

Product datasheet for **MR207965**

Adpgk (NM_028121) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adpgk (NM_028121) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adpgk
Synonyms:	2610017G09Rik; Adp-gk; C77577
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207965 representing NM_028121
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCTGTGGCGGGCTCTGCGTGCGCCGGTCTCTGGCGCTGGCCGTGGGCTGCGTGTCTCTGCTGG
 AGCCGGAGCTGCCGGGCACGGCGCTGCGCTCGCTCTGGAGCTCCCTGAGGCTGGGACCCGCGCCAGTGCC
 CGTGGGACCTCTGTCCCGGAGAGCCGGCTGGCAGCCGCTTGGGACGCCCTCATCGCGCAGCCCGCCCGG
 CGCTGGCGCCGCGTGGCTGTGGGAGTCAACGCCTGTGTGGATGTGGTAATCTCTGGCGTAAACTCTGCG
 AGGCCCTCGGCCCTCAGTCTGGGAGTGGAAAAGATCATGCTATTCTACACTCGAGAAGTGATCTGGAAGA
 AGCCTTCTCTACTTCATGGGGAAGGGAGCCGCTGCTGAGCGCTTCTCAGTGATAAAGAGACCTTTCAT
 GACATTGCCAGGCTGCATCTGAGTTCCAGGAGCTCAGCATTATGTAGGAGGAAATGCTGCTTTAATTG
 GACAGAGGTTTGCTGCCAACACAGACTAAAGGTTCTTCTTTGGTCCAATTGGCCAAAACCTGCATGA
 ACTTCTTGATGACAATGTGTTTGTCCACCAGAGTCACTGCAGGAAGAGGATGAGTTCACCTTATTTTA
 GAGTACCTGGCAGGGGAGGAGTGGGGCCGTTTAAAGCTCCCATGCCAACCGCTTCATCTTCTCTCAGG
 ACCTCTCCAACGGGGCCATGAATATGCTGGAGGTGTTTGTGTCTAGCCTGGAGGATTCACGCTGACCT
 GGTGGTCTTTCTGGATTGCACATGATGGAGGGACAAAGCAAGGAGCTCCAGAGGAAGAGGCTCTTGGAG
 GTTGTGACCGCCATTTCTGACATCCCCACTGGTATTCCAGTTCACCTAGAGCTGGCCAGTATGACCAACA
 GGGAGCTCATGAGCAGTATTGTGCATCAGCAGGCTTTCCACGGTGGCTTCTCTGGGCTGAATGAACA
 GGAGCTGCTGTTTCTCAGCCAGTCGGCATCTGGACCCATGCTTCTCTCTCTCTCTCTCTCTCTCTCTCT
 GATGTGGGCATGGTCAGTGACATCTCTCTGGATCTTGAAGAACATGGAAGGAGTGAACACAGAGCCT
 CGGATCTCACCAGGATCCATTTCCACACGCTGGTCTACCACATTCTGGCAACTGTGGACGGACACTGGGC
 CAACCAGCTCGCAGCCGTAGCTGCGGGAGCTCGTGTAGCTGGGACACAAGCCTGTGCCACAGAAACCATA
 GACACCAACCGAGTGTCTCTAAGAGCACCTCAGGAGTTTACGACATCCCATTGGAAATCCGGTTCAGGA
 TTGATTGAACCCAGATAAGCCAGTGGTGGAGTGGCACAGGGAGGGAATAACTTTCCACTTCACACCTGT
 GTTGGTGTGTAAGACCCCGTTGCAACTGTAGGCCTTGGTGTGATGCCATTTCCGCTGAAGGCTCTTCTAT
 TCAGAAGCACGCCCTGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207965 representing NM_028121
 Red=Cloning site Green=Tags(s)

MALWRGSACAGFLALAVGCVFLLEPELPGTALRSLWSSLRLGPAPVPVGPPLSPESRLAAAWDALIAQPAR
 RWRRVAVGVNACVDVVISGVKLLQALGLSPGSGKDHAHLHSRSDLEEAFLYFMGKAAAERFFSDKETFH
 DIAQAASEFPGAQHYVVGNAALIGQRF AANTDLKVL LCGPIGPKLHELLDDNVFVPPESLQEEDEFHLIL
 EYLAGEEWGPFKAPHANRFIFSHDLSNGAMNMLEVFVSSLEEFQPDLVVLSGLHMMEGQSKELQRKRLLE
 VVTAISDIPTGIPVHLELASMTNRELMSSIVHQQVFPTVASLGLNEQELLFLSQSASGPHASLSSWDGVP
 DVMVSDILFWILKEHGRSENRASDLTRIFHTLVYHILATVDGHWANQLAAVAAGARVAGTQACATETI
 DTNRVSLRAPQEF TTSHLESGSRIVLNPDKPVVEWHREGITFHFTPVLVCKDPVRTVGLGDAISAEGLFY
 SEARPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9046_d07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_028121

ORF Size: 1488 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_028121.2](#), [NP_082397.1](#)

RefSeq Size: 2499 bp

RefSeq ORF: 1491 bp

Locus ID: 72141

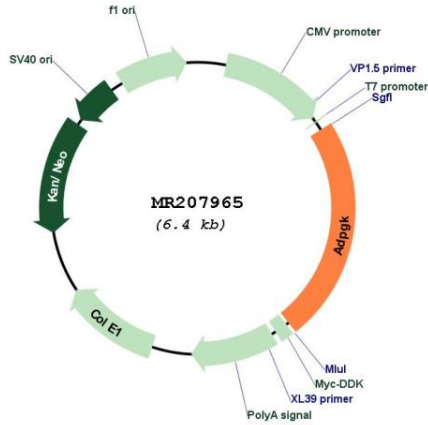
UniProt ID: [Q8VDL4](#)

Cytogenetics: 9 B

MW: 54.4 kDa

Gene Summary: Catalyzes the phosphorylation of D-glucose to D-glucose 6-phosphate using ADP as the phosphate donor. GDP and CDP can replace ADP, but with reduced efficiency. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207965