

Product datasheet for **SC302221**

IQ motif containing B1 (IQCB1) (NM_001023570) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IQ motif containing B1 (IQCB1) (NM_001023570) Human Untagged Clone
Tag:	Tag Free
Symbol:	IQ motif containing B1
Synonyms:	NPHP5; PIQ; SLSN5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC302221 representing NM_001023570.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGCCAACAGGTACAGACCCAAGGATCTTATCTATAGCTGCTGAAGTTGCAAAAAGCCCTGAGCAG
AATGTCCTGTTTACTGTTGAAGTTAAAGAAATAATAACATCACACCTTTAGGAAGCTCAGAGTTG
AAGAAAAACAAACAAGATATATATTGTTATGATCTCATTCAATATTGCCTCTTGGTCCTCAGTCAAGAT
TATTCTCGAATCCAGGTGGTTGGACTACAATTTCCAGCTTACACAGATTAAGCCATTGCTGTGTG
GGCTTGGAGCCAGGAGAAGATGCAGAGGAATTTACAATGAATTACTTCCATCAGCTGCAGAAAATTTT
CTAGTTTTGGGAGACAATTACAAACATGTTTTATCAATGCAGCTAAGGCTGAAGAAAAAGATGAATTA
CTACACTTTTTCCAAATTGTGACTGATTCTCTCTTCTGGCTTTTGGGAGGCCATGTTGAAGTTATTCAG
AATGTACTACAAAGTGATCATTTTCTTACATTTACTGCAAGCTGACAATGTCCAAATAGGATCTGCAGTC
ATGATGATGCTACAGAATATACTACAGATCAACAGTGGTATTTACTCAGAATAGGAAGAAAAGCCCTG
TATTCAATTTTAGATGAAGTTATTTTCAAGCTTTTTTCAACTCCTAGTCCAGTTATAAGAAGTACTGCT
ACAAAACCTCTACTGTTGATGGCTGAATCCCATCAGGAAATTTTATTTTACTGAGACAAAGTACCTGC
TACAAAGGACTCAGACGCTCTACTAAGTAAACAGGAACTGGGACTGAATTCAGTCAAGAACTTAGACAG
CTTGTTGGCCTTTTAAGCCCAATGGTCTATCAGGAAGTAGAAGAGCAGAACTACATCAAGCAGCATGC
TTGATTCAAGCCTATTGGAAGGGTTTTAGACAAGAAAGAGATTAAGAAGCTTCCATCTGCTGTGATT
GCTTTCAGAGAGGAGTTTCAGATCCAAACGATCAAAGATGTTGCTGGAGATAAATAGGCAGAAGGAAGAA
GAGGACCTCAAATTACAATTGCAACTTCAAAGACAGAGAGCCATGAGACTTTCCGAGAATTGCAGCTG
AGTATGCTCGAAATAGTTCATCCAGGTCAGGTGGAGAAACACTATCGGGAATGGAAGAGAAATCAGCA
CTGATTATCCAGAAACATTGGAGAGGGTACAGGGAAGGAAAAATTTTACCAACAGAGGCAGTCTCTC
ATAGAGTATAAAGCAGCTGTCACTTCAAAGAGCAGCGCTTAAATTCCTAGCGAAGTGCCGTAAGAAA
AAGAAACTATTTGCTCCTTGGCGAGGACTCCAAGAACTCACTGATGCACGCCGAGTTGAAGTGAAGAAA
CGAGTGGATGACTATGTCAGAAGACATTTGGGCTCTCCAATGTCAGATGTGGTCAGTAGGGAGCTCCAT
GCCCAAGCTCAAGAACGACTGCAACACTACTTTATGGGCAGGGCCCTAGAAGAGCGAGCCAGCAGCAC
AGAGAAGCTCTGATAGCACAGATCAGCACCAACGTTGAACAGCTAATGAAGGCACCAAGTCTGAAGGAG
GCAGAAGGGAAGAACCTGAGCTCTTCTAAGTAGATCCAGGCCTGTGGCAGCAAGGCCAAGCAGGCC
CATCTCACAACCCTGAAGCACATACAAGCACCTGGTGGAGAAGCTTGGAGAAGATCTGGAGATGAG
ATTGATGTTCAAAGGATGAGCTTAGTATAGAATTAGAAAATTTATTCATTGGTGAACCAACACCT
TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: Sgfl-MluI

ACCN: NM_001023570

Insert Size: 1797 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:	<u>NM_001023570.3</u>
RefSeq Size:	2596 bp
RefSeq ORF:	1797 bp
Locus ID:	9657
UniProt ID:	<u>Q15051</u>
Cytogenetics:	3q21.1
MW:	68.9 kDa
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] Transcript Variant: This variant (1) encodes the longer isoform (a). Variants 1 and 4 encoded the same isoform (a).