

## Product datasheet for **RG212363**

### 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:	TurboGFP
Symbol:	Aquaporin 7
Synonyms:	AQP7L; AQPap; GLYCQTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212363 representing NM_001170 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTCAAGCATCCGGGCACAGGCGGTCCACCCGTGGCTCCAAAATGGTCTCCTGGTCCGTGATAGCAA  
AGATCCAGGAAATACTGCAGAGGAAGATGGTGCAGAGTTCCTGGCCGAGTTCATGAGCACATATGTCAT  
GATGGTATTCGGCCTTGGTTCCGTGGCCCATATGGTCTAAATAAAAAATATGGGAGCTACCTTGGTGTC  
AACTTGGGTTTTGGCTTCGGAGTCACCATGGGAGTGCACGTGGCAGGCCGCATCTCTGGAGCCCACATGA  
ACGCAGCTGTGACCTTTGCTAACTGTGCGCTGGGCCGCGTGCCCTGGAGGAAGTTCCGGTCTATGTGCT  
GGGCAGTTCCTGGGCTCCTTCCTGGCGGCTGCCACCATCTACAGTCTCTTCTACACGGCCATTCTCCAC  
TTTTCCGGTGGACAGCTGATGGTGACCGGTCCCGTCGCTACAGCTGGCATTTTTTGCCACCTACCTTCCTG  
ATCACATGACATTGTGGCGGGGCTTCTGAATGAGGCGTGGTGACCGGGATGCTCCAGCTGTGTCTCTT  
CGCCATCACGGACCAGGAGAACAACCCAGCACTGCCAGGAACAGAGGCGCTGGTGATAGGCATCCTCGTG  
GTCATCATCGGGGTGCCCTTGGCATGAACACAGGATATGCCATCAACCCGTCCCGGGACCTGCCCCCC  
GCATCTCACCTTCAATTGCTGGTGGGGCAAACAGGTCTTCAGCAATGGGAGAAGTGGTGGTGGTGCC  
AGTGGTGGCACCCTTCTGGGTGCCTATCTAGGTGGCATCATCTACCTGGTCTTCATTGGCTCCACCATC  
CCACGGGAGCCCTGAAATTGGAGGATTCTGTGGCGTATGAAGACCAGGGATAACCGTATTGCCAAGA  
TGGGATCTCATGAACCCACGATCTCTCCCTCACCCCGTCTGTGAGCCTGCCAACAGATCTTCAGT  
CCACCCTGCCCCACCCTTACATGAATCCATGGCCCTAGAGCACTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

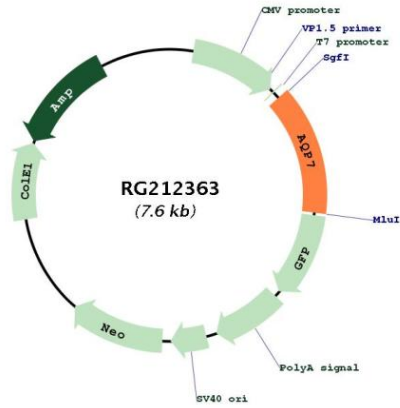


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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001170.3</a>
<b>RefSeq Size:</b>	1258 bp
<b>RefSeq ORF:</b>	1029 bp
<b>Locus ID:</b>	364
<b>UniProt ID:</b>	<a href="#">O14520</a>
<b>Cytogenetics:</b>	9p13.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	PPAR signaling pathway
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG212363