

## Product datasheet for **MG222101**

### Adgrg2 (NM\_178712) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adgrg2 (NM_178712) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adgrg2
Synonyms:	AW212196; B830041D06Rik; Gpr64; Me6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222101 representing NM_178712 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTTTCTCTGGTGGGCAGTACAGCCCTGTTGGCAGACCTGAAGAGGTTTTACTGATATACAAGATAT  
TCCTTGCATCATTTGTTTTCATGTCTTCGTTACATCCCTGAAAGAAAACGGTAATCCAGTTTGT  
ATCACCATCTGCTGAATCATCTCTTGTGAGTCTCATCCCTACTCCAATGGTACACCAGATGCTGCTTCA  
GAAGTTTTGTCGACTTTAAACAAAACAGAAAAATCTAAAATCACTATAGTAAAAACCTTCAATGCATCAG  
GAGTCAAATCCCAGAGAAATATCTGCAATTTGTCTCTTTGCAATGACTCAGTATTTTTAGAGGTGA  
GATAGTGTTC AACATGATGAAGACCACAATGTTACCCAGAATCAAGATACAGCTAATGGCACCTTCGCT  
GGAGTCTGTCTCTAAGTGAAGTGAAGCGATCAGAGCTCAACAAAACCTCTACAGACCTTAAAGTGAAGT  
ACTTTATAGTGTGTGCTACAGCAGAGGCCAAAAGCACGGTAAACTGTACATTCACAGTAAAACCTCAATGA  
GACCATGAATGTGTGTGCCATGATGGTTACTTTCCAAACTGTACAGATTCGGCCAATGGAACAGTGTCTG  
TGTTCCCCGAGGACTCCCTGCCCTTCTCACCAGAAGAGTTAGAAAAACTACAGTGTGAAGTGCAGGATC  
CCATTGTCTGTCTGTGATCAACCGCATGGCCACCCTTATCGTCTCCAGCAAGCCTGTTGTACCTCA  
GGCCACCATTATTTCCATGTTGCTAGTGACTTCTCTTTGGCTGAACCCCTTGATCATGCCCTTATGACC  
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CCTGTACCCGGTGCAGTCTCCATTCCCTCTCCTACCACACCAGCCCATCTGTCCCTACAGAACTGGTCA  
ACCATCAGCACACCTCCTGGTGAGACAGTTGTCAACACTAGCACTGTTTCTGATCTGGAAGCCCAAGTAT  
CCCAGATGGAGAAAGCTTTGTCTTTGGGTAGCTTAGAGCCTAATCTTGCAGGCGAAATGGTAAACCGAGT  
CAGCAAACCTCCTCACTCTCCACCTGCCTTGTAGCCCTCTAGCTCAAAGGTTGCTAAAAGTGGTAGAT  
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TGATCAGAGTGAATGCCAGTAATTTCAATACCACGACTTTTGCAGCCCAAGCCCAACAAATCTCCAGT  
TTCTCTGAAACCCACCTCCTGAGAATAGTATTGGTGCCATTACTCTGCCCTCACTGATGAATAAT



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TTGCCAGCTAATGATGTAGAATTGGCTTCAAGGATTCAAGTTCATTTCTTTGAAACACCCGCCCTGTTTC
AGGATCCTTCCCTGGAGAACCTCACTCTGATAAGCTATGTCATATCATCAAGTGTCAAAACATGACCAT
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CCAAAATCCTCATCCAGCTGTGTGCTGCCCTGCTTCTGCTCAACCTGATCTTCTCCTAGACTCCTGGAT
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ACTGTAACCAAGGAGTATCCAGCTCTTCAAATCCTTACAGTCAAGCTGTAACCTCCACTAACTCCACCA
CACTCCTAGTGAATAGTATTGCTCAGTGCACGCAAGCGGGAATGGCAATGCATCTACCGAGAGGAATGG
GGTTTCTTTCAGTGTTCAGAATGGAGACGTGTGCCTTCATGATCTCACTGGCAAACAGCATATGTTTGT
GACAAAGAGGACTCCTGCAATGGTAAAAGCCGGATAGCGCTCAGAAGGACTTCAAGCGGGGAAGCTTAC
ACTTTATCGAGCAAATG
    
```

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG222101 representing NM\_178712  
 Red=Cloning site Green=Tags(s)

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MLFSGGQYSPVGRPEEVLLIYKIFLVIICFHVILVTLKENGNSLLSPSAESSLVSLIPYSNGTPDAAS
EVLSTLNKTEKSKITIVKTFNASGVKSQRNICNLSSLNDSVFFRGEIVFQHDHNVTONQDTANGTFA
GVLSELKRSELNKTQLTSETYFIVCATAEAQSTVNCTFTVKLNETMNVCAMMVFQTVQIRPMEQCC
CSPRTPCPSPEELEKLQCELQDPIVCLADQPHGPPLSSSSKPVVPQATII SHVASDFSLAEPLDHALMT
PSTPSLTQESNLPSPQPTIPLASSPATDLPVQSVVSSLPQTDLSHTLSPVQSSIPSPPTPAPSVPTELV
TISTPPGETVVNTSTVSDLEAQVSQMEKALSLGSLEPNLAGEMVNRVSKLLHSPALLAPLAQRLLKVVD
AIGLQLNFSSTTISLTSPSLALAVIRVNASNFNTTFFAAQDPTNLQVSLETPPPENSIGAITLPSSLMNN
LPANDVELASRIQFNFFETPALFQDPSLENLTLISYVISSVTNMTIKNLTRNVTVALKHINPSPDDLTV
KCVFWDLGRNGGKGGWSSDGC SVKDKRMNETICTCSHLTSFGILLDL SRTSLPPSQMMALTFITYIGCGL
SSIFL SVTLVTYIAFEKIRRDPYKILIQLCAALLLNLI FLLDSWIALYNTRGFCIAVAVFLHYFLLVS
FTWMGLEAFHMYLALVKVFNTYIRKYILKFCIVGWGIPAVVSVIVLTI SPDNYGIGSYGKFPNGTPDDFC
WINSNVVFIYITVVG YFCVIFLLNVSMFIVVLVQLCRIKKKQLGAQRKTSIQDLRSIAGLTFLLGITWGF
AFFAWGPVNVTFMYLFAIFNTLQGFFIFIFYCAAENVRKQWRRYLCCGKRLAENS DWSKTATNGLKKQ
TVNQGVSSSSNSLQSSCNSTNSTLLVNSDCSVHASGNGNASTERNGVSF SVQNGDVCLHDLTGKQHMF5
DKEDSCNGKSRIALRRTSKRGLHFIEQM
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

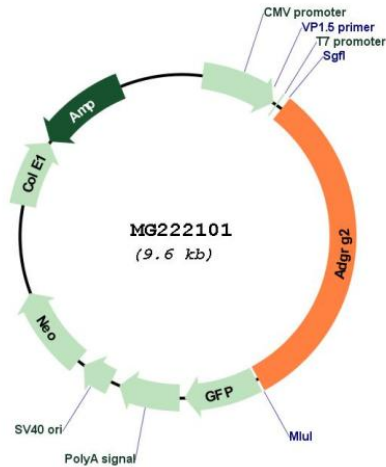
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_178712

ORF Size: 3027 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:**

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\\_178712.4](#), [NP\\_848827.1](#)

**RefSeq Size:** 4727 bp

**RefSeq ORF:** 3030 bp

**Locus ID:** 237175

**UniProt ID:** [Q8CJ12](#)

**Cytogenetics:** X F4

**Gene Summary:** 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]