

Product datasheet for **RG209890**

H6PD (NM_004285) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H6PD (NM_004285) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	H6PD
Synonyms:	CORTRD1; G6PDH; GDH; H6PDH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209890 representing NM_004285
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGAATATGCTCATAGTGGCGATGTGCTTGGCCCTTCTGGGCTGCCTGCAAGCCAGGAGCTCCAGG
 GACATGTCTCCATAATCCTGCTGGGAGCAACTGGGGACCTGGCTAAGAAGTACTTATGGCAGGGACTGTT
 CCAGCTGTACCTGGATGAAGCGGGGAGGGGTACAGTTTTAGCTTCCATGGAGCTGCTCTGACAGCCCC
 AAGCAGGGTCAAGAGCTCATGGCCAAGGCCCTGGAATCCCTCTCCTGCCCAAGGACATGGCAGCCAGTC
 ACTGTGCAGAGCACAAGGATCAGTTCTGCAGCTGAGCCAGTACCGCCAACTGAAGACGGCCGAGGACTA
 TCAGGCCCTGAACAAGGACATCGAGGCACAGCTCCAGCACGCAGGCCTCCGGGAGGCTGGCAGGATCTTC
 TACTTCTCAGTGCACCCCTTCGCCTATGAAGACATTGCCCGCAACATCAACAGTAGCTGCCGGCCAGGCC
 CGGGCGCCTGGCTGCGGGTTGTCCTTGAGAAACCTTTGGCCATGACCACTTCTCAGCCCAGCAGCTGGC
 CACAGAACTCGGGACCTTTTCCAGGAGGAGAGATGTACCGGGTGGACCATTACTTAGGCAAGCAGGCT
 GTGGCACAGATCCTGCCTTCCGAGACCAGAACCGAAGGCTTTGGACGGCCTCTGGAACCGGCACCATG
 TGGAGCGGGTGGAGATCATCATGAAAGAGACCGTGGATGCCGAAGGCCGACCCAGCTTCTATGAGGAGTA
 CGGTGTCAATTCGCGACGTCCTCCAGAACCATCTGACGGAGGTCTCACCCCTCGTGGCCATGGAGTGCCC
 CACAATGTGACAGTGCAGGAGGCTGTGCTGCGGCACAAGCTTCAGGTCTTCCAGGCGCTGCGGGGCTGC
 AGAGGGGAGTGCCTGCTGGCCAGTACCAGTCTTACAGTGAGCAGGTGCGCAGAGAGCTGCAGAAGCC
 AGACAGCTTCCACAGCCTGACGCCGACCTTCGACGCCCTCCTAGTGCACATTGACAACCTTCGCTGGGAG
 GGCGTGCCTTTCATCCTGATGTCTGGCAAAGCCTTGACGAGAGAGTGGGCTACGCTCGGATCTTGTTC
 AGAACAGGCTGCTGTGTGACAGCGAAAAGCACTGGCCCGCGGCGCAGAGCCAGTGCCTGCCCGGCA
 GCTCGTCTTCCACATCGGCCATGGCGACCTGGGCAGCCCTGCCGTGCTGGTTCAGCAGGAACCTGTTCAAG
 CCTCCCTGCCCTCCAGCTGGAAGGAAATGGAGGGACCACCTGGGCTCCGCCCTTTTCGGCAGCCCTCTGT
 CCGATTACTACGCTACAGCCCTGTGACGAGCGGGACGCCCACTCCGTCTTATCCCATATCTTCCA
 TGGCCGGAAGAATTTCTTCATCACACAGAGAACTTGCTGGCCTCCTGGAACCTTCTGGACCCCTCTGCTG
 GAGAGCCTGGCCATAAGGCCCCAGCCTCTACCCTGGAGGAGCTGAGAATGGCCGTCTGTTGGACTTTG
 AGTTCAGTAGCGCCGGTTGTTCTTTCCAGCAGCAGCCGGAGCAGCTGGTGCCAGGGCCAGGGCCGGC
 CCCAATGCCAGTGACTTCCAGGTCTCAGGGCAAGTACCGAGAGGCCGCTGGTCTCCGCTGGTCC
 GAGGAGCTGATCTAAGCTGGTAATGACATCGAGGCCACCGCTGTGCGAGCCGTGCGGCGCTTTGGCC
 AGTTCACCTGGCACTGTGCGGGGGCTCGAGCCCGTGGCCCTGTTCAGCAGCTGGCCACGGCGCCTA
 TGGCTTCCCTGGGCCACACGCACCTGTGGCTGGTTGACGAGCGCTGCGTCCCCTCTCAGACCCGGAG
 TCCAACCTCCAGGGCCTGCAGGCCACCTGCTGCAGCAGTCCGGATCCCTACTACAACATCCACCCCA
 TGCTGTGCACCTGCAGCAGCGGCTCTGCGCCGAGGAGACCAGGGCGCCAGATCTATGCCAGGGAGAT
 CTCAGCCCTGGTGGCCAACAGCAGCTTCGACCTGGTGTGCTGGGCATGGGTGCCGACGGGCACACAGCC
 TCCCTCTTCCACAGTCACCACTGGCCTGGATGGCGAGCAGCTGGTCTGCTGACCACGAGCCCTCCC
 AGCCACACCGCCGATGAGCCTTAGCCTGCCTCTCATCAACCGCCCAAGAAGGTGGCAGTCTGGTTCAT
 GGCAGGATGAAGCGTGAGATCACACGCTGGTGGCCGAGCCGGTGGCCATGAGCCCAAGAAGTGGCCCATC
 TCGGGTGTCTGCCCACTCCGGCCAGCTGGTGTGGTACATGGACTACGACGCCCTTCTGGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209890 representing NM_004285
 Red=Cloning site Green=Tags(s)

MWNMLIVAMCLALLGCLQAQELQGHVSIILLGATGDLAKKYLWQGLFQLYLDEAGRGHSFSFHGAALTAP
 KQGQELMAKALESLSCPMDAPSHCAEHKDQFLQLSQYRQLKTAEDYQALNKDIEAQLQHAGLREAGRIF
 YFSVPPFAYEDIARNINSSCRPGPGAWLRVVLEKPFQHDHFSQQQLATELGTFEQEEMRYVDHYLGKQA
 VAQILPFRDQNRKALDGLWNRHHVERVEIIMKETVDAEGRTSFYEEYGVIRDVLQNHLETVLTLVAMELP
 HNVSSAEAVLRHKLQVFQALRGLQRGSVAVGQYQSYSEQVRRELQKPDFHSLTPTFAAVLVHIDNLRWE
 GVPFILMSGKALDERVGYARILFKNQACCVQSEKHAAAAQSQCLPRQLVFHIGHDGSPAVLVSRLNFR
 PSLPSSWKEMEGPPLRLLFGSPLSDYYAYSPVQERDAHSVLLSHIFHGRKNFFITTENLLASWNFWTPLL
 ESLAHKAPRLYPGGAENGRLLDFEFSSGRLFFSQQQPEQLVPGPGPAMPSPDFQVLRAKYRESPLVSAWS
 EELISKLANDIEATAVRVRRFGQFHLALSGGSSPVALFQQLATAHYGFPWAHTHLWLVDERCVPLSDPE
 SNFQGLQAHLLQHVRIPYYNIHPMPVHLQQRCAEEDQGAQIYAREISALVANSSFDLVLGMGADGHTA
 SLFPQSPTGLDGEQLVVLTTSPSQPHRRMSLSLPLINRAKKVAVLVMGRMKREITTLVSRVGHPEKKWPI
 SGVLPHSGQLVWYMDYDAFLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

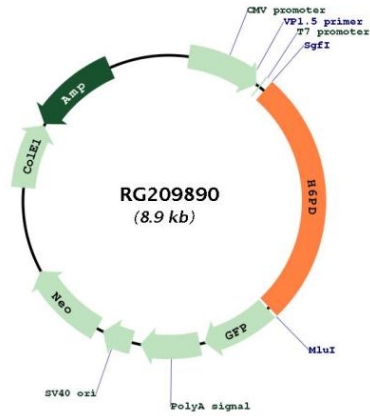


ACCN: NM_004285

ORF Size: 2373 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_004285.3, NP_004276.2</p>
RefSeq Size:	<p>9117 bp</p>
RefSeq ORF:	<p>2376 bp</p>
Locus ID:	<p>9563</p>
UniProt ID:	<p>O95479</p>
Cytogenetics:	<p>1p36.22</p>
Domains:	<p>G6PD, Glucosamine_iso</p>
Protein Pathways:	<p>Metabolic pathways, Pentose phosphate pathway</p>
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG209890