

## Product datasheet for **MR222104**

### Adgrg2 (NM\_001079848) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Adgrg2 (NM\_001079848) 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:** >MR222104 representing NM\_001079848  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTTTTCTCTGGTGGGCAGTACAGCCCTGTTGGCAGACCTGAAGAGGTTTTACTGATATACAAGATAT  
 TCCTTGTCATCATTTGTTTTCATGTCTCTCGTTACATCCCTGAAAGATGCTGCTTCAGAAGTTTTGTC  
 GACTTTAAACAAAACAGAAAAATCTAAAATCACTATAGTAAAAACCTTCAATGCATCAGGAGTCAAATCC  
 CAGAGAAATATCTGCAATTTGTCATCTCTTTGCAATGACTCAGTATTTTTAGAGGTGAGATAGTGTTC  
 AACATGATGAAGACCACAATGTTACCCAGAATCAAGATACAGCTAATGGCACCTTCGCTGGAGTCCCTGTC  
 TCTAAGTGAAGTGAAGCGATCAGAGCTCAACAAAATCTACAGACCTTAAGTGAAGTACTTTATAGTG  
 TGTGCTACAGCAGAGGCCAAAGCACGGTAAACTGTACATTACAGTAAAATCAATGAGACCATGAATG  
 TGTGTCCATGATGGTTACTTTCCAAACTGTACAGATTCGGCCAATGGAACAGTGTCTGTTCCCGGAG  
 GACTCCCTGCCCTTCTCACCAGAAGAGTTAGAAAACTACAGTGTGAAGTGCAGGATCCCATTTGTCTGT  
 CTTGCTGATCAACCGCATGGCCACCCTTATCGTCTCCAGCAAGCCTGTTGTACCTCAGGCCACCATTAA  
 TTTCCATGTTGCTAGTGACTTCTTTGGCTGAACCCCTTGATCATGCCCTTATGACCCCAAGCACACC  
 CTCTCTGACACAAGAAAGTAACCTTCCATCTCCTCAGCCTACGATCCCTGGCTTCCAGTCTGCCACT  
 GACTTGCCAGTTCAATCTGTAGTGGTCTCTTTGCTCCTCAAACTGATCTTTCCACACCCTGTACCCGG  
 TGCAGTCTCCATTCCCTCTCCTACCACACCAGCCCCATCTGTCCCTACAGAAGTGGTACCATCAGCAC  
 ACCTCCTGGTGAAGACAGTTGTCAACACTAGCACTGTTTCTGATCTGGAAGCCCAAGTATCCAGATGGAG  
 AAAGCTTTGTCTTTGGTAGCTTAGAGCCTAATCTTGACAGCGAAATGGTAAACCGAGTCAAGCAACTCC  
 TTCCTCTCCACCTGCCTTGCTAGCCCTCTAGCTCAAAGTTGCTAAAAGTGGTAGATGCCATTGGCTT  
 ACAGCTGAATTTTTCATCTACAACATCAGTCTAAGTCACTTCTTTGGCTCTTGCTGTGATCAGAGTG  
 AATGCCAGTAATTTCAATACCACGACTTTTGACAGCCCAAGACCAACAAATCTCCAGTCTCTCTGGAAA  
 CCCACCTCCTGAGAATAGTATTGGTGCCATTACTCTGCCCTCATCACTGATGAATAATTTGCCAGCTAA  
 TGATGTAGAATTGGCTTCAAGGATTCAGTTCAATTTCTTTGAAACACCCGCCCTGTTTCAGGATCCTTCC  
 CTGGAGAACCCTACTCTGATAAGCTATGTCATATCATCAAGTGTCAAAACATGACCATCAAGAATTGA



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CAAGAAACGTGACAGTCGCACTGAAACACATCAACCCAAGTCCGGATGACTTAACTGTGAAATGTGTATT  
 CTGGGACTTGGGCAGAAATGGTGGCAAAGGAGGTTGGTCATCTGATGGCTGTTCCGTCAAAGACAAGAGA  
 ATGAATGAAACCATCTGTACCTGTAGCCATCTTACAAGTTTTGGCATCTATTGGACCTATCTCGAACAT  
 CCTTACCACCAAGTCAAATGATGGCTCTGACATTTATCACGTATATTGGCTGTGGGCTTTCATCAATTTT  
 TCTGTCACTTACTCTTGTAACTACATCGCCTTGGAAAAGATCCGGAGGGATTACCCCTCCAAAATCCTC  
 ATCCAGCTGTGTCTGCCCTGCTTCTGCTCAACCTGATCTTCTCCTAGACTCTGGATTGCGCTGTATA  
 ATACCCGAGGTTTCTGCATTGCCGTGGCTGATTTCTTCACTATTTTCTTCTTGGTCTCATTACATGGAT  
 GGGATTAGAAGCATTCCACATGTACCTAGCACTGGTCAAGGTGTTAATACTTACATCCGAAAGTACATC  
 CTTAAATTCTGCATTGTTGGCTGGGCATACCAGCTGTGGTTGTGTCCATCGTCCTGACTATATCCCCAG  
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 ATCGTGGTCTTGGTTCAGCTCTGTGCAATTAAGAAAGAAGAAGCAGCTGGGAGCCAGCGCAAAACTAGTA  
 TTCAAGACCTCAGGAGTATCGCTGGCCTCACATTTTTACTGGGAATTACTGGGGCTTTCCTTCTTTGC  
 CTGGGGACCAGTTAATGCACCTTCATGTATCTCTTTGCCATCTTAAACACCTTACAAGGGTTTTTCATA  
 TTCATTTTTTACTGTGCAGCAAAAAGAGAATGTCAGAAAACAGTGGAGGCGGTATCTTTGTGTGGAAAAT  
 TACGGCTGGCTGAAAATCTGACTGGAGTAAAACCTGCTACTAATGGTTTAAAGAAGCAGACTGTAACCA  
 AGGAGTATCCAGCTCTTCAAATCCTTACAGTCAAGCTGTAACCTCACTAACTCCACCACACTCCTAGTG  
 AATAGTGATTGCTCAGTGCACGCAAGCGGGAATGGCAATGCATCTACCGAGAGGAATGGGGTTTCTTTCA  
 GTGTTTCAAGTGGAGACGTGTGCCTTATGATCTCACTGGCAAACAGCATATGTTTAGTGACAAAAGAGGA  
 CTCCTGCAATGGTAAAAGCCGGATAGCGCTCAGAAGGACTTCAAGCGGGGAAGCTTACACTTTATCGAG  
 CAAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222104 representing NM\_001079848  
 Red=Cloning site Green=Tags(s)

MLFSGGQYSPVGRPEEVLLIYKIFLVIICFHVILVTLKDAASEVLSTLNKTEKSKITIVKTFNASGVKS  
 QRNICNLSSLNDSVFFRGEIVFQHDEDHNVTONQDTANGTFAGVLSLSELKRSELNKTQLSETYFIV  
 CATAEAQSTVNCTFTVKLNETMNVCAMMVFQTVQIRPMEQCCSPRTPCPSPEELEKLQCELQDPIVC  
 LADQPHGPPLSSSSKPVVPQATIISHVASDFSLAEPLDHALMTPSTPSLTQESNLPSPQPTIPLASSPAT  
 DLPVQSVVVSSLPQDLSHLSPVQSSIPSPPTPAPSVPTLVTISTPPGETVVNTSTVSDLEAQSQME  
 KALSLGSLEPNLAGEMVNRVSKLLHSPALLAPLAQRLLKVVDAILQLNFSSTTISLTPSLALAVIRV  
 NASNFNTTFAAQDPTNLQVSLETPPPENSIGAITLPSSLMNLPANDVELASRIQFNFFETPALFQDPS  
 LENLTLISYVISSVTNMTIKNLTRNVTVALKHINPSPDDLTVKCVFWDLGRNGGKGGWSSDGC SVKDKR  
 MNETICTCSHLTSFGILLDLRSLPSSQMMALTFITYIGGLSSIFLSVTLVITYIAFEKIRRDYPSKIL  
 IQLCAALLLNLIFFLLDSWIALYNTRGFCAVAVFLHYFLLVSFTWMGLEAFHMYLALVKVFNTYIRKYI  
 LKFCIVGWGIPAVVVSIVLTISPNDYIGISYGFNPGTDFCWINSNVVFIYITVVGYFCVIFLLNVSMF  
 IVVLVQLCRIKKKQLGAQRKTSIQDLRSIAGLTFLLGITWGAFFAWGPVNVTFMYLFAIFNTLQGFFI  
 FIFYCAAKENVRKQWRRYLCCGKRLAENSWSKATNGLKKQTVNQGVSSSSNSLQSSCNSTNSTLLV  
 NSDCSVHASGNGNASTERNGVSFVQNGDVCLHDLTGKQHMFSKEDSCNGKSRIALRRTSKRGLHFIE  
 QM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

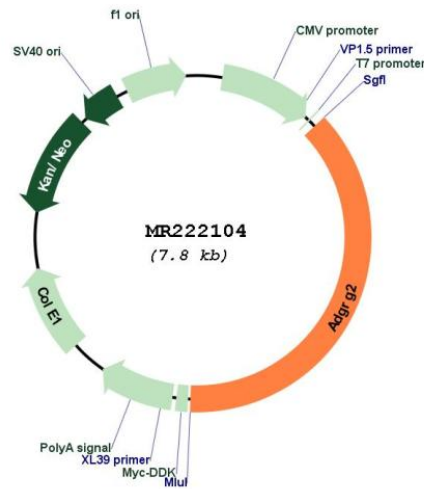
## Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

## Plasmid Map:



ACCN: NM\_001079848  
 ORF Size: 2946 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_001079848.2</a> , <a href="#">NP_001073317.1</a>
<b>RefSeq Size:</b>	4646 bp
<b>RefSeq ORF:</b>	2949 bp
<b>Locus ID:</b>	237175
<b>UniProt ID:</b>	<a href="#">Q8CJ12</a>
<b>Cytogenetics:</b>	X F4
<b>MW:</b>	107.9 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]