

Product datasheet for **SC101844**

H6PD (AK026460) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H6PD (AK026460) Human Untagged Clone
Tag:	Tag Free
Symbol:	H6PD
Synonyms:	CORTRD1; G6PDH; GDH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK026460, the custom clone sequence may differ by one or more nucleotides

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ATTCCAGGCTCCTCCCTGTGCTTTGCTGTTCTTCAGACTCCATTTATAGAGAATGAGGGCTGATAACAG
GAATACAGTGGCAAAGACTAGACTGTGAAAGGGTTCCAGAAATCTTTTTTCTTTTTTAAATAAAAAAA
ATATTTGCAGAGATGAGCTCTTGCTATGTTGCCAGGCTGGTCTCAAACCTCTGGGCTCAAGCGATCCTC
CCATCTCAGCCTCCAGAGTGTGGGATTACAGGTGTGAGCTACTGCGCCAGCCCCAGAAATCTCAGTG
CTGTTTGGAGCTCCATTTCTCATTGATGACTTGTCTGCGTGGGAGGTGGGGTCTCATTCCCAACT
TCCTCAGGAGGACCCCTGCCCTCCGCTGCTCCTGTCTGCTAGCCTCCTCCAGGAAGCACACTGGG
TGCAGATAATCAGGACATTCCAGAGATCCCAATTTAAGAGGGTCATTTCCATCTCAGGGGACTCCCGGA
TGGGTGTTCCGCTCTCAATAGCCCTCTGTTTTACCAGGAAAGATCCAGTAAATCACCCTGAGGT
GACAGCTCATTAGCGGGAGAGAGATGGAGCTCGAGTGACACTGGCCATCCAGCGGCTCTGCTCCA
CCAGACAGGAGCTAGGCCTCACTGGCAGGGGGCTGCCACAGCCTTTTCAGGGCTCGCTTGGCGGGT
ACGGGGCCGAGCCAGGCCTTCTCTCCCTGCCCTTGGTGACCCGTGGCTTCTGTCTGCTGGCCTCTC
TGCTACTTATCACTTACCACGAACTCTCTGCCTGAGACTGGGGAAGTAAAGCGGTATCTTCTCAGTGA
GCATAGTTGGGGACTGTGATCTTGAGAAGCCATGGGCCAGCAATACCTGCTTTTCTGAAGCCCCAAGG
AGGGCTCTGACATTCTTTTTAAAAACACCAAAAGCAAAATCCAGGACATGTGTAGTTTTGTTGTTTC
AGTATCCACAACCTTAGGGCTGGGAGATGGAACCTTGGTTAAGGTGATTTTTCTGTCTGGCTTCTCCG
CACCTTCACTTGTCTCTGGATCAGGCAGATATAAACTTTCTAGCGCATTTTGAGAGAGGGCTTTCTTG
GGTGAGGGAGCATGGCAAAGTCGGTTTCTCTGGACTGTTTACACTTCAAGCGGTGGATTTAGAGGAA
TCCTGGCTTTCATTTTCAATGCCAGTCTGAGACATGTTCCCAAGCCGGGGCTCTGTTTACACCACCTAC
TCTGGCCACCAACAACAACCCAGGCCAGACAGCATCTTTTTTTTTTTTTTGAGACAGACTCTGTCG
CCAGGCTGGAGCCAGTGGCGAGATCTTGGCTCACTACAACCTCCACCTCCCGGGTTCAGGCAATTCTCG
TGCTGAGCCTCCGAGTAGCTGCGACTACAGGCGCCGGCCAGCATGCCTGTCTAATTTTTGTATTTAG
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AGCCTCCCAAAGTGTGGGATTACAGGCGTGAGCCACCGCGCCAGTCAAGCATCTGTTTTACACCCA
GAGAGCGCCCTCGTTAGGACAGAACCACGGTCCAGAGCCAGGAAGCCGCCCTCTGGCGCCAGCAT
CTGAGCTTCTACACGTGATGGGCGGGCTCAGGAGAGGACAGGGAGTCTGGTGGAAAGTCCACAGCTGGC
CGCTTGGGGGGCCCTTGCACCGCACTGCCGCTCCTGACTGCCCGATCCCGCAGCCCTGTGCCGA
TTTCATTTCCCTCTCTCTCCAGGTAACCTGGCCCCAGCACTCTCCATCTGTTCTTCCAGAACCGACT
CCTCTCAGTTGCAACACCAGGGAGAAAGGGCCCTCCACATGCCCAAGTACCCTGCAGGATGAAGGGCA
GGCCGGCCCTTGATGTGCCATTTCTGAATAATAGTCACTGCCCGGAGTCTAGGATGTCTGTTCTAACT
CAGCCCTGCCTCGGATGCACCACCGATCTGTGCAGAGTGGGTGTGGGAGTGTGGGTGAGGGTCGAAATGC
CAAAGGTCTACTTTCCAGAAATCAAGTGCCTTCTGCAAAATCATGTTGGAAAAGTCCAAACCTGGAGATGTC
CCTGTGCCTCCGCCCCTACCCACCCCTTTTCTTCACTGTGTTAGGAAGGAGAAGTTTTCAGAACCCTA
TAGGCTGGTGGCTTCAAACCTCAGACCATGATCTGCAGCAAGAAACGTGCCTTCCATCATAAATCAGTC
CATTTGTTTACAACCTGTGTTCCAAGCAGGTTTCATAAAGAAATTTTACCCTTAGAACCTCGGATATCCT
CTATGTTTTAGTTTTTCAATTTTTTAAAAATGCTTCTTAAATCACTAAATTTGGGCTAGGTGTGGCTCATG
CCTGTAGTCCCAGCACTATGGGAGGCTGGGGTGGAGGATCACTTGGAGCCGGGAGGCTGGTCTCGAACT
CCTGACCTCGGGTGGTCCATCCGCTCGGCTCCCAAAGTGTGGGATTGCAGGCGGGATCCACCATGCC
TGGCCAGAACAAATGCCTTTTTAAACCTTTAAGAACATTTTTTAAATGTCTTTTTCTATGTCAAATGTA
ACGTTTTTTTTTAAACAATAAAATTTGATTTGCCAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for AK026460 unedited</p> <pre>GGTGTTCACATTTGTATACGACTCATATAGGCGGCCGGAATTCGGCACGAGGCTACTTA TCACTTCACCACGAACTCTGCTGAGACTGGGGAAGTAAGCGGGTATCTTCTCAGTGA GCATAGTTGGGGACTGTGATCTTGAGAAGCCATGGGCCAGCAATACCTGCTTTTCTGAA GCCCCAAGGAGGGCTCTGACATTCTTTTTAAAAACACCACAAAGCAAAATCCCAGGAC ATGTGTAGTTTTTGTTCAGTATCCCAACTTAAGGCTGGGAGATGGAACCTTTGGT TAAGTTCGATTTTTCTGTCTGGCTTCTCCGCACCTTCCACTTGCTCTCTGGATCAGGCAG ATATAAACTTTCTAGCGATTTTGAGAGAGGGCTTTCTTGGGTGAGGGAGCATGGCAAAG TCGGTTTTCTCTGGACTGTTTACACTTCAAGGCGGTGGATTTAGAGGAATCCTGGCTTT CATTTTTCAATGCCAGTCTGAGACATGTTCCCAAGCCGGGGCTCTTGTTCACACCCTTAC TCTGGCCACCAACAACAACCCAGGCCAGACAGAGCATCTTTTTTTTTTTTGGAGACAGAG TCTCTGTCGCCAGGCTGGAGCCAGTGGCGAGATCTTGGCTCACTACAACCTCCACCTN CCGGGTTCCANGCAATTCTCGTGCCTAAGCCTNCCGAGTAGCTGCGACTACAGGCGCCGGC CAGCATGCCTGTCTAAATTTTGTATTTAGTAGAGACAGGGTTTACCATGTTGCCCAGG CTGGTCTCGAACTCCTGAGCTCAGGCAGTCCACCACCTCAGNCTCCCAAAGTGCNTGGA TTACAGGCGTGAGCCACCGCCAGCCAGCAACATCTGTTTTACACCCAGAGAGCCCCT CGTTAGGACAGACCCACGTGCCAGAGCCAG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for AK026460 unedited</p> <pre>TACATTATGNACCGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTCTAAGTTA AGAATTTCTTTATGAAACCTGCTTGGAACACAGTTGTAACAAAATGGACTGATTTATGAT GGAAGGCACGTTTCTTGTGTCAGATCATGGTCTGAAGTTTAAAGCCACCAGCCTAGAGG GTTCTGAAAACCTCTCCTTCCCTAACACAGCTGAAGGAAAAGGGGTGGGTAGGGGCGGAGG CACAGGGACATCTCCAGTTTGGACTTTTCCAACATGATTTGCAGAAGGCACTTGATTCT GGAAAAGTAGACCTTTGGCATTTCGACCCTCACCCACACTCCCACACCCACTCTGCACAGA TCGGTGGTGATCCGAGGCAGGGCTGAGTTAGAACAGGACATCCTAGACTCGGCGGCAGT GACTATTATTCAGAAATGGCACATCAAGGGCCGGCCTGCCCTTCACTCCTGAGGGGTACT TGGGCATGTGGAGGCCCTTTCTCCCTGGTGTGCAACTGGAGAGGAGTCCGGTTCCTGAA GAACAGATGGGAGAGTGTGGGGCCAGGTACCCTGGGAGAGAGGAGGAAATGAAATCCG GCACAGGGGCTGCGGNGATCGGNGCAGTCAGGAGCGGCAGTGGGTTGCAAGGGCCCCC CACGCGCCAGCTGTGGGACTTACCACGACTCCCTGGTCTCTCCTGAGCCGCCCCATCAC GTGTAGAAGCTCAGATGCTGGGCACCAGGAGGGCGGCTTTCTGGCTCTGGGCACCCGTG GTTCTGTTCTACGAGGGGCGCTCTCTGGGTTGTAACACAGATGTTCTGGGCTGGGCGC CGGTGGCTCACCCCTGTAATCCACACTTTTGAAGGCTGAGGTGGGTGGACTTGCCCTG ACTCAAGAATTTTCGAGACCAGCCGGCAACATGG</pre>
Restriction Sites:	NotI-NotI
ACCN:	AK026460
Insert Size:	1850 bp
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:

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: [AK026460.1](#)

RefSeq Size: 2712 bp

RefSeq ORF: 2712 bp

Locus ID: 9563

Cytogenetics: 1p36.22

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]