

Product datasheet for **RC218774**

Phosphoglucomutase 5 (PGM5) (NM_021965) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Phosphoglucomutase 5 (PGM5) (NM_021965) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Phosphoglucomutase 5 |
| Synonyms: | PGMRP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC218774 representing NM_021965
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGGGGAGCCCCATCCCGGTGCTGACAGTGCCACCAGCGCCCTACGAGGACCAGCGCCGGCCGGCC
 GCGGGGGTCTGCGGCGACCCACCGGCTCTTCGAGGGCCAGCGCAACTACCTGCCAACTTTATCCAGAG
 CGTGCTGTCGTCATCGACCTGCGCGACCGTCAGGGCTGCACCATGGTGGTGGGAGCGACGCGCAGGTAC
 TTTAGCAGGACGGCCATCGAGATCGTGGTGCAGATGGCCGCGCCAACGGGATTGGACGACTGATTATTG
 GACAGAATGGCATCTTGTGACACCTGCGGTCTCCTGCATTATCAGGAAGATCAAGGCAGCTGGTGAAT
 CATTCTAACAGCCAGCCACTGCCCTGGAGGACCAGGGGGAGATTTGGAGTGAAGTTTAAATGTTGCCAAT
 GGAGGCTCTGCACCCGATGTTGTCTCAGACAAAATCTACCAAATCAGCAAAACGATTGAGGAATATGCTA
 TATGTCCTGATCTCCGAATCGACCTATCTCGACTAGGAAGACAAGAATTTGACCTAGAAAACAAATTCAA
 ACCATTACAGAGTGGAGATAGTGGACCCAGTGGATATCTATCTTAACCTCCTTCGGACCATCTTTGACTTT
 CATGCCATCAAGGGTTTGTCTGACTGGACCCAGCCAAGTGAAGATTTCGATTGACGCAATGCACGGAGTTA
 TGGGACCTTATGTGAGAAAAGTTCTGTGTGATGAGCTGGGGGCCCCAGCCAATTCGCAATAAACTGTGT
 TCCCTGGAAGACTTTGGAGGGCAGCACCTGACCCAACTGACATATGCAACGACTCTTCTGGAAGCA
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 AAGAAACAGGGCCTAAGGATCATTTTCTCGGATGCATCACGGCTCATCTCCGGCTCAGTTCCTCCAGTG
 GTGTGCGGGCCACCCTCAGACTGTACGCAGAGAGCTACGAGAGGGATCCCAGCGCCATGACCAGGAGCC
 ACAGGCAGTGTGAGCCCTCTCATAGCCATCGCACTGAAAATATCCAGATTATGAGAGAACTGGCCGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218774 representing NM_021965
 Red=Cloning site Green=Tags(s)

MEGSPVPLVPTAPYEDQRPAGGGGLRRPTGLFEGQRNYLPNFIQSVLSSIDLDRDQGCTMVVGS DGRY
 FSRTAIEIVVQMAAANGIGRLIIGQNGILSTPAVSCIIRKIKAAAGGIILTASHCPGGPGGEFVGFNVAN
 GGPAPDVVSDKIYQISKTEIEEYAI CPDLRIDLSRLGRQEFDLNFKPFRVEIVDPVDIYLNLLRTIFDF
 HAIKGLLTGPSQLKIRIDAMHGVMGPYVRKVLCDL GAPANSA INCVPLEDFGGQHPDPNLT YATTLLEA
 MKGGEYGFGAAFDADGDRYMILGQNGFFVSPSDSLAIIAANL SCIPYFRQMGVRFGRSMPTSMALDRVA
 KSMKVPVYETPAGWRFFSNLMDSGRCNLGEE SFGTGS DHLREKDG LWAVL VWLSIIAARKQSV EIVRD
 HWAKFGRHYCRYFDYEGLDPKTTYIMRDLEALVTDKSF IGQQFAV GSHVYSVAKTDSFEYVDPVDGTVT
 KKQGLRIIFSDASRLIFRLSSSSGVRATRLRYAESYERDPSGHDQEPQAVLSPLIAIALKISQIHERTGR
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Chromatograms:

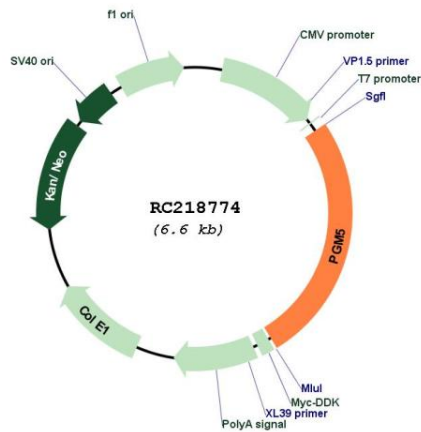
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Restriction Sites:

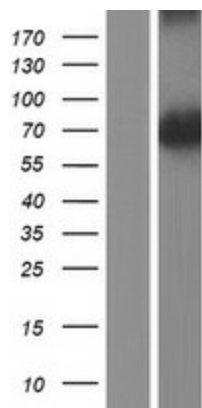
Sgfl-Mlul

| | |
|-------------------|---|
| RefSeq: | NM_021965.4 |
| RefSeq Size: | 3341 bp |
| RefSeq ORF: | 1704 bp |
| Locus ID: | 5239 |
| UniProt ID: | Q15124 |
| Cytogenetics: | 9q21.11 |
| Protein Families: | Druggable Genome |
| MW: | 62 kDa |
| Gene Summary: | Phosphoglucosmutases (EC 5.2.2.2.), such as PGM5, are phosphotransferases involved in interconversion of glucose-1-phosphate and glucose-6-phosphate. PGM activity is essential in formation of carbohydrates from glucose-6-phosphate and in formation of glucose-6-phosphate from galactose and glycogen (Edwards et al., 1995 [PubMed 8586438]).[supplied by OMIM, Mar 2008] |

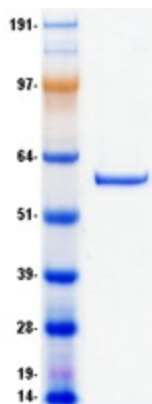
Product images:



Circular map for RC218774



Western blot validation of overexpression lysate (Cat# [LY411850]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218774 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PGM5 protein (Cat# [TP318774]). The protein was produced from HEK293T cells transfected with PGM5 cDNA clone (Cat# RC218774) using MegaTran 2.0 (Cat# [TT210002]).