

Product datasheet for **MG206611**

Pgk1 (BC083355) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgk1 (BC083355) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pgk1
Synonyms:	Pgk-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206611 representing BC083355 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCTTTCCAACAAGCTGACTTTGGACAAGCTGGACGTGAAGGGGAAGCGGGTCTGATGAGGGTGG
ACTTCAACGTTTCTATGAAGAACAACCAGATAACAACAACCAAGGATCAAGGCTGCTGTTCCAAGCAT
CAAATTCTGCTTGGACAATGGAGCCAAGTCCGTTGTCCTATGAGCCACCTGGGCCGGCCTGATGGTGT
CCCATGCCTGACAAGTACTCCTTAGAGCCAGTTGCTGCTGAACCTCAAATCTCTGCTGGGCAAGGATGTC
TGTTCTTGAAGGATTGTGTGGGCCAGAAGTCGAGAATGCCTGTGCCAACCCAGCGGCTGGGACTGTCAT
CCTGCTGGAAAACCTCCGCTTTCATGTAGAGGAAGAAGGGAAAGGAAAAGATGCTTCTGGAACAAGGTT
AAAGCTGAGCCGGCCAAAATTGATGCTTTCCGAGCCTCACTGTCCAAACTAGGAGATGTCTATGTCAATG
ATGCTTTTGGGACTGCACACCGAGCCATAGCTCCATGGTGGGTGTGAATCTGCCACAGAAGGCTGGTGG
ATTTTTGATGAAGAAGGAGCTGAACTACTTTGCCAAGGCTTTGGAGAGTCCAGAGCGACCCTTCTGGCT
ATCTTGGGAGGCGCTAAAGTTGCAGACAAGATCCAGCTGATCAATAATATGCTAGACAAAGTCAATGAGA
TGATCATTGGTGGTGAATGGCCTTACCTTCCCTAAGGTGCTCAACAACATGGAGATTGGCACATCTCT
GTATGATGAAGAAGGAGCCAAGATTGTCAAAGATCTCATGTCCAAAGCTGAGAAAAATGGTGTGAAGATT
ACCTTGCCTGTTGACTTTGCTACTGCTGACAAATTTGATGAGAATGCCAAGACTGGCCAAGCTACTGTGG
CCTCTGGTATACCTGCTGGCTGGATGGGCTTGGACTGTGGTACTGAGAGCAGCAAGAAAATATGCCGAGGC
TGTGGGTCGAGCTAAGCAGATTGTTGGAATGGTCTGTTGGGGTATTTGAATGGGAAGCCTTTGCCAGG
GGAACCAAGTCACTCATGGATGAGGTGGTAAAAGCCACTTCTAGGGGTTGCATCACTATCATAGGTGGT
GAGACTGCCACTTGTGTGCCAAATGGAACACAGAGGATAAAGTCAGCCATGTGAGCACTGGGGCGG
TGCCAGCTAGAGCTCCTGGAAGTAAAGTCCTTCTGGGGTGGATGCTCTCAGCAATGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206611 representing BC083355
 Red=Cloning site Green=Tags(s)

MSLSNKL TLDKLDVKGKRVV MRVDFNVP MKNQITNNQR IKA AVPSIKFCLDNGAKSVV LMSHLGRPDGV
 PMPDKYSLEPVA AELK SLLGKDVLF LKDCVGP EVENACANPAAGTVILLENLRFHV EEEGKGDASGNKV
 KAEPKIDAFRASLSKLGDVYVND AFGTAHRAHSSMVG VNL P QKAGGFLMKKELNYFAK ALESERPFLA
 ILGGAKVADKIQL INNMLDKVNEMI IGGMAFTFLKVLNNME IGTSLYDEEGAKIVKDLMSKA EKNGVKI
 TLPVDFVTADKFDENAKT GQATVASGIPAGW MGLDCGTESSK KYAEAVGRAKQIVWNGPVG VFEWAFAR
 GTKSLMDEVVKATSRGCIT IIGGGDTATCCA KWNTEDK VSHVSTGGGASLELLE GKVLPGVDALSNV

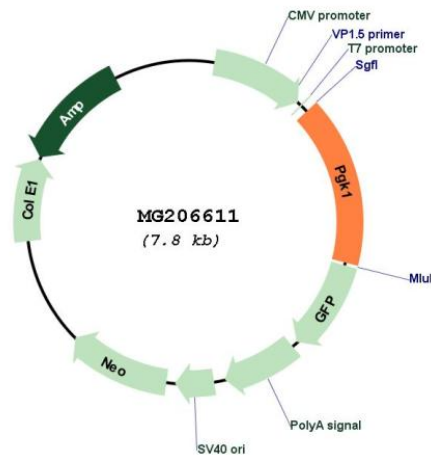
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC083355

ORF Size:	1251 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:	BC083355.1
RefSeq Size:	1727 bp
RefSeq ORF:	1253 bp
Locus ID:	18655
Cytogenetics:	X 47.36 cM
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]