OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC113667

Acylglycerol Kinase (AGK) (NM_018238) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acylglycerol Kinase (AGK) (NM_018238) Human Untagged Clone
Tag:	Tag Free
Symbol:	Acylglycerol Kinase
Synonyms:	CATC5; CTRCT38; MTDPS10; MULK
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC113667 sequence for NM_018238 edited (data generated by NextGen Sequencing)

ATGACGGTGTTCTTTAAAACGCTTCGAAATCACTGGAAGAAAACTACAGCTGGGCTCTGC
CTGCTGACCTGGGGAGGCCATTGGCTCTATGGAAAACACTGTGATAACCTCCTAAGGAGA
GCAGCCTGTCAAGAAGCTCAGGTGTTTGGCAATCAACTCATTCCTCCCAATGCACAAGTG
AAGAAGGCCACTGTTTTTCTCAATCCTGCAGCTTGCAAAGGAAAAGCCAGGACTCTATTT
GAAAAAAATGCTGCCCCGATTTTACATTTATCTGGCATGGATGTGACTATTGTTAAGACA
GATTATGAGGGACAAGCCAAGAAACTCCTGGAACTGATGGAAAACACGGATGTGATCATT
GTTGCAGGAGGAGATGGGACACTGCAGGAGGTTGTTACTGGTGTTCTTCGACGAACAGAT
GAGGCTACCTTCAGTAAGATTCCCATTGGATTTATCCCACTGGGAGAGACCAGTAGTTTG
AGTCATACCCTCTTTGCCGAAAGTGGAAACAAAGTCCAACATATTACTGATGCCACACTT
GCCATTGTGAAAGGAGAGACAGTTCCACTTGATGTCTTGCAGATCAAGGGTGAAAAGGAA
CAGCCTGTATTTGCAATGACCGGCCTTCGATGGGGATCTTTCAGAGATGCTGGCGTCAAA
GTTAGCAAGTACTGGTATCTTGGGCCTCTAAAAATCAAAGCAGCCCACTTTTTCAGCACT
CTTAAGGAGTGGCCTCAGACTCATCAAGCCTCTATCTCATACACGGGACCTACAGAGAGA
CCTCCCAATGAACCAGAGGAGACCCCTGTACAAAGGCCTTCTTTGTACAGGAGAATATTA
CGAAGGCTTGCGTCCTACTGGGCACAACCACAGGATGCCCTTTCCCAAGAGGTGAGCCCG
GAGGTCTGGAAAGATGTGCAGCTGTCCACCATTGAACTGTCCATCACAACACGGAATAAT
CAGCTTGACCCGACAAGCAAAGAAGATTTTCTGAATATCTGCATTGAACCTGACACCATC
AGCAAAGGAGACTTTATAACTATAGGAAGTCGAAAGGTGAGAAACCCCAAGCTGCACGTG
GAGGGCACGGAGTGTCTCCAAGCCAGCCAGTGCACTTTGCTTATCCCGGAGGGAGCAGGG
GGCTCTTTTAGCATTGACAGTGAGGAGTATGAAGCGATGCCTGTGGAGGTGAAACTGCTC
CCCAGGAAGCTGCAGTTCTTCTGTGATCCTAGGAAGAGAGAACAGATGCTCACAAGCCCC
ACCCAGTGA

Clone variation with respect to NM_018238.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018238 unedited
AGGTGTGTATTATTAGGTTAATACGACNCACTATAGGGCGGCCGCGCAATTCGCACGAGG
GCTGGACCAGCCGTGCAAATCTCTAGAAGAGACGGTGTTCTTTAAAACGCTTCGAAATCA
CTGGAAGAAACTACAACTGGGCTCTGCCTGCTGACCTGGGGAGGCCATTGGCTCTATGGA
AAACACTGTGATAACCTCCTAAGGAGAGCAGCCTGTCAAGAAGCTCAGGTGTTTGGCAAT
CAACTCATTCCTCCCAATGCACAAGTGAAGAAGGCCACTGTTTTTCTCAATCCTGCAGCT
TGCAAAGGAAAAGCCAGGACTCTATTTGAAAAAAATGCTGCCCCGATTTTACATTTATCT
GGCATGGATGTGACTATTGTTAAGACAGATTATGAGGGACAAGCCAAGAAACTCCTGGAA
CTGATGGAAAACACGGATGTGATCATTGTTGCAGGAGGAGATGGGACACTGCAGGAGGTT
GTTACTGGTGTTCTTCGACGAACAGATGAGGCTACCTTCAGTAAGATTCCCATTGGATTT
ATCCCACTGGGAGAGACCAGTAGTTTGAGTCATACCCTCTTTGCCGAAAGTGGAAACAAA
GTCCAACATATTACTGATGCCACACTTGCCATTGTGAAAGGAGAGACAGTTCCACTTTGA
TGTCTTGCAGATCAAGGGTGAAAAGGAACAGCCTGTATTTGCAATGACCGGCCTTCGATG
GGGATCTTTCAAAGATGCTGCGTCACAGTAGAAGTACTGGTATCTTGGGCCTCTAAAATA
AAGCAGCCCACTTTTCCACACTCTTAAGGAGTGGCCTTAGATCTTAACCCCTTATCTATC
ACGGGACTACAGAGAGACCTCCCAATGACCAAAGAAAACCCTGTACAAAGCCTCTTTGTC
AAGCAGAATTTCCAAGGCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018238 unedited
TAGCTATGNACGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTCTAATAAAA
AAACTTTTAATCATCCAAAAATTAATACCGTTTTCATTATATACCAATAATTAATTACGA
TAATATTGGTTCTGGACTGAGATAACAAACAAACACTTAAAGCAAGAGCTAAAAAAAAAA
TTTCCATTTATATTTTTTGTTGACAAGAAGTAATGGGGTGAATGATTAAAAGATGTCGGG
CATAATAGATTACATTATGATAGGATTCTTGGCTGAAAAGTGGTATGGAAATACAGAAGG
AGAAAAGCCAATTTGAAATGTTTAACTACTAAAGAACTAGCTCATTTATTTTTATAAATG
AATGAAGGGTGTCAAATTGTTGGGATATTTAAATTGTACTGGATATGTTTAAAATAGTGA
TGTAACAGTTTTTATTTTAAAATACCAATATTTACACGACACCAGTAAATACATACTTTG
CCAACTATTTAACTCTCCATGAAAAATCTTATATACCAACTCACATAAAATTTTAAATAC
CAACTTACATGGGTGAGGGCATACATGCATAATATAAATACTTATGTGGGCTCATGATAA
AAACACTTTGTGAACATACCGATCATCTTCTCCTTCATCTCTTTTCATCTGAGGGACTCC
CTTCACACATTCCCCTATCGGCCCTTTCTTTCCTCCCTTTTCTCACCACCCGACCCCCCA
CCTATTCGTCATACTCCCTCCAAACGCACCGCCACTCCTCCACCCCCCACTCACTACTCT
TTATTCATTTTCCCCCCTCTCTCACCTCTTTTATTTTTTTTCGCCTCCCACCCTCACTTT
CTTCTCTTCATTTTTTATTCTTCATCTCACCTCTCACCCTCCTCTCATTACGTTTATCTA
TTTTAACTAAACCTGTATGTCCGTTCCACTCTCATTCCCTTATCCGTCCACACTCTCTTC
TCTTCAACCATTCCTCTACATC

Restriction Sites: NotI-NotI

ACCN: NM_018238

Insert Size: 2830 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_018238.2, NP_060708.1
RefSeq Size:	2794 bp
RefSeq ORF:	1269 bp
Locus ID:	55750
UniProt ID:	Q53H12
Cytogenetics:	7q34
Domains:	DAGKc
Protein Pathways:	Glycerolipid metabolism, Metabolic pathways
Gene Summary:	The protein encoded by this gene is a mitochondrial membrane protein involved in lipid and glycerolipid metabolism. The encoded protein is a lipid kinase that catalyzes the formation of phosphatidic and lysophosphatidic acids. Defects in this gene have been associated with mitochondrial DNA depletion syndrome 10. [provided by RefSeq, Feb 2012] Transcript Variant: The variant (1) represents the longer transcript and encodes the longer isoform (1).