

Product datasheet for **SC316449**

GPR116 (ADGRF5) (NM_001098518) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GPR116 (ADGRF5) (NM_001098518) Human Untagged Clone
Tag: Tag Free
Symbol: ADGRF5
Synonyms: GPR116; KPG_001
Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_001098518, the custom clone sequence may differ by one or more nucleotides

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ATGAAATCCCAAGGAGAACCACCTTTGTGCCTCATGTTTATTGTGATTTATTCTTCCAAA  
GCTGCACTGAACTGGAATTACGAGTCTACTATTATCCTTTGAGTCTTCATGAACATGAA  
CCAGCTGGTGAAGAGGCACTGAGGCAAAAACGAGCCGTTGCCACAAAAGTCTACGGCT  
GAAGAATACACTGTTAATATTGAGATCAGTTTTGAAAATGCATCCTTCTGGATCCTATC  
AAAGCCTACTTGAACAGCCTCAGTTTTCCAATTCATGGGAATAACACTGACCAAATTACC  
GACATTTTGGCATAAAATGTGACAACAGTCTGCAGACCTGCTGGAATGAAATCTGGTGC  
TCCTGCGAGACAGTTATGGGTGGCCTCGGAAAGGTGTCTTACAATCTCATTTGTCAA  
GAGCGTGACGTCTTCTCCAGGGCACCATTGCAGTTGCCTTAAAGAAGTGCCTCCCAAT  
GGACCTTTTTGCCTGCTTACGGAAGATGTTACCCTGAACATGAGAGTCAGACTAAATGTA  
GGCTTTCAAGAAGACCTCATGAACACTTCTCCGCCCTCTATAGGTCTACAAGACCGAC  
TTGAAACAGCGTTCCGGAAGGGTTACGGAATTTACCAGGCTTCAAGGGCGTGACTGTG  
ACAGGGTTCAAGTCTGGAAGTGTGGTTGTGACATATGAAGTCAAGACTACACCACCATCA  
CTTGAGTTAATACATAAAGCCAATGAACAAGTTGTACAGAGCCTCAATCAGACCTACAAA  
ATGGACTACAACCTCTTCAAGCAGTTACTATCAATGAAAGCAATTTCTTTGTCACACCA  
GAAATCATCTTTGAAGGGGACACAGTCAGTCTGGTGTGTGAAAAGGAAGTTTTGTCTCC  
AATGTGTCTTGGCGCTATGAAGAACAGCAGTTGGAATCCAGAACAGCAGCAGATTCTCG  
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ACTCCAGGTGATGCAGGTGAATATGTTTGCAAAGTATGATTTAGACATTTTGAATATGAG  
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GATTCTAGCTGCAGCAGATACACCCTCAAGGCTGATGGAACCCAGTGCCCAAGCGGGTCC  
TCTGGAACAACAGTCATCTACACTTGTGAGTTCATCAGTGCCTATGGAGCCAGAGGCAGT  
GCAAACATAAAAAGTGACATTCATCTCTGTGGCCAATCTAACAATAACCCCGGACCCAATT  
TCTGTTTCTGAGGGACAAAACCTTTCTATAAAAATGCATCAGTGTGAGTAACTATGAT  
GAGGTTTATTGGAACACTTCTGCTGGAATTAATAATACCAAAGATTTTATACCAGGAGG  
AGGTATCTTGATGGAGCAGAATCAGTACTGACAGTCAAGACCTCGACCAGGGAGTGGAA  
GGAACCTATCACTGCATATTTAGATATAAGAATTCATACAGTATTGCAACCAAAGACGTC  
ATTGTTACCCGCTGCCTCTAAAGCTGAACATCATGGTTGATCCTTTGGAAGCTACTGTT
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TCATGCAGTGGTTCCCATCACATCAAGTCTGCATAGAGGAGGATGGAGACTACAAAGTT
 ACTTTCCATACGGGTTTCCTCATCCCTTCTGCTGCAAAAAGAGTTAACAAAAACAAGTG
 TGCTACAAACACAATTTCAATGCAAGCTCAGTTTCTGGTGTTCAAAACTGTTGATGTG
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 CTCTGCAAGACAGCCTGTGTGGCTGCCACCTTCTCATCCACTTCTTCTACCTCAGCGTC
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 GAAACAAGCAGGTCCACTCAGAAAGCCATTGCCTTCTGTCTTGGCTATGGCTGCCACTT
 GCCATCTCGTCACTCACGCTGGGAGCCACCCAGCCCGGGAAGTCTATACGAGGAAGAAT
 GTCTGTTGGTCAACTGGGAGGACACCAAGGCCCTGCTGGCTTTCCGCATCCCAGCACTG
 ATCATTGTGGTGGTGAACATAACCATCACTATTGTGGTCAACCAAGATCCTGAGGCCT
 TCCATTGGAGACAAGCCATGCAAGCAGGAGAAGAGCAGCCTGTTTCAGATCAGCAAGAGC
 ATTGGGGTCTCACACCACTCTTGGGCCTCACTTGGGGTTTTGGTCTCACCCTGTGTTT
 CCAGGGACCAACCTTGTGTTCCATATCATATTTGCCATCCTCAATGTCTTCCAGGGATTA
 TTCATTTTACTCTTTGGATGCCTCTGGGATCTGAAGGTACAGGAAGCTTTGCTGAATAAG
 TTTTCATTGTCGAGATGGTCTTACAGCACTCAAAGTCAACATCCCTGGGTTTATCCACA
 CCTGTGTTTTCTATGAGTCTCCAATATCAAGGAGATTTAACAATTTGTTGGTAAAACA
 GGAACGTATAATGTTTCCACCCAGAAGCAACCAGCTCATCCCTGGAAAACCTCATCCAGT
 GCTTCTTCGTTGCTCAAC

Restriction Sites:

Please inquire

ACCN:

NM_001098518

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](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001098518.1](#), [NP_001091988.1](#)

RefSeq Size: 5822 bp

RefSeq ORF: 4041 bp

Locus ID: 221395

UniProt ID: [Q8IZF2](#)

Cytogenetics: 6p12.3

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: Receptor that plays a critical role in lung surfactant homeostasis. May play a role in controlling adipocyte function.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform.