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# Product datasheet for RC204693L2V

## Aquaporin 4 (AQP4) (NM_001650) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | Aquaporin 4 (AQP4) (NM_001650) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | Aquaporin 4 |
| **Synonyms:** | MIWC; WCH4 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pLenti-C-mGFP (PS100071) |
| **Tag:** | mGFP |
| **ACCN:** | NM_001650 |
| **ORF Size:** | 969 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC204693). |
| **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. |
| **RefSeq:** | NM_001650.4 |
| **RefSeq Size:** | 5216 bp |
| **RefSeq ORF:** | 972 bp |
| **Locus ID:** | 361 |
| **UniProt ID:** | P55087 |
| **Cytogenetics:** | 18q11.2 |
| **Domains:** | MIP |
| **Protein Families:** | Druggable Genome, Transmembrane |

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**MW:** 34.6 kDa

**Gene Summary:** This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. This protein is the predominant aquaporin found in brain and has an important role in brain water homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. Additional isoforms, resulting from the use of alternative in-frame translation initiation codons, have also been described. Recent studies provided evidence for translational readthrough in this gene, and expression of C-terminally extended isoforms via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Jun 2018]

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