

## Product datasheet for **MR222103**

### Adgrg2 (NM\_001079847) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Adgrg2 (NM\_001079847) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Adgrg2  
**Synonyms:** AW212196; B830041D06Rik; Gpr64; Me6  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR222103 representing NM\_001079847  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTTTTCTCTGGTGGCAGTACAGCCCTGTTGGCAGACCTGAAGAGGTTTTACTGATATACAAGATAT  
TCCTTGCATCATTTGTTTTCATGTCTCTCGTTACATCCCTGAAAGAAAACGGTAATCCAGTTTGT  
ATCACCATCTGCTGAATCATCTCTGTGCTCCTCATCCCTACTCCAATGATGCTGCTTCAGAAGTTTTG  
TCGACTTTAAACAAAACAGGAGTCAAATCCCAGAGAAATATCTGCAATTTGTCATCTTTGCAATGACT  
CAGTATTTTTAGAGGTGAGATAGTGTTCACATGATGAAGACCACAATGTTACCCAGAATCAAGATAC  
AGCTAATGGCACCTTCGCTGGAGTCTGTCTCTAAGTGAAGTGAAGCGATCAGAGCTCAACAAAACCTCTA  
CAGACCTTAAGTGAAGTACTTTATAGTGTGTGCTACAGCAGAGGCCAAAGCACGGTAAACTGTACAT  
TCACAGTAAAACCAATGAGACCATGAATGTGTGTCATGATGGTTACTTTCAAACCTGTACAGATTCC  
GCCAATGGAACAGTGTCTGTTCCCGAGGACTCCCTGCCCTCCTCACCAGAAGAGTTAGAAAACTA  
CAGTGTGAAGTGCAGGATCCCATTTGCTGTCTTGGCTGATCAACCGCATGGCCACCGTTATCGTCTTCCA  
GCAAGCCTGTTGTACCTCAGGCCACCATTTTCCCATGTTGCTAGTGACTTCTTTGGCTGAACCCCT  
TGATCATGCCCTTATGACCCCAAGCACACCCTCTCTGACACAAGAAAGTAACCTTCCATCTCCTCAGCCT  
ACGATCCCCCTGGCTTCCAGTCTGCCACTGACTTGCCAGTTCAATCTGTAGTGGTCTCTCTTTGCCTC  
AAACTGATCTTTCCACACCCTGTACCCGGTGCAGTCTCCATTCCCTCTCCTACCACACCAGCCCCATC  
TGTCCCTACAGAAGTGGTACCATCAGCACACCTCCTGGTGAAGCAGTTGTCAACACTAGCACTGTTTCT  
GATCTGGAAGCCCAAGTATCCCAGATGGAGAAAGCTTTGTCTTTGGGTAGCTTAGAGCCTAATCTTGACG  
GCGAAATGGTAAACCGAGTCAAGCAACTCCTTCACTCTCCACCTGCCTTGTAGCCCTCTAGCTCAAAG  
GTTGCTAAAAGTGGTAGATGCCATTGGCTTACAGCTGAATTTTTCATCTACAACATCAGTCAACTTCA  
CCTTCTTTGGCTCTTGTGTGATCAGAGTGAATGCCAGTAATTTCAATACCAGACTTTTGCAGCCCAAG  
ACCCAACAAATCTCCAGTTTCTCTGAAACCCCACTCCTGAGAATAGTATTGGTGCCATTACTCTGCC  
CTCATCACTGATGAATAATTTGCCAGCTAATGATGTAGAATTGGCTTCAAGGATTCAGTTCAATTTCTT  
GAAACACCCGCCCTGTTTCAGGATCCTTCCCTGGAGAACCTCACTCTGATAAGCTATGTCATATCATCAA



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GTGTCACAAACATGACCATCAAGAAGCTTGACAAGAAACGTGACAGTCGCACTGAAACACATCAACCCAAG
TCCGGATGACTTAACTGTGAAATGTGTATTCTGGGACTTGGGCAGAAATGGTGGCAAAGGAGGTTGGTCA
TCTGATGGCTGTTCCGTCAAAGACAAGAGAATGAATGAAACCATCTGTACCTGTAGCCATCTTACAAGTT
TTGGCATCCTATTGGACCTATCTCGAACATCCTTACCACCAAGTCAAATGATGGCTCTGACATTTATCAC
GTATATTGGCTGTGGGCTTTCATCAATTTTTCTGTCAGTTACTCTTGTAACTACATCGCCTTTGAAAAG
ATCCGGAGGGATTACCCCTCCAAAATCCTCATCCAGCTGTGTGCTGCCCTGCTTCTGCTCAACCTGATCT
TCCTCTAGACTCCTGGATTGCGCTGTATAATACCCGAGGTTTCTGCATTGCCGTGGCTGATTTCTTCA
CTATTTTCTCTTGGTCTCATTACATGGATGGGATTAGAAGCATTCCACATGTACCTAGCACTGGTCAAG
GTGTTTAATACTTACATCCGAAAGTACATCCTTAAATTCTGCATTGTTGGCTGGGCATACCAGCTGTGG
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GTGATATTTCTACTGAACGTGAGCATGTTTCATCGTGGTCTTGGTTCAGCTCTGTGCAATAAAAAGAAGA
AGCAGCTGGGAGCCAGCGCAAACTAGTATTCAAGACCTCAGGAGTATCGCTGGCCTCACATTTTACT
GGGAATTACTTGGGGCTTTGCCTCTTTGCTGGGACCAGTAAATGTCACCTTCATGTATCTCTTTGCC
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AGTGGAGGCGGTATCTTTGTTGGAAAATTACGGCTGGCTGAAAATTCTGACTGGAGTAAAACCTGCTAC
TAATGGTTTAAAGAAGCAGACTGTAACCAAGGAGTATCCAGCTCTTCAAATTCCTTACAGTCAAGCTGT
AACTCCACTAACTCCACCACACTCCTAGTGAATAGTGATTGCTCAGTGCACGCAAGCGGGAATGGCAATG
CATCTACCGAGAGGAATGGGGTTTTCTTTCAGTGTTTCAAGTGGAGACGTGTGCCTTCATGATCTCACTGG
CAAACAGCATATGTTTAGTGACAAAGAGGACTCCTGCAATGGTAAAAGCCGGATAGCGCTCAGAAGGACT
TCGAAGCGGGGAAGCTTACACTTTATCGAGCAAATG

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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**Protein Sequence:**

>MR222103 representing NM\_001079847  
 Red=Cloning site Green=Tags(s)

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MLFSGGQYSPVGRPEEVLLIYKIFLVIICFHVILVTLKENGNSLLSPSAESSLVSLIPYSNDAASEVL
STLNKTVKYSQRNICNLSSLNDSVFFRGEIVFQHDEHNVTONQDTANGTFAGVLSLSELKRSELNKTLL
QTLSETYFIVCATAEAQSTVNCTFTVKLNETMNVCAMMVTFTVQIRPMEQCCSPRTPCSPSPEELEKL
QCELQDPVIVCLADQPHGPPPLSSSSKPVVPQATII SHVASDFSLAEPLDHALMTPSTPSLTQESNLPSPQP
TIPLASSPATDLPVQSVVSSLPQTDLSHTLSPVQSSIPSPTTPAPSVPTLVITISTPPGETVVNTSTVS
DLEAQVSQMEKALSLGSLEPNLAGEMVNRVSKLLHSPALLAPLAQRLLKVVDIAGLQLNFSSTTISLTS
PSLALAVIRVNASNFNTTFAAQDPTNLQVSLETPPPENSIGAITLPSSLMNLPANDVELASRIQFNFF
ETPALFQDPSLENLTLISYVISSVTNMTIKNLTRNVTVALKHINPSPDDLTVKCVFWDLGRNGGKGGWS
SDGCSVKDKRMNETICTSHLTSFGILLDLRSTSLPPSQMMALTFITYIGCGLSSIFLSVTLVITYIAFEK
IRRDYPSKILIQCAALLLNIFLLDSWIALYNTRGFCAVAVFLHYFLLVSFTWMGLEAFHMYLALVK
VFNTYIRKYILKFCIVGWGIPAVVVSIVLTI SPDNYGIGSYGKFPNGTPDDFCWINSNVVYITVVGYFC
VIFLLNVSMFIVVLVQLCRIKKKQLGAQRKTSIQDLRSIAGLTFLLGITWGF AFAWGPVNVTFMYLFA
IFNTLQGGFFIFIFYCAAKENVRKQWRRYLCCGKLR LAENS DWSKTATNGLKKQTVNQGVSSSSNSLQSSC
NSTNSTLLVNSDCSVHASGNGNASTERNGVSFSVQNGDVCLHDLTGKQHMFSKEDSCNGKSRIALRRT
SKRGLHFIEQM

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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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**Restriction Sites:**

SgfI-MluI

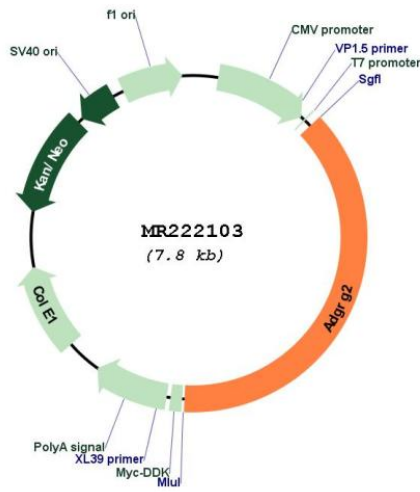
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001079847  
 ORF Size: 2976 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001079847.2</a> , <a href="#">NP_001073316.1</a>
<b>RefSeq Size:</b>	4676 bp
<b>RefSeq ORF:</b>	2979 bp
<b>Locus ID:</b>	237175
<b>Cytogenetics:</b>	X F4
<b>MW:</b>	108.8 kDa
<b>Gene Summary:</b>	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]