

## Product datasheet for **MG207965**

### Adpgk (NM\_028121) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adpgk (NM_028121) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adpgk
Synonyms:	2610017G09Rik; Adp-gk; C77577
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG207965 representing NM\_028121  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCTGTGGCGCGGCTCTGCGTGCGCCGGTCTCTGGCGCTGGCCGTGGGCTGCGTGTCTCTGCTGG  
 AGCCGGAGCTGCCGGGCACGGCGCTGCGCTCGCTCTGGAGCTCCCTGAGGCTGGGACCCGCGCCAGTGCC  
 CGTGGGACCTCTGTCCCGGAGAGCCGGCTGGCAGCCGCTTGGGACGCCCTCATCGCGCAGCCCGCCCGG  
 CGCTGGCGCCGCGTGGCTGTGGGAGTCAACGCCTGTGTGGATGTGGTAATCTCTGGCGTAAACTCCTGC  
 AGGCCCTCGGCCTCAGTCTGGGAGTGGAAAAGATCATGCTATTCTACACTCGAGAAGTGATCTGGAAGA  
 AGCCTTCTCTACTTTCATGGGGAAGGGAGCCGCTGCTGAGCGCTTCTCAGTGATAAAGAGACCTTTCAT  
 GACATTGCCAGGCTGCATCTGAGTTTCCAGGAGCTCAGCACTATGTAGGAGGAAATGCTGCTTTAATTG  
 GACAGAGGTTTGGCCCAACACAGACTTAAAGGTTCTTCTTTGGTCCAATTGGCCAAAACCTGCATGA  
 ACTTCTTGATGACAATGTGTTTGTCCACCAGAGTCACTGCAGGAAGAGGATGAGTTCACCTTATTTTA  
 GAGTACCTGGCAGGGGAGGAGTGGGGCCGTTTAAAGCTCCCATGCCAACCGCTTCATCTTCTCTCAGG  
 ACCTCTCCAACGGGGCCATGAATATGCTGGAGGTGTTTGTGTCTAGCCTGGAGGATTCACGCTGACCT  
 GGTGGTCTTTCTGGATTGCACATGATGGAGGGACAAAGCAAGGAGCTCCAGAGGAAGAGGCTCTTGGAG  
 GTTGTGACCGCCATTTCTGACATCCCCACTGGTATTCCAGTTCACCTAGAGCTGGCCAGTATGACCAACA  
 GGGAGCTCATGAGCAGTATTGTGCATCAGGCTTTCCCGCGTGGCTTCTCTGGGCTGAATGAACAGGA  
 GCTGCTGTTTCTCAGCCAGTCCGATCTGGACCCATTCTCTCTCTCCTCCTGGGATGGTGTTCCTGAT  
 GTGGGCATGGTCAGTGACATCCTCTTCTGGATCTTAAAGAACATGGAAGGAGTAAAACAGATCCTCGG  
 ATCTCACAGGATCCATTTCCACACGCTGGTCTACCACATTCTGGCAACTGTGGACGACACTGGGCCAA  
 CCAGCTCGCAGCCGTAGCTGCGGGAGCTCGTGTAGCTGGGACACAAGCCTGTGCCACAGAAACCATAGAC  
 ACCAACCGAGTGTCTCTAAGAGCACCTCAGGAGTTTACGACATCCCATTGGAATCCGGTTCAGGATTG  
 TATTGAACCCAGATAAGCCAGTGGTGAATGGCACAGGGAGGGAATAACTTTCCACTTCACACCTGTGTT  
 GGTGTGTAAGACCCCGTTTGAAGTGTAGGCTTGGTGTGCCATTTCCGCTGAAGGCCTCTTCTATTCA  
 GAAGCACGCCCTGAT

**ACGCGTACGCGGCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207965 representing NM\_028121  
 Red=Cloning site Green=Tags(s)

MALWRGSACAGFLALAVGCVFLLEPELPGTALRSLWSSLRLGPAPVPVGPLSPESRLAAAWDALIAQPAR  
 RWRRVAVGVNACVDVVISGVKLLQALGLSPGSGKDHALHSRSDLEEAFLYFMGKAAAERFFSDKETFH  
 DIAQAASEFPGAQHVVGGNAALIGQRFAANTDLKVLKCGPIGPKLHELLDDNVFVPPESLQEEDEFHLIL  
 EYLAGEEWGPFKAPHANRFIFSHDL SNGAMNMLEVFVSSLEEFQPDLVVLSGLHMEGQSKELQRKRLLE  
 VVTAISDIPTGIPVHLELASMTNRELMSSIVHQVFPVAVSLGLNEQELFLSQSASGPHSSLSSWDGVPD  
 VGMVSDILFWILKEHGRSENSSDLTRIFHTLVYHILATVDGHWANQLAAVAAGARVAGTQACATETID  
 TNRVSLRAPQEF TTSHLESRSRIVLNPKPVVEWHREGITFHFTPVLVCKDPVRTVGLGDAISAEGLFYS  
 EARPD

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**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

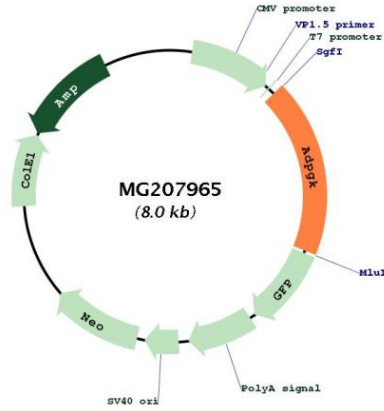
**UniProt ID:** [Q8VDL4](#)

**Cytogenetics:** 9 B

**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 MG207965