

Product datasheet for **RG224567**

Aquaporin 9 (AQP9) (NM_020980) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Aquaporin 9 (AQP9) (NM_020980) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Aquaporin 9 |
| Synonyms: | AQP-9; HsT17287; SSC1; T17287 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG224567 representing NM_020980 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCCTGAGGGAGCAGAAAAGGAAAAAGCTTCAAGCAGAGACTGGTCTTGAAGAGCAGCTTAGCGA
AAGAAACCCTCTGAGTTCTTGGGCACGTTTCATCTTGATTGTCCTTGGATGTGGCTGTGTTGCCAAGC
TATTCTCAGTCGAGGACGTTTTGGAGGGGTCATCACTATCAATGTTGGATTTTCAATGGCAGTTGCAATG
GCCATTTATGTGGCTGGCGGTGTCTCTGGTGGTCACATCAACCCAGCTGTGTCTTAGCAATGTGTCTCT
TTGGACGGATGAAATGGTTCAAATTGCCATTTTATGTGGGAGCCAGTTCTTGGGAGCCTTGTGGGGGC
TGCAACCGTCTTTGGCATTACTATGATGGACTTATGTCCTTGTGGTGGAAAACCTGCTGATCGTGGGA
GAAAATGCAACAGCACACATTTTGAACATACCCAGCTCCGATCTATCTCTGGCGAACGCATTTGCGAG
ATCAAGTGGTGGCCACCATGATACTCCTCATAATCGTCTTTGCCATTTTGGACTCCAGAACTTGGGAGC
CCCCAGAGGCCTAGAGCCATTGCCATCGGCCTCCTGATTATTGTCATTGCTTCTCCCTGGGACTGAAC
AGTGGCTGTGCCATGAACCCAGCTCGAGACCTGAGTCCCAGACTTTTCACTGCCTTGGCAGGCTGGGGGT
TTGAAGTCTTCAGAGCTGGAAACAATTCTGGTGGATTCTGTAGTGGGCCCTTTGGTTGGTGCTGTCAT
TGGAGGCCTCATCTATGTTCTTGTGATTGAAATCCACCATCCAGAGCCTGACTCAGTCTTTAAGGCAGAA
CAATCTGAGGACAAACCAGAGAAATATGAACTCAGTGTGCATCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224567 representing NM_020980
 Red=Cloning site Green=Tags(s)

MQPEGAEKGKSFQKRLVLKSSLAKETLSEFLGTFILIVLGCQCVAQAILSRGRFGGVITINVGFSMAVAM
 AIYVAGGVSGGHINPAVSLAMCLFGRMKWFKLPFYVGAQFLGAFVGAATVFGIYYDGLMSFAGGKLLIVG
 ENATAHIFATYPAPYLSLANAFADQVVATMILLIIVFAIFDSRNLGAPRGLEPIAIGLLIIVIASLGLN
 SGCAMNPARDLSPRLFTALAGWGFVFRAGNNFWWIPVVGPLVGAVIGGLIYVLVIEIHHPEDSVFKAE
 QSEDKPEKYELSVIM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020980

ORF Size: 885 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: [NM_020980.2](#), [NP_066190.1](#)

RefSeq Size: 2948 bp

RefSeq ORF: 888 bp

Locus ID: 366

UniProt ID: [O43315](#)

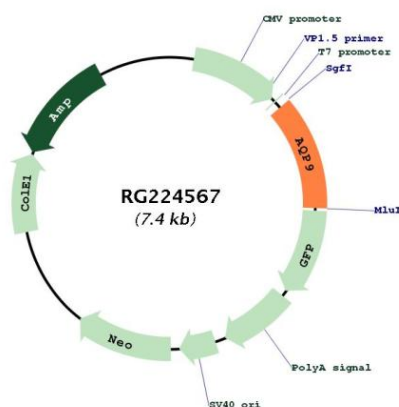
Cytogenetics: 15q21.3

Domains: MIP

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The aquaporins are a family of water-selective membrane channels. This gene encodes a member of a subset of aquaporins called the aquaglyceroporins. This protein allows passage of a broad range of noncharged solutes and also stimulates urea transport and osmotic water permeability. This protein may also facilitate the uptake of glycerol in hepatic tissue . The encoded protein may also play a role in specialized leukocyte functions such as immunological response and bactericidal activity. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG224567