

## Product datasheet for RR202435

### Adgrg2 (NM\_181366) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adgrg2 (NM_181366) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adgrg2
Synonyms:	Gpr64; He6; Re6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202435 representing NM_181366 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCTTTTCTCTGGGGTTCAGTACAGCCCTGTTGGCAGGCCTGAAGAGGTTTTACTGATATACAAGATAT  
TCCTTGTCATCATTTGTTTTCATGCCATCTTGTTACATCCCTGAAAGAAAATGCTGGTAATCCAGTTT  
GTTGTCACCATCTGCTGAATCGTCTCTTGTCAGTCTTGTTCCCTACTCCAATGGTACACCAGATGCTGCT  
TCCGAAGTATTGTCGACTTTAAACAGAACAGAAAATCTAAAATCACTATATTAACAACTTCAATGCAT  
CAGGAGTCAAATCCCAGAGAAAATATCTGCAATTTGTCATCTATTTGTCAGTACTCAGTGTTTTTAGAGG  
TGAGATAGTGTTC AACATGATGACCACTACAACGTTACTCAGAAATCAAGATATAGTTAACAGCACCTTC  
GCTGGAGTCCCTGTCTCTAAGCGAACTGAAGCGAACAGAACTCAACAAAACCTACAGACCTTAAGTGAGA  
CTTACTTTATAGTGTGTGCTACCGCAGAGGCCAAAACACATTAACGTACATTCACAGTAAAACCTGAA  
TGAGACCATGAATGTGTGTGCCATGATGGTTACTTTCAAAGGTACAGATTCGGCCAATGGAACAGTGC  
TGCTGTTCCCCCAGGACTCCCTGCCCTTCTCGCCGGAAGAGTTAGAAAAACTACAGTGTGATCTGCAGG  
ATCCCATTGTCTGCCTTGCCGATCAACCACATGGCCCACCAGTATCTTCTCCAGCAAGCCTGTGCCAGT  
TGTACCTCAGGCCACCATTTTTTCCACGTTGCTAGTACTTCTCTTTGGCTGAACCCCTTGATCATGCC  
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GAAAAAGTGGTCGCCATCAGCACACCTCCTGGCGAGACAGTTGTCAACACGAGTAGTGTCTCTGATCTGG  
AAGCCCAAGTATCTCAAATGGAGAAAGCTTTGCTTTGGGCGAGCTTGGAACTAATCTTGGCGGTGAAAT  
GGTGAACCGAGTCAGCAAACCTTCACTCTCCACTTGCCTTGTAGCCCTCTAGCTCAAAGGTTGCTA  
AAAGTGGTAGATGCCATTGGCTTACAGTGAATTTTTCATCTACAACATCAGTCTAACTTCTCCTTCTT  
TGGCTCTTGTGTGATCAGAGTGAATGCCAGTAATTTCAATACAACAACCTTTGCAGCCCAAGACCAGC  
AAATCTCCAGGTGTCTCTGGAAGCCAGGCTCCTAAGAATAGTATTGGCGCCATTACTCTACCCTCATCG  
CTGATGAGTAATTTGCCAGCTAGTGAGGTAGAATTGGCTTCGAGGGTTCAGTTCAATTTCTTTGAAACAC



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CTGCCCTATTTACAGGACCCCTCCCTGGAGAACCTCTCTCTGATAAGCTATGTCATATCATCAAGTGTAC  
 AACATGACCATCAAGAATTGACAAGAAACGTGACAGTTGACTGAAGCACATCAACCCAAAGTCAGGAT  
 GACTTAACTGTCAAAATGTGTTTTCTGGGACTTGAACAGAAATGGTGGCAGAGGAGTTGGTCATCTGATG  
 GCTGTTCCGTCAAAGAGAAGAGGATGAACGAAACTATCTGTACCTGTAGCCACCTTACAAGTTTTGGCAT  
 CCTATTGGATCTATCTCGGACATCCTTACCACCAAGTCAAATGATGGCTCTGACATTTATCACGTATATT  
 GGCTGTGGGCTTTCATCAATTTTTCTGTCACTTACTCTTGTAACTATATAGCCTTTGAAAAGATCCGGA  
 GGGATTACCCCTCCAAAATCCTCATTCACTGTGTGCTGCCCTGCTTCTGCTCAACCTGGTCTTCCCTCTT  
 AGACTCTGGATTGCACTGTATAATGCCGAGGTTTCTGCATCTCCGTGGCTGTATTTCTCACTATTTT  
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 ACACCTTACAAGGCTTTTTCATATTCATCTTTACTGTGCAGAAAAGAGAATGTGAGAAAACAGTGGAG  
 GGGTATCTTTGTTGTGGAAAATTACGACTGGCTGAAAACCTGACTGGAGTAAAACCTGCTACTAATGGT  
 TAAAGAAGCAGACTGTAATCAAGGAGTATCCAGCTCTTCAAATTCCTTACAGTCAAGCTGTAACCTCA  
 CTAACCTCACTACACTCTAGTGAATAGTATTGCTCAGTGCACGCAAGCGGGAATGGCAATGCATCTAC  
 CGAGAGGAATGGGGTTTCTTTCAGTGTTCAGAAATGGAGACGTGTGCCCTCATGATCTCACTGGGAAACAG  
 CACATGTTTAGTGACAAAGAGGACTCCTGCAATGGCAAAGCCGGATGGCACTCAGAAGGACTTCAAAGC  
 GGGGAAGCTTACACTTTATCGAGCAAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAGGTTTAA

**Protein Sequence:**

>RR202435 representing NM\_181366  
 Red=Cloning site Green=Tags(s)

MLFSGGQYSPVGRPEEVLLIYKIFLVIICFHAILVTSLKENAGNSLLSPSAESSLVSLVPYSNGTPDAA  
 SEVLSTLNRTEKSKITILKTFNASGVKSQRNICNLSSICSDSVFVRGEIVFQHDDHYNVTQNDIVNSTF  
 AGVLSLSELKRTELNKTLQTLSETYFIVCATAEAQNTLNCTFTVKLNETMNVCAMMVTFKSVQIRPMEQC  
 CCSPRTPCPSSPEELEKLQCDLQDPIVCLADQPHGPPVSSSSKPVVVPQATIFSHVASDFSLAEPLDHA  
 LMTSSTPSLAQETRLPSPQPTISLTSSPAIDL PVQHVVASSSLPQTDLSHTLSPVQSSIPSPTTAAPSVP  
 EKVVVAISTPPGETVVNTSSVPDLEAQSQMEKALSLGSLEPNLAGEMVNRVSKLLHSPALLAPLAQRLL  
 KVVDAIGLQLNFSSTTISLTSPSLALAVIRVNASNFNTTFAAQDPANLQVSLEAQPKNSIGAITLPSS  
 LMSNLPASEVELASRVQFNFFETPALFQDPSLENLSLISYVISSVTNMTIKNLTRNVTVALKHINPSQD  
 DLTVKCVFWDLNRNGRGGWSSDGC SVKEKRMNETICTSHLTSFGILLDL SRTSLPPSQMMALTFITYI  
 GGLSSIFLSVTLVTYIAFEKIRRDYPSKILIQLCAALLLNLFLLDSWIALYNARGFCISVAVFLHYF  
 LLVSFTWMGLEAFHMYLALVKVFNTYIRKYILKFCIVGWGIPAVVVSIVLTI SPDNYGIGSYGKFPNGTP  
 DDFCWINSVVFYITVVGYFCVIFLLNVSFIVVLVQLCRIKKKKQLGAQRKTSIQDLRSIAGLTFLLGI  
 TWGFAFFAWGPVNLTFMYLFAIFNTLQGFIFIFYCAAKENVRKQWRRYLCCGKLR LAENS DWSKTATNG  
 LKKQTVNQGVSSSSNSLQSSCNSTNSTLLVNSDCSVHASGNASTERNVGSFVSQNGDVCLHDLTGKQ  
 HMFSDKEDSCNGKSRMALRRTSKRGLHFIEQM

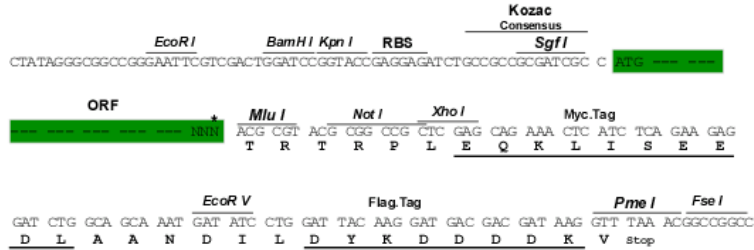
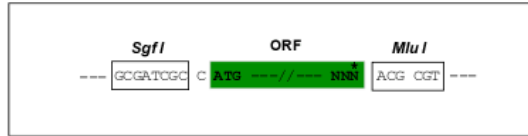
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

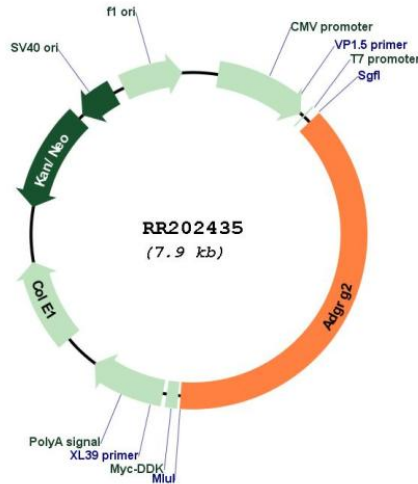
Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**Plasmid Map:**

**ACCN:**

NM\_181366

**ORF Size:**

3039 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](#)

<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_181366.2</a> , <a href="#">NP_852031.1</a>
<b>RefSeq Size:</b>	4608 bp
<b>RefSeq ORF:</b>	3042 bp
<b>Locus ID:</b>	266735
<b>UniProt ID:</b>	<a href="#">Q8CJ11</a>
<b>Cytogenetics:</b>	Xq14
<b>MW:</b>	110.7 kDa
<b>Gene Summary:</b>	epididymus specific member of the LNB-TM7 subfamily of seven transmembrane receptors [RGD, Feb 2006]