

Product datasheet for **RC204561**

IQCD (NM_138451) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IQCD (NM_138451) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IQCD
Synonyms:	4933433C09Rik; CFAP84; DRC10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204561 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCTTTAGACATTCTCGCCATGGCCCTTTGTATCAGGCCCTGCCATCAACAGAATAGGGCCAAAGA
CAGACCCATCTAAAAGGCCAGCTGATCCACTAAAACCTTGGTTCTCTAGGACCAAACACCACCAT
TGAGGCCAAAAGGATCATGTCCATCCTGGATGAGGCGATCTACAAGGTGGAGCTGGTACCTTGCTGTCG
TATGTGGCATCCAACAGAGAGGATATGGAGGGGATGCTGGGGGAGGACGTCATGAGGCCAGTGAGAGAGC
ATGAGGATCTCTGCCAGGTCCTCCTTGAACCGTCAGGTGCCTGAAAGAGAAAGAAAGGCAATTGCAGGA
GCAGAAAGAGGCTGAGGAGGAAGGGTGGCTCAGAGACCGCTCCTTTCCATAGAGCTGCAGAAATCCAGC
CTCTACCACTTATGCAGCAGATCAAAGACTCCACCAAGAACGTCCTTAGACTCTTGCTCAGCAACCCCC
AGGCTGCTAGGCTCCTGCAGATGCAGACACAGGGTAGAAGTGCAGAAGCCAGAATTTTATTGACAGCCT
GATAGAGCTCCGTGGTTTCTGTTTAAAACTACTACTAGTCCCATGGAAGCGAGGGATAAGGCCAG
TTCTTACAGGATATCAGTAGACAGAATAGTAATAACCAACAAATCATTGATACTTTGAAAAGGAATTGG
CGGAGAGAATGAAGAACAGGAATGCAGAGGAGGAGTTGGAGGATCTGGACGCTGTTACAGGGAGGAGAA
GATCTCGCTGGAGGAGCTCAGGCCGAGGCACAAAGTGTGGTGGGAGAGTTTGGCAGATCCGGGAAAGAG
CGGGAGATCAACTCCAAGAAAAGGATGGAGGCAGAGCAGGAGTGGTGGCAGATGGTACGGGCGGCCACGC
TCATCCAGGCCCTATGGAAGGGCTATCTGGTGCCTCCCTGCTCAGATCCAAGAAGAAGCGGGCAAGGG
CAAAGCAAAGGACAAGGAGAAGGCAAGCAGAAAAGGCAAGGAGAAGGGCAAGGGCAAGGGCAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204561 protein sequence
Red=Cloning site Green=Tags(s)

MALDILAMAPLYQAPAINRIGPKTDPSKRPADPLKPLVLSRTKLTIEAKRIMSILDEAIYKVELVTLSS
 YVASNREDMEGMLGEDVMRAVREHEDLCQVLLENVRCLKEKERQLQEKEAEEEGWLRDRLLSIELQKSS
 LSPLMQQIKDSTKNVLRLLL SNPQAARLLQMQTQGRSAEAQNFIDSLIELRGFLFEKLLTSPMEARDKAQ
 FLQDISRQNSNNQI IDTLEKEL AERMKNR NAE EELDLDAVHREEKI SLEELRRRHKVL VGEFAQIREE
 REINSKKRMEAEQEMVRMVAATLIQALWKGYL VRSLLRSKKRKGKAKDKKEKGKQKGGKGGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6310_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_138451

ORF Size: 1041 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_138451.3](#)

RefSeq Size: 1382 bp

RefSeq ORF: 1044 bp

Locus ID: 115811

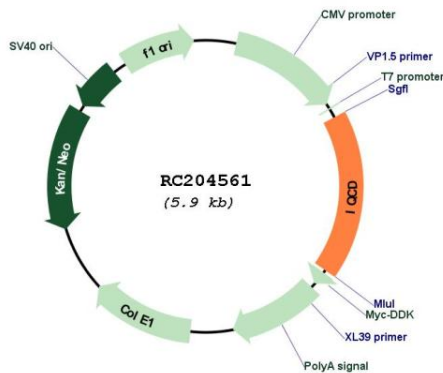
UniProt ID: [Q96DY2](#)

Cytogenetics: 12q24.13

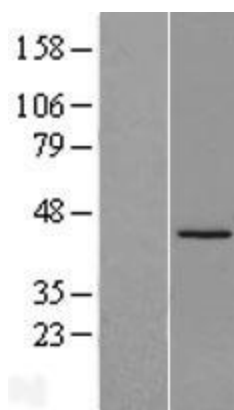
MW: 40.1 kDa

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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204561



Western blot validation of overexpression lysate (Cat# [LY408601]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204561 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).