

Product datasheet for **MC207283**

Gapdh (NM_008084) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gapdh (NM_008084) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gapdh
Synonyms:	Ga; Gapd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207283 representing NM_008084 Red=Cloning site Blue=ORF

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGTGAAGGTCGGTGTGAACGGATTTGGCCGTATTGGGCGCCTGGTCACCAGGGCTGCCATCTGCAGTG
GCAAAGTGGAGATTGTTGCCATCAACGACCCCTTCATTGACCTCAACTACATGGTCTACATGTTCCAGTA
TGACTCCACCCACGGCAAATTCACGGCACAGTCAAGGCCGAGAATGGGAAGCTTGTCATCAACGGGAAG
CCCATCACGATTTTCCAGGAGCGAGACCCCACTAACATCAAATGGGGTGAGGCCGGTCTGAGTATGTCTG
TGGAGTCTACTGGTGTCTTACCACCATGGAGAAGGCCGGGGCCCACTTGAAGGGTGGAGCCAAAAGGGT
CATCATCTCCGCCCTTCTGCCGATGCCCCCATGTTTGTGATGGGTGTGAACCACGAGAAATATGACAAC
TCACTCAAGATTGTCAGCAATGCATCCTGCACCACCAACTGCTTAGCCCCCTGGCCAAGGTCATCCATG
ACAACTTTGGCATTGTGGAAGGGCTCATGACCACAGTCCATGCCATCACTGCCACCCAGAAGACTGTGGA
TGGCCCTCTGGAAGCTGTGGCGTGATGGTCGTGGGGCTGCCCAGAACATCATCCCTGCATCCACTGGT
GCTGCCAAGGCTGTGGCAAGGTCATCCAGAGCTGAACGGGAAGCTCACTGGCATGGCCTTCCGTGTTCT
CTACCCCAATGTGTCCGTCGTGGATCTGACGTGCCGCTGGAGAAACCTGCCAAGTATGATGACATCAA
GAAGGTGGTGAAGCAGGCATCTGAGGGCCCACTGAAGGGCATCTTGGGCTACACTGAGGACCAGGTTGTC
TCCTGCGACTTCAACAGCAACTCCCACTCTCCACCTTCGATGCCGGGGCTGGCATTGCTCTCAATGACA
ACTTTGTCAAGCTCATTTCCTGGTATGACAATGAATACGGCTACAGCAACAGGGTGGTGGACCTCATGGC
CTACATGGCCTCCAAGGAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_008084
Insert Size:	1002 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC092294</u> , <u>AAH92294</u>
RefSeq Size:	1280 bp
RefSeq ORF:	1002 bp
Locus ID:	14433
UniProt ID:	<u>P16858</u>
Cytogenetics:	6 59.32 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and uses a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1.</p>