

## Product datasheet for **MR204934**

### Gapdh (NM\_008084) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gapdh (NM_008084) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gapdh
Synonyms:	Ga; Gapd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204934 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGAAGGTCGGTGTGAACGGATTTGGCCGTATTGGGCGCCTGGTCACCAGGGCTGCCATCTGCAGTG  
GCAAAGTGGAGATTGTTGCCATCAACGACCCCTTCATTGACCTCAACTACATGGTCTACATGTTCCAGTA  
TGACTCCACCCACGGCAAATTCACGGCACAGTCAAGGCCGAGAATGGGAAGCTTGTCATCAACGGGAAG  
CCCATCACGATTTCCAGGAGCGAGACCCCACTAACATCAAATGGGGTGAGGCCGGTCTGAGTATGTCCG  
TGGAGTCTACTGGTGTCTTACCACCATGGAGAAGGCCGGGCCCACTTGAAGGGTGGAGCCAAAAGGGT  
CATCATCTCCGCCCTTCTGCCGATGCCCCATGTTTGTGATGGGTGTGAACCACGAGAAATATGACAAC  
TCACTCAAGATTGTCAGCAATGCATCCTGCACCACCAACTGCTTAGCCCCCTGGCCAAGGTCATCCATG  
ACAACCTTTGGCATTGTGGAAGGGCTCATGACCACAGTCCATGCCATCACTGCCACCCAGAAGACTGTGGA  
TGGCCCTCTGGAAAGCTGTGGCGTGATGGTCGTGGGGCTGCCCAGAACATCATCCCTGCATCCACTGGT  
GCTGCCAAGGCTGTGGCAAGGTCATCCAGAGCTGAACGGGAAGCTCACTGGCATGGCCTTCCGTGTTCC  
CTACCCCAATGTGTCCGTCGTGGATCTGACGTGCCGCTGGAGAAACCTGCCAAGTATGATGACATCAA  
GAAGGTGGTGAAGCAGGCATCTGAGGGCCCACTGAAGGGCATCTTGGGCTACACTGAGGACCAGGTTGTC  
TCCTGCGACTTCAACAGCAACTCCCACTTCCACCTTCGATGCCGGGGCTGGCATTGCTCTCAATGACA  
ACTTTGTCAAGCTCATTTCCTGGTATGACAATGAATACGGCTACAGCAACAGGGTGGTGGACCTCATGGC  
CTACATGGCCTCCAAGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204934 protein sequence  
 Red=Cloning site Green=Tags(s)

MVKVGVNGFGRIGRLVTRAAICSGKVEIVAINDPFIDLNYMVYMFQYDSTHGKFNGLVKAENGLVINGK  
 PITIFQERDPTNIKWGEAGA EYVVESTGVFTTMEKAGAHKGGAKRVII SAPSADAPMFVMGVNHEKYDN  
 SLKIVSNASCTTNCLAPLAKVIHDNFGIVEGLMTTVHAI TATQKTVDGPSGKLWRDGRGAAQNIIPASTG  
 AAKAVGKVIPELNGKLTGMAFRVPTPNVSVVDLTCRLEKPAKYDDIKKVVKQASEGPLKGILGYTEDQVV  
 SCDFNNSHSSSTFDAGAGIALNDNFVKLISWYDNEYGYSNRVV DLMAYMASKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_008084

**ORF Size:** 999 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\\_008084.1](#), [NM\\_008084.2](#), [NM\\_008084.3](#), [NP\\_032110.1](#)

**RefSeq Size:** 1444 bp

**RefSeq ORF:** 1002 bp

**Locus ID:** 14433

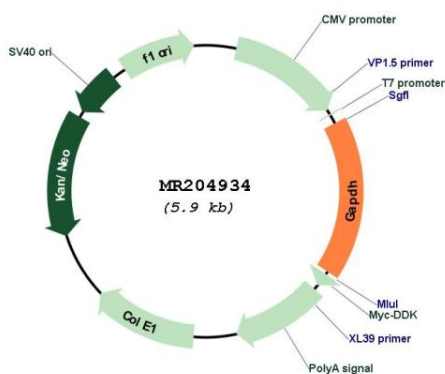
**UniProt ID:** [P16858](#)

**Cytogenetics:** 6 59.32 cM

**MW:** 35.8 kDa

**Gene Summary:** This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The encoded protein was originally identified as a key glycolytic enzyme that converts D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate. Subsequent studies have assigned a variety of additional functions to the protein including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophage. Alternative splicing results in multiple transcript variants. Many pseudogenes similar to this locus are found throughout the mouse genome. [provided by RefSeq, Jan 2014]

## Product images:



Circular map for MR204934