

Product datasheet for **RG204561**

IQCD (NM_138451) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	IQCD
Synonyms:	4933433C09Rik; CFAP84; DRC10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204561 representing NM_138451
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTTAGACATTCTCGCCATGGCCCCTTTGTATCAGGCCCTGCCATCAACAGAATAGGGCCAAAGA
CAGACCATCTAAAAGGCCAGCTGATCCACTAAAACCTTGTTCTCTAGGACCAAACCTACCACCAT
TGAGGCCAAAAGGATCATGTCCATCCTGGATGAGGCGATCTACAAGGTGGAGCTGGTGACCTTGCTGTCG
TATGTGGCATCAACAGAGAGGATATGGAGGGGATGCTGGGGGAGGACGTCATGAGGGCAGTGAGAGAGC
ATGAGGATCTCTGCCAGGTCTCCTTGAAAACGTCAGGTGCCTGAAAGAGAAAAGGCAATTGCAGGA
GCAGAAAGAGGCTGAGGAGGAAGGTGGCTCAGAGACCGCCTCCTTTCCATAGAGCTGCAGAAATCCAGC
CTCTCACCCTTATGCAGCAGATCAAAGACTCCACCAAGAACGTCCTTAGACTCTTGCTCAGCAACCCCC
AGGCTGCTAGGCTCCTGCAGATGCAGACACAGGTAGAAGTGCAGAAGCCAGAATTTATTGACAGCCT
GATAGAGCTCCGTGGTTTCTGTTTGAAAACTACTACTAGTCCCATGGAAGCGAGGGATAAGGCCAG
TTCTTACAGGATATCAGTAGACAGAATAGTAATAACCAACAAATCATTGATACTCTTGAAAAGGAATTGG
CGGAGAGAATGAAGAACAGGAATGCAGAGGAGGAGTTGGAGGATCTGGACGCTGTTACAGGGAGGAGAA
GATCTCGTGGAGGAGCTCAGGCGGAGGCACAAAGTGTGTTGGGAGAGTTTGCAGATCCGGGAAGAG
CGGGAGATCAACTCCAAGAAAAGGATGGAGGCAGAGCAGGAGATGGTGCGCATGGTACGGGCGGCCACGC
TCATCCAGGCCCTATGGAAGGGCTATCTGGTGCCTCCTGCTCAGATCCAAGAAGAAGCGGGGCAAGGG
CAAAGCAAAGGACAAGGAGAAGGGCAAGCAGAAAGGCAAGGAGAAGGGCAAGGGCAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



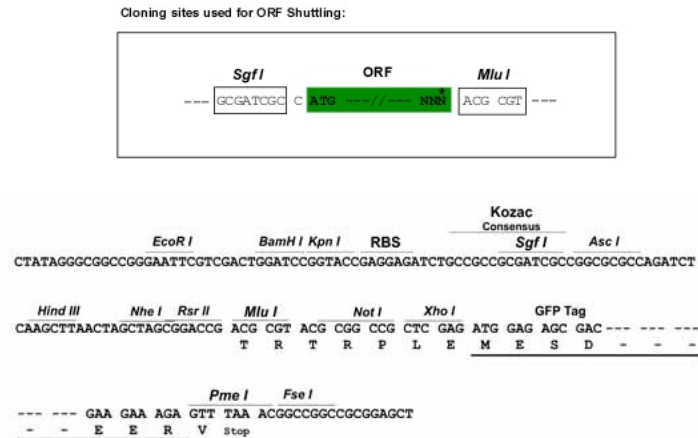
Protein Sequence: >RG204561 representing NM_138451
Red=Cloning site Green=Tags(s)

MALDILAMAPLYQAPAINRIGPKTDPSKRPADPLKPLVLSRTKLTTIEAKRIMSILDEAIYKVELVTLLS
YVASNREDMEGMLGEDVMRAVREHEDLCQVLLENVRCLKEKERQLQEKEAEEEGWLRDRLLSIELQKSS
LSPLMQQIKDSTKNVLRLLLSNPQAARLLQMOTQGRSAEAQNFIDSLIELRGFLFEKLLTSPMEARDKAQ
FLQDISRQNSNNQIIDTLEKELAERMKNRNAEELEDLDAVHREEKISLEELRRRHKVLVGEFAQIREE
REINSKKRMEAEQEMVRMVAATLIQALWGYLVRSLLRSKKKRGKGAKDKEKGKQKGKEKGKGGK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_138451.3](#)

RefSeq Size: 1363 bp

RefSeq ORF: 1044 bp

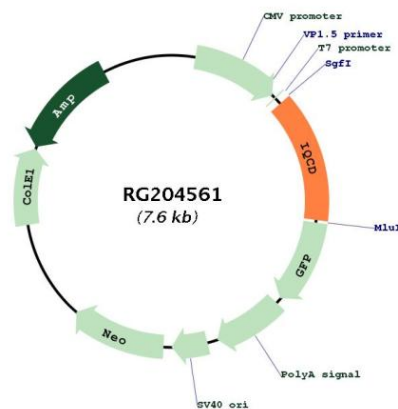
Locus ID: 115811

UniProt ID: [Q96DY2](#)

Cytogenetics: 12q24.13

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 RG204561