

Product datasheet for **RG202388**

IQ motif containing B1 (IQCB1) (NM_001023571) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	IQ motif containing B1
Synonyms:	NPHP5; PIQ; SLSN5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG202388 representing NM_001023571
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGCCAACAGGTACAGACCCAAGGATCTTATCTATAGCTGCTGAAGTTGCAAAAAGCCCTGAGCAGA
 ATGTCCTGTTTATACTGTTGAAGTTAAAAGAAATAATAACATCACACCTTTAGGAAGCTCAGAGTTGAA
 GAAATCAAACAAGATATATATTGTTATGATCTCATTCAATATTGCCTCTTGGTCTCAGTCAAGATTAT
 TCTCGAATCCAGGGTGGTTGGACTACAATTTCCAGCTTACACAGATATTAAGCCATTGCTGTGTGGGCT
 TGGAGCCAGGAGAAGATGCAGAGGAATTTACAATGAATTACTTCCATCAGTGCAGAAAAATTTCTAGT
 TTTGGGAGACAATTACAAACATGTTTATCAATGCAGCTAAGGCTGAAGAAAAAGATGAATTACTACAC
 TTTTCCAAATTGTGACTGATTCTCTCTTGGCTTTTGGGAGGCCATGTTGAATTATTAGAATGTAC
 TACAAAGTGATCATTTCTTACATTTACTGCAAGCTGACAATGTCCAATAGGATCTGCAGTCATGATGAT
 GCTACAGAATATACTACAGATCAACAGATCCAACGATCAAAGATGTTGCTGGAGATAAATAGGCAGAAG
 GAAGAAGAGGACCTCAAATTACAATTGCAACTTCAAAGACAGAGGCCATGAGACTTTCCCGAGAATTGC
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 AGCACTGATTATCCAGAAACATTGGAGAGGGTACAGGAAAGGAAAAATTTTCCCAACAGAGGCAGTCT
 CTCATAGAGTATAAAGCAGCTGTCACTTCAAAGAGCAGCGCTTAAATTCCTAGCGAAGTCCCGTAAGA
 AAAAGAAACTATTTGCTCTTGGCGAGGACTCCAAGAACTCACTGATGCACGCCGAGTTGAACTGAAGAA
 ACGAGTGGATGACTATGTCAGAAGACATTTGGGCTCTCCAATGTCAGATGTGGTCAGTAGGGAGCTCCAT
 GCCCAAGCTCAAGAAGCAGCTGCAACACTACTTTATGGCAGGGCCCTAGAAGAGCGAGCCAGCAGCACA
 GAGAAGCTCTGATAGCACAGATCAGCACCAACGTTGAACAGCTAATGAAGGCACCAAGTCTGAAGGAGGC
 AGAAGGGAAAGAACCTGAGCTCTTCTAAGTAGATCCAGGCCTGTGGCAGCCAAGGCCAAGCAGGCCCAT
 CTCACAACCTGAAGCACATACAAGCACCTGGTGAAGAAGCTTGGAGAAGAATCTGGAGATGAGATTG
 ATGTTCCAAAGGATGAGCTTAGTATAGAATTAGAAAATTTATTCATTGGTGAACCAAAACCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

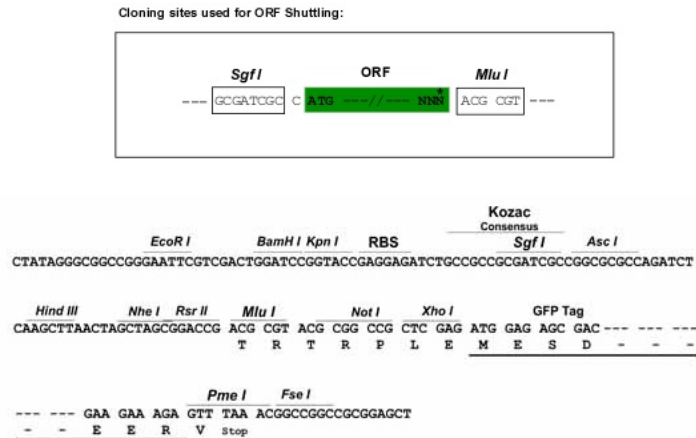
Protein Sequence: >RG202388 representing NM_001023571
 Red=Cloning site Green=Tags(s)

MKPTGTDPRILSIAAEVAKSPEQNVPVILLKLKEIINITPLGSSELKKIKQDIYCYDLIQYCLLVLSQDY
 SRIQGGWTTISQLTQILSHCCVGLPEGEDAEFYNELLPAAENFLVLRQLQTCFINAAKAEKDELLH
 FFQIVTDSLFWLLGGHVELIQNVLQSDHFLHLLQADNVQIGSAVMMMLQNILQINRSKRSMLEINRQK
 EEEDLKLQLQRQAMRLSRELQLSMLEIVHPGQVEKHYREMEKSALIIQKHWRGYRERKNFHQQRS
 LIEYKAAVTLQRAALKFLAKCRKKKKLFAPWRGLQELTDARRVELKKRVDDYVRRHLGSPMSDVSRELH
 AQAQERLQHYFMGRALERAQHQREALIAQISTNVEQLMKAPSLKEAEGKEPELFLSRSPVAAKAKQAH
 LTTLKHQAPWWKKLGEESGDEIDVPKDELSIELENLFIGGKPP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001023571

ORF Size: 1395 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.

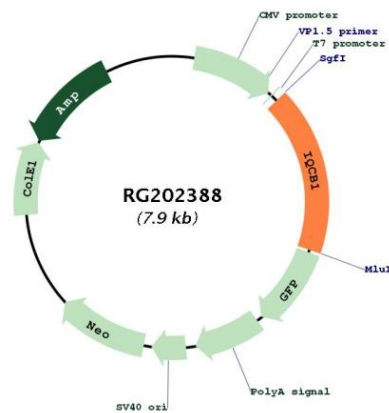
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001023571.3](#)

RefSeq Size: 2195 bp
RefSeq ORF: 1398 bp
Locus ID: 9657
UniProt ID: [Q15051](#)
Cytogenetics: 3q21.1

Gene Summary: This gene encodes a nephrocystin protein that interacts with calmodulin and the retinitis pigmentosa GTPase regulator protein. The encoded protein has a central coiled-coil region and two calmodulin-binding IQ domains. It is localized to the primary cilia of renal epithelial cells and connecting cilia of photoreceptor cells. The protein is thought to play a role in ciliary function. Defects in this gene result in Senior-Loken syndrome type 5. Alternative splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 6. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG202388