

## Product datasheet for MR231467

### Adgrg2 (NM\_001290445) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adgrg2 (NM_001290445) 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:	>MR231467 representing NM_001290445 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTTTTCTCTGGTGGGCAGTACAGCCCTGTTGGCAGACCTGAAGAGGTTTTACTGATATACAAGATAT  
TCCTTGTCATCATTTGTTTTGTTTCATGTCATTCTCGTTACATCCCTGAAAGAAAACGGTAATCCAGTTTGT  
ATCACCATCTGATGCTGCTTCAAGAGTTTGTGCGACTTTAAACAAAACAGAAAAATCTAAAATCACTATA  
GTAAAAACCTTCAATGCATCAGGAGTCAAATCCCAGAGAAATATCTGCAATTTGTCATCTCTTTCGAATG  
ACTCAGTATTTTTAGAGGTGAGATAGTGTTCACATGATGAAGACCACAATGTATCCCAAGATCAAGA  
TACAGCTAATGGCACCTTCGCTGGAGTCCGTCTCTAAGTGAAGTGAAGCGATCAGAGCTCAACAAAAC  
CTACAGACCTTAAGTGAAGTACTTTATAGTGTGTGCTACAGCAGAGGCCCAAGCAGCGTAAACTGTA  
CATTACAGTAAAACCAATGAGACCATGAATGTGTGTCATGATGGTTACTTTCCAACTGTACAGAT  
TCGGCCAATGGAACAGTGTGCTGTTCCCGAGGACTCCCTGCCCTTCTCACCAGAAGAGTTAGAAAA  
CTACAGTGTGAAGTGCAGGATCCCATTTGTCTGTGCTGATCAACCGCATGGCCACCCTTATCGTCTT  
CCAGCAAGCCTGTTGACCTCAGGCCACCATTATTTCCCATGTTGCTAGTACTTCTTTGGCTGAACC  
CCTTGATCATGCCCTTATGACCCCAAGCACACCTCTCTGACACAAGAAAGTAACCTTCCATCTCCCTCAG  
CCTACGATCCCCCTGGCTTCCAGTCCGCACTGACTTGCCAGTTCAATCTGTAGTGGTCTCTTCTTTGC  
CTCAAACTGATCTTTCCACACCCTGTCACCGGTGCAGTCCCTCCATTCCTCTCCTACCACACCAGCCCC  
ATCTGTCCCTACAGAAGTGGTACCATCAGCACACCTCCTGGTGAGACAGTTGTCAACACTAGCACTGTT  
TCTGATCTGGAAGCCCAAGTATCCAGATGGAGAAAGCTTTGTCTTTGGGTAGCTTAGAGCCTAATCTTG  
CAGGCGAAATGGTAAACCGAGTCAAGCAACTCCTTCACTCTCCACCTGCCTTGTAGCCCTCTAGCTCA  
AAGTTTGTAAAAGTGGTAGATGCCATTGGCTTACAGCTGAATTTTTCATCTACAACATCAGTCTAACT  
TCACCTTCTTTGGCTCTTGTGTGATCAGAGTGAATGCCAGTAATTTCAATACCAGACTTTTGCAGCCC  
AAGACCCAAACAACTCTCCAGTTTCTCTGGAAACCCACCTCCTGAGAATAGTATTGGTGCCATTACTCT  
GCCCTCATCACTGATGAATAATTTGCCAGCTAATGATGTAGAATTTGGCTTCAAGGATTCAGTTCAATTT  
TTTGAACACCCGCCCTGTTTCAGGATCCTTCCCTGGAGAACCTCACTCTGATAAGCTATGTCATATCAT



[View online »](#)

CAAGTGTCACAAACATGACCATCAAGAAGCTTGACAAGAAACGTGACAGTCGCACTGAAACACATCAACCC  
 AAGTCCGGATGACTTAACTGTGAAATGTGTATTCTGGGACTTGGGCAGAAATGGTGGCAAAGGAGTTGG  
 TCATCTGATGGCTGTTCCGTCAAAGACAAGAGAATGAATGAAACCATCTGTACCTGTAGCCATCTTACAA  
 GTTTTGGCATCCTATTGGACCTATCTCGAACATCCTTACCACCAAGTCAAATGATGGCTCTGACATTTAT  
 CACGTAATTGGCTGTGGGCTTTCATCAATTTTTCTGTCACTTACTCTTGTAACTACATCGCCTTTGAA  
 AAGATCCGGAGGGATTACCCCTCCAAAACTCATCCAGCTGTGTGCTGCCCTGCTCTGCTCAACTGA  
 TCTTCTCCTAGACTCCTGGATTGCGCTGTATAATACCCGAGGTTTCTGCATTGCCGTGGCTGATTTCT  
 TCACTATTTTCTTGGTCTATTACATGGATGGGATTAGAAGCATTCCACATGTACCTAGCACTGGTC  
 AAGGTGTTAATACTTACATCCGAAAGTACATCCTTAAATTCTGCATTGTTGGCTGGGCATACCAGCTG  
 TGGTTGTGTCCATCGTCTGACTATATCCCAGATAACTATGGGATTGGATCCTATGAAAAATCCCCAA  
 TGGCACACCAGATGACTTTTGTGGATCAACAGCAATGTGGTGTCTATATCACGTTTGTGGGATATTTT  
 TGTGTGATATTTCTACTGAACGTGAGCATGTTCATCGTGGTCTTGGTTCAGCTCTGTGCAATAAAAAGA  
 AGAAGCAGCTGGGAGCCAGCGCAAACTAGTATCAAGACCTCAGGAGTATCGTGGCCTCACATTTTT  
 ACTGGGAATTACTGGGGCTTTGCCTTCTTTCCTGGGACCAGTAAATGTCACCTTCATGTATCTCTTT  
 GCCATCTTAAACACCTTACAAGGTTTTTCATATTCATTTTTACTGTGCAGCAAAAGAGAAATGTCAGAA  
 AACAGTGGAGGCGGTATCTTTGTTGTGGAAAATTACGGCTGGCTGAAAATCTGACTGGAGTAAAATGC  
 TACTAATGGTTTAAAGAAGCAGACTGTAACCAAGGAGTATCCAGCTCTTCAAATTCCTTACAGTCAAGC  
 TGTAACTCCACTAACTCCACCACACTCCTAGTGAATAGTATTGCTCAGTGCACGCAAGCGGGAATGGCA  
 ATGCATCTACCGAGAGGAATGGGGTTTCTTTCAGTGTTCAGAAATGGAGACGTGTGCCCTCATGATCTCAC  
 TGGCAACAGCATATGTTTAGTGACAAAGAGGACTCCTGCAATGGTAAAAGCCGGATAGCGCTCAGAAGG  
 ACTTCGAAGCGGGGAAGCTTACACTTTATCGAGCAAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR231467 representing NM\_001290445  
 Red=Cloning site Green=Tags(s)

MLFSGGQYSPVGRPEEVLLIYKIFLVIICFHVILVTLKENGNSLLSPSDAASEVLSTLNKTEKSKITI  
 VKTFNASGVKSQRNICNLSSLNDSVFFRGEIVFQHDEHNVTONQDTANGTFAGVLSLSELKRSELNKT  
 LQTLSEYFIVCATAEAQSTVNCTFTVKLNETMNVCAMMVTFTVQVIRPMEQCCSPRTPCPSSPEELEK  
 LQCELQDPIVCLADQPHGPPLSSSSKPVVPQATII SHVASDFSLAEPLDHALMTPSTPSLTQESNLPSPQ  
 PTIPLASSPATDLPVQSVVSSLPQTDLSHTLSPVQSSIPSPTTPAPSVPTLVITSTPPGETVVNTSTV  
 SDLEAQVQMEKALSLGSLEPNLAGEMVNRVSKLLHSPALLAPLAQRLLKVVDIAIGLQLNFSSTTISLT  
 SPSLALAVIRVNASNFNTTFAAQDPTNLQVSLETTPPENSI GAITLPSSLMNLPANDVELASRIQFNF  
 FETPALFQDPSLENLTLISYVISSSVTNMTIKNLTRNVTVALKHINPSPDDLTVKCVFWDLGRNGGKGGW  
 SSDGCSVKDKRMNETICTSHLTSFGILLDL SRTSLPPSQMMALTFITYIGGLSSIFL SVTLVITYIAFE  
 KIRRDYPSKIL IQLCAALLLNIFLLDSWIALYNTRGFCIAVAVFLHYFLLVSFTWMGLEAFHMYLALV  
 KVFNTYIRKYILKFCIVGWGIPAVVSVIVLTISP DNYGIGSYGKFPNGTPDDFCWINSNVVFIYITVVG YF  
 CVIFLLNVSMFIVVLVQLCRIKKKQLGAQRKTSIQDLRSIAGLTFLLGITWGAFFAWGPVNVTFMYLF  
 AIFNTLQGFIFIFYCAAKENVRKQWRRYLCCGKLR LAENSDWSKTATNGLKKQTVNQGVSSSSNSLQSS  
 CNSTNSTLLVNSDCSVHASGNASTERNVSVF SVQNGDVCLHDLTGKQHMFSKEDSCNGKSRIALRR  
 TSKRGLHFIEQM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

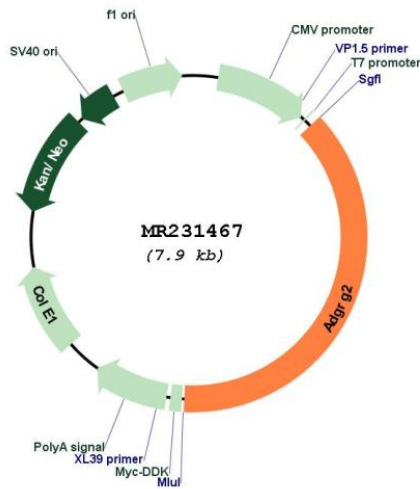
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001290445  
 ORF Size: 2979 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_001290445.1</a> , <a href="#">NP_001277374.1</a>
<b>RefSeq Size:</b>	4675 bp
<b>RefSeq ORF:</b>	2982 bp
<b>Locus ID:</b>	237175
<b>UniProt ID:</b>	<a href="#">Q8CJ12</a>
<b>Cytogenetics:</b>	X F4
<b>MW:</b>	109 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]