

Product datasheet for **RR217401**

Adgrg2 (NM_001270871) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adgrg2 (NM_001270871) 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:	>RR217401 representing NM_001270871 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTTTTCTCTGGGGTTCAGTACAGCCCTGTTGGCAGGCCTGAAGAGGTTTTACTGATATACAAGATAT
TCCTTGTCATCATTTGTTTTATGCCATTCTTGTACATCCCTGAAAGAAAATGCTGGTAATTCAGTTT
GTTGTCACCATCTGATGTGCTCCGAAGTATTGTCGACTTTAAACAGAACAGAAAAATCTAAAATCACT
ATATTAACAACTTCAATGCATCAGGAGTCAAATCCCAGAGAAAATATCTGCAATTTGTCATCTATTTGCA
GTGACTCAGTGTTTTTAGAGGTGAGATAGTGTTC AACATGATGACCACTACAACGTTACTCAGAATCA
AGATATAGTTAACAGCACCTTCGCTGGAGTCTGTCTTAAGCGAACTGAAGCGAACAGAACTCAACAAA
ACTCTACAGACCTTAAGTGAGACTTACTTTATAGTGTGTGCTACCGCAGAGGCCAAAACACATTAACCT
GTACATTCACAGTAAAAGTGAATGAGACCATGAATGTGTGTGCCATGATGGTTACTTTCAAAGTGATACA
GATTCGGCCAATGGAACAGTGTCTGTCTCCCCAGGACTCCCTGCCCTTCTCGCCGGAAGAGTTAGAA
AACTACAGTGTGATCTGCAGGATCCCATTGTCTGCCTTGCCGATCAACCACATGGCCCACAGTATCTT
CTTCAGCAAGCCTGTGCCAGTTGTACCTCAGGCCACCATTTTTCCACGTTGCTAGTACTTCTCTTT
GGCTGAACCCCTTGATCATGCCCTTATGACCTCAAGCACACCCTCTCTGGCACAAGAGACACGCCCTTCCA
TCTCTCAGCCTACAATCTCCCTGACTTCCAGTCTGCCATTGACTTGCCTGTTCAACATGTAGTGGCTT
CTTCTCCTTGCCCCAACTGATCTTTCCACACCCTATCACCTGTGCAGTCTCCATTCCCTCTCCTAC
CACAGCAGCTCCATCTGTCCCTGAAAAGTGGTCGCCATCAGCACACCTCTGGCGAGACAGTTGTCAAC
ACGAGTAGTGTCTGATCTGGAAGCCCAAGTATCTCAAATGGAGAAAGCTTTGTCTTTGGGCAGCTTGG
AACCTAATCTTGGGGTGAATGGTGAACCGAGTCAGCAAACCTTCACTCTCCACTTGCCTTGTAGC
CCCTCTAGCTCAAAGTTGCTAAAAGTGGTAGATGCCATTGGCTTACAGCTGAATTTTTATCTACAAC
ATCAGTCTAACTTCTCTCTTTGGCTTGTCTGTGATCAGAGTGAATGCCAGTAATTTCAATACAACA
CCTTTGCAGCCCAAGACCAGCAAATCTCCAGGTGTCTCTGGAAGCCAGGCTCCTAAGAATAGTATTGG
CGCCATTAATCTACCTCATCGCTGATGAGTAATTTGCCAGCTAGTGAGGTAGAATTTGGCTTCGAGGGT
CAGTTCAATTTCTTTGAAACACCTGCCCTATTTCAGGACCCTCCCTGGAGAACCTCTCTGATAAGCT



[View online >](#)

ATGTCATATCATCAAGTGTACAAAACATGACCATCAAGAAGCTTGACAAGAAACGTGACAGTTGACTGAA
 GCACATCAACCAAGTCAGGATGACTTAACTGTCAAATGTGTTTTCTGGGACTTGAACAGAAATGGTGGC
 AGAGGAGGTTGGTCATCTGATGGCTGTTCCGTCAAAGAGAAGAGGATGAACGAAACTATCTGTACCTGTA
 GCCACCTTACAAGTTTTGGCATCTATTGGATCTATCTCGGACATCCTTACCACCAAGTCAAATGATGGC
 TCTGACATTTATCAGTATATTGGCTGTGGGCTTTCATCAATTTTTCTGTCACTACTCTGTACCTAT
 ATAGCCTTTGAAAAGATCCGGAGGGATTACCCTTCCAAAATCCTCATTCAACTGTGTGCTGCCCTGCTTC
 TGCTCAACCTGGTCTTCTTCTTAGACTCCTGGATTGCACTGTATAATGCCCGAGTTTCTGCATCTCCGT
 GGCTGTATTTCTCACTATTTTCTTGGTATCATTACATGGATGGGCTTAGAAGCATTTCATATGTAC
 CTAGCACTGGTTAAGGTTTTTAATACTTACATCCGAAAGTACATCCTTAAATTCTGCATTGTTGGCTGGG
 GGATACCAGCTGTGGTTGTATCCATCGTCTGACTATATCCCAGATAATTATGGGATTGGATCTTATGG
 GAAATCCCAATGGCACACCAGATGACTTTTGTGGTCAACAGCAGTGTGGTGTCTATATCACGGTT
 GTGGGATATTTCTGTGTGATATTTCTACTGAACGTCAGCATGTTTATTGGTCTTGGTTGAGCTGTGC
 GAATTAAGAAGAAGAAGCAACTGGGAGCGCAGCGCAAACTAGTATTCAAGACCTCCGGAGTATTGCTGG
 CCTCACATTTTACTGGGAATTACTTGGGGCTTGCCTTCTTGCCTGGGGACCAGTTAATCTCACCTTC
 ATGTATCTCTTGGCATCTTAAACCTTACAAGGCTTTTTTTCATATTCATCTTTTACTGTGCAGCAAAAG
 AGAATGTCAGAAAACAGTGGAGGCGGTATCTTTGTGTGGAAAATTACGACTGGCTGAAAACCTGACTG
 GAGTAAAACCTGCTACTAATGGTTTAAAGAAGCAGACTGTAATCAAGGAGTATCCAGCTCTTCAAATTC
 TTACAGTCAAGCTGTAACCTCACTAACTCCACTACACTCCTAGTGAATAGTATTGCTCAGTGCACGCAA
 GCGGGAATGGCAATGCATCTACCAGAGGAATGGGGTTTCTTTCAGTGTTCAGAAATGGAGACGTGTGCC
 TCATGATCTCACTGGGAAACAGCACATGTTTAGTGACAAAGAGGACTCCTGCAATGGCAAAAGCCGGATG
 GCACTCAGAAGGACTTCAAAGCGGGGAAGCTTACACTTTATCGAGCAAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR217401 representing NM_001270871
 Red=Cloning site Green=Tags(s)

MLFSGGQYSPVGRPEEVLLIYKIFLVIICFHAILVTSLKENAGNSLLSPSDAASEVLSTLNRTEKSKIT
 ILKTFNASGVKSQRNICNLSSICSDSVFFRGEIVFQHDDHYNVTQNDIVNSTFAGVLSSELKRTLNK
 TLQTLSEYFIVCATAEAQNTLNCTFTVKLNETMNVCAMMVTFKSVQIRPMEQCCSPRTPCPSSPEELE
 KLQCDLQDPIVCLADQPHGPPVSSSSKPVVVPQATIFSHVASDFSLAEPLDHALMTSSTPSLAQETRLP
 SPQPTISLTSSPAIDL PVQHVVASSSLPQDLSHTLSPVQSSIPSPTTAAPSVPEKVVAISTPPGETVVN
 TSSVPDLEAQVSQMEKALSLGSLEPNLAGEMVNRVSKLLHSPLALLAPLAQRLLKVVDAIGLQLNFSSTT
 ISLTSPLALAVIRVNASNFNTTFAAQDPANLQVSLEAQAPKNSIGAITLPSSLSMNLPASEVELASRV
 QFNFFETPALFQDPSLENLSLISYVISSSVTNTIKNLTRNVTVALKHINPSQDDLTVKCVFWDLNRNGG
 RGGWSSDGC SVKEKRMNETICTSHLTSFGILLDL SRTSLPPSQMMALTFITYIGGLSSIFLSVTLVTY
 IAFEKIRRDYPSKILIQCAALLLNLFLLDSWIALYNARGFCISVAVFLHYFLLVSFTWMGLEAFHMY
 LALVKVFNTYIRKYILKFCIVGWGIPAVVVSIVLTI SPDNYGIGSYGKFPNGTPDDFCWINSVVFYITV
 VGYFCVIFLLNVSMFIVVLVQLCRIKKKKQLGAQRKTSIQDLRSIAGLTFLLGITWGF AFFAWGPVNLTF
 MYLFAIFNTLQGGFFIFIFYCAAENVRKQWRRYLCCGKLR LAENSWSKTATNGLKKQT VNQGVSSSSNS
 LQSSCNSTNSTLLVNSDCSVHASGNGNASTERNGVSFSVQNGDVCLHDLTGKQHMFSDKEDSCNGKSRM
 ALRRTSKRGLHFIEQM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

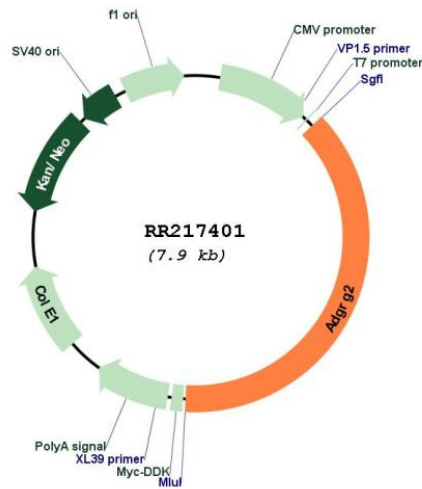
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001270871
 ORF Size: 2991 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:	<ol style="list-style-type: none">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_001270871.1 , NP_001257800.1
RefSeq Size:	4560 bp
RefSeq ORF:	2994 bp
Locus ID:	266735
UniProt ID:	Q8CJ11
Cytogenetics:	Xq14
MW:	109.1 kDa
Gene Summary:	epididymus specific member of the LNB-TM7 subfamily of seven transmembrane receptors [RGD, Feb 2006]