

## Product datasheet for MR201851

### Aqp9 (BC024105) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aqp9 (BC024105) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Aqp9  
**Synonyms:** 1700020I22Rik; A1266899; AQP-9  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201851 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCTTCTGAGAAGGACCGAGCCAAGAAGAACCTCGTGCAGAGGCTGGCCCTGAAGAGCTGTCTGGCTA  
 AGGAGACACTCTCTGAGTTCCTGGGCACCTTTATAATGATTGTCCTGGATGTGGCTCTATTGCTCAAGC  
 AGTCCCTCAGTCGAGAAAAGGCTGGTGGGATCATCACTATCAATATTGGATTTGCAACGGCAGTTGTGATG  
 GCTCTTTATGCGACTTTTGGTGTCTCTGGGGCCACATCAACCCAGCGGTCTTTTGAATGTGCACCT  
 TTGGAAGGATGGAGTGGTTCAAGTCCCTTTTATGTGGGAGCTCAGCTTTTGGGAGCCTTTGTCTGGGGC  
 TGCAACTGTCTTTGGCATTACTATGACGGACTCATGGCCTTTGCTGATGGAAAGCTGCTCATCACGGGA  
 GAAAATGGAACGGCGTTCATTTTCGCGACATACCCAAAACCATTTGTATCCGTGCCAGGTGCCTTTGTAG  
 ACCAAAGCCCATGGCCTAGGCGCATCACACATAAAAAGGGAGCTCCAGAATTTTGTCTGCAATACGAGG  
 GGTTGAGAACAGGCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201851 protein sequence  
 Red=Cloning site Green=Tags(s)

MPSEKDRAKKNLVQRLALKSCLAKETLSEFLGTFIMIVLGCISIAQAVLSREKAGGIITINIGFATAVVM  
 ALYATFGVSGGHINPAVSFAMCTFGRMEWFKFPFYVGAQLLGAFFVGAATVFGIYYDGLMAFADGKLLITG  
 ENGTAFIFATYKPFVSVPGAFVDQSPWPRRITHIKGSSRILSAIRGVENRP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC024105

ORF Size: 576 bp

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.

Components: 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [BC024105](#), [AAH24105](#)

RefSeq Size: 2782 bp

RefSeq ORF: 578 bp

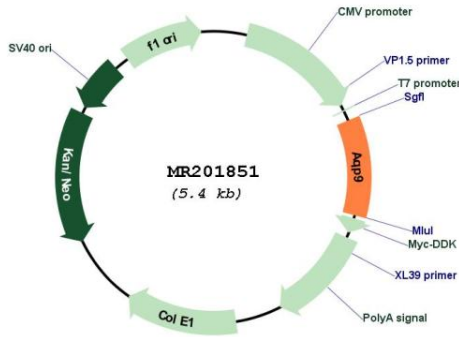
Locus ID: 64008

Cytogenetics: 9 D

**MW:** 20.6 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR201851