

## Product datasheet for **MG208657**

### Adgrg3 (NM\_173036) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adgrg3 (NM_173036) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adgrg3
Synonyms:	A030001G24Rik; AW214383; Gpr97; Pb1; Pb99
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208657 representing NM\_173036  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACAGCCAGGAGTCTGGCCTCCTGTTCTTTCTGCTGCTGACTTCAGATGAGGAGACCACGGAAG  
 AGCCGAGGAATGTCTGCGTTCGGCTTTCAGGAGGCCACGAGTATGACACCTTCGACTTGAATGACTGCTC  
 TCAGTGTTCACCAAGTGTGGGCAATCGGAGCACAGCCCTGTGACGTGGGGAACCTGCAGAGATACTGG  
 TTGAACTATGAGTCTACCTGCTGGAGAATTCATGGAGACTGTGGACATGCCTTTTGTAAAGCATTGA  
 TCCAGAACATCAGCACGGATGTCTCAGAAGACCTGCTGTACTCTCTGATGCTTTCCAGATCCCAGGCA  
 GGTGATGCAGGGTGAAGACGAGCCTGCTGATGGAGTCCGACTTCCCAAGAGCCTGTTTGGAGCCCTGCCT  
 GGCAACAGGTCTGCAGTCCGGTTGGCCATAACTGTTCTAGACATTGGTGCAGGGAATGTCTTAAAGGCC  
 CCAAGCTCCTTGAGGACAAGGCCAGCAGCGTGTGAACAACCGCATGGTGGGTTTGAAGCGTGGCCAGAT  
 GCACGCCACCGGCTGTCCGAACCTGTAGAGATCACCTTCTCCATGAGCGTCAACCACCTAACGTGATC  
 CTACCTGTGATTCTGGGATATGGCTAAAGGAGACTGGGATTCCACCGCTGCTCCACGGTGCCCGGGG  
 ATGGGAGAACTGTCTGCCGTTGCCGACCTTGACCTTCTTCGCCTTGCTGCTGAGGCCGATCTTGACCT  
 GGCCACGGCACAGACTCTCACTCGCATCTCCAGGCAGGAGTCCGCTCCATGATCTTCTGGCCTTC  
 ACCATGGTGTCTATGTTGCCTTCAGGTTCTCTGTCAGAGGCTCAAGTCTGAAGATGCCCTAAGATCC  
 ACATGGCTCTGAGCATCAGCCTGTTTCTCTGAATCTTACCTTCTGATCAATGTGGGAGCAGCTCCCA  
 AGGCCCCCAGCCTCTGCTGGGTCCGAGCTGCCATTTCCACTACTTTCTGCTCTGTGTCTTCACTGG  
 ATGGGTCTGGAGCCTCCACCTCTACCTGCTGGCCATCAGAGTCTTCAATACCTACTTTGGACACTATT  
 TCCTGAAGCTGAGCCTGCTGGCCTGGGCTGCTGTTCTGTAGTTATTGGTCTGGAAGTACCAACAG  
 TTATGGAGTTTACACCATTTCGCGACAGGAGAACCACACATCACTGGAGTTGTGCTGTTCCAGAAAGAG  
 CCTGCTCTTTATGCTACTGTCCACGGCTACTTCTTGTACCTTCTTCCGCTGCTGTTGACTGGCTT  
 TGGTGGCCTGGAAGATCTCACTCTGCCAGTGTACAGCGGGCAAAGGACAGGGGCCGACTGGAAGTC  
 GGTCTCACCGTCTGGGCTCTCCAGTCTGGTGGCATGACCTGGGGCTGGCTGTTCTACCCCCCTC  
 GGCTTGTCTACCATCTACGTCTTACCCTCTTAAACTCTCTACAAGGGCTCTTCACTTCTGCTGGTTCA  
 TCATCCTCTACTCCCTACTCAGAGCACACAGCTCTCTCCGGCACCGCCGCTGGACCAGGCCCA  
 CTCGCTGCCAGGAG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG208657 representing NM\_173036  
 Red=Cloning site Green=Tags(s)

MATARSLGLLFFLLLSDEETTEPRNVCRRLEQEGHEYDTFDLNDTAQCFTKCGQSEHSPCDVGNLQRYW  
 LNYESYLLENMETHVDMFVKALIQNISTDVSDDL YSLMLSQIPRQVMQGEDEPADGVRLPKSLFGALP  
 GNRSVRLAITVLDIGAGNVFKGPKLLEDKSSVLLNRMVGLSVGQMHATGLSEPVEITFSHERQPPNVI  
 LTCVFWDMAKGDWDSHGCTVPGDGRVCRCDHLTFALLLRPILDLATAQTLTRISQAGSAVSMIFLAF  
 TMVLYVAFRFLQRLKSEDAPKIHMAISLSLFLNLTFLLINVGSSSQGPPASCWVRAAIFHYFLLCVFTW  
 MGLEAFHLYLLAIRVFNTYFGHYFLKLSLLAWGLPVLVIGAGSSNSYGVYTIIRDQENRSTLELCWFQKE  
 PALYATVHGYFLVTFVFGAVVLLVAVWKIFTLPSVTAGKGQPTWKSVLTVLGLSSLVGMTWGLAVLTP  
 GLSTIYVFTLLNSLQGLFIFCFWFIILYFPTQSTTASSSGTARLDQAHSVSQE

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_173036
<b>ORF Size:</b>	1626 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_173036.2</a> , <a href="#">NP_766624.2</a>
<b>RefSeq Size:</b>	2433 bp
<b>RefSeq ORF:</b>	1629 bp
<b>Locus ID:</b>	54672
<b>UniProt ID:</b>	<a href="#">Q8R0T6</a>
<b>Cytogenetics:</b>	8 C5
<b>Gene Summary:</b>	Orphan receptor that regulates migration of lymphatic endothelial cells via the small GTPases RhoA and CDC42 (By similarity). Regulates B-cell development (PubMed:24113187). Seems to signal through G-alpha(q)-proteins (By similarity).[UniProtKB/Swiss-Prot Function]