

Product datasheet for **MR209282**

lqcb1 (BC029084) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	lqcb1 (BC029084) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	lqcb1
Synonyms:	6820449I09Rik; AV128382; NPHP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR209282 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGAAGCCAGCCGGTACAGACCCAAGGATCTTGTCTTTAGCTGCTGAAGTTGCAAAAAGTCTGAACAAA
 ATGTTCTCTGTTATATTATTGAAGTTAAAAGAAATAATAACAACACCCCTTTGGGAAGCTCAGAGTTAAA
 GAAAGTTAAACAAGATATATATTGTTATGACCTCATTCACTATTGTCTATTGGTCTCAGTCAAGATTCT
 TCTCGAATCCAGGGTGGTTGGTCTACAATTTCCAGCTTACACAGATACTAAGCCATTGCTGTGTGGGCT
 TAGAGCCAGGAGAAGATGGAGAAGAATTTACAAGGAGTTACTTCCATCAGCTGCTGAAAATTTCTTAT
 CCTGGGAGAAGGTTACAACATGTTTCATCAATGCAACTAAGGGTGAAGAGCAAGATAAATTACTACAT
 TTTTCCAAATTGTGACTGATTCTCTCTTCTGGTTATTGGGAGGTCATGTTCAACTGATACAGAATGTAC
 TGCAGAGTGATCATTTCTTACACTTGTGCAAACTGACAAATGTTCACTAGGAGCTTCAGTCATGACTCT
 GCTACAGAATATACTACAGATCAACAGTGGTAATTTACTCAAAATAGAAGGAAAAGCCCTGCATTCTATT
 TTAGATGAAATCTTTTCAAGCTTTTGTCAACTCCTAGTCCAGTCATAAGAAGTACTGCTACAAAGCTCC
 TGCTAGTACTGGCTGAATCCCATCAGGAAATTTGATTTTACTGAGACTAAGTGCCTGCTATAAAGGACT
 TAGAAGTCTGCTAAATAAACAGGAACTCTTACAGAATTTAGTCGAGAAGTTAGACAGCTCGTTGATCTT
 TTAACCCCTAAGATCCATCAGGAAGTAGAAGAACAGAACTACATAAAGCAGCTTGCTTGATTCAAGCCT
 ATTGGAAGGTTTCCAGACCAGAAAAAGATTAAAGAAGCTTCCGTCTGCTGTGATTGCCTTGACAGAGGAG
 TTTGAGATCTAAACGAACAAAGATGATGTTGGAGCTAAATAGGCAGAAGGAAGAAGAACCTCAGATTA
 AAATTGCAACTTCAAAGACAGAGAGCAATGAGGCTTTACGAGAGTCACGCTTGAACATGCTTGAATAA
 TTCATCCAGGTCAAGTGGAGAAGTACAATAGGGAATGGAAGAGAAATCAGCATTGACTATTGAGAAACA
 TTGGAGGGGTACAGGGAAGGAAGAATTTTCGCCAACAGAGGCCATCTCTACAGAGTATAAAGCAGCT
 GTCACACTTCAAAGAGCAGTTCTTAAATTCCTAGCAAAAGTGCCGTAAAGAAAAGAACTCTTTGCCTCTT
 GGCATGGACTTCAAGAACTCACTGATGCACGAGAGTTGAACTGAAGCAACAAGTGGACGATTATGTCAA
 AAGACACCCGTGCTCTCAGATGTCAGAGCGGCCAGCAGAGAGCTCCATGCACAAGCACAAGAAGCAGCTT
 CAGCACTATTTTATGGGAAGAGCCATAGAAGAGCGAGCCAGCAACACAGAGAAGCTTTGATGGCTCAGA
 TCAGCACCAATATTGAACAGCTGATGAGTATGCTCTACCTCCATCCTTGTTCATAAATGGAATACCCCT
 TGCAAGAGATGTGGCATCAAACCTTTTAGAAGAAAAGTGCCACAAGTAGTCTTTATTACAGTCTCGGG
 AAGTCTTACATCATCCAGTTTTCAACTCTATACCTTCTGTTTGTGCTTGTATAAATCAAATATTTCAG
 GCTTCATCAAAATTACTAATTTCAAAGAAGTTATAATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209282 protein sequence
 Red=Cloning site Green=Tags(s)

MKPAGTDPRIILSLAAEVAKSPEQNPVILLKLKEIINNTPLGSSELKKVKQDIYCYDLIQYCLLVLSQDS
 SRIQGGWSTISQLTQILSHCCVLEPGEDGEFYKELLPSAAENFLILGRRLQTCFINATKGEEQDKLLH
 FFQIVTDSLFWLLGGHVLIQNVLQSDHFLHLLQTDNVQIGASVMTLLQNILQINSGNLLKIEGKALHSI
 LDEILFKLLSTPSPVIRSTATKLLLVLAEHQEILILLRLSACYKGLRSLLNKQETLTFESRELRLVDL
 LTPKIHQEVVEEQLHKAACLIQAYWKGFTKRRLKKLPSAVIALQRSFRSKRTKMMLNLRQKEEDLRL
 KLQLQRQRAMRLSRESRLNMLEIIHPGQVEKYNREMEEKSAITIQKHWRYRERKNFRQQRPSL TEYKAA
 VTLQRAVLKFLAKCRKKKKLFASWHGLQELTDARRVELKQQVDDYVVRHPCSQMSEASRELHAQAQERL
 QHYFMGRAIEERAQQHREALMAQISTNIEQLMSMLYLHPCFINGIPLARDVASKLFRRKVPQVVF IQVLG
 KSYIIPVFNSIPSVACACYKFKYFSFIKITNFKEVIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC029084

ORF Size: 1791 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: [BC029084](#), [AAH29084](#)

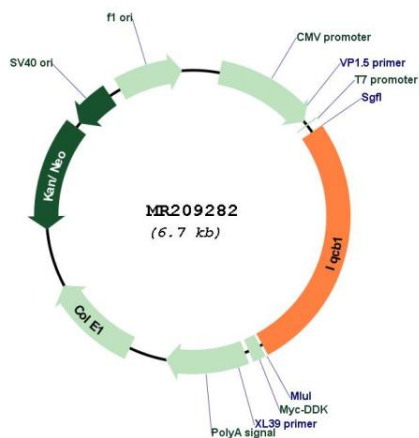
RefSeq Size: 2809 bp

RefSeq ORF: 1793 bp

Locus ID: 320299

Cytogenetics:	16 B3
MW:	69.1 kDa
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]

Product images:



Circular map for MR209282