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Product datasheet for RR214691

Gpam (NM_017274) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpam (NM_017274) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpam
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RR214691 representing NM_017274
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGTCTTCAGTGACAATTGGCACAATAGACGTTTCTTATCTGCCCAATTCATCAGAATACAGCC
TTGGCCGATGTAAACACACGAATGAGGACTGGGTTGACTGTGGCTTCAAACCTACCTTCTTCAGATCCGC
AACGCTGAAATGGAAGGAGAGCCTCATGAGCCGGAAGAGGCCCTTCGTGGGAAGGTGTTGCTATTCATGC
ACGCCTCAGAGCTGGGAAAGGTTTTTCAACCCCAGTATCCCATCTCTGGGTTTGCGGAATGTTATTTATA
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GCGCGATGTCCACAAGGGCATGTTTGCCACCAGTATCACTGACAATGTACTGAATAGCAGCAGAGTCCAA
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TCGACTACCTGCTGCTCACCTTCATCCTCTTCTGCCACAACATCAAAGCTCCATACATCGCCTCGGGCAA
CAACCTCAACATCCCCATCTTCAGTACCTTGATTCACAAGCTTGGGGGCTTTTTCATAAGACGGAGGCTT
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TCCGACAGCAGCAGTTCCTGGAGATCTTCCTGGAAGGCACCCGCTCCCGCAGTGGCAAGACCTCCTGTGC
CCGGGCCGGGCTCCTGTCAGTGGTAGTGGATACTCTGTCATCCAACACCATCCCTGACATCCTGGTCATC
CCTGTGGGCATCTCGTATGATCGGATAATCGAAGGTCACTACAATGGTGAACAGTTGGGCAAGCCCAAGA
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CAACCTGATCAGCCAGGAGCAGCTGGTGCGGAAGGCCGCCAGCCTGTGCTACCTTCTCTCTAATGAAGGT
ACCATTTCTCTGCCCTGCCAGACATTTTACCAGGTTTGTCAAGAGACAGTAGGAAAGTTCATCCAGTACG
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AGACCAAGCAGAAGCGAGCGTCTGTCTTAGAACTGAGCACCACTTTCCTACCTCAGGGCAGCCGGCAGAA
GCTCCTGGAATACATTCTGAGCTTCGTGGTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214691 representing NM_017274
Red=Cloning site Green=Tags(s)

MEESSVTIGTIDVSYLPNSSEYSLGRCKHTNEDWVDCGFKPTFFRSATLKWKESLMSRKRPFVGRCCYSC
TPQSWERFFNPSIPSLGLRNVIYINETHTRHRGWLARRLSYILFVQERDVHKGMFATSITDNVLNSSRVQ
EAIAEVAAELNPDGSAQQQSKAIQKVKRKARKILQEMVATVSPGMIRLTGWVLLKLFNSFFWNIQIHKGQ
LEMVKAATETNLPLLFLPVHRSHIDYLLLTFILFCHNIKAPYIASGNNLNIPIFSTLIHKLGGFFIRRRL
DETPDGRKDILYRALLHGHIVELLRQQQFLEIFLEGTRSRSGKTSCARAGLLSVVVDTLSSNTIPDILVI
PVGISYDRIIEGHYNGEQLGKPKKNESLWSVARGVIRMLRKNYGYVRVDFAQPFSLKEYLEGQSQKPVSA
PLSLEQALLPAILPSRPDAAAAEHEDMSSNESRNAADEAFRRRLIANLAEHILFTASKSCAIMSTHIVAC
LLLYRHRQGIHLSTLVEDFFVMKEEVLARDFDLGFSGNSEDVVMHAIQLLGNCVTITHTSRKDEFFITPS
TTVPSVFELNFYSNGVLHVFIMEAIIACSIYAVQNKRGSGGSAGGLGNLISQEQLVRKAASLCYLLSNEG
TISLPCQTFYQVCQETVGKFIQYGILTVAEQDDQEDVSPGLAEQQWNKKLPEPLNWRSDEEDEDSDFGEE
QRDCYLKVSQAKEHQQFITFLQRLLGPLLEAYSSAAIFVHTFRGPVPESEYLQKLHRYLLTRTERNVAVY
AESATYCLVKNAVKMFKDIGVFKETKQKRASVLELSTTFLPQGSRQKLLEYILSFVVL

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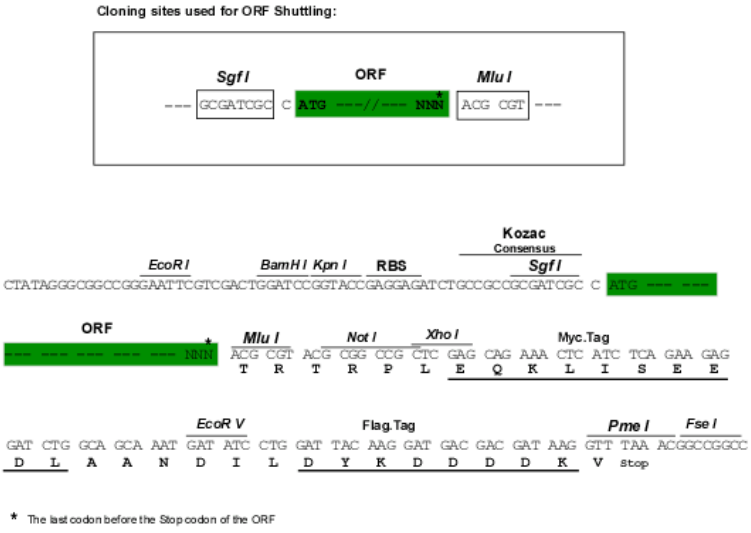
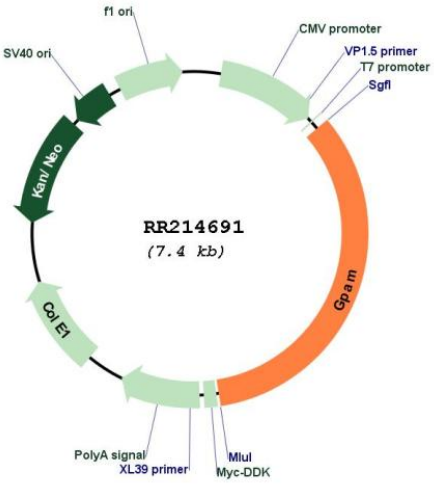
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_017274
ORF Size:	2484 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_017274.1, NP_058970.1
RefSeq Size:	2646 bp
RefSeq ORF:	2487 bp
Locus ID:	29653
UniProt ID:	P97564
Cytogenetics:	1q55

MW:	93.7 kDa
Gene Summary:	mitochondrial glycerol-phosphate acyltransferase enzyme; regulated by phosphorylation [RGD, Feb 2006]