

Product datasheet for **MG209282**

lqcb1 (BC029084) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	lqcb1 (BC029084) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	lqcb1
Synonyms:	6820449I09Rik; AV128382; NPHP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209282 representing BC029084
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCCAGCCGGTACAGACCCAAGGATCTTGTCTTTAGCTGCTGAAGTTGCAAAAAGTCTGAACAAA
 ATGTTCTCTGTTATATTATTGAAGTTAAAAGAAATAATAACAACACCCCTTTGGGAAGCTCAGAGTTAAA
 GAAAGTTAAACAAGATATATATTGTTATGACCTCATTCACTATTGTCTATTGGTCTCAGTCAAGATTCT
 TCTCGAATCCAGGGTGGTTGGTCTACAATTTCCAGCTTACACAGATACTAAGCCATTGCTGTGTGGGCT
 TAGAGCCAGGAGAAGATGGAGAAGAATTTACAAGGAGTTACTTCCATCAGCTGCTGAAAATTTCTTAT
 CCTGGGAGAAGGTTACAACATGTTTCATCAATGCAACTAAGGGTGAAGAGCAAGATAAATTACTACAT
 TTTTCCAAATTTGACTGATTCTCTCTCTGGTTATTGGGAGGTCATGTTCAACTGATACAGAATGTAC
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 TGCTAGTACTGGCTGAATCCCATCAGGAAATTTGATTTTACTGAGACTAAGTGCCTGCTATAAAGGACT
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 CAGCACTATTTTATGGGAAGAGCCATAGAAGAGCGAGCCAGCAACACAGAGAAGCTTTGATGGCTCAGA
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 TGCAAGAGATGTGGCATCAAACCTTTTAGAAGAAAAGTGCCACAAGTAGTCTTTATTACAGTCTCGGG
 AAGTCTTACATCATCCAGTTTTCAACTCTATACCTTCTGTTTGTGCTTGTATAAATCAAATATTCA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

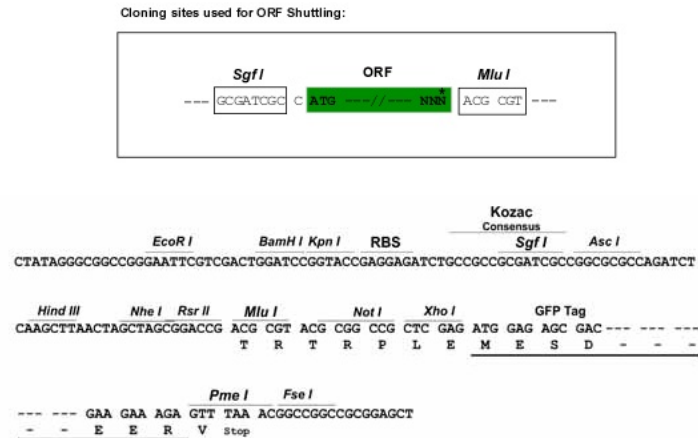
>MG209282 representing BC029084
 Red=Cloning site Green=Tags(s)

MKPAGTDPRIILSLAAEVAKSPEQNVPIVILLKLKEIINNTPLGSSELKKVKQDIYCYDLIQYCLLVLSQDS
 SRIQGGWSTISQLTQILSHCCVLEPGEDGEFYKELLPSAAENFLILGRRLQTCFINATKGEEQDKLLH
 FFQIVTDSLFWLLGGHVQLIQNVLQSDHFLHLLQTDNVQIGASVMTLLQNILQINSGNLLKIEGKALHSI
 LDEILFKLLSTSPVIRSTATKLLLVLAEHQEILILLRLSACYKGLRSLLNKQETLTFESRELRLVDL
 LTPKIHQEVVEEQLHKAACLIQAYWKGFTKRLLKLPASVIALQRSFRSKRTKMMLNLRQKEEDLRL
 KLQLQRQRAMRLSRESRLNMLEIIHPGQVEKYNREMEESALTIQKHWRGYRERKNFRQQRPSL TEYKAA
 VTLQRAVLKFLAKCRKKKLFASWHGLQELTDARRVELKQVDDYVVRHPCSQMSEASRELHAQAQERL
 QHYFMGRAIEERAQQHREALMAQISTNIEQLMSMLYLHPCFINGIPLARDVASKLFRRKVPQVVFQVVLG
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

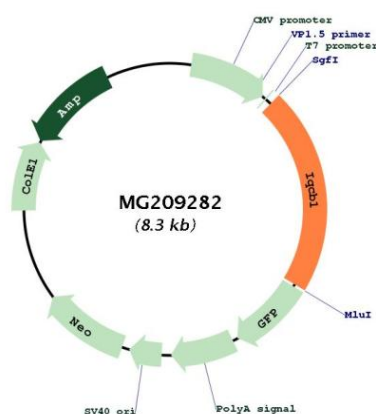
Cloning Scheme:


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

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 MG209282