

Product datasheet for **SC320753**

IQ motif containing B1 (IQCB1) (NM_001023571) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IQ motif containing B1 (IQCB1) (NM_001023571) Human Untagged Clone
Tag:	Tag Free
Symbol:	IQ motif containing B1
Synonyms:	NPHP5; PIQ; SLSN5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001023571.1
 CGCTGTAGTGC GGCGCCCCAGGTTCTTTAGTGGAAGAACGCGAAGCGAGGATGAGTGATC
 CGTGGAGGCAGTAACAGGCGCGGCGAGGGAGAAGTGATTTCCCAAGAATCAAGGCTGGGC
 CGGACCCGGTGGCCTGGCAACAGGTAATAAGAGAAATGAAGCCAACAGGTACAGACCCA
 AGGATCTTATCTATAGCTGCTGAAGTTGCAAAAAGCCCTGAGCAGAATGTCCCTGTTATA
 CTGTTGAAGTTAAAAGAAATAATAAACATCACACCTTTAGGAAGCTCAGAGTTGAAGAAA
 ATCAAACAAGATATATTTGTTATGATCTCATTCAATATTGCCTCTTGGTCCTCAGTCAA
 GATTATTCTCGAATCCAGGGTGGTTGGACTACAATTTCCAGCTTACACAGATATTAAGC
 CATTGCTGTGTGGGCTTGAGCCAGGAGAAGATGCAGAGGAATTTACAATGAATTACTT
 CCATCAGCTGCAGAAAATTTTCTAGTTTTGGGGAGACAATTACAAACATGTTTTATCAAT
 GCAGCTAAGGCTGAAGAAAAAGATGAATTACTACACTTTTTCCAAATTGTGACTGATTCT
 CTCTTCTGGCTTTTGGGAGGCCATGTTGAACCTATTTCAGAAATGTACTACAAAGTGATCAT
 TTCTTACATTTACTGCAAGCTGACAATGTCCAAATAGGATCTGCAGTCATGATGATGCTA
 CAGAATATATTACAGATCAACAGATCCAAACGATCAAAGATGTTGCTGGAGATAAATAGG
 CAGAAGGAAGAAGAGGACCTCAAATTACAATTGCAACTTCAAAGACAGAGAGCCATGAGA
 CTTTCCCAGAAATTGCAGCTGAGTATGCTCGAAATAGTTCATCCAGGTACGGTGGAGAAA
 CACTATCGGGAATGGAAGAGAAATCAGCACTGATTATCCAGAAACATTGGAGAGGGTAC
 AGGGAAAGGAAAAATTTTACCACAGAGGCAGTCTCTCATAGAGTATAAAGCAGCTGTC
 ACACCTTCAAAGAGCAGCGCTTAAATTCCTAGCGAAGTACCGTAAGAAAAAGAACTATTT
 GCTCCTTGGCGAGGACTCCAAGAACTACTGATGCACGCCGAGTTGAAGTGAAGAAACGA
 GTGGATGACTATGTCAGAAGACATTTGGGCTCTCCAATGTCAGATGTGGTCAGTAGGGAG
 CTCCATGCCCAAGCTCAAGAAGCACTGCAACACTACTTTATGGGCAGGGCCCTAGAAGAG
 CGAGCCCAGCAGCACAGAGAAGCTCTGATAGCACAGATCAGCACCAACGTTGAACAGCTA
 ATGAAGGCACCAAGTCTGAAGGAGGCAGAAGGGAAAGAACTGAGCTCTTCCTAAGTAGA
 TCCAGGCCTGTGGCAGCCAAGGCCAAGCAGGCCATCTCACAACCCTGAAGCACATACAA
 GCACCCTGGTGAAGAAGCTTGAGAAGAATCTGGAGATGAGATTGATGTTCCAAAGGAT
 GAGCTTAGTATAGAATTAGAAAATTTATTCATTGGTGAACCAACACCTTAGTGAGTA
 ACCCTAAGAATTGACACAAATCTCATATTTAGGAGATTATATTGGTTCTGCCTCTGGCA
 TGCTGGTAGACTAGGGCCATCTAACTTATTATTTCCAGAGTTCTCCTCCAGACAAGA
 CCTGCAGTAAGCAAAGAGTTATATTCTACCTCTCTCAATTTTCTTTTCTTTCTCTG
 TATCCTCATCCTTAGCCACACAGATTTGTGTGGCTTTTATTGTAGAACTAACTTAGC
 ATAGTGTCTGTGTTTACATGAAGTGTGTTTTCTTTGGTTTCTCTGTTTTCCAATA
 AATATTTTTTCTAAATAAATATTTTCAACAATTGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001023571

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_001023571.1](#), [NP_001018865.1](#)

RefSeq Size: 1915 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]

Transcript Variant: This variant (3) lacks alternate in-frame exons in the CDS, compared to variant 1. The encoded isoform (c) is shorter, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.