

Product datasheet for RC212363L3V

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Aquaporin 7 (AQP7) (NM_001170) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: Aquaporin 7 (AQP7) (NM 001170) Human Tagged ORF Clone Lentiviral Particle

Symbol: Aquaporin 7

Synonyms: AQP7L; AQPap; GLYCQTL

Mammalian Cell

Selection:

Puromycin

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

 Tag:
 Myc-DDK

 ACCN:
 NM_001170

ORF Size: 1026 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC212363).

Sequence:
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: <u>NM 001170.1</u>

RefSeq Size: 1258 bp
RefSeq ORF: 1029 bp
Locus ID: 364

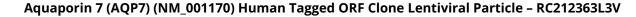
UniProt ID: <u>O14520</u>

Cytogenetics: 9p13.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: PPAR signaling pathway





MW:

ORIGENE

37.1 kDa

Gene Summary:

This gene encodes a member of the aquaporin family of water-selective membrane channels. The encoded protein localizes to the plasma membrane and allows movement of water, glycerol and urea across cell membranes. This gene is highly expressed in the adipose tissue where the encoded protein facilitates efflux of glycerol. In the proximal straight tubules of kidney, the encoded protein is localized to the apical membrane and prevents excretion of glycerol into urine. The encoded protein is present in spermatids, as well as in the testicular and epididymal spermatozoa suggesting an important role in late spermatogenesis. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. This gene is located adjacent to a related aquaporin gene on chromosome 9. Multiple pseudogenes of this gene have been identified. [provided by RefSeq, Dec 2015]