

## Product datasheet for MR222121

### Adgrg2 (NM\_001079857) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Adgrg2 (NM\_001079857) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Adgrg2  
**Synonyms:** AW212196; B830041D06Rik; Gpr64; Me6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR222121 representing NM\_001079857  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTTTTCTCTGGTGGGCAGTACAGCCCTGTTGGCAGACCTGAAGAGGTTTTACTGATATACAAGATAT  
 TCCTTGCATCATTGTTTTGTTTCATGTCATTCTCGTTACATCCCTGAAAGAAAACGGTAATCCAGTTTGT  
 ATCACCATCTGCTGAATCATCTCTTGTGAGTCTCATCCCTACTCCAATGGTACACCAGATGCTGCTTCA  
 GAAGTTTTGTCGACTTTAAACAAAACAGGAGTCAAATCCCAGAGAAATATCTGCAATTTGTCATCTCTT  
 GCAATGACTCAGTATTTTTAGAGGTGAGATAGTGTTCACATGATGAAGACCACAATGTTACCCAGAA  
 TCAAGATACAGCTAATGGCACCTTCGCTGGAGTCTGTCTAAGTGAAGTGAAGCGATCAGAGCTCAAC  
 AAAACTCTACAGACCTTAAGTGAGACTTACTTTATAGTGTGTGCTACAGCAGAGGCCAAAAGCACGGTAA  
 ACTGTACATTCACAGTAAAACCAATGAGACCATGAATGTGTGTGCCATGATGGTTACTTTCCAACTGT  
 ACAGATTCGGCCAATGGAACAGTGTGCTGTTCCCGAGGACTCCCTGCCCTTCCCTACCAGAAGAGTTA  
 GAAAACTACAGTGTGAAGTGCAGGATCCCATTGTCTGTCTTGTGATCAACCGCATGGCCACCCTTAT  
 CGTCTCCAGCAAGCCTGTTGTACCTCAGGCCACCATTATTTCCCATGTTGCTAGTGACTTCTTTGGC  
 TGAACCCCTTGATCATGCCCTTATGACCCCAAGCACACCCTCTGACACAAGAAAGTAACTTCCATCT  
 CCTCAGCCTACGATCCCCTGGTCCAGTCTGCCACTGACTGGCAGTTCAATCTGTAGTGGTCTCTT  
 CTTTGCCTCAAACCTGATCTTTCCACACCCTGTACCGGTGCAGTCTCCATTCCCTCTCCTACCACACC  
 AGCCCCATCTGTCCCTACAGAAGTGGTACCATCAGCACACCCTCCTGGTGGAGACGTTGTCAACACTAGC  
 ACTGTTTCTGATCTGGAAGCCCAAGTATCCCAGATGGAGAAAGCTTTGTCTTTGGGTAGCTTAGAGCCTA  
 ATCTTGCAGGCGAAATGGTAAACCGAGTCAAGCAAACTCCTTCACTCTCCACCTGCCTTGTAGCCCTCT  
 AGCTCAAAGTTGCTAAAAGTGGTAGATGCCATTGGCTTACAGCTGAATTTTTCTATCAAACTATCAGT  
 CTAACCTCACCTTCTTTGGCTCTTGTGTGATCAGAGTGAATGCCAGTAATTTCAATACCACGACTTTT  
 CAGCCCAAGACCAACAAATCTCCAGTTTCTCTGAAACCCACCTCCTGAGAATAGTATTGGTCCAT  
 TACTCTGCCCTCATCACTGATGAATAATTTGCCAGCTAATGATGTAGAATTGGCTCAAGGATTCAGTTC



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AATTTCTTTGAAACACCCGCCCTGTTTCAGGATCCTTCCCTGGAGAACCTCACTCTGATAAGCTATGTCA  
TATCATCAAGTGTCAAAACATGACCATCAAGAACTTGACAAGAAACGTGACAGTCGCACTGAAACACAT  
CAACCAAGTCCGGATGACTTAAGTGTAAATGTGATTTCTGGGACTTGGCAGAAATGGTGGCAAAGGA  
GGTTGGTCATCTGATGGCTGTCCGTCAAAGACAAGAGAATGAATGAAACCATCTGTACCTGTAGCCATC  
TTACAAGTTTTGGCATCCTATTGGACCTATCTCGAACATCCTTACCACCAAGTCAATGATGGCTGTGAC  
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TTTGAAAAGATCCGGAGGGATTACCCCTCCAAAATCCTCATCCAGCTGTGTGCTGCCCTGCTTCTGCTCA  
ACCTGATCTTCCCTAGACTCCTGGATTGCGCTGTATAATACCCGAGGTTTCTGCATTGCCGTGGCTGT  
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CTGGTCAAGGTGTTAATACTTACATCCGAAAGTACATCCTTAAATTTCTGCATTGTTGGCTGGGCATAC  
CAGCTGTGGTGTGTCATCGTCTGACTATATCCCCAGATAACTATGGGATTGGATCCTATGAAAATT  
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CTCTTTGCCATCTTTAACACCTTACAAGGGTTTTTCATATTCATTTTTTACTGTGCAGCAAAAGAGAATG  
TCAGAAAACAGTGGAGGGGTATCTTTGTTGTGAAAAATTACGGCTGGCTGAAAATTCTGACTGGAGTAA  
AACTGCTACTAATGGTTTAAAGAAGCAGACTGTAAACCAAGGAGTATCCAGCTCTTCAAATTCCTTACAG  
TCAAGCTGTAACCTCACTAACTCCACCACACTCCTAGTGAATAGTGATTGCTCAGTGCACGCAAGCGGGA  
ATGGCAATGCATCTACCGAGAGGAATGGGGTTTCTTTCAGTGTTCAGAATGGAGACGTGTGCCTTCATGA  
TCTCACTGGCAAACAGCATATGTTTAGTGACAAAGAGGACTCCTGCAATGGTAAAAGCCGGATAGCGCTC  
AGAAGGACTTCGAAGCGGGGAAGCTTACACTTTATCGAGCAAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222121 representing NM\_001079857  
Red=Cloning site Green=Tags(s)

MLFSGGQYSPVGRPEEVLLIYKIFLVIICFHVILVTLKENGNSLLSPSAESSLVSLIPYNGTPDAAS  
EVLSTLNKTGVKSQRNICNLSSLNDSVFRGEIVFQHDHNVTONQDTANGTFAGVLSLSELKRSELN  
KTLQTLSETYFIVCATAEAQSTVNCTFTVKLNETMNVCAMMVTFTVQIRPMEQCCSPRTPCPSSPEEL  
EKLQCELQDPIVCLADQPHGPPLSSSSKPVVPQATIISHVASDFSLAEPLDHALMTPSTPSLTQESNLPS  
PQPTIPLASSPATDLPVQSVVSSLPQTDLSHTLSPVQSSIPSPTTPAPSVPTTELVTISTPPGETVVNTS  
TVSDLEAQVSQMEKALSLGSLEPNLAGEMVNRVSKLLHSPALLAPLAQRLLKVVDAIGLQNFSSTTIS  
LTSPLALAVIRVNASNFNTTFAAQDPTNLQVSLETPPPENSIGAITLPSSLMNLPANDVELASRIQF  
NFFETPALFQDPSLENLTLISYVIVSSVTNMTIKNLTRNVTVALKHINPSPDDLTVKCVFWDLGRNGGK  
GWSSDGCYKDKRMNETICTSHLTSFGILLDLRSTSLPPSQMMALTFITYIGCGLSSIIFSVTLVTYIA  
FEKIRRDYPSKILIQCAALLLNLIIFLLDSWIALYNTRGFCAVAVFLHYFLLVSTWGMLEAFHMYLA  
LVKVFNTYIRKYILKFCIVGWGIPAVVVSIVLTIISPDNYGIGSYGKFPNGTPDDFCWINSNVVFIYITVVG  
YFCVIFLLNVSMFIVVLVQLCRIKQKQLGAQRKTSIQDLRSIAGLTFLLGITWGF AFFAWGPVNVTFMY  
LFAIFNTLQGFFIFIFYCAAENVRKQWRRYLCCGKLRLENSDWSKTATNGLKKQTVNQVSSSSNSLQ  
SSCNSTNTLLVNSDCSVHASGNNGASTERNVSVFVQNGDVCLHDLTGKQHMFSKEDSCNGKSRIAL  
RRTSKRGLHFIEQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9002\\_e12.zip](https://cdn.origene.com/chromatograms/mm9002_e12.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001079857

**ORF Size:** 2985 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.

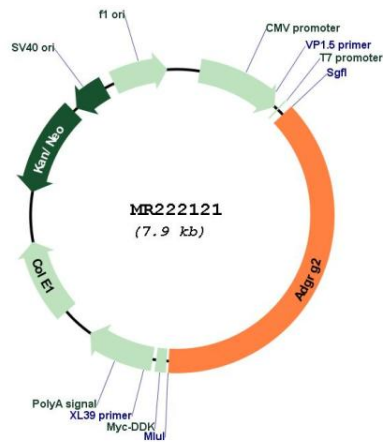
**RefSeq:** [NM\\_001079857.2](#), [NP\\_001073326.1](#)

**RefSeq Size:** 4685 bp

**RefSeq ORF:** 2988 bp

**Locus ID:** 237175  
**UniProt ID:** [Q8CJ12](#)  
**Cytogenetics:** X F4  
**MW:** 109.1 kDa  
**Gene Summary:** Orphan receptor. Could be involved in a signal transduction pathway controlling epididymal function and male fertility. May regulate fluid exchange within epididymis.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR222121