

## Product datasheet for **MG204243**

### Aqp7 (NM\_007473) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aqp7 (NM\_007473) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Aqp7  
**Synonyms:** AQP7L; AQPap  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204243 representing NM\_007473  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGCCCCAGGTCTGTGCTGGAGACCATAACAATCAGTGCTACAGAAGAATATGGTGCGAGAGTTTCTGG  
 CAGAGTTCCTGAGTACCTATGTCATGATGGTGTGGCCTTGGTCCGTGGCTCACATGGTTTTAGGAGA  
 AAACCTCTGGCAGCTATCTCGGTGTCAACTTGGGTTTTGGATTCCGAGTGACCATGGGAGTCCATGTAGCA  
 GCGGCATCTCTGGGGCCACATGAATGCCGCAGTGACTTTCACCAATTGTGCACTAGGCCGAATGACCT  
 GGAAGAAGTCCCTGTATATGTGCTGGGTCACTTCTGGGCTCCTCTCAGCTGCAGCTACCACCTACTT  
 AATTTTCTATGGTGCCATTAACCACTTTGCAGGCGGAGACCTGTTGGTGACAGGTTCCAAGGCCACTGCA  
 AACATTTTTGCCACCTATCTTCCCTGAATACATGACACTGTGGCGGGCTTCTGGATGAGGCATTCGTGA  
 CTGGGATGCTGCAGCTGTGTCTCTTCGCCATCACCGACAAGAAGAAGCAGTCCAGCACTTCAAGGGACCGA  
 GCCCTCGTGATAGGCATCCTTGTACCCTGCTGGGGTGTGCTAGGCATGAACTCCGGATATGCAATC  
 AACCCATCCCCTGACCTGCCTCCCGGTTGTTCACTTTTCATTGCTGGCTGGGGCAACAAGTGTTCAGAG  
 CCGAAACAACCTGGTGGTGGGTGCCGGTGGTGGCACCCTCTGGGCGCCTACCTAGGTGGTATTGTATA  
 CCTGGGTTTAATTCACCCAGCATACCACAGGATCCTCAGAGACTGGAGAATTTTACAGCAAGAGACCAG  
 AAGGTAAGTGCATCATAAAGAATGCAGCTTCTGCAAACATAAGTGGCTCTGTGCCTCTAGAGCACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204243 representing NM\_007473  
 Red=Cloning site Green=Tags(s)

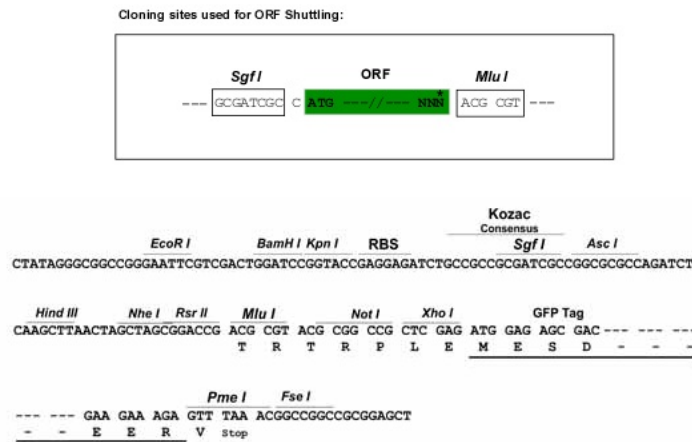
MAPRSVLETIQSVLQKNMVFRELAEFLSTYVMMVFGLGSVAHMVLGENSGSYLGVNLGFGFGVTMGVHVA  
 GGISGAHMNAAVFTNCALGRMTWKKFPVYVLGQFLGSFSAATTYLIFYGAINHFAGGDLVLTGSKATA  
 NIFATYLPPEYMTLWRGFLDEAFVTGMLQLCLFAITDKKNPALQGTEPLVIGILVTVLGVSLGMNSGYAI  
 NPSRDLPPRLF TFIAGWGKQVFRAGNNWWWVVPVAPLLGAYLGGIVYVGLIHPSIPQDPQRLNF TARDQ  
 KVTASYKNAASANISGSVPLEHF

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3313\\_g12.zip](https://cdn.origene.com/chromatograms/ja3313_g12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007473

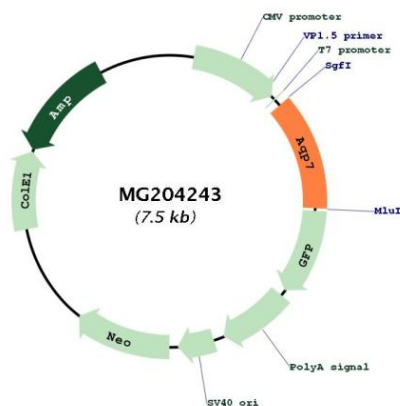
**ORF Size:** 909 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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_007473.4</a>
<b>RefSeq Size:</b>	2524 bp
<b>RefSeq ORF:</b>	912 bp
<b>Locus ID:</b>	11832
<b>UniProt ID:</b>	<a href="#">O54794</a>
<b>Cytogenetics:</b>	4 A5
<b>Gene Summary:</b>	Forms a channel that mediates water and glycerol transport across cell membranes at neutral pH (PubMed:15591341, PubMed:15746100, PubMed:16009937). The channel is also permeable to urea (By similarity). Plays an important role in body energy homeostasis under conditions that promote lipid catabolism, giving rise to glycerol and free fatty acids (PubMed:15591341, PubMed:16009937). Mediates glycerol export from adipocytes (PubMed:15591341, PubMed:15746100, PubMed:16009937). After release into the blood stream, glycerol is used for gluconeogenesis in the liver to maintain normal blood glucose levels and prevent fasting hypoglycemia (PubMed:15591341). Required for normal glycerol reabsorption in the kidney (PubMed:15998844, PubMed:17077387).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204243