

Product datasheet for **SC328587**

PGM1 (NM_001172819) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGM1 (NM_001172819) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGM1
Synonyms:	CDG1T; GSD14
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001172819, the custom clone sequence may differ by one or more nucleotides ATGCTGAGAAGCATCTTTGATTTTCAGTGCCTGAAAGAACTACTTTCTGGCCAAACCGA CTGAAGATCCGTATTGATGCTATGCATGGAGTTGTGGACCGTATGTAAAGAAGATCCTC TGTGAAGAAGCTCGGTGCCCTGCGAACTCGGCAGTTAACTGCGTTCCTCTGGAGGACTTT GGAGGCCACCACCTGACCCCAACCTCACCTATGCAGCTGACCTGGTGGAGACCATGAAG TCAGGAGAGCATGATTTTGGGGCTGCCTTTGATGGAGATGGGGATCGAAACATGATTCTG GGCAAGCATGGTTCCTTTGTGAACCTTCAGACTCTGTGGCTGTCATTGCTGCCAACATC TTCAGCATTCCGTATTTCCAGCAGACTGGGGTCCGCGGCTTGCACGGAGCATGCCACG AGTGGTGTCTGGACCGGTGGCTAGTGCTACAAAGATTGCTTTGTATGAGACCCCAACT GGCTGGAAGTTTTTGGGAATTTGATGGACGCGAGCAAAGTGTCCCTTTGTGGGAGGAG AGCTTCGGGACCGTTCTGACCACATCCGTGAGAAAGATGGACTGTGGCTGTCCTTGCC TGGCTCTCCATCCTAGCCACCCGCAAGCAGAGTGTGGAGGACATTCTCAAAGATCATTGG CAAAGTATGGCCGGAATTTCTTACCAGGTATGATTACGAGGAGGTGGAAGCTGAGGGC GCAAACAAAATGATGAAGGACTTGGAGGCCCTGATGTTTATCGCTCCTTTGTGGGGAAG CAGTTCTCAGCAAATGACAAAGTTTACTGTGGAGAAGGCCGATAACTTTGAATACAGC GACCCAGTGGATGGAAGCATTTCAAGAAATCAGGGCTTGCCTCATTTCACAGATGGT TCTCGAATCGTCTCCGACTGAGCGGCACTGGGAGTCCGGGGCCACCATTCCGGTGTAC ATCGATAGCTATGAGAAGGACGTTGCCAAGATTAACCAGGACCCCAAGGTCATGTTGGCC CCCCTTATTTCCATTGCTGAAAAGTGTCCAGCTGCAGGAGAGGACGGGACGCCTGCA CCCCTGTCATCACCTAA
Restriction Sites:	Please inquire
ACCN:	NM_001172819



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001172819.1</u> , <u>NP_001166290.1</u>
RefSeq Size:	2364 bp
RefSeq ORF:	1098 bp
Locus ID:	5236
UniProt ID:	<u>P36871</u>
Cytogenetics:	1p31.3
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway, Starch and sucrose metabolism
Gene Summary:	<p>The protein encoded by this gene is an isozyme of phosphoglucomutase (PGM) and belongs to the phosphohexose mutase family. There are several PGM isozymes, which are encoded by different genes and catalyze the transfer of phosphate between the 1 and 6 positions of glucose. In most cell types, this PGM isozyme is predominant, representing about 90% of total PGM activity. In red cells, PGM2 is a major isozyme. This gene is highly polymorphic. Mutations in this gene cause glycogen storage disease type 14. Alternativley spliced transcript variants encoding different isoforms have been identified in this gene.[provided by RefSeq, Mar 2010]</p> <p>Transcript Variant: This variant (3) has an alternate 5' exon, which results in a downstream AUG start codon, as compared to variant 1. The resulting isoform (3) is shorter at the N-terminus, as compared to isoform 1.</p>