

Product datasheet for **MR206604**

Pgk2 (NM_031190) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pgk2 (NM_031190) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pgk2
Synonyms:	Pgk-2; Tcp-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206604 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTTTCTGCTAAGTTGACTCTGGACAAAGTGGATCTTAAGGGAAAAAGAGTAATCATGAGAGTAG
ACTTCAACGTTCCCATGAAGAATAACCAAATTACAAACAACCAGAGAATCAAGGCTGCCATCCCAAGTAT
CAAGCACTGTCTGGACAATGGAGCCAAGTCCGTAGTTCTCATGAGTCACCTCGGTCGGCCTGATGGTATC
CCTATGCCAGACAAGTATTCATTAGAGCCTGTTGCTGATGAGCTCAAGTCCCTGCTGAACAAGGACGTCA
TATTCTTGAAGGACTGTGTGGCCCTGAAGTAGAGCAAGCCTGTGCCAACCCAGATAATGGGTCTATCAT
CCTGCTGGAGAACCTGCGCTTCCATGTGGAGGAAGAAGGTAAGGGTAAAGATTCTTCTGGAAAAAGATT
AGTGCTGACCCTGCTAAAGTAGAAGCCTTCCAAGCATCACTGTCTAAACTTGGCGATGTCTATGTCAACG
ATGCATTTGGCACTGCACATCGGGCTCACAGTTCTACGGTCCGAGTAAATTTGCCCCAGAAGGCATCTGG
TTTCCTTATGAAGAAGGAACTGGATTATTTTTCCAAGGCTTTAGAAAAGCCAGAGAGGCCCTTCTGGCT
ATCCTTGGTGGAGCCAAAGTGAAGACAAGATCCAACCTCATAAAAAATGTTAGACAAAGTCAATTTCA
TGATTATTGGTGGTGAATGGCTTACACCTTCTGAAAGAACTCAAGAACATGCAGATTGGTGCTTCCTT
GTTTGATGAAGAGGGAGCCACGATTGTTAAAGAGATCATGGAAAAAGCAGAAAAGAAATGGTGAAGATA
GTTTTTCTGTTGACTTTGTTACTGGTGACAAGTTTGATGAAATGCTAAAGTTGGACAAGCCACTATAG
AATCTGGTATACCATCTGGTTGGATGGGCTTGGACTGTGGCCCTGAGAGCATAAAATCAATGCTCAAAT
TGTGGCCCAAGCAAAGCTGATAGTTTGGAAATGGACCTATTGGGGTATTTGAATGGGATGCCTTTGCTAAA
GGAACCAAAGCTCTCATGGATGAAGTTGTAAGGCCACCTCCAATGGCTGTGCACCATTATAGGAGGCG
GAGATACTGCTACTTGTGCGCCAAATGGGGCACTGAAGACAAGGTGAGCCATGTGAGCACAGGAGGTGG
GGCAAGTCTTGAGCTTCTGGAAGGTAATAATCCTTCCAGGGGTAGAGGCCCTCAGCAACATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206604 protein sequence
 Red=Cloning site Green=Tags(s)

MALSAKLTLDKVDLKGKRVIMRVDFNVPKNNQITNNQRIKAAIPSIKHCLDNGAKSVVLMShLGRPDGI
 PMPDKYSLEPVADELKSLLNKDVIFLKDVCVGEVEQACANPDNGSIILLENLRFHVEEKGKGDSSGKKI
 SADPAKVEAFQASLSKLDVYVNDAFGTAHRAHSSTVGVNLPQKASGLMKKELDYFSKALEKPERPFLA
 ILGGAKVKDKIQLIKNMLDKVNFMIIGGMAYTFLLKELKNMQIGASLFDEEGATIVKEIMEKAENGVKI
 VFPVDFVTGDKFDENAKVGQATIESGIPSGWMGLDCGPESIKINAQIVAQAKLIVWNGPIGVFEWDAFAK
 GTKALMDEVVKATSNGCVTIIGGGDTATCCAkwGTEDKvSHVSTGGGASLELLEGGKILPGVEALSNM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_031190

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_031190.2](#), [NP_112467.2](#)

RefSeq Size: 1592 bp

RefSeq ORF: 1254 bp

Locus ID: 18663

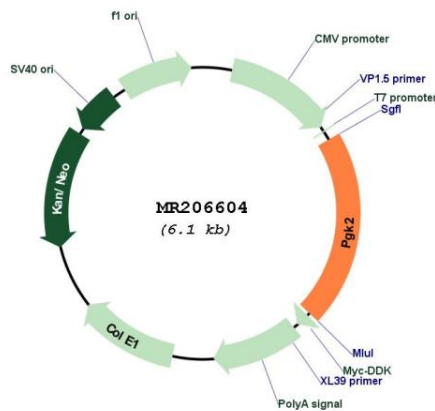
UniProt ID: [P09041](#)

Cytogenetics: 17 19.44 cM

MW: 44.9 kDa

Gene Summary: Essential for sperm motility and male fertility but is not required for the completion of spermatogenesis (PubMed:19759366).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206604