

Product datasheet for **RG202269**

ACP6 (NM_016361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACP6 (NM_016361) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACP6
Synonyms:	ACPL1; LPAP; PACPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202269 representing NM_016361 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCACTGGTGTTCAGCATGCGCTTGTGGACCCAGTGGGCGTCCTGACCTCGCTGGCGTACTGCC
TGCACCAGCGGGTGGCCCTGGCCGAGCTGCAGGAGGCCGATGGCCAGTGTCCGGTCGACCGCAGCCT
GCTGAAGTTGAAAATGGTGCAGGTCGTGTTTCGACACGGGGCTCGGAGTCTCTCAAGCCGCTCCCGCTG
GAGGAGCAGGTAGAGTGAACCCCACTATTAGAGGTCCACCCAACTCAGTTTGATTACACAGTCA
CCAATCTAGCTGGTGGTCCGAAACCATATCTCCTTACGACTCTCAATACCATGAGACCACCTGAAGGG
GGGCATGTTTGTGGCAGCTGACCAAGGTGGCATGCAGCAAATGTTTGCCTTGGGAGAGAGACTGAGG
AAGAACTATGTGGAAGACATTCCTTTCTTTCACCAACCTTCAACCCACAGGAGGTCTTTATTCGTTCCA
CTAACATTTTTCGGAATCTGGAGTCCACCCGTTGTTTGTGGTGGGCTTTTCCAGTGTCAGAAAGAAGG
ACCCATCATCATCCACTGATGAAGCAGATTCAGAAGTCTTGTATCCCAACTACCAAAGCTGCTGGAGC
CTGAGGCAGAGAACCAGAGGCCGAGGCAGACTGCCTCTTACAGCCAGGAATCTCAGAGGATTTGAAAA
AGGTGAAGGACAGGATGGCATTGACAGTAGTATAAAGTGGACTTCTTCATCCTCTGGACAACGTGGC
TGCCGAGCAGGCACACAACCTCCAAGCTGCCCATGCTGAAGAGATTTGCACGGATGATCGAACAGAGA
GCTGTGGACACATCCTTGTACATACTGCCAAGGAAGACAGGAAAGTCTTCAGATGGCAGTAGGCCCAT
TCCTCCACATCCTAGAGAGCAACCTGCTGAAAGCCATGGACTCTGCCACTGCCCCGACAAGATCAGAAA
GCTGTATCTCTATGCGGCTCATGATGTGACCTTACACCGCTCTTAATGACCCTGGGATTTTTGACCAC
AAATGGCCACCGTTTGTGTTGACCTGACCATGGAACCTTACCAGCACCTGGAATCTAAGGAGTGGTTTG
TGCAGCTCTATTACCACGAAAGGAGCAGGTGCCGAGAGGTTGCCCTGATGGGCTCTGCCCGCTGGACAT
GTTCTTGAATGCCATGTCAGTTTATACCTTAAGCCAGAAAAATACCACGCACTCTGCTCTCAAACCTCAG
GTGATGGAAGTTGAAATGAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202269 representing NM_016361
Red=Cloning site Green=Tags(s)

MITGVFSMRLWTPVGVLTSLAYCLHQRRVALAELQEADGQCPVDRSLKLLKMKVQVFRHGARSPLKPLPL
 EEQVEWNPQLLEVPQTQFDYTVTNLAGGPKPYSYDYSQYHETTLKGGMFAGQLTKVGMQMFALGERLR
 KNYVEDIPFLSPTFNPQEVFIRSTNIFRNLESTRCLLAGLFQCQKEGPIIIHTDEADSEVLYPNYQSCWS
 LRQRTGRRRQTASLQPGISEDLKKVKDRMGIDSSDKVDFIILLDNVAAEQAHNLPSCPMLKRFARMIEQR
 AVDTSLYILPKEDRESLQMAVGPFLHILESNNLLKAMDSATAPDKIRKLYLYAAHDVTFIPLLMTLGIFDH
 KWPPFAVDLTMELYQHLESKEWFVQLYHYGKEQVPRGCPDGLCPLDMFLNAMSIVYTLSPKEYHALCSQTQ
 VMEVGNNEE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_016361

ORF Size: 1284 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_016361.2](#), [NP_057445.2](#)

RefSeq Size: 1812 bp

RefSeq ORF: 1287 bp

Locus ID: 51205

UniProt ID: [Q9NPH0](#)

Cytogenetics: 1q21.2

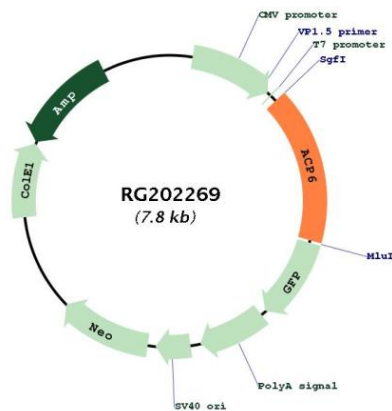
Domains: acid_phosphat

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Riboflavin metabolism

Gene Summary: This gene encodes a member of the histidine acid phosphatase protein family. The encoded protein hydrolyzes lysophosphatidic acid, which is involved in G protein-coupled receptor signaling, lipid raft modulation, and in balancing lipid composition within the cell. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2016]

Product images:



Circular map for RG202269