

Product datasheet for **RC202965**

ADPGK (NM_031284) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADPGK (NM_031284) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADPGK
Synonyms:	2610017G09Rik; ADP-GK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202965 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCTGTGGCGGGCTCCGCGTACGCGGGCTTCTGGCGCTGGCCGTGGGCTGCGTCTTCTGTCTGG
 AGCCAGAGCTGCCAGGCTCGGCGCTGCGTCTCTCTGGAGCTCGCTGTGTCTGGGCCCCGCGCTGCGCC
 CCCGGGACCCGCTCTCCCCGAGGGCCGGTTGGCGGCAGCCTGGGACGCGTTATCGTGCGGCCAGTCCGG
 CGCTGGCGCCGCGTGGCAGTGGGAGTCAATGCATGTGTTGATGTGGTGTCTCAGGGGTGAAGCTTTGC
 AGGCACCTGGCCTTAGTCTGGGAATGGGAAAGATCACAGCATTCTGCATTCAAGGAATGATCTGGAAGA
 AGCCTTCATTCATTCATGGGGAAGGGAGCAGTGTCTGAGCGCTTCTCAGTGATAAGGAAACTTTTAC
 GACATTGCCAGGTTGCGTCAGAGTTCCAGGAGCCAGCACTATGTAGGAGGAAATGCAGCTTTAATTG
 GACAGAAATTTGCAGCCAACTCAGATTTAAAGGTTCTTCTTTGCGGTCCAGTTGGTCCAAAGCTACATGA
 GCTTCTTGATGACAATGTCTTTGTCCACCAGAGTCATTGCAGGAAGTGGATGAGTTCACCTCATTTTA
 GAGTATCAAGCAGGGGAGGAGTGGGGCCAGTAAAAGCTCCCCATGCCAACCGATTATCTTCTCTCAGC
 ACCTCTCCAACGGGGCCATGAATATGCTGGAGGTGTTTGTGTCTAGCCTGGAGGAGTTTCAGCCAGACCT
 GGTGGTCTCTCTGGATTGCACATGATGGAGGGACAAAGCAAGGAGCTCCAGAGGAAGAGACTCTTGGAG
 GTTGTAACCTCCATTTCTGACATCCCCACTGGTATTCCAGTTCACCTAGAGCTGGCCAGTATGACTAACA
 GGGAGCTCATGAGCAGCATTGTCATCAGCAGGCTTTCCCGCGGTGACTTCCCTTGGGCTGAATGAACA
 GGAGCTGTTATTTCTACCCAGTCAGCCTCTGGACCTCACTTCTCTCTTCTTCTTCTTCTTCTTCTTCT
 GATGTGGGCATGGTCAGTGACATCTCTTCTGGATCTTAAAGAACATGGGAGGAGTAAAAGCAGAGCCT
 CGGATCTCACCAGGATCCATTTCCACAGCTGGTCTACCACATCTGGCAACTGTGGATGGACACTGGGC
 CAACCAGCTGGCAGCCGTGGCTGCAGGAGCTCGTGTGGCTGGGACACAGGCTGCCGCACAGAAACCATA
 GACACCAGCCGAGTGTCTCTGAGGGCACCCAAAGATTGACTTCCATTCCGAGGCAGGCTCCAGGA
 TTGTATTAACCCAAACAAGCCAGTAGTAGAATGGCACAGAGAGGGAATATCCTTCCACTTCACACCAGT
 ATTGGTGTGTAAGACCCATTGCAACTGTAGGCCTTGGAGATGCCATTCAGCCGAAGGACTCTTCTAT
 TCGGAAGTACACCCTCACTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202965 protein sequence
 Red=Cloning site Green=Tags(s)

MALWRGSAYAGFLALAVGCVFLLEPELPGSALRSLWSSLCLGPAPAPPGVPVSPEGRLLAAAWDALIVRPVR
 RWRRVAVGVNACVDVVL SGVKLLQALGLSPGNKDHSLHSRNDLEEF IHFMGKAAAERFFSDKETFH
 DIAQVASEFPGAQHYVGGNAALIGQKFAANSCLKVLLCGPVGPKLHELLDDNVFVPPESLQEVDEFHLIL
 EYQAGEEWGQLKAPHANRFIFSHDL SNGAMNMLEVFVSSLEEFQPDLVVLSGLHMMEGQSKELQRKRLLE
 VVTSISDIPTGIPVHLELASMTNRELMSSIVHQQVFPVAVTSLGLNEQELLFLTQSASGPHSSLSSWNGVP
 DVMVSDILFWILKEHGRSKSRASDLTRIFHTLVYHILATVDGHWANQLAAVAAGARVAGTQACATETI
 DTSRVSLRAPQEFMTSHSEAGSRIVLNPKNPVEVHREGISFHFTPVLVCKDPIRTVGLGDAISAEGLFY
 SEVHPHY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6206_d12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_031284

ORF Size: 1491 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_031284.5](#)

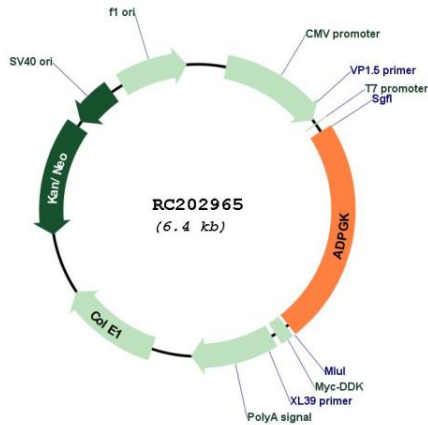
RefSeq Size: 2565 bp

RefSeq ORF: 1491 bp

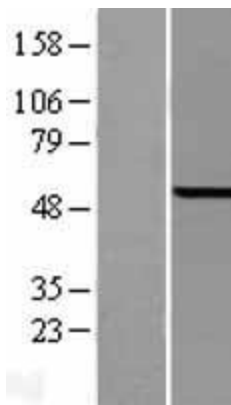
Locus ID: 83440

UniProt ID: [Q9BRR6](#)
Cytogenetics: 15q24.1
Domains: ADP_PFK_GK
MW: 54.1 kDa
Gene Summary: ADPGK (EC 2.7.1.147) catalyzes the ADP-dependent phosphorylation of glucose to glucose-6-phosphate and may play a role in glycolysis, possibly during ischemic conditions (Ronimus and Morgan, 2004 [PubMed 14975750]).[supplied by OMIM, Mar 2008]

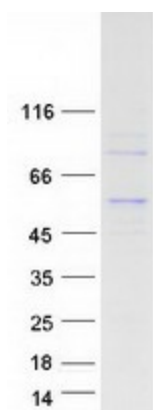
Product images:



Circular map for RC202965



Western blot validation of overexpression lysate (Cat# [LY410576]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202965 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ADPGK protein (Cat# [TP302965]). The protein was produced from HEK293T cells transfected with ADPGK cDNA clone (Cat# RC202965) using MegaTran 2.0 (Cat# [TT210002]).