

Product datasheet for **RC209068**

DAGK (DGKQ) (NM_001347) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAGK (DGKQ) (NM_001347) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DAGK
Synonyms:	DAGK; DAGK4; DAGK7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209068 representing NM_001347
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGGCCGAGCCCGGGGCCCGCCTGGCTGGCGGGGCTCCCCGCGCCCGGACGCCGG
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Protein Sequence: >RC209068 representing NM_001347
 Red=Cloning site Green=Tags(s)

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MAAAAEPGARAWLGGGSPRPGSPACSLVLGSSGRARPGPGGPERAGVVRAPGPAAPGHFSFRKVTLTK
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AAVGPGRRETQATPESGKQTLKIFDGD DAVRRSQFRLVTVSRLAGAEVLEAALRAHHIPEDPGHLELCRL
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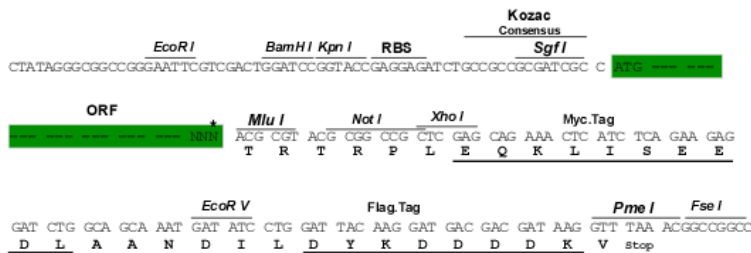
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3268_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



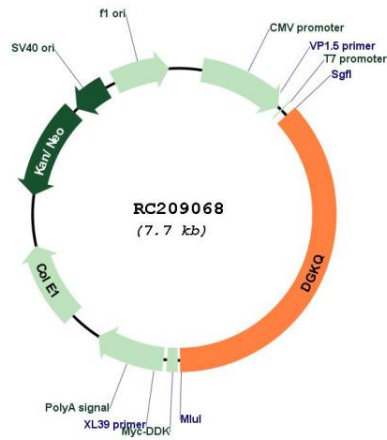
* The last codon before the Stop codon of the ORF

ACCN: NM_001347

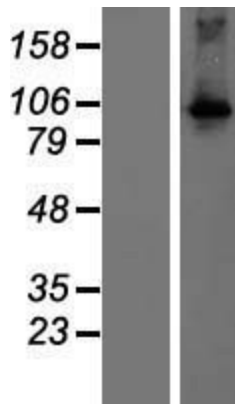
ORF Size: 2826 bp

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:	<ol style="list-style-type: none">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_001347.4
RefSeq Size:	4653 bp
RefSeq ORF:	2829 bp
Locus ID:	1609
UniProt ID:	P52824
Cytogenetics:	4p16.3
Domains:	RA, DAGKa, DAGKc, DAG_PE-bind
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	101 kDa
Gene Summary:	The protein encoded by this gene contains three cysteine-rich domains, a proline-rich region, and a pleckstrin homology domain with an overlapping Ras-associating domain. It is localized in the speckle domains of the nucleus, and mediates the regeneration of phosphatidylinositol (PI) from diacylglycerol in the PI-cycle during cell signal transduction. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC209068



Western blot validation of overexpression lysate (Cat# [LY419993]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209068 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).