

## Product datasheet for **MR207235L4V**

### Oc90 (BC048716) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | Lentiviral Particles                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product Name:             | Oc90 (BC048716) Mouse Tagged ORF Clone Lentiviral Particle                                                                                                                                                                                                                                                                                                                                                                                         |
| Symbol:                   | Oc90                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Synonyms:                 | PLA2L, Ocn-95                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Mammalian Cell Selection: | Puromycin                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tag:                      | mGFP                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ACCN:                     | BC048716                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ORF Size:                 | 1359 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR207235).                                                                                                                                                                                                                                                                                                                                                                                     |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                               |
| RefSeq:                   | <a href="#">BC048716</a> , <a href="#">AAH48716</a>                                                                                                                                                                                                                                                                                                                                                                                                |
| RefSeq Size:              | 1701 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RefSeq ORF:               | 1361 bp                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Locus ID:                 | 18256                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cytogenetics:             | 15 29.16 cM                                                                                                                                                                                                                                                                                                                                                                                                                                        |


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**Gene Summary:**

Major protein of the otoconia, a calcium carbonate structure in the saccule and utricle of the ear (PubMed:17300776). Together with OTOL1, acts as a scaffold for otoconia biomineralization: sequesters calcium and forms interconnecting fibrils between otoconia that are incorporated into the calcium crystal structure (PubMed:21655225, PubMed:24748133). Together with OTOL1, modulates calcite crystal morphology and growth kinetics (PubMed:24748133). It is unlikely that this protein has phospholipase A2 activity (PubMed:17300776).[UniProtKB/Swiss-Prot Function]