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Product datasheet for MR206593

Pgk1 (NM_008828) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgk1 (NM_008828) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pgk1
Synonyms:	Pgk-; Pgk-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206593 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGCTTTCCAACAAGCTGACTTTGGACAAGCTGGACGTGAAGGGGAAGCGGGTCGTGATGAGGGTGG
ACTTCAACGTTCCTATGAAGAACAACCAGATAACAAACAACCAAAGGATCAAGGCTGCTGTTCCAAGCAT
CAAATTCTGCTTGGACAATGGAGCCAAGTCCGTTGTCCTTATGAGCCACCTGGGCCGGCCTGATGGTGTT
CCCATGCCTGACAAGTACTCCTTAGAGCCAGTTGCTGCTGAACTCAAATCTCTGCTGGGCAAGGATGTTC
TGTTCTTGAAGGATTGTGTGGGCCCAGAAGTCGAGAATGCCTGTGCCAACCCAGCGGCTGGGACTGTCAT
CCTGCTGGAAAACCTCCGCTTTCATGTAGAGGAAGAAGGGAAGGGAAAAGATGCTTCTGGAAACAAGGTT
AAAGCTGAGCCGGCCAAAATTGATGCTTTCCGAGCCTCACTGTCCAAACTAGGAGATGTCTATGTCAATG
ATGCTTTTGGGACTGCACACCGAGCCCATAGCTCCATGGTGGGTGTGAATCTGCCACAGAAGGCTGGTGG
ATTTTTGATGAAGAAGGAGCTGAACTACTTTGCCAAGGCTTTGGAGAGTCCAGAGCGACCCTTCCTGGCT
ATCTTGGGAGGCGCTAAAGTTGCAGACAAGATCCAGCTGATCAATAATATGCTAGACAAAGTCAATGAGA
TGATCATTGGTGGTGGAATGGCCTTTACCTTCCTTAAGGTGCTCAACAACATGGAGATTGGCACATCTCT
GTATGATGAAGAAGGAGCCAAGATTGTCAAAGATCTCATGTCCAAAGCTGAGAAAAATGGTGTGAAGATT
ACCTTGCCTGTTGACTTTGTCACTGCTGACAAATTTGATGAGAATGCCAAGACTGGCCAAGCTACTGTGG
CCTCTGGTATACCTGCTGGCTGGATGGGCTTGGACTGTGGTACTGAGAGCAGCAAGAAATATGCCGAGGC
TGTGGGTCGAGCTAAGCAGATTGTTTGGAATGGTCCTGTTGGGGTATTTGAATGGGAAGCCTTTGCCAGG
GGAACCAAGTCACTCATGGATGAGGTGGTGAAAGCCACTTCTAGGGGTTGCATCACTATCATAGGTGGTG
GAGACACTGCCACTTGCTGTGCCAAATGGAACACAGAGGATAAAGTCAGCCATGTGAGCACTGGGGGCGG
TGCCAGTCTAGAGCTCCTGGAAGGTAAAGTCCTTCCTGGGGTGGATGCTCTCAGCAATGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

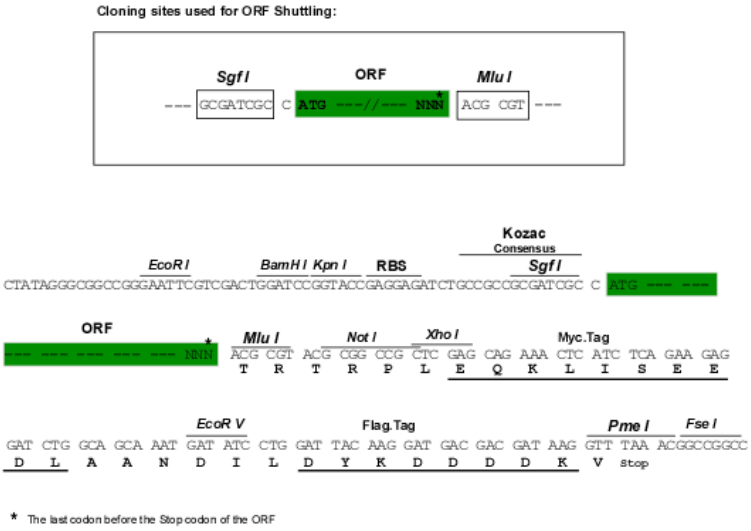
>MR206593 protein sequence
Red=Cloning site Green=Tags(s)

MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMSHLGRPDGV
PMPDKYSLEPVAAELKSLLGKDVLFLKDCVGPEVENACANPAAGTVILLENLRFHVEEEGKGKDASGNKV
KAEPAKIDAFRASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPERPFLA
ILGGAKVADKIQLINNMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLYDEEGAKIVKDLMSKAEKNGVKI
TLPVDFVTADKFDENAKTGQATVASGIPAGWMGLDCGTESSKKYAEAVGRAKQIVWNGPVGVFEWEAFAR
GTKSLMDEVVKATSRGCITIIGGGDTATCCAKWNTEDKVSHVSTGGGASLELLEGKVLPGVDALSNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008828

ORF Size: 1254 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_008828.3, NP_032854.2

RefSeq Size: 1840 bp

RefSeq ORF: 1254 bp

Locus ID: 18655

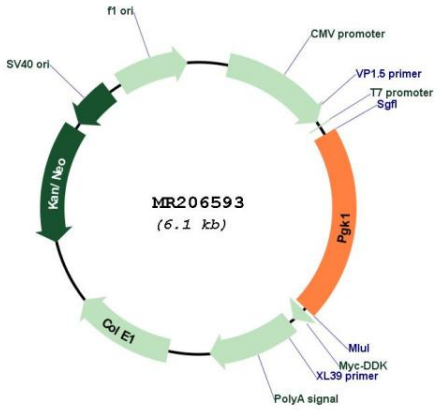
UniProt ID: P09411

Cytogenetics: X 47.36 cM

MW: 44.6 kDa

Gene Summary: The protein encoded by this gene is a glycolytic enzyme that catalyzes the conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate. Additionally, this protein is secreted by tumor cells where it participates in angiogenesis by functioning to reduce disulfide bonds in the serine protease, plasmin, which consequently leads to the release of the tumor blood vessel inhibitor angiostatin. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Many pseudogenes of this gene are found throughout the mouse genome. [provided by RefSeq, Jan 2014]

Product images:



Circular map for MR206593