

Product datasheet for **MR210665**

H6pd (BC042677) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H6pd (BC042677) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	H6pd
Synonyms:	A1785303; G6pd1; Gpd-1; Gpd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210665 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCCTAGCGCAATGTGCTTGGCCCTTCTGGGCTGCCTACAGGCGCAGGAACAAGGGTCATGTTT
 CCATAATCCTGCTGGGAGCAACCGGGACCTAGCTAAAAAGTACCTGTGGCAGGGACTGTTTCAGCTATA
 CCTGGATGAGGCTGGGAAGGGCCACAGTTTCAGCTTCCACGGTGTGCCCTGACAGCCCCCAGCAAGGC
 CAGAAGCTCATGGACAAGGCCTTGAATCCCTCTCCTGTCCCAAGGACTTGGTACCCAGTCGCTGTGATG
 AACTCAAGGGTCAGTTTCTACAGCTGAGCCAATACCACCAGCTGAAGACAGTGGAGGACTATCAGACCTT
 CAACAAGGATATTGAGACCCAGGTCCAGCAGGATGGGCTCTGGGAGGCAGGCAGGATCTTCTACTTCAGT
 GTGCCGCCCTTTGCTACGCAGACATTGCCCGTAACATCAACAGCAGCTGCCACCACCCAGGTGCCT
 GGCTACGGGTTGTTTTGAAAAACCTTTGGCCATGACCACCTCTCAGCCCAGCAGCTGGCTTCAGAACT
 TGAAGCTTTTTCCAGGAGGAGGATGTACCGTGTGGATCATTACCTCGCAAGCAGGCGGTGGCTCAG
 ATCCTGCCCTTCCGAGATCAGAACCGAAGGCCTTGGATGGCCTCTGGAACAGGCACCATGTGGAGCGGG
 TGGAGATCATTTTGAAGGAGACCATAGATGCGGAAGGTGCGGCCAGTTTCTATGAGGAGTATGGCGTCAT
 CCGTGACACGCTGCAGAACCACCTGACTGAGATCCTCACGCTGGTGGCCATGGAAGTGCCTCAACATC
 AGCAGCTCAGCCACCGTCTCCAGCATAAGCTCTGGGCCCTCCAGGCCCTGCGGGGGCTGCAGAAGAGCA
 GTGCCATCCTGGGCCAGTACCAGGCCTACAGCGGACAGGTGCGCCGAGAGCTGCAGAAGCCAGACGGCTT
 CCAGAGCCTGACCAACCTTCGAGGTGTCCTTGTCCACATCGACAACCTGCGTTGGGAGGGTGTCCCT
 TTCATCCTGATGCTGGCAAGGCCTTGGATGAGAGAGTGGGCTATGTTTCGATTGTGTTAAGAATCGGG
 CGTACTGCACCCAGAGCGAGAGACTGGGTGCCGGAGCAGAGCCGGTGCCTGCCCCAGGATTAATCTT
 CTACATTGGACACGGTGAGCTGGGCCACCTGCCATTCTGGTCAGCCGGAACCTGTTCAAACCTCACTA
 CCCACTCAGAAGTGAAGGAGGTGCAGGACCAGCCTGGGCTCCGCCTGTTTCGGCCGTCCTGTCTGATT
 ACTACGCCTACAGGCCTGTGCGGGAGCAAGACGCCTACTCCACCCTCCTGTGCGACATCTTCCACTGCCG
 AAAGGAGTCCTTCATCACCACCGAGAACCTCTTGGCCTCCTGGGTCTTCTGGACCCGTTACTGGACAGC
 CTGGCCTTTGAAGTTCACGCCCGTACCAGGGGGAGCCGAGAATGGCCAGCTGCTGGACTTCGAGTTTA
 GCGGTGGTCAGTGACCTTCTCCAGCAGCAGCTGGAGGTGCTGATACCAGATCTAGGCTCAGTCCCAA
 GCCAGTGACTTCAGGTCTCGGGGCCCGGTATAGACAGAGCCCACTGATTACCGCCTGGCCAGAGGAG
 CTGATCTCTAAGCTGGCCAGTGACATTGAAGCCGCGCGGTGCAGGCGGTACGGCACTTCGCAAGTTCC
 ACCTGGCACTGTCAGGTGGTTCGAGCCCATAGCTCTCTTCCAGCAGCTGGCCACAGGGCATTACAGCTT
 CCCCTGGGCCACACACCTCTGGCTGGTTGATGAGCGCTGTGTCCCTCTCTCAGATCCAGACTCCAAC
 TTCCAGGGCCTGCAGGCTCACCTGCTACAGCACGTGAGGGTACCCTACTACAACATCCACCAATGCCAG
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 TTCCCACAGTCCCCACAGGCCTGGATGGTGATCAGCTGGTGGTGTGACGGAGAGCCCGTTTCAGGCCAC
 ACCAACGCATGAGCCTCAGCCTGCCCTCATCAACCGAGCCAAGAAGGTAGCTGTCTGGTCATGGGCAG
 GACAAAACGTGAGATCACAACGTTGGTGAGCCGCGTGGGCCATGAACCAAGAAGTGGCCCATCTCAGGT
 GTGGTGCCTCTTCTGGGCAGCTGGTTTGGTACATGGATTACGAGGCCTTTCTGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210665 protein sequence

Red=Cloning site Green=Tags(s)

MLLAAMCLALLGCLQAQELKGHVSIIILLGATGDLAKKYLWQGLFQLYLDEAGKGHSFSFHGAALTAPQQG
QKLMKALESLSCPDLVPSRCDELKGQFLQLSQYHQLKTVEDYQTLNKDIETQVQQDGLWEAGRIFYFS
VPPFAYADIARNINSSCRPHPGAWLRVVFEEKPFQHDHLSAQQLASELGSFFQEEEMYRVDHYLGKQAVAQ
ILPFRDQNRKALDGLWNRHHVERVEIILKETIDAEGRASFYEEYGVIRDTLQNHLEILTLVAMELPLNI
SSSATVLRHKLWAFQALRGLQKSSAILGQYQAYSQVRRRELQKPDGFQSLTPTFAGVLVHIDNLRWEGVP
FILMSGKALDERVGYVRIVFNRAYCTQSERHWVPEQSRCLPQQIIFYIGHGELGHPAILVSRNLFKPSL
PTQKWEVQDQPLRFGRLSDYYAYRPVREQDAYSTLLSHIFHCRKESFITTEENLLASWVFWTPLLDS
LAFEVPRYPGGAENGQLLDFEFSGGQLTFSQQQLEVLIPDLGSVPKPSDFQVLGARYRQSPLITAWPEE
LISKLASDIEAAAVQAVRHFGKFHLALSGGSSPIALFQQLATGHYSFPWAHTHLWLVDERCVPLSDPDSN
FQGLQAHLLQHVRVPYYNIHPMPVHLHQRLCAEEDQGAQTYASEISALVANSSFDLVLLGMGTGDGHTASL
FPQSPTGLDGDQLVVLTESPFRPHQMSLSLPLINRAKKVAVLVMGRTRKREITTLVSRVGHPEKKWPISG
VVPLSGQLVWYMDYEAFLG

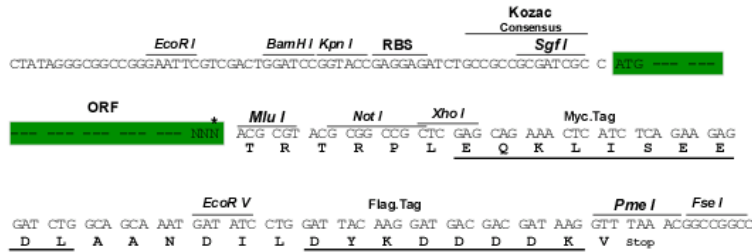
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: BC042677

ORF Size: 2367 bp

OTI Disclaimer: 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](#)
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [BC042677](#), [AAH42677](#)

RefSeq Size: 4583 bp

RefSeq ORF: 2369 bp

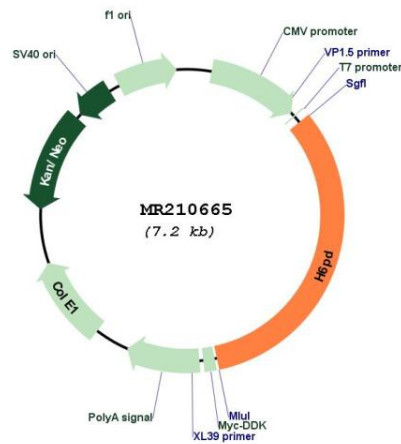
Locus ID: 100198

Cytogenetics: 4 80.65 cM

MW: 88.9 kDa

Gene Summary: Oxidizes glucose-6-phosphate and glucose, as well as other hexose-6-phosphates. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210665