

## **Product datasheet for MG226214**

## Aqp5 (NM\_009701) Mouse Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Aqp5 (NM\_009701) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Aqp5

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG226214 representing NM\_009701

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GAAGACCATCGAGCTGACGGCACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Protein Sequence: >MG226214 representing NM\_009701

Red=Cloning site Green=Tags(s)

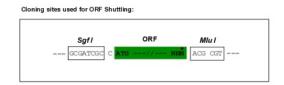
MKKEVCSVAFFKAVFAEFLATLIFVFFGLGSALKWPSALPTILQISIAFGLAIGTLAQALGPVSGGHINP AITLALLIGNQISLLRAIFYVAAQLVGAIAGAGILYWLAPGNARGNLAVNALSNNTTPGKAVVVELILTF QLALCIFSSTDSRRTSPVGSPALSIGLSVTLGHLVGIYFTGCSMNPARSFGPAVVMNRFSPSHWVFWVGP IVGAVLAAILYFYLLFPSSLSLHDRVAVVKGTYEPEEDWEDHREERKKTIELTAH

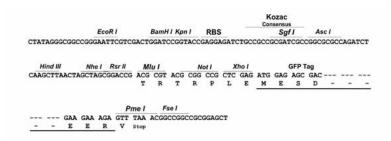
TRTRPLE - GFP Tag - V

Chromatograms: <a href="https://cdn.origene.com/chromatograms/ja3029">https://cdn.origene.com/chromatograms/ja3029</a> f08.zip

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_009701

ORF Size: 795 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 <a href="mailto:customercom">customercom</a> 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

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: <u>NM 009701.4</u>, <u>NP 033831.1</u>

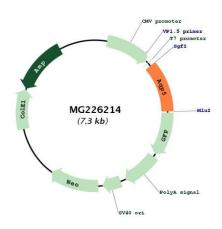
RefSeq Size: 1551 bp
RefSeq ORF: 798 bp
Locus ID: 11830
UniProt ID: Q9WTY4
Cytogenetics: 15 56.13 cM

**Gene Summary:** Forms a water-specific channel (By similarity). Plays an important role in fluid secretion in

salivary glands (PubMed:10400615, PubMed:16571723, PubMed:18027168). Required for TRPV4 activation by hypotonicity. Together with TRPV4, controls regulatory volume decrease in salivary epithelial cells (PubMed:16571723). Seems to play a redundant role in water transport in the eye, lung and in sweat glands (PubMed:10619865, PubMed:12042359,

PubMed:18027168).[UniProtKB/Swiss-Prot Function]

## **Product images:**



Circular map for MG226214