

Product datasheet for **MC224313**

Adgrf5 (NM_001081178) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adgrf5 (NM_001081178) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adgrf5
Synonyms:	8430401C09Rik; 9330185D23; AI528491; Gpr116; mKIAA0758
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224313 representing NM_001081178 Red =Cloning site Blue =ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGATCGCCAAGGACCTTCACGTTCTACTTCTGCTTCTTGTGATTTGTTCTTCAGAAGCTGCGCTGA
GCACACCAACAGAGCCCATTGTTCAACCTTCAATTCTCCAAGAACATGAGCTAGCCGGGAAGAGCTACT
GAGGCCAAAAAGAGCAGCTGCAGCGGTGATCGCGTGGCGGAAGAATACATGGTGGATATTGAGATCAGC
TTTGAAAATGTCTCCTTCTGGAGTCCATCAGAGCTCACTTGAACAACCTCAGTTTTCCAATTCGAGGGA
CCGAAGCTGACATTTTGAACATAGCAATGACTACAGTCTGCACTCCTGCTGGAATGACCTCTTGTGCTT
CTGTGAGAAAGGCTACCAGTGGTCTGAGGAAAGGTGTCTCCACTCTCACTTGTCAAGACTATGACAGT
GCCCTGCCAGGCGGCTACTGCAGTTGTCTGAAAGGACTTCTCCCGAGGACCTTCTGCGAGCTCCAG
AAGCATTACCTTAAACTCAAAGTCAAGTGAACATAGGATTTCAAGAAGACCTAAAGAACACGTC
TTCTGCCTCTATAGGTCCTACAAGACTGATCTGGAAAGAGCGTTCAGAGCGGTTACAGAACTTACCA
GGATTCAGATCGGTGACTGTGACACAGTTCACCAAGGGCAGCGTGGTTGTGAACACGTAGTCCGGGTTA
CATCGGCACCACTGCCTGGATCTATTCATAAAGCCAATGAACAAGTCAACAGAACTCAACCACTACTTA
CAAAATGGACTACAACCTTCCAGGGAACCCGAGCAATGAGACGAAATTCAGTGCATACCAGAATTC
ATCTTTGAGGGAGACAATGTGACTCTGGAGTGTGAAACTGAGTTGCTGACCTCCAACACGCTCTTGGTACT
ATGGAGAAAAACGCTCTGACATCCAGAACGACGACAAATCTCCATTACACCACTGTCAACCAATAT
AAGCCTGATCACCCGCTTACCATTTACAACCTCACACAGCATGATGCGGGCATGTATGTTGCAATGTG
ACATTGGATATTTTTGAATATGGAACAGTCAGAAAATTAGATGCTACTCCATCCGGATTTGGCCAAGG
AGGAGAGAAAGGTGGTGTGACAACCATCCTATATCGCTGAAGTCTGAGCAGGAGAATATTGAAAAGT
GAGCAGTATTGAATGAAACAGGAAGGGAAGATAAGCATTCTAGGGAACCCAGAATCAGACCTAGAGTCT
AGCTGCAGCACTACACGCTCAAGGCAGATGGAACCCAGTGTCCAGTGGGTCTTCTGGAACAACAGTCA
TCTACACATGCGAGTTTCGTAGTGCCTATGGAGCCAGAGGCAGTAAGAACATAGCTGTGACCTTCACCTC
TGAGCCAACCTAACAAATAACCCGGGACCAATTTCTGTTTCTGAGGGACAAAGCTTTTCTATAACCTGC



CTCAGCGATGTGAGTAGCTTTGATGAGGTGACTGGAACACCTCAGCTGGTATTA AAAATCCACCCAAGGT
 TTTATACCATGAGGAGGTATCAGGATGGAGCAGAGTCGGTGCTGATGGTGAAGACCTCCACCCGAGAGTG
 GAACGGAACTACCACTGCATATTTAGATATAAGAATTCATACAGCATTGCCACCAAAGATGTCACCGTT
 CACCCGCTGCCTCTGGTGTGAGACATCATGATGGATCCTTTGGAAGCCAGTGGTCTGTGTACCAGTTCCC
 ATCAATTCAAATGCTGCGTAGAAGAGGATGCAGGGGAAGAGTACGCTGTGACTTCCACGTGGACTCCTC
 ATCCTTTCCCGCTGAAAGAGAAGTTATCGGCAAGCAAGCATGCTACACATACAGTCTCCACGCGAACTTA
 CCTCGATGCCAAAGACATCGCAGTGTCTGCCACTTACCAATGCAGCCAACAGCTCAGTCCGGAGCC
 CATCTATGAAGCTCAAACCTTATTCCAAGGGAGAATGTCACATGCCAGGATCCCATTGGCATTGGGGA
 TCCTGGGAAAGTCATTAGAAGCTGTGCCAGTTCTCAGGTGTTTACGGAAGCCCTGGACAGGCCATCGGC
 GGGACTGTCACTTACAAATGTGTGGCACCCAGTGAAGGAGGAGTCAAGGGCCTGCATCTCAGTCCAA
 TCAATGGTTTGTCCAGGTGGCCAAGGCTTTGATCAAGAGCCCCACCCAGGACCAGAAGCTCCCTACATA
 CCTGAGGGACCTTTCTGTAGTGTGGGAAGGAAGAACAGGACATCCGCTCATCTCCAGGAAGCCTGGGA
 GCCATCATCAGCATCCTTGACTTGCTCTCAACGGTCCCACCCAAGTGAATTAGAAAATGATGAGAGACA
 TACTTGCTACCATTAACGTCATCTTAGACAAGTCTGCCTGAACTCCTGGGAGAAGTTGCTACAGCAACA
 GAGCAATCAGAGTTCTCAGTTCTGCACTCCGTGGAAAGGTTTTCCCAAGCCCTCCAGCTGGGAGACAGC
 ACTCCTCATTCTCGCCACCCCTAACGTTTCCAGATGAAGAGCATTGGTGATAAAACGTGGCCACCCCAAA
 TCTACCAACAGCAGTTTATCTTCAAAGACTCTGACCTGTGGGGTGATGTAGCCATTGATGAGTGTGAGCT
 GGGAAACTTGACGCTGATTCATCGATCGTTACTGTGGCTTTCCCAACTCTCAAAGCCATCCTTGCCAG
 GATGTACAGAGAAAGACATCCTCCAACAGCTTAGTAATGACAACCACTGTGAGCCATAACATTGTCAAGC
 CATTTAGGATTTCTATGACTTTTAAACAACCATCGTTCGGGTGGCAAGCCACAGTGTGTCTTCTGGAA
 CTTGAGTCTTGCCAACAATACAGGGGGCTGGGACAGCAGTGGGTGCTCTGTGGAAGATGATGGTAGGGAC
 AATAGGGACAGAGTCTTCTGCAAGTGTAAACCACTGACGTCATTCTCCATCCTCATGTCCCAAGTCCC
 CAGATCCAGGGTCTCTTTAAAAAATACTTCTGGATATCATTCTTACATCGGGTGGGGTTTTCCATAGT
 CAGCTTAGCTGCCTGTCTAGTTGTGGAAGCCATGGTGTGGAATCTGTGACCAAGAACCAGAACTTCTAT
 ATGCGCCACATCTGCATAGTCAACATTGCCTTTTGCCTTCTGATTGCTGACATCTGGTTCATTGTGGCTG
 GTGCTATCCACGACGGTCGCTACCCACTCAACGAAACAGCCTGTGTGGCCGCCACATTCTTCATTCACTT
 CTTCTACCTCAGTGTCTTCTTGGATGCTAACTTAGGCCTCATGCTCTTCTACCGGCTGATTTTCATT
 CTACACGATGCAAGCAAGTCCACTCAGAAAGCCATCGCATTCTCTAGGCTATGGGTGTCCTCATTAT
 TCTCTCTATCACAGTGGGGTTACGCAGCCACAGGAAGTCTACATGAGGAAGAACGCGTGTGGCTCAA
 CTGGGAGGACACCAGAGCACTGCTGGCTTTTGGCATCCCCGCGTTGATTATTGGTGGTAAATGTGAGC
 ATCACAGTTGTGGTCATACCAAGATCCTGAGGCCCTCATTGGGGACAAGCCAGGCAAGCAAGAGAAGA
 GCAGCCTATTCCAGATCAGCAAGAGTATCGGGGTCTCACACCACTCTTGGGGCTCACTGGGGTTTTCGG
 TCTTGCCACAGTGATCCAGGGAAGCAATGCTGTGTTCCACATCATATTTACTCTCCTCAATGCCTTCCAG
 GGGCTCTTCAATTTGCTCTTTGGCTGCCTCTGGGATCAGAAGGTGCAGGAAGCTTTGCTGCATAAGTTTT
 CATTGTCAAGGTGGTCTTCTCAACACTCAAAGTCAACATCCATAGGTTTCGTCAACACCCGTGTTTTCAAT
 GAGTTCTCAAATATCCCGAAGATTTAATAATCTTTTTGGTAAACAGGAACATATAACGTTTCCACCCCA
 GAGACAACCAGTTCATCCCTGGAAAATCTCTAGTGCTTACTCACTGCTCAACTAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001081178
Insert Size: 4047 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_001081178.1](#), [NP_001074647.1](#)

RefSeq Size: 8535 bp

RefSeq ORF: 4047 bp

Locus ID: 224792

UniProt ID: [G5E8Q8](#)

Cytogenetics: 17 B3

Gene Summary: Receptor that plays a critical role in lung surfactant homeostasis (PubMed:23590306, PubMed:23922714, PubMed:23684610). May play a role in controlling adipocyte function (PubMed:22971422).[UniProtKB/Swiss-Prot Function]