

Product datasheet for **SC325093**

IQCG (NM_001134435) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IQCG (NM_001134435) Human Untagged Clone
Tag:	Tag Free
Symbol:	IQCG
Synonyms:	CFAP122; DRC9
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001134435, the custom clone sequence may differ by one or more nucleotides <pre> ATGGAAGAAGACAGCCTGGAAGACTCAAACCTTCTCCAAAAGTTTGGCATTCTGAGATG ACGGTGTCACTGACAGGCGAACCACCTAGTACCGTAGAAGAAGAAGGAATACCTAAAGAA ACAGACATAGAAATCATCCAGAAATCCCGGAAACTCTAGAGCCACTGTCCCTTCCAGAT GTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGACCAGCTCTCTATTCTGAACTAC ATCATGCCCGTTCACTACGAAGGGAGACAGAGCATCTGCGTGAAAAGCAGAGAAATGAAT CTAGAAGGAACGAATCTAGACAACTTCCAATGGCCTCAACAATCACAAAAATACCCAGT CCGTTAATAACTGAGGAAGGACCCAATTGCCAGAAATCAGACACAGAGGCCGGTTTCGCT GTGGAGTTTAACAAAATGCAGGATCTTGTCTTCAAAAAACCTACAAGGCAGACCATCATG ACTACGGAGACACTGAAGAAAATTCAGATTGATAGGCAGTTTTTTCAGCGATGTGATTGCA GATACCATTAAGGAGTTGCAAGATTCGGCCACTTACAACAGTCTCCTGCAAGCTTTGAGC AAAGAGAGGGAAAAACAAATGCATTTCTATGACATCATTGCCAGGGAGGAAAAAGGAAGA AAACAGATAATATCACTTCAAAAACAGCTAATTAATGTCAAAAAGGAATGGCAATTTGAA GTCCAGAGTCAGAATGAGTATATTGCTAACCTCAAGGACCAACTGCAAGAGATGAAGGCA AAATCCAACCTGGAGAATCGCTACATGAAAACCAATACCGAGCTGCAGATTGCCAGACC CAGAAAAAGTGTAACAGAACAGAGGAACCTTGGTGGAAGAGATTGAGAACTCAGGATG AAAACCGAAGAAGAGGCCCGGACTCATACAGAGATTGAAATGTTCTTAGAAAGGAGCAG CAGAAACTTGAGGAGAGGCTGGAGTTCTGGATGGAGAAATACGATAAGGACACAGAAATG AAACAGAAATGAACTAAATGCTCTCAAAGCCACAAAGGCCAGTGACTTAGCACACCTTCAA GACCTGGCAAAGATGATAAGAGAGTATGAACAGGTCATCATTGAAGATCGTATAGAAAAG GAGAGGAGCAAGAAGAAGGTAACAGGATCTCTTGAATTAAGAGCGTTATAAAGCTC CAGGCCTGGTGGCGAGGCACTATGATACGGAGAGAAATTGGTGGTTTCAAGATGCCTAAA GACAAAGTTGATAGCAAGGATTCAAAAGGCAAGGTAAGGCAAGGATAAGAGGAGAGGC AAGAAGAAG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001134435



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001134435.1, NP_001127907.1</u>
RefSeq Size:	1981 bp
RefSeq ORF:	1332 bp
Locus ID:	84223
UniProt ID:	<u>Q9H095</u>
Cytogenetics:	3q29
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] Transcript Variant: Variants 1 through 3 encode the same isoform (a).