

## Product datasheet for RC201891L3

## OriGene Technologies, Inc.

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## Acylglycerol Kinase (AGK) (NM\_018238) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Acylglycerol Kinase (AGK) (NM 018238) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Acylglycerol Kinase

Synonyms: CATC5; CTRCT38; MTDPS10; MULK

Mammalian Cell Purc

Selection:

Puromycin

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

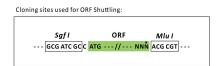
ORF Nucleotide The ORF

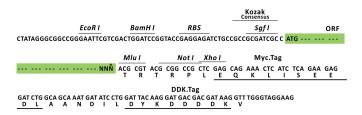
Sequence:

The ORF insert of this clone is exactly the same as(RC201891).

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_018238

ORF Size: 1266 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 <a href="mailto:customercom">customercom</a> 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. <u>More info</u>

**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:

Domains:

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:
 2925 bp

 RefSeq ORF:
 1269 bp

 Locus ID:
 55750

 UniProt ID:
 Q53H12

 Cytogenetics:
 7q34

**Protein Pathways:** Glycerolipid metabolism, Metabolic pathways

DAGKc

**MW:** 47.1 kDa

**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]