

Product datasheet for **RR206447**

Gapdh (NM_017008) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gapdh (NM_017008) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gapdh
Synonyms:	BARS-38; Gapd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR206447 representing NM_017008 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAAGGTCGGTGTGAACGGATTTGGCCGTATCGGACGCCTGGTTACCAGGGCTGCCTTCTCTTGTG
ACAAAGTGGACATTGTTGCCATCAACGACCCCTTCATTGACCTCAACTACATGGTCTACATGTTCCAGTA
TGACTCTACCCACGGCAAGTTCAACGGCACAGTCAAGGCTGAGAATGGGAAGCTGGTCATCAACGGGAAA
CCCATCACCATCTCCAGGAGCGAGATCCCGCTAACATCAAATGGGGTGATGCTGGTCTGAGTATGTCCG
TGGAGTCTACTGGCGTCTCACCACCATGGAGAAGGCTGGGGCTCACCTGAAGGGTGGGGCCAAAAGGGT
CATCATCTCCGCCCTTCGCTGATGCCCCATGTTTGTGATGGGTGTGAACCACGAGAAATATGACAAC
TCCTCAAGATTGTCAGCAATGCATCCTGCACCACCAACTGCTTAGCCCCCTGGCCAAGGTCATCCATG
ACAACCTTTGGCATCGTGGAAAGGCTCATGACCACAGTCCATGCCATCACTGCCACTCAGAAGACTGTGGA
TGGCCCTCTGGAAAGCTGTGGCGTGTGGCCGTGGGGCAGCCAGAACATCATCCCTGCATCCACTGGT
GCTGCCAAGGCTGTGGCAAGGTCATCCAGAGCTGAACGGGAAGCTCACTGGCATGGCCTTCCGTGTC
CTACCCCAATGTATCCGTTGTGGATCTGACATGCCGCTGGAGAAACCTGCCAAGTATGATGACATCAA
GAAGGTGGTGAAGCAGGCGGCCGAGGGCCCACTAAAGGGCATCCTGGGCTACACTGAGGACCAGGTTGTC
TCCTGTGACTTCAACAGCAACTCCATTCTCCACCTTTGATGCTGGGGCTGGCATTGCTCTCAATGACA
ACTTTGTGAAGCTCATTTCCTGGTATGACAATGAATATGGCTACAGCAACAGGGTGGTGGACCTCATGGC
CTACATGGCCTCCAAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206447 representing NM_017008
Red=Cloning site Green=Tags(s)

MVKVGVNGFGRIGRLVTRAAFSCDKVDIVAINDPFIDLNYMVMFYDSTHGKFNKTVKAENGLVINGK
 PITIFQERDPANIKWGDAGA EYVVESTGVFTTMEKAGAHKGGAKRVIIISAPSADAPMFVMGVNHEKYDN
 SLKIVSNASCTTNCLAPLAKVIHDNFGIVEGLMTTVHAIATATQKTVDGSPGKLWRDGRGAAQNIIPASTG
 AAKAVGKVIPELNGKLTGMAFRVPTPNVSVVDLTCRLEKPAKYDDIKKVVQAAEGPLKGI LGYTEDQVV
 SCDFNNSHSSTFDAGAGIALNDNFVKLISWYDNEYGYSNRVV DLMAYMASKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKVK

Chromatograms: https://cdn.origene.com/chromatograms/ja2614_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017008

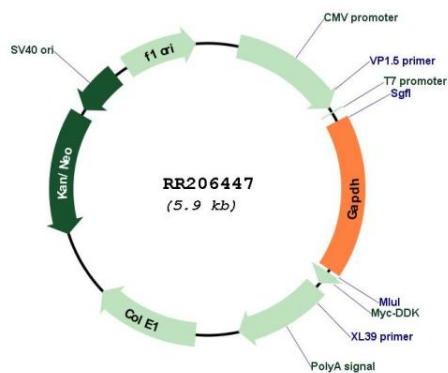
ORF Size: 999 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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.
RefSeq:	NM_017008.4 , NP_058704.1
RefSeq Size:	1307 bp
RefSeq ORF:	1002 bp
Locus ID:	24383
UniProt ID:	P04797
Cytogenetics:	4q42
MW:	36.3 kDa
Gene Summary:	<p>This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. A similar protein in human and mouse 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 in human and mouse have assigned a variety of additional functions to the protein including nitrosylation of nuclear proteins. Many pseudogenes similar to this locus are found throughout the rat genome. [provided by RefSeq, Jan 2014]</p>

Product images:



Circular map for RR206447