADTIKELQDSATYNSLLQALSKERENKMHFY
 DIIAREEKGRKQIISLQKQLINVKKEWQFEVQSQNEYIANLKDQLQEMKAKSNLENRYMKTNTELQIAQT
 QKKCNRTEELLVEEIEKLRMKTEEEARTHTEIEMFLRKEQQKLEERLEFWMEKYDKDTEMKQNELNALK
 TKASDLAHLQDLAKMIREYEQVIIEDRIEKERSKKKVKQDLELKSIVIKLQAWWRGTMIRREIGGFKMPK
 DKVDSKDSKGGKGDKRRGKKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8016_f10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001134435

ORF Size: 1329 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_001134435.2](#)

RefSeq Size: 1998 bp

RefSeq ORF: 1332 bp

Locus ID: 84223

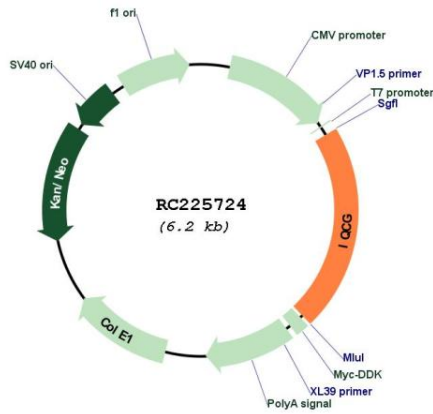
UniProt ID: [Q9H095](#)

Cytogenetics: 3q29

MW: 51.9 kDa

Gene Summary: Component of the nexin-dynein regulatory complex (N-DRC), a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes. Binds calmodulin when cellular Ca(2+) levels are low and thereby contributes to the regulation of calcium and calmodulin-dependent protein kinase IV (CAMK4) activity; contributes to the regulation of CAMK4 signaling cascades. Required for normal axoneme assembly in sperm flagella, normal sperm tail formation and for male fertility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC225724