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Product datasheet for SC313502

IQCG (NM_032263) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IQCG (NM_032263) Human Untagged Clone
Tag:	Tag Free
Symbol:	IQCG
Synonyms:	CFAP122; DRC9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313502 representing NM_032263. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGAAGACAGCCTGGAAGACTCAAACCTTCCTCCAAAAGTTTGGCATTCTGAGATGACGGTGTCA
GTGACAGGCGAACCACCTAGTACCGTAGAAGAAGAAGGAATACCTAAAGAAACAGACATAGAAATCATC
CCAGAAATCCCGGAAACTCTAGAGCCACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAG
GACACCACAGACCAGCTCTCTATTCTGAACTACATCATGCCCGTTCAGTACGAAGGGAGACAGAGCATC
TGCGTGAAAAGCAGAGAAATGAATCTAGAAGGAACGAATCTAGACAAACTTCCAATGGCCTCAACAATC
ACAAAAATACCCAGTCCGTTAATAACTGAGGAAGGACCCAACTTGCCAGAAATCAGACACAGAGGCCGG
TTCGCTGTGGAGTTTAACAAAATGCAGGATCTTGTCTTCAAAAAACCTACAAGGCAGACCATCATGACT
ACGGAGACACTGAAGAAAATTCAGATTGATAGGCAGTTTTTCAGCGATGTGATTGCAGATACCATTAAG
GAGTTGCAAGATTCGGCCACTTACAACAGTCTCCTGCAAGCTTTGAGCAAAGAGAGGGAAAACAAAATG
CATTTCTATGACATCATTGCCAGGGAGGAAAAAGGAAGAAAACAGATAATATCACTTCAAAAACAGCTA
ATTAATGTCAAAAAGGAATGGCAATTTGAAGTCCAGAGTCAGAATGAGTATATTGCTAACCTCAAGGAC
CAACTGCAAGAGATGAAGGCAAAATCCAACTTGGAGAATCGCTACATGAAAACCAATACCGAGCTGCAG
ATTGCCCAGACCCAGAAAAAGTGTAACAGAACAGAGGAACTCTTGGTGGAAGAGATTGAGAAACTCAGG
ATGAAAACCGAAGAAGAGGCCCGGACTCATACAGAGATTGAAATGTTCCTTAGAAAGGAGCAGCAGAAA
CTTGAGGAGAGGCTGGAGTTCTGGATGGAGAAATACGATAAGGACACAGAAATGAAACAGAATGAACTA
AATGCTCTCAAAGCCACAAAGGCCAGTGACTTAGCACACCTTCAAGACCTGGCAAAGATGATAAGAGAG
TATGAACAGGTCATCATTGAAGATCGTATAGAAAAGGAGAGGAGCAAGAAGAAGGTAAAACAGGATCTC
TTGGAATTAAAGAGCGTTATAAAGCTCCAGGCCTGGTGGCGAGGCACTATGATACGGAGAGAAATTGGT
GGTTTCAAGATGCCTAAAGACAAAGTTGATAGCAAGGATTCAAAAGGCAAAGGTAAAGGCAAGGATAAG
AGGAGAGGCAAGAAGAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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Restriction Sites:	SgfI-MluI
ACCN:	NM_032263
Insert Size:	1332 bp
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:	NM_032263.4
RefSeq Size:	2277 bp
RefSeq ORF:	1332 bp
Locus ID:	84223
UniProt ID:	Q9H095
Cytogenetics:	3q29
Domains:	IQ
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] Transcript Variant: Variants 1 through 3 encode the same isoform (a).