

Product datasheet for **MC219586**

lqcb1 (NM_177128) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	lqcb1 (NM_177128) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	lqcb1
Synonyms:	6820449I09Rik; AV128382; NPHP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219586 representing NM_177128
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGAAGCCAGCCGGTACAGACCCAAGGATCTTGTCTTTAGCTGCTGAAGTTGCAAAAAGTCTGAACAAA
 ATGTTCTCTGTTATATTATTGAAGTTAAAAGAAATAATAACAACACCCCTTTGGGAAGCTCAGAGTTAAA
 GAAAGTTAAACAAGATATATATTGTTATGACCTCATTCACTATTGTCTATTGGTCTCAGTCAAGATTCT
 TCTCGAATCCAGGGTGGTTGGTCTACAATTTCCAGCTTACACAGATACTAAGCCATTGCTGTGTGGGCT
 TAGAGCCAGGAGAAGATGGAGAAGAATTTACAAGGAGTTACTTCCATCAGCTGCTGAAAATTTCTTAT
 CCTGGGAGAAGGTTACAACATGTTTCATCAATGCAACTAAGGGTGAAGAGCAAGATAAATTACTACAT
 TTTTCCAAATTGTGACTGATTCTCTCTTCTGGTTATTGGGAGGTCATGTTCAACTGATACAGAATGTAC
 TGCAGAGTGATCATTTCTTACACTTGCTGCAAACTGACAAATGTTCACTAGGAGCTTCAGTCATGACTCT
 GCTACAGAATATACTACAGATCAACAGTGGTAATTTACTCAAAATAGAAGGAAAAGCCCTGCATTCTATT
 TTAGATGAAATCTTTTCAAGCTTTTGTCAACTCCTAGTCCAGTCATAAGAAGTACTGCTACAAAGCTCC
 TGCTAGTACTGGCTGAATCCCATCAGGAAATTTGATTTTACTGAGACTAAGTGCCTGCTATAAAGGACT
 TAGAAGTCTGCTAAATAAACAGGAACTCTTACAGAATTTAGTCGAGAAGTTAGACAGCTCGTTGATCTT
 TTAACCCCTAAGATCCATCAGGAAGTAGAAGAACAGAACTACATAAAGCAGCTTGCTTGATTCAAGCCT
 ATTGGAAGGTTTCCAGACCAGAAAGAGATTAAAGAAGCTTCCGTCTGCTGTGATTGCCTTGCAGAGGAG
 TTTCAAGTCTAAACGAACAAAGATGATGTTGGAGCTAAATAGGCAGAAGGAAGAAGAACCTCAGATTA
 AAATTGCAACTTCAAAGACAGAGAGCAATGAGGCTTTCACGAGAGTCACGCTTGAACATGCTTGAAATAA
 TTCATCCAGGTCAAGTGGAGAAGTACAATAGGGAATGGAAGAGAAATCAGCATTGACTATTCAGAAACA
 TTGGAGGGGTACAGGGAAGGAAGAAATTTTCGCAACAGAGGCCATCTCTCACAGAGTATAAAGCAGCT
 GTCACACTTCAAAGAGCAGTTCTTAAATTCCTAGCAAAAGTGCCGTAAAGAAAAGAACTCTTTGCCTCTT
 GGCATGGACTTCAAGAACTCACTGATGCACGAGAGTTGAACTGAAGCAACAAGTGGACGATTATGTCAA
 AAGACACCCGTGCTCTCAGATGTCAGAGCGGCCAGCAGAGAGCTCCATGCACAAGCACAAGAACGACTT
 CAGCACTATTTTATGGGAAGAGCCATAGAAGAGCGAGCCAGCAACACAGAGAAGCTTTGATGGCTCAGA
 TCAGCACCAATATTGAACAGCTGATGAAGGCACCAAGTCTGAAGGAGGCAGAAGGAAAGGAAACCCGAGCA
 ATTCCTAAGTAGATCTAGGCCTGTGGCAGCCAAGGCCAAGCAGGCCCATCTTACCACCCTGAAGCACATA
 CAAGCACCTGGTGAAGAAGCTTGGAGAAGAACCAGGGGATGAGGTTGATGTTCCAAAGGATGAGCTTA
 GTATAGATTTAGGAATGTTATTTATCGGTGAACCAACCTCCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_177128

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).

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_177128.4](#), [NP_796102.2](#)

RefSeq Size: 2284 bp

RefSeq ORF: 1797 bp

Locus ID: 320299

UniProt ID: [Q8BP00](#)

Cytogenetics: 16 B3

Gene Summary: Involved in ciliogenesis. The function in an early step in cilia formation depends on its association with CEP290/NPHP6 (By similarity). Involved in regulation of the BBSome complex integrity, specifically for presence of BBS2 and BBS5 in the complex, and in ciliary targeting of selected BBSome cargos. May play a role in controlling entry of the BBSome complex to cilia possibly implicating CEP290/NPHP6 (By similarity).[UniProtKB/Swiss-Prot Function]