

#### OriGene Technologies, Inc.

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# Product datasheet for RC212363

### Aquaporin 7 (AQP7) (NM\_001170) Human Tagged ORF Clone

#### Product data:

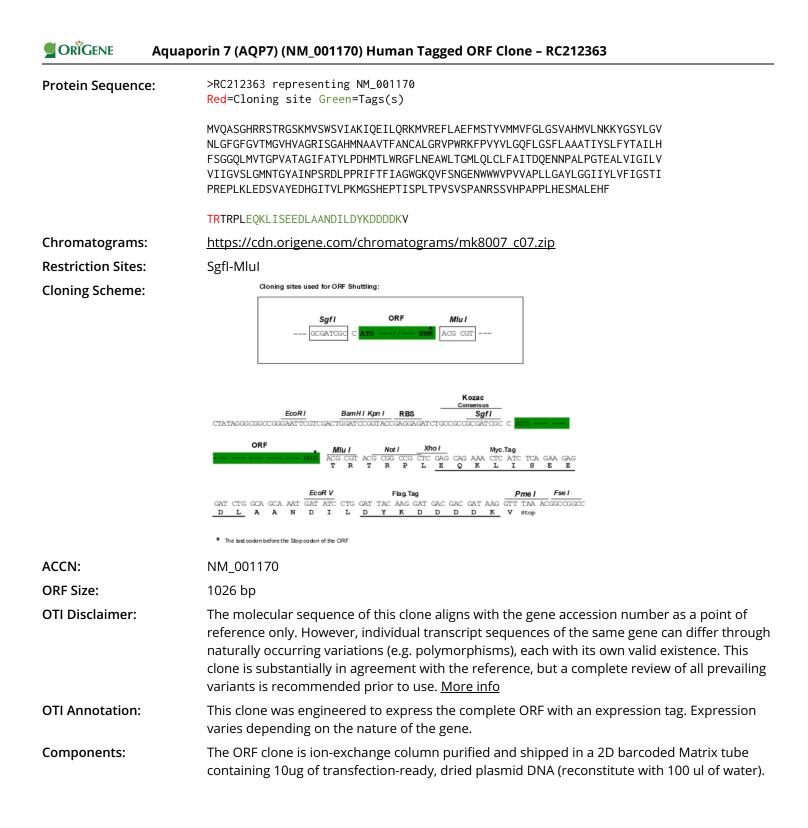
Product Type:	Expression Plasmids
Product Name:	Aquaporin 7 (AQP7) (NM_001170) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aquaporin 7
Synonyms:	AQP7L; AQPap; GLYCQTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC212363 representing NM_001170 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA** 



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## Service Aquaporin 7 (AQP7) (NM\_001170) Human Tagged ORF Clone – RC212363

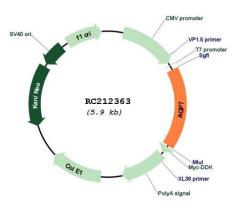
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to 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>NM 001170.3</u>
RefSeq Size:	1258 bp
RefSeq ORF:	1029 bp
Locus ID:	364
UniProt ID:	<u>014520</u>
Cytogenetics:	9p13.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	PPAR signaling pathway
MW:	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]

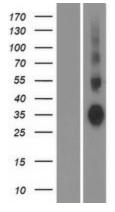
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### **Product images:**



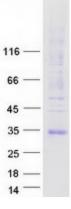
Circular map for RC212363



Western blot validation of overexpression lysate (Cat# [LY420089]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212363 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified AQP7 protein (Cat# [TP312363]). The protein was produced from HEK293T cells transfected with AQP7 cDNA clone (Cat# RC212363) using MegaTran 2.0 (Cat# [TT210002]).

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