

Product datasheet for **SC211796**

PGK1 (NM_000291) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	PGK1 (NM_000291) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	PGK1
Synonyms:	HEL-S-68p; MIG10; PGKA
ACCN:	NM_000291
Insert Size:	2000 bp



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Insert Sequence: >SC211796 3'UTR clone of NM_000291
 The sequence shown below is from the reference sequence of NM_000291. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCTGGGGTGGATGCTCTCAGCAATATTAGTACTTTCTGCCTTTTAGTTCTGTGCACAGCCCTAAG
TCAACTTAGCATTCTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGTCAAGATTAGCTAGTG
GCCAAGAGATGCAGTGCCAGGAACCCCTAAACAGTTGCACAGCATCTCAGCTCATCTTCACTGCACCCT
GGATTTGCATACATTCTCAAGATCCCATTGAAATTTTTAGTGACTAAACCATTGTGCATTCTAGAGT
GCATATATTTATATTTGCCTGTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTTTTGTAGTAGG
TTATTATGATTAGCTTTGCTACTGTTTCTACTCAGCATGGAACAAGATGAAATTCATTGTAGGT
AGTGAGACAAAATTGATGATCCATTAAGTAAACAATAAAAGTGCCATTGAAACCGTGATTTTTTTTT
TTTCTGTACTACTTTGTTAGGAAGGGTGAGAATAGAATCTTGAGGAACGGATCAGATGTCTATATTGC
TGAATGCAAGAAGTGGGGCAGCAGCAGTGGAGAGATGGGACAATTAGATAAATGTCCATTCTTTATCAA
GGGCTACTTTATGGCAGACATTGTGCTAGTGCTTTTATTCTAACTTTTATTTTATCAGTTACACATG
ATCATAATTTAAAAAGTCAAGGCTTATAACAAAAAGCCCGCCATTCTCCCATTCAGATTCCCA
CTCCCCAGAGGTGACCCTTTCAACTCTTGAGTTTTTCAGGTATATACCTCCATGTTTCTAAGTAATAT
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TGTTCCACATATATTTCACTTCTTCTCTCGGTATAGTTTTGTGACAATATAGATTAGATCAAAA
AGTCTACATAACTAATACAGCTGAGCTATGTAGTATGCTATGATTAATTTACTTATGTAACCTTTTATT
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GTCCTTAGTGCTCCTTTATCCAATTTGACTTGATGCCCTCTAGGCAGGGTGTACAGCTAGCTGTTGCT
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CCCCTTTTCCCTCTTCTTGGTCTACTTTTTGTAGAACAAGACTCTACTAGCTTCTGAGAAAGGGT
GCCTGGGAGGCAAAATCTAAGACTTTGTAAGTCTGAAAATGTCTTTATTCGACCCTTATACTTGATT
CCTAGTTTGGCTATATAGAAATTTAGCCTGAGTATCACTTTTTGAGACTCGAAGCCACTGTTTCATT
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CCACAGAGCTAGTAAGTAACAGCAGGGATTCAAGTCCAGGTTTGTCTGGTTCCAGTGCGTGATGCTTTT
CCAATGTGCCCTCCGTCCTGACATGATGCTTCTAGGCTATAGATGCTTCTAGACTCTATCCCTGACATG
ATGCTTCTAGACTATTTTGTAAACCCTGGATAGAATAGCAAAAGAAAATTTTGGTGGTTGCTCTAAAC
AAAACAGAAATTTGAAAGCTCAAGTTTTTCTTCAATTTGTATTTTAGTTAATACTGTACCCATATTTG
ACGCGT AAGCGGCCGCGGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_000291.4](#)

Summary:

The protein encoded by this gene is a glycolytic enzyme that catalyzes the conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate. The encoded protein may also act as a cofactor for polymerase alpha. 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. Deficiency of the enzyme is associated with a wide range of clinical phenotypes hemolytic anemia and neurological impairment. Pseudogenes of this gene have been defined on chromosomes 19, 21 and the X chromosome. [provided by RefSeq, Jan 2014]

Locus ID:

5230

MW:

77