PGM2 cDNA Clone – Phosphoglucomutase 2 (Human)

PRODUCT OVERVIEW

Product Name	PGM2, cDNA Clone
Full Product Name	PGM2 cDNA Clone
Product Gene Name	PGM2 cdna clone
Sequence	atggcggctc cagaaggcag cggtctagac gaggacgccc ggctggacca ggagaccgcc cagtggctgc gctgggacaa gaattcctta actttggagg cagtgaaacg actaatagca gaaggtaata aagaagaact acgaaaatgt tttggggccc gaatggagtt tgggacagct ggcctccgag ctgctatggg acctggaatt tctcgtatga atgacttgac catcatccag actacacagg gattttgcag atacctggaa aaacaattca gtgacttaaa gcagaaaggc atcgtgatca gttttgacgc ccgagctcat ccatccagtg ggggtagcag cagaaggttt gcccgacttg ctgcaaccac atttatcagt caggggattc ctgtgtacct cttttctgat ataacgccaa ccccctttgt gcccttcaca gtatcacatt tgaaactttg tgctggaatc atgataactg catctcacaa tccaaagcag gataatggtt ataaggtcta ttgggataat ggagctcaga tcatttctcc tcacgataaa gggatttctc aagctattga agaaaatcta gaaccgtggc ctcaagcttg ggacgattct ttaattgata gcagtccact tctccacaat ccgagtgctt ccatcaataa tgactacttt gaagacctta aaaagtactg tttccacagg agcgtgaaca gggagacaaa ggtgaagttt gtgcacacct ctgtccatgg ggtgggtcat agctttgtgc agtcagcttt caaggctttt gaccttgttc ctcctgaggc tgttcctgaa cagaaagatc cggatcctga gtttccaaca gtgaaatacc cgaatcccga agaggggaaa ggtgtcttga ctttgtcttt tgctttggct gacaaaacca aggccagaat tgttttagct aacgacccgg atgctgatag acttgctgtg gcagaaaagc aagacagtgg tgaatggagg gtgttttcag gcaatgagtt gggggccctc ctgggctggt ggctttttac atcttggaaa gagaagaacc aggatcgcag tgctctcaaa gacacgtaca tgttgtccag caccgtctcc tccaaaatct tgcgggccat tgccttaaag gaaggttttc attttgagga aacattaact ggctttaagt ggatgggaaa cagagccaaa cagctaatag accaggggaa aactgtttta tttgcatttg aagaagctat tggatacatg tgctgccctt ttgttctgga caaagatgga gtcagtgccg ctgtcataag tgcagagttg gctagcttcc tagcaaccaa gaatttgtct ttgtctcagc aactaaaggc catttatgtg gagtatggct accatattac taaagcttcc tattttatct gccatgatca agaaaccatt aagaaattat ttgaaaacct cagaaactac gatggaaaaa ataattatcc aaaagcttgt ggcaaatttg aaatttctgc cattagggac cttacaactg gctatgatga tagccaacct gataaaaaag ctgttcttcc cactagtaaa agcagccaaa tgatcacctt caccttgct aatggaggcg tggccaccat gcgcaccagt gggacagagc ccaaaatcaa gtactatgca gagctgtgtg ccccacctgg gaacagtgat cctgagcagc tgaagaagga actgaatgaa ctggtcagtg ctattgaaga acatttttc cagccacaga agtacaatct gcagccaaaa gcagactaa
Molecular Weight	32,724 Da
OMIM	172000
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PGM2 cdna clone	MBS1270973 is a cDNA clone targeting PGM2.
Other Notes	Small volumes of PGM2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PGM2. It may not necessarily be applicable to this product.

NCBI GI #	40225732
NCBI GeneID	55276
NCBI Accession #	BC010087
UniProt Secondary Accession #	Q53FP5; Q5QTR0; Q9H0P9; Q9NV22; B4E0G8
UniProt Related Accession #	Q96G03
NCBI Official Full Name	Homo sapiens phosphoglucomutase 2, mRNA

NCBI Official Synonym Full Names	phosphoglucomutase 2
NCBI Official Symbol	PGM2
NCBI Official Synonym Symbols	MSTP006
UniProt Protein Name	Phosphoglucomutase-2
UniProt Synonym Protein Names	Glucose phosphomutase 2; Phosphodeoxyribomutase; Phosphopentomutase (EC:5.4.2.7)
Protein Family	Phosphoglucomutase
UniProt Gene Name	PGM2
UniProt Synonym Gene Names	PGM 2
UniProt Entry Name	PGM2_HUMAN
NCBI Protein Information	phosphoglucomutase-2
UniProt Comments for PGM2	PGM2: Catalyzes the conversion of the nucleoside breakdown products ribose-1-phosphate and deoxyribose-1-phosphate to the corresponding 5-phosphopentoses. May also catalyze the interconversion of glucose-1-phosphate and glucose-6-phosphate. Has low glucose 1,6-bisphosphate synthase activity. Belongs to the phosphohexose mutase family. Protein type: Isomerase; Carbohydrate Metabolism - starch and sucrose; Carbohydrate Metabolism - pentose phosphate pathway; EC 5.4.2.7; Carbohydrate Metabolism - galactose; Carbohydrate Metabolism - glycolysis and gluconeogenesis; Carbohydrate Metabolism - amino sugar and nucleotide sugar; EC 5.4.2.2 Chromosomal Location of Human Ortholog: 4p14 Cellular Component: cytosol Molecular Function: phosphoglucomutase activity; phosphopentomutase activity; protein binding Biological Process: galactose catabolic process; glycogen biosynthetic process; glycogen catabolic process; pentose-phosphate shunt
Research Articles on PGM2	**1.** In the present work, phosphopentomutase was purified from human erythrocytes and found it to copurify with a 68-kDa polypeptide that was identified by mass spectrometry as PGM2, sharing about 20% identity with mammalian phosphoglucomutase 1.
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