

Product datasheet for RC212148L3

OriGene Technologies, Inc.

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Aquaporin 4 (AQP4) (NM_004028) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Aquaporin 4 (AQP4) (NM_004028) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Aquaporin 4

Synonyms: MIWC; WCH4

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

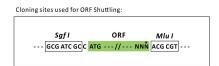
E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC212148).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_004028

ORF Size: 903 bp



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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.

RefSeq: <u>NM 004028.3</u>

RefSeq Size: 5136 bp
RefSeq ORF: 906 bp
Locus ID: 361

 UniProt ID:
 P55087

 Cytogenetics:
 18q11.2

Protein Families: Druggable Genome, Transmembrane

MW: 32.3 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]