

Product datasheet for **SC117481**

H6PD (NM_004285) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H6PD (NM_004285) Human Untagged Clone
Tag:	Tag Free
Symbol:	H6PD
Synonyms:	CORTRD1; G6PDH; GDH; H6PDH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_004285 edited
 GGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGACACTATA
 GAATACAAGTACTTGTCTTTTTGCAGCGGCCGGAATCGGCACGAGGAGCCTTTTAAC
 TGGCACCAGGCATGTGGAATATGCTCATAGTGGCGATGTGCTTGGCCCTTCTGGGCTGC
 CTGCAAGCCAGGAGCTCCAGGGACATGTCTCCATAATCCTGTGGGAGCAACTGGGGAC
 TTGGCTAAGAAGTACTTATGGCAGGGACTGTTCCAGCTGTACCTGGATGAAGCGGGGAGG
 GGTCACAGTTTTAGCTTCCATGGAGCTGCTCTGACAGCCCCCAAGCAGGGTCAAGAGCT
 ATGGCCAAGGCCCTGGAATCCCTCTCCTGCCCAAGGACATGGCACCAGTCACTGTGCA
 GAGCACAAGGATCAGTTCCTGCAGCTGAGCCAGTACCGCCAAGTGAAGACGGCCGAGGAC
 TATCAGGCCCTGAACAAGGACATCGAGGCACAGCTCCAGCACGCAGGCCTCCGGGAGGCT
 GGCAGGATCTTCTACTTCTCAGTGCCACCCTTCGCCTATGAAGACATTGCCCGCAACATC
 AACAGTAGCTGCCGGCCAGGCCCGGGCGCCTGGCTGCGGGTTGTCCTTGAGAAACCTTT
 GGCCATGACCACTTCTCAGCCCAGCAGCTGGCCACAGAAGTCCGGACCTTTTCCAGGAG
 GAGGAGATGTACCGGGTGGACCTTACTTAGGCAAGCAGGCTGTGGCGCAGATCTCGCT
 TTCGAGACCAGAACCGAAGGCTTTGGACGGCCTCTGGAACCGGCACCATGTGGAGCGG
 GTGGAGATCATATGAAAGAGACCGTGGATGCTGAAGGCCGCACCAAGCTTCTATGAGGAG
 TACGGTGTCAATCGCGAGCTCCTCCAGAACCATCTGACGGAGGTCTCACCCCTGTGGCC
 ATGGAGCTGCCCCACAATGTGAGCAGTGCAGGAGGCTGTGCTGCGGCACAAGCTTCAGGTC
 TTCCAGGCGCTGCCGGGCTGCAGAGGGCAGTCCCGTCGTGGGCCAGTACCACTTAC
 AGTGAGCAGGTGCGCAGAGAGCTGCAGAAGCCAGACAGCTTCCACAGCCTGACGCCGACC
 TTCGACGGCTCTAGTGACATGACAACCTTCGCTGGGAGGGCGTGCCTTTTATCCTG
 ATGTCTGGCAAAGCCTTGGACGAGAGAGTGGGCTACGCTCGGATCTTGTCAAGAACCAG
 GCCTGTGTGTCAGAGCGAAAAGCACTGGGCCGCGCGCAGAGCCAGTGCCTGCCCGG
 CAGCTCGTCTTCCACATCGGCCATGGCGACCTGGGCAGCCCTGCCGTGCTGGTCAGCAGG
 AACCTGTTCAAGCCCTCCTGCCCTCCAGCTGGAAGGAAATGGAGGGACCACTGGGCTC
 CGCCTTTTCCGACGCCCTCTGTCCGATTACTACGCCTACAGCCCTGTGCGGGAGCGGGAC
 GCCCACTCCGCTCTTATCCCATATCTTCCATGGCCGGAAGAATTTCTCATCACCACA
 GAGAACTGTGGCCTCCTGGAACCTTCTGGACCCTCTGCTGGAGAGCCTGGCCATAAG
 GCCCCACGCCCTACCTGGAGGAGCTGAGAATGGCCGTCTGTTGGACTTTGAGTTCACT
 AGCGGCCGGTGTCTTTTCCAGCAGCAGCCGGAGCAGCTGGTCCAGGGCCAGGGCCG
 GCCCAATGCCAGTGACTTCCAGTCTCAGGGCCAAGTACCGAGAGAGCCCGTGGTC
 TCCGCTGGTCCGAGGAGCTGATCTTAAGCTGGCTAATGACATCGAGGCCACCGCTGTG
 CGAGCCGTGCGGGCGCTTTGGCCAGTTCACCTGGCACTGTGCGGGGGCTCGAGCCCCGTG
 GCCCTGTTCCAGCAGCTGGCCACGGCGCACTATGGCTTCCCCTGGGCCACACGCACCTG
 TGGCTGGTTGACGAGCGCTGCGTCCCCTCTCAGACCCGAGTCCAACCTCCAGGGCCTG
 CAGGCCACCTGCTGCAGCAGTCCGGATCCCCTACTACAACATCCACCCATGCCTGTG
 CACCTGCAGCAGCGGCTCTGCGCCGAGGAGGACCAGGGCGCCAGATCTATGCCAGGGAG
 ATCTCAGCCCTGGTGGCCAACAGCAGCTTCGACCTGGTGTGCTGGGCATGGGTGCCGAC
 GGGCACACAGCCTCCCTTCCCACAGTCAACCACTGGCCTGGATGGCGAGCAGTGGTC
 GTGCTGACCACGAGCCCCCTCCAGCCACACCCGCGCATGAGCCTTAGCCTGCCTCTCATC
 AACCGCGCAAGAAGGTGGCAGTCTGGTCATGGGCAGGATGAAGCGTGAGATCACCACG
 CTGGTGAGCCGGGTGGCCATGAGCCCAAGAAGTGGCCATCTCGGGTGTCTGCCGCAC
 TCCGGCCAGTGGTGTGGTACATGGACTACGACGCCTTCTGGGATGAGGGCGCCTGTGC
 CCCTTGCCCGCTTCGCTCCTGTGCTTTCCTTCGCCGTGCTTCCCTCCCTTCTCGGCC
 CGCCACCTGCCAGCGTGCCTGGCTCTCCAGAACCTTCTATCCACAGTCAAGCCCCAG
 AGAGGGCAGGACAAGCCTTGTCCCGATGCCTTTGACCGGCAGCTCTGTGTATTGGTGGAT
 AGATGCAGAAACAAGGAAGAAATGGAGTCTGCTCCTGAGAAGCTTCAAATTCAGGCCAGG
 AGAGAAGTCTTAAGAAAAGACCTCCAGCAGTTACACATTCATATCAACCAGCACAAACAG
 GGATGGCGCCAAACTCCGGCGTTCACAAGAGGAGACGTGACGTGGTGGGCTGAGGTTAA
 TCAGGGAAGGTTTCTGGGGGAGGTGATCCTTGAAGTGGCTCCCGGGGAACATTCAAGAGC
 ATGATTGGTAGACAGAAGGGTGCAGAGGGCCCCAGGGGAGTACATTGCCCCGTGC

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004285 unedited CGCCCCGTTGCCCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCT CATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCAATCGG CACGAGGAGCCTTTAACTGGCACCCAGGCATGTGGAATATGCTCATAGTGGCGATGTGC TTGGCCCTTCTGGGCTGCCTGCAAGCCCAGGAGCTCCAGGGACATGTCTCCATAATCCTG CTGGGAGCAACTGGGACCTGGCTAAGAAGTACTTATGGCAGGGACTGTTCCAGCTGTAC CTGGATGAAGCGGGAGGGGTACAGTTTTAGCTTCCATGGAGCTGCTCTGACAGCCCCC AAGCAGGGTCAAGAGCTCATGGCCAAGGCCCTGGAATCCCTCTCCTGCCCAAGGACATG GCACCCAGTCACTGTGCAGAGCACAAGGATCAGTTCTCTGCAGCTGAGCCAGTACCGCCAA CTGAAGACGGCCGAGGACTATCAGGCCCTGAACAAGGACATCGAGGCACAGCTCCAGCAC GCAGGCCCTCCGGGAGGCTGGCAGGATCTTCTACTTCTCAGTGCCACCCTTCGCCTATGAA GACATTGCCCGCAACATCAACAGTAGCTGCCGGCCAGGCCGGGCGCCTGGCTGCGGGTT GTCCTTGAAAACCTTTGGCCATGACCACTTCTCAGCCCAGCAGCTGGCCACAGAACT CGGACCTTNTCCAGNAGGAGGAGATGTACCCGGTGGACCATTACTTANNGCAGCAGGCT GTGGCGCAGATCCTGCCTTTNCGAGACCAGACCGNCAGGCTNTGNACGGNCTCTGNAACC NGCACATGTGNACGGNTGGAGNACATCATGAAAGAGACCGTGATGCTGAAGGCCACAG CTCTATGAGAGTACGTGTATTCCGACGCTCCAGACATCTGACGAGGTCTNACCTCGTG GCTGNACTGCCACATGTCACATGCGGAGCTGGCTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_004285
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).
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:	NM_004285.3 , NP_004276.2
RefSeq Size:	9117 bp
RefSeq ORF:	2376 bp
Locus ID:	9563
UniProt ID:	O95479
Cytogenetics:	1p36.22
Domains:	G6PD, Glucosamine_iso
Protein Pathways:	Metabolic pathways, Pentose phosphate pathway

Gene Summary:

There are 2 forms of glucose-6-phosphate dehydrogenase. G form is X-linked and H form, encoded by this gene, is autosomally linked. This H form shows activity with other hexose-6-phosphates, especially galactose-6-phosphate, whereas the G form is specific for glucose-6-phosphate. Both forms are present in most tissues, but H form is not found in red cells.
[provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) uses an alternate 5' most exon compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1.