

## Product datasheet for **MG221962**

### Aqp9 (NM\_022026) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aqp9 (NM_022026) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aqp9
Synonyms:	1700020I22Rik; A1266899; AQP-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221962 representing NM_022026 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTTCTGAGAAGGACCGAGCCAAGAAGAACCTCGTGCAGAGGCTGGCCCTGAAGAGCTGTCTGGCTA  
AGGAGACACTCTCTGAGTTCCTGGGCACCTTTATAATGATTGTCCTTGGATGTGGCTCTATTGCTCAAGC  
AGTCCTCAGTCGAGAAAAGGCTGGTGGGATCATCACTATCAATATTGGATTTGCAACGGCAGTTGTGATG  
GCTCTTTATGCGACTTTTGGTGTCTCTGGGGCCACATCAACCCAGCGGTGTCTTTTGAATGTGCACCT  
TTGGAAGGATGGAGTGGTTCAAGTTCGCCCTTTTATGTGGGAGCTCAGCTTTTGGGAGCCTTTGTCTGGGGC  
TGCAACTGTCTTTGGCATTACTATGACGGACTCATGGCCTTTGCTGATGAAAAGCTGCTCATCACGGGA  
GAAAATGGAACGGCGTTCATTTTCGCGACATACCCAAAACCATTTGTATCCGTGCCAGGTGCCTTTGTAG  
ACCAAGTGGTGTCTACCATGTTCCCTCTCTGATTGTCTTTGCCATCTTTGACTCCAGAAACCTGGGGGT  
CCCCAGAGGCCTGGAGCCCATTGTCAATGGCCTCCTAATCATTGTCAATTCCTGTCTCTCGGACTCAAC  
TCTGGTTGTGCCATGAACCCTGCTCGAGACCTCAGCCCCAGGCTCTTCACTGCTCTGGCAGGATGGGGAT  
TTGAGGTCTTACATTTGGAAATAACTTCTGGTGGATACCTGTCGTGGGCCCTATGATTGGAGCTGTCT  
GGGAGGTCTCATCTATGTTCTTTTATCCAATGCATCACTCGAACCCCGACCCAGAAGTGAAGGCAGAA  
CCAGCCGAGAACAATCTAGAAAAACACGAACTCAGCGTCATCATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221962 representing NM\_022026  
 Red=Cloning site Green=Tags(s)

MPSEKDRAKKNLVQRLALKSCLAKETLSEFLGTFIMIVLGGCSIAQAVLSREKAGGIITINIGFATAVVM  
 ALYATFGVSGGHINPAVSFAMCTFGRMEWFKFPFYVGAQLLGAFVGAATVFGIYYDGLMAFADGKLLITG  
 ENGTAFIFATYKPFVSVPGAFVDQVSTMFLLLIVFAIFDSRNLGVPRGLEPIVIGLLIIVISCSLGLN  
 SGCAMNPARDLSPRLFTALAGWGFVFTFGNNFWIIPVVGPMIGAVLGGLIYVLFIQMHHSNPDPEVKAE  
 PAENNLEKHELVSIM

TRTRPLE - GFP Tag - V

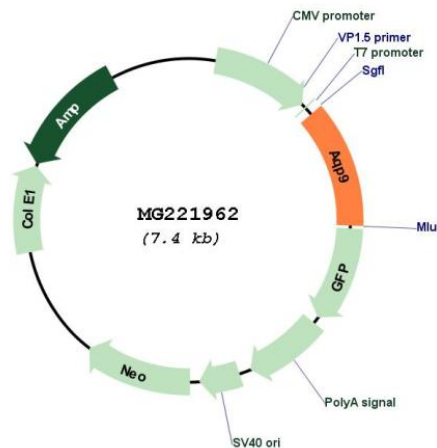
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_022026

**ORF Size:** 885 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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_022026.3</a>
<b>RefSeq Size:</b>	2644 bp
<b>RefSeq ORF:</b>	888 bp
<b>Locus ID:</b>	64008
<b>UniProt ID:</b>	<a href="#">Q9J113</a>
<b>Cytogenetics:</b>	9 D
<b>Gene Summary:</b>	<p>This gene encodes a member of the aquaglyceroporin subfamily of aquaporins. This protein transports water, glycerol, urea, purines and pyrimidines and plays a role in glycerol metabolism and osteoclast differentiation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]</p>