

Product datasheet for **RG206069**

Aquaporin 5 (AQP5) (NM_001651) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aquaporin 5 (AQP5) (NM_001651) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aquaporin 5
Synonyms:	AQP-5; PPKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206069 representing NM_001651 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAAGGAGGTGTGCTCCGTGGCCTTCCTCAAGGCCGTGTTTCGAGAGTTCTTGCCACCCTCATCT
TCGTCTTCTTTGGCCTGGGCTCGGCCCTCAAGTGGCCGTCGGCGCTGCCTACCATCCTGCAGATCGCGCT
GGCGTTTGGCCTGGCCATAGGCACGCTGGCCAGGCCCTGGGACCCGTGAGCGGGCCACATCAACCC
GCCATCACCTGGCCCTCTTGGTGGCAACCAGATCTCGCTGCTCCGGGTTTCTTCTACGTGGCGGCC
AGCTGGTGGCGCCATTGCCGGGCTGGCATCCTCTACGGTGTGGCACCCTCAATGCCCGGGCAATCT
GGCCGTCAACGCGCTCAACAACAACACAACGCAGGGCCAGGCCATGGTGGTGGAGCTGATTCTGACCTTC
CAGCTGGCACTCTGCATCTTCGCCTCCACTGACTCCCGCCGCACCAGCCCTGTGGGCTCCCCAGCCCTGT
CCATTGGCCTGTCTGTACCCCTGGGCCACCTTGTGCGAATCTACTTCACTGGCTGCTCCATGAACCCAGC
CCGCTCTTTTGGCCCTGCGGTGGTCATGAATCGGTTTCAGCCCCGCTCACTGGGTTTTCTGGGTAGGGCC
ATCGTGGGGCGGTCTGGCTGCCATCCTTTACTTCTACTGCTTCCCCAACTCCCTGAGCCTGAGTG
AGCGTGTGGCCATCATCAAAGGCACGTATGAGCCTGACGAGGACTGGGAGGAGCAGCGGGAAGAGCGGAA
GAAGACCATGGAGCTGACCACCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206069 representing NM_001651
 Red=Cloning site Green=Tags(s)

MKKEVCSVAFLKAVFAEFLATLIFVFFGLGSALKWPSALPTILQIALAFGLAIGTLAQUALGPVSGGHINP
 AITLALLVGNQISLLRAFFYVAAQLVGAIAAGILYGVAPLNARGNLAVNALNNNTTQGQAMVVELILTF
 QLALCIFASTDSRRTSPVGPALSIGLSVTLGHLVGIYFTGCSMNPARSFGPAVVMNRFSPAHWVFWVGP
 IVGAVLAAILYFYLLFPNSLSLSEVAIIKGTYPDEDWEEQREERKKTMELTTR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001651

ORF Size: 795 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001651.4](#)

RefSeq Size: 1316 bp

RefSeq ORF: 798 bp

Locus ID: 362

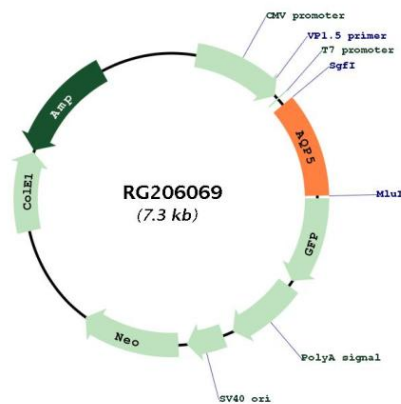
UniProt ID: [P55064](#)

Cytogenetics: 12q13.12

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Aquaporin 5 (AQP5) is a water channel protein. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). Aquaporin 5 plays a role in the generation of saliva, tears and pulmonary secretions. AQP0, AQP2, AQP5, and AQP6 are closely related and all map to 12q13. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206069