

Product datasheet for MC204210

Aqp3 (NM_016689) Mouse Untagged Clone

Product data:

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|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Aqp3 (NM_016689) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Aqp3 |
| Synonyms: | AQP-2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >BC027400 |

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CGGACCGTGGGTCGCGTAGCTACTTTGCACTCGTACGCCGCCGACCTCGCCGCTGCCTGCCTCGCGC
CATGGGTCGACAGAAGGAGTTGATGAATCGTTGTGGGAGATGCTTCACATCCGCTACCGCTGCTTCGC
CAGGCGCTGGCGGAGTGCCTGGGACCCTCATCCTTGTGATGTTTGGCTGTGGCTCCGTGGCTCAGTG
TGCTCAGCCGTGGCACCATGGTGGCTTCTCACCATCAACTTGGCTTTTGGCTTCGCTGTCAACCTTGG
CATCTTGGTGGCTGGCCAGGTGTCTGGTGCCACTTGAACCCCGCTGTGACCTTCGCAATGTGCTTCTG
GCACGAGAGCCCTGGATCAAGCTGCCATCTATGCACTGGCAGACACTGGGGGCTTCTTGGGCGCTG
GGATTGTTTTGGGCTGTACTACGATGCAATCTGGGCCTTTGCCAACAATGAGCTTTTCGTCTCTGGCC
CAACGGCACAGCTGGAATCTTGGCACCTATCCCTCTGGACACTGGACATGGTCAATGGCTTCTTGTG
CAGTTCATAGGCACAGCCGCCCTTATTGTGTGTACTGGCCATCGTTGACCCTTATAACAACCTGTGC
CCCGTGGCCTGGAGGCTTCACTGTGGGCCTGGTGGTCCCTGGTCAATTGGAACCTCCATGGGCTTCAATC
TGGCTATGCCGTCAACCTGCCCCGTGACTTTGGACCTCGCTCTTACCCGCTGGCTGGCTGGGGCTCA
GAAGTCTTACGACTGGCCGGCACTGGTGGTGGGTACCCATTGTCTCCCACTCCTGGGTTCCATCGCTG
GTGTCTTTCGTGTACCAGCTCATGATTGGTTGCCACCTGGAGCAGCCCCACCTCCACCGAGGAAGAGAA
TGTGAAGCTGGCCACATGAAACACAAGGAGCAGATCTGAGTGGGAGCAGCCCCCTCCCCACTGTGC
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TAAACCGCTCCCTGTGTCCACCCTGTGGATGGGCCCTCCAGAATTTCTATGAACCTGCCCCATTAGGG
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AAGGGACCAAGTTTTTCAAACAACCTGTAGCAGCTCAGGGGAAGGAGCCAGGGGAAGGGAGAAAGTGA
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TCTAAGTATGCGTGTGCCTACTGTTTTTTTTTTTTTTTTTTTGAATGGACTTCTAGGCTTGGGGAGGGG
AAGGGATAAGAAGGGTGTAGCTCACATCTGGAGCTATGACCCCTTACTGGGGGCTGTGTAATATGTTTCT
GTTATAAGATAGACATTGGGAGGGGCTGAAGTCCAGGTCGTAAGTTTCATAATTTGTTTTTAAATATAT
AAATATACATACATATATGTTACAGCCCTAGGAATAGGGGTGGGAACTCCACTTTTTTAAAGGGGTT
TCCTTTCTTAACTCCAATCAACAATGACTGTTGCCTTTTATATATAAAAAAGAATAAAACGTATAC
ATGCTACAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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| Restriction Sites: | RsrII-NotI |
| ACCN: | NM_016689 |
| Insert Size: | 879 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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: | <ol style="list-style-type: none">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: | BC027400 , AAH27400 |
| RefSeq Size: | 1787 bp |
| RefSeq ORF: | 879 bp |
| Locus ID: | 11828 |
| UniProt ID: | Q8R2N1 |
| Cytogenetics: | 4 A5 |
| Gene Summary: | Water channel required to promote glycerol permeability and water transport across cell membranes. Acts as a glycerol transporter in skin and plays an important role in regulating SC (stratum corneum) and epidermal glycerol content. Involved in skin hydration, wound healing, and tumorigenesis. Provides kidney medullary collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. Slightly permeable to urea and may function as a water and urea exit mechanism in antidiuresis in collecting duct cells. It may play an important role in gastrointestinal tract water transport and in glycerol metabolism.[UniProtKB/Swiss-Prot Function] |