

# Product datasheet for MR209282L4

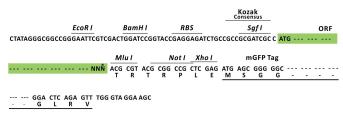
# Iqcb1 (BC029084) Mouse Tagged Lenti ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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| Product Type:                | Expression Plasmids                                                                      |
|------------------------------|------------------------------------------------------------------------------------------|
| Product Name:                | lqcb1 (BC029084) Mouse Tagged Lenti ORF Clone                                            |
| Tag:                         | mGFP                                                                                     |
| Symbol:                      | lqcb1                                                                                    |
| Synonyms:                    | 6820449I09Rik; AV128382; NPHP5                                                           |
| Mammalian Cell<br>Selection: | Puromycin                                                                                |
| Vector:                      | pLenti-C-mGFP-P2A-Puro (PS100093)                                                        |
| E. coli Selection:           | Chloramphenicol (34 ug/mL)                                                               |
| ORF Nucleotide<br>Sequence:  | The ORF insert of this clone is exactly the same as(MR209282).                           |
| <b>Restriction Sites:</b>    | Sgfl-Mlul                                                                                |
| Cloning Scheme:              |                                                                                          |
|                              | Cloning sites used for ORF Shuttling:                                                    |
|                              | Sgf I         ORF         Mlu I            GCG ATC GC         ATG // NNÑ         ACG CGT |
|                              |                                                                                          |



\* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: BC029084 1791 bp



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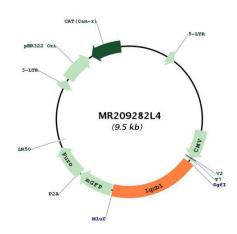
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| <b>Gene</b> Iqcb1 (BC029084) Mouse Tagged Lenti ORF Clone – MR209282L4 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. <u>More info</u>                                  |
| 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:                                                 | <ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| Note:                                                                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                   |
| RefSeq:                                                                | <u>BC029084</u> , <u>AAH29084</u>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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]      |

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# **Product images:**



Circular map for MR209282L4

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