

Product datasheet for **RR204205**

Gpd1 (NM_022215) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpd1 (NM_022215) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpd1
Synonyms:	Gpd3; GPDH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204205 representing NM_022215 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCTGGCAAGAAAGTCTGCATCGTAGGCTCCGGCAACTGGGGCTCAGCCATTGCCAAGATCGTGGGTA
GTAATGCCAGCCAACTGGCACACTTTGATCCACGGGTGACCATGTGGGTGTTTGAGGAAGACATCGGGG
CAGAAAGTTAACTGAGATCATCAACACGCAACACGAGAATGTGAAATACCTGCCGGGCACAAGCTGCC
CCTAATGTGGTGGCTGTCCAGATGTCGTCAGGCTGCAACAGGTGCTGACATCCTGGTTTTTGTGGTAC
CCCATCAGTTTATTGGCAAGATCTGTGACCAGCTCAAGGGCCACTTAAAAGCCAATACTATTGGCATATC
TCTTATTAAGGGGATAGACGAGGGCCCCAATGGACTGAACTCATCTCTGAAAGTATTGGGGAGAGCCTT
GGCATCCCTATGAGCGTGCTGATGGGGCCAACATTGCCAGTGAGGTGGCTGAAGAGAAGTTCTGTGAGA
CGACCATGGCTGCAAGGACCCTGCTCAGGGACAGCTCCTGAAGGAGCTGATGCAAACACCAACTCCG
CATCACCGTGGTACAAGAGGTGGACACAGTGGAGATCTGTGGGCCTTGAAGAATATAGTGGCTGTTGGG
GCTGGCTTCTGTGACGGGCTTGGCTTCGGTGACAACACCAAGGCGCAGTGATCCGGCTGGGGCTCATGG
AGATGATCGCCTTCGCAAGCTTCTGCAGTGGCTCTGTGTCCTCCGCCACCTTCTGGAGAGCTGTGG
GGTCGCTGACCTCATCACGACCTGCTACGGGGGCGGAACCGCAAGGTGGCAGAGGCCTTCGCTCGCACC
GGAAAGTCCATTGAGCAGCTGGAGAAAAGAGATGCTGAACGGGCAGAAAGCTACAGGGGCCAGACAGCCC
GGGAGCTGCACAGCATCCTCCAACACAAGGGCCTCGTGGACAAGTTTCCCTTGTTACCAGCGGTGTACAA
AGTGTGCTATGAGGGCCAGCCAGTGGGTGAGTTTCTGCTGCCTGCAGAACCCAGAGCACATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204205 representing NM_022215
 Red=Cloning site Green=Tags(s)

MAGKKVCIVGSGNWGSAIAKIVGSNASQLAHFDPVRTMWWFEEDIGGRKLTEIINTQHENVKYLPGHKLP
 PNVVAVPDVVQAATGADILVFVPHQFIGKICDQLKGLKANTIGISLIKIDEGPNGLKLI SEVIGESL
 GIPMSVLMGANIASEVAEEKFCETTIGCKDPAQGQLLKELMQTNPFRITVVQEVDTVEICGALKNIVAVG
 AGFCDGLGFGDNTKAAVIRLGLMEMIAFAKLFCSGSVSSATFLESCGVADLITTCYGGRNRKVAEAFART
 GKSI EQLEKEMLNGQKLQGPQTARELHSILQHKGLVDKFPFLFTAVYKVCYEGQPVGFEICCLQNHPEHM

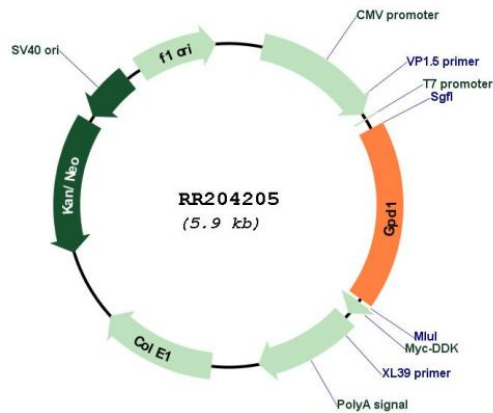
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022215
ORF Size: 1047 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:	<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_022215.2 , NP_071551.2
RefSeq Size:	2848 bp
RefSeq ORF:	1050 bp
Locus ID:	60666
UniProt ID:	O35077
Cytogenetics:	7q36
MW:	37.5 kDa
Gene Summary:	a mitochondrial glycerol 3-phosphate dehydrogenase active in testis [RGD, Feb 2006]