

Product datasheet for **MC223802**

Adrg6 (NM_001002268) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adrg6 (NM_001002268) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adrg6
Synonyms:	1190004A11Rik; AI449247; AW045736; DREG; Gm222; Gpr126
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223802 representing NM_001002268 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTTTGACACTCTCGGAAGAGGTGCTGCCCTTGGAGACTGAAGCCAAGCGCCCTGCTGTTCTGT
TTGTTTTATGTGTACCTGTGTTCTCTCAGTGTGCGGATGTGGCAGCTGCAGACTTGTCTGTCCAA
TCCTTCCGGTACCTTTACGTCTCCGTGTTACCCTAATGACTACCCTAATACCCAGTCTTGTTCGTGGACC
CTCCGAGCCCTGCCGGTACATCATTAGATAACGTTCAATGACTTCGACATTGAAGAAGTCCCAACT
GTATCTATGACTATTGTCCTCGATAATGGAGAGAGCCAGACAAAATTCTGTGGAGCGACTGCCAAGGG
CCTGTCAATTAACCTCCAGCGTGAATGAGATGCATGTGTCCTTTTCAAGTACTTTAGTATCCAGAAGAAA
GGTTTTCAACGCCAGCTACATCAGAGTTGCTGTGTCCTTGAGGAATCAAAAGGTCATTTTGCCCCAGACAT
TAGATGCTTACCAGGTATCAGTTGCAAAAAGCATCTCCATTCTGAACTCAAAGCTTTCACGCTCTGTTT
TGAAGCCTCCAAAGTTGGCAATGAAGGTGGTACTGGACAGCTTCTCCTACTCAGACGAGTCCCTTACA
CAGCTGCTCAGTCTTGAAAAGGCCAGTAATGGCTACTTCTGTCCATCTCTGGCTCAAGATGCTTGTGA
ACAATGCGTTACCTGTGAAGGACAAAGAGGACATCTTACAGAAAAGTGGAGCAGCTCTGTCTTGTGTG
GAATAATCTTGGGGCTCCATTGGTATAAATTTCAAAAAGAACTATGAAACAGTTCATGTGATTCCACC
ATCAGTGTGTCGTACCCGGGGATGGGACATTGCTGTTGGGCTCCGACAGAGATGAGTCCGCTCTCTAA
GGGGCAGCATCTATAACTTTCGACTTTGGAATTTTACCATGGATCTGAAAGCCCTCTCAACCTCAGCTG
TAGTGTGCTGGGAATGTCATAGACTGGCACAATGACTTTTGGAGCATCTCAACCAAGCTCTGAAAGCC
GAGGGCAACCTGAGCTGTGGTTCCTACCTGATCCAGCTTCTGCAGCAGAGCTGACAAAAGTTCAGAAC
TGGGGACTCTCTGTCAAGACGGAATAATGTATCGAATACTGTTGTGATTCAAAAGTACTTTAATCACCC
TGAAGTAAAAGTGCAGACCAAAGTAGCAGAATGGCTCAATTCAACCTTTCAGAATTGGAAGTACTGTT
TATGTGGTAAATAAAGTTTTTCAAAAAGTAGGAGAGGACAGGATGAAAGTCAAGAGAGACATCATGG
ACGATGACAAAAGTTGGTGTCTCTGGGCCCTTCTAGTCTACAATGCTACCAATAACGTGAGCTGAAATGA
AGAGAAGATTAACAAAAGCTTATGACAAATAATGCATCACTAGAGGATGGACTGAGGCTGTGTAAGTC



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GACGTGAACCAGCTGGGTATGTGTAGCGCCTTGGAGGATCCAGACGGCTTTAGTTGGCCAGCCACCTTAC
 CCTCTGTCTACAAACAACCATGTCCAAACAAGCCTGGCTTTTTATGACTCGAGCGTGCCTTTCTAATGG
 AACATCAACCTTCTGGGGCCCTGTTGACACTTCCAAGTGTCAAGACAATCAAAATGAAGTGGCCAATGAG
 ATTTTAAACAACTGGTGTAGGGCAGAACCTCACCTCGGCTAATATCAACAGCATTGTAGAAAAGGTCA
 AACGGATCGTGAACAAAGAAGAAAACATTGACATCACCTCGGCTCCACTCTAATGAATATATTTCTAA
 TATCTTAAGCAGTTCAGATAGCGATTTGCTTGAGTCTTCTACTGAAGCTTTAAAAACAATTGACGAGCTA
 GCCTTCAAAATAGACCTGAATAGCACCCACATGTGAACATTGAGACACAGAATTTGGCCCTGGAGTCT
 CATCCCTAATCCAGGAACAAATGCACCTTCAAATTTTAGCATTGGCCTTCCAAGCAATAATGAATCGTA
 CTTCCAGATGGACTTCGGGAACGGACAGACAGATCCACTGGCATCTGTGATTTTGCCTCCAAATTTGCTT
 GAGAATTTAAGCCCCGAAGATTCTGTATTGGTCAGGAGAGCACAGTTCACTTTCTCAACAAAACCGGAC
 TTTTCCAGGATGTTGGATCTCAAAGAAAAGTCTCGTGAGTTATGTGATGGCGTGACGATTGGAACAT
 TACTATCCAGAATCTGAAAGATCCGTTCAAATCAAATCAAACACACCAGAACACAGGAAGTGCATCAT
 CCTATCTGTGCCCTCTGGGATATGAACAAAACAAAAGTTTGGGGGGTGGAACACCTCAGGATGTGTTG
 CCCACTCTGATTTGGACGCTGGTGAAGACATTTGTCTGTGCAGCCACTTCACTCACTTTGGAGTTCTGAT
 GGATCTTCCAAGGAGTGCCTCACAAATAGATGGAAGAAACACAAAAGTCTCACGTTTATTACCTATATT
 GGGTGGCAATATCTGCCATTTTCTCAGCTGCAACTCTCCTGACATATGTTGCTTTTGGAGAGCTGCGCA
 GGGATTATCCCTCCAAAATCCTGATGAATCTGAGCTCGGCCTTGCTTCTCCTGAATCTCATCTTCTCCT
 GGATGGCTGGGCACTTCTTTGGCGTGGCTGGACTCTGCACGGCTGTGGCTGCCCTGTTGCACTTCTTC
 CTCCTGGTACCTTCACTGGATGGGGCTGGAAGCCATCCACATGTACATTGCTCTTGTGAAAGTGTTTA
 ACATTTACATCCACCGCTATATTCTAAAATCTGCATCATAGGCTGGGGTCTGCCAGCCTTGGTGGTGTG
 AATTATTCTAGTGAGCAGAAGACAAAATGAAGTATATGGAAAAGAAAGTTATGGGAAAGATCAGGATGAT
 GAATCTGCTGGATTGAGATCCTGTGGTGTATGTGAGCTGTGCCGGTACTTCGGAGTCATGTTCT
 TCCTGAATGTGCCATGTTTATTGTGGTATGGTGCAGATCTGTGGGAGGAATGGAAAGAGAAGCAACCG
 GACCTGAGAGAAGAGGTTTTAAGAAACCTGCGCAGTGTGGTCAAGCTTCACTTCTGCTTGGCATGACG
 TGGGGTTTGTCTTTTGCCTGGGACCTTAAATATTCTTTTATGTACCTTCTTCCATCTTCAATT
 CATTACAAGGTTTATTTATATTCACTTCCACTGTGCGATGAAGGAGAATGTTTCAAAAAGTGGAGGCG
 TCACCTCTGCTGTGGCAGGTTTTCGGCTAGCAGACAACCTCAGATTGGAGTAAGACAGCTACCAATATCATC
 AAGAAGAGCTCCGATAACCTGGGAAATCTTTGTCTTCAAGCTCCATTGGCTCCAATTCAACATATCTCA
 CATCCAAATCAAAGTCCAGCTCCACTACCTATTTCAAAGAAACAGCCACTCGGATAATTTCTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Chromatograms: https://cdn.origene.com/chromatograms/ja1894_d10.zip
- Restriction Sites: Sgfl-Mlul
- ACCN: NM_001002268
- Insert Size: 3498 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 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](#)

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_001002268.3](#), [NP_001002268.1](#)

RefSeq Size: 6505 bp

RefSeq ORF: 3498 bp

Locus ID: 215798

UniProt ID: [Q6F3F9](#)

Cytogenetics: 10 A2

Gene Summary: G-protein coupled receptor which is activated by type IV collagen, a major constituent of the basement membrane. Essential for normal differentiation of promyelinating Schwann cells and for normal myelination of axons these functions are mediated via G-protein-signaling pathways (PubMed:24227709, PubMed:21613327). Regulates also neural, cardiac and ear development via G-protein- and/or N-terminus-dependent signaling. May act as a receptor for PRNP which may promote myelin homeostasis (PubMed:27501152).[UniProtKB/Swiss-Prot Function]