

Product datasheet for **MC202826**

Adgrg1 (NM_018882) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adgrg1 (NM_018882) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adgrg1
Synonyms:	Cyt28; Gpr56; TM7LN4; TM7XN1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC034678 sequence for NM_018882
 CCTGAAAGGTGGTTTCAGCTGCCTGGCTCCTTCCAGAACCCGTCGCTGGCACCAGGTAGGAGTATAATGG
 CTGTCCAGGTGCTGCGGCAGATGGTCTACTTCTACTGAGTCTGTTTTCTCTGGTGAAGGTGCACACAG
 TGGCAGCCCCGAGAAGACTTCCGCTTCTGTGGCCAGCGGAACCAGACCCAACAGAGCACCTCCACTAT
 GATCAATCTTCAGAGCCTCACATCTTTGTGTGGAACACAGAGGAGACCCTCACAATTCGTGCCCCCTTCC
 TGGCAGCCCCAGATATCCCCGCTTCTTCCAGAGCCTAGAGGGCTCTATCACTTCTGCCTCTACTGGAG
 TCGCCACTGGGAGACTCCACTTGCCTATGGCAAGCATGACTACCTGCTTAGTGGCAAGCCTCCAGA
 CTCTCTGCTTCCAGAAACAGGAGCAGAGCCTGAAGCAGGGAGCCCCGCTGATCGCCACCTCTGTACAGT
 CCTGGCAGATTCCCCAGAACACCAGCCTGCCTGGGGCTCCGAGCTTCATCTTCTCCTTCCACAATGCCCC
 ACACAAGGTCTCCACAATGCATCTGTGGACATGTGTGATCTCAAGAAGGAATTGCAGCAGCTTAGCAGG
 TACCTGCAGCACCTCAAAGGCTGCCAAGCGGCCACCAGCAGCTTCATCAGCCAGCAGTTACAGAGCC
 TGGAGTCAAAGCTGACCTCTGTGAGCTTCTGGGAGACACATTATCCTTTGAGGAGGACCGGGTCAATGC
 TACAGTGTGGAAGCTGCCACCCACAGCCGGTCTAGAGGATCTGCATATCCACTCCCAGAAGGAGGAGGAG
 CAGAGTGAAGTCCAGGCATACTCGCTGTGCTTCCCCGGGCCGATTCCAGCAGACCAGAGGCCGTCGCC
 GGGATGAGCCAAAGAGGCTCCTGGTAGTAGACTTCAGCAGCCAAGCTTTGTTCCAGGACAAGAATCTAG
 CCAAGTCTGGGTGAGAAGGTCTTGGGTATTGTGTGCAGAACACAAAGTCACCAACCTCTCAGATCCG
 GTGGTACTCACCTTCCAGCACCAGCCTCAGCCAAAAATGTGACTCTGCAGTGCCTGTTCTGGGTGAAG
 ACCCGGCATCAAGCAGCACAGGGAGCTGGAGCAGTGCAGGCTGCGAGACAGTGCAGAGACACACAGAC
 ATCCTGCCTGTGCAACCACCTGACCTACTTTGCAGTGTGATGGTGTGATCCACAGAGGTAGAAGCCACT
 CACAAACTACTACCTCACGCTCCTGTCTACGTGGGCTGTGTATCTCTGCTCTGGCTTGTGTCTTACTA
 TTGCTGCCTACCTCTGCTCCAGGAGGAAGTACGTGACTACACCATCAAAGTCCACATGAACCTGCTGTC
 CGCTGCTTCTGCTGGACGTGAGCTTCTGCTCAGCGAGCCTGTGGCACTGACGGGCTCCGAAGCAGCC
 TGTGCGACCAAGTCCATGTTCTGCATCTCCCTGCTTCCCTGCTTCCCTGCTTCCCTGGATGGCCTCGAGGG
 ACAATCTCTACCGACTGGTGGTGGAGGTCTTCGGTACCTATGTGCCCGGCTATCTGCTCAAGTGCAGCAT
 CGTGGGCTGGGGTTTTCTGTCTTCTGGTCACTCTGGTGGCGTTGGTGGATGTGAATAACTACGGCCCC
 ATTATCTAGCTGTGCGCCGACTCCGGAACGTGTACCTACCCCTCTATGTGCTGGATCCGGGACTCCC
 TGGTGAGCTATGTCACCAACCTGGGCTCTTCACTGCTGGTCTTCTGTTCAACCTGGCTATGCTGGCCAC
 CATGGTGGTGCAGATCCTGCGGCTTCGCCCGCACAGCCAGAACTGGCCCCACGTGCTGACCTGTGGGC
 CTCAGCCTGGTCTTGGCTCCCTGGGCTTGGTCTTCTTTCTTTGCTTCCGGCACCTTCCAGCTTG
 TCATCCTCTACCTCTTCCAGCATATAACTTCTTCCAAGGCTTCTCATCTTCTGTGGTACTGGTCCAT
 GCGGTTCCAGGCCAAGGCGGCCCTCCCCTCTGAAGAACAACCTCAGACAGCGCCAAACTCCCCATCAGC
 TCCGGCAGCACCTCCTCCAGCCGATCTAAGCCACCGCCACACCTCCCCTCCGGGAGGACACATGCATGG
 CGTCCGCTCACGATGTCTGTGGCCAGTGTGTGCCACCCAGCCTTTGTTGGTTAGTGGCATACTAGAG
 AAGGCCCTGGTCTTGAAGGCGTAGGGCTGTTGCTCTGGTAGGTAGATACCTAGCTTGCCTTGGGGACGA
 CTCTGGTCTCAAAGGGCTCAGAAGCAGACTGCCATTCTGTTTGTGGGGCCGTTTTCAGTCTGGAGCTAAG
 GCCTTGTCTTCTGGCCACCTCTGGGTCCAGCTGTTGCTGCTGGGTGTTGAGACCTGCAGACCCAAGCTG
 GGGTTAGATCTCGAAGGAGGCTGACACATCCGGCTGAGACACAGCTAACTGTCTTACTTGTCTGCTG
 TCTCTGTGGTACCATGCAGATCCCAGGGTGGCACTGGGGTAAATGTTCTGGGAGAAGGTTTGGAGGC
 AGAGCACCTTAGGAGCTGAGCATCTCCCCAGCCTTTCTGCAAACCCTCCTTTCATTCCCACCCCCAA
 CCCCTCCTCTGTGTTCCCTAACCTCCACCTGAAGCCTGGGGTCTAGACCAATGCTGTGATTTGGGGT
 GGTAGTCCCAGCAGTTTCTGGTGCCAGCTATCAACTTCTGTCTGTTGTGTGGGCTTTGCCTCTGACT
 CAGGGCAGGTTTCTGTCTGAGCCCTCTCTCCAAGCTGCCTCACCTTTGCTCGCACCTCAGAGGGACCTCC
 ATCTCTCTGAAGCCTCTCCCTCTGGCAAGTACTGGGATACAGCCACCTTTTCAACCCAGCACTCTGAA
 GACCAAGACAGCCCCCTCTGGTGAAGTACTGGCAAGCTTGTCTTTTTCTAAGAAGTGGTCTTCCAGATCC
 CTGCAAGTCTGAGAGACTGGGCTGCCTAGTGTGAATTCTGTCTACTAACGTACAGTGAAGCAGCT
 CCTCACCCACCCCGCAAAAGCTCTACCAAGTCTGGAGTGTGAGGAGGGGCTGGAATCCAGGA
 GGACTTCTGCAAAGGAGCATTTCATCTTACCTCAGCCTTCCAGTTGGGGAGATGTTCTTTTTAA
 TACCAGTTCATTTGCTTTTTGATATTAAGCTCTTATAGAGAGTCTGGAACCTGTAGGCGATTGTGCGAG
 AAGAGAAATAAAAATGAGCTGTTATCTAATGCCATGGCAAGCAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN:	NM_018882
Insert Size:	2064 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	BC034678 , AAH34678
RefSeq Size:	3348 bp
RefSeq ORF:	2064 bp
Locus ID:	14766
UniProt ID:	Q8K209
Cytogenetics:	8 47.12 cM
Gene Summary:	<p>Receptor involved in cell adhesion and probably in cell-cell interactions. Mediates cell matrix adhesion in developing neurons and hematopoietic stem cells. Receptor for collagen III/COL3A1 in the developing brain and involved in regulation of cortical development, specifically in maintenance of the pial basement membrane integrity and in cortical lamination (PubMed:21768377). Binding to the COL3A1 ligand inhibits neuronal migration and activates the RhoA pathway by coupling to GNA13 and possibly GNA12 (By similarity). Plays a role in the maintenance of hematopoietic stem cells and/or leukemia stem cells in bone marrow niche (PubMed:23478665). Plays a critical role in tumourigenesis (By similarity). Plays essential role in testis development (PubMed:20981830).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.</p>

