



## Human Glucose Metabolism Primer Library

**Catalog No:** HGLM-1  
**Supplier:** RealTimePrimers  
**Lot No:** XXXXX  
**Supplied as:** solid  
**Stability:** store at -20°C

### Description

Contains 88 primer sets directed against glucose metabolism genes and 8 housekeeping gene primer sets. Provided in a 96-well microplate (20 ul - 10 uM). Perform up to 100 PCR arrays (based on 20 ul assay volume per reaction). Just add cDNA template and SYBR green master mix.

### Gene List:

- ACLY ATP citrate lyase
- ACO1 aconitase 1, soluble
- ACO2 aconitase 2, mitochondrial
- AGL amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase
- AKT1 v-akt murine thymoma viral oncogene homolog 1
- AKT2 v-akt murine thymoma viral oncogene homolog 2
- AKT3 v-akt murine thymoma viral oncogene homolog 3
- ALDOA aldolase A, fructose-bisphosphate
- ALDOB aldolase B, fructose-bisphosphate
- ALDOC aldolase C, fructose-bisphosphate
- BPGM 2,3-bisphosphoglycerate mutase
- DLD dihydrolipoamide dehydrogenase
- ENO1 enolase 1, (alpha)
- ENO2 enolase 2 (gamma, neuronal)
- ENO3 enolase 3 (beta, muscle)
- FBP1 fructose-1,6-bisphosphatase 1
- FBP2 fructose-1,6-bisphosphatase 2
- FH fumarate hydratase
- G6PC glucose-6-phosphatase, catalytic subunit
- G6PC3 glucose 6 phosphatase, catalytic, 3
- G6PD glucose-6-phosphate dehydrogenase
- GALM galactose mutarotase (aldose 1-epimerase)
- GCG glucagon
- GCK glucokinase (hexokinase 4)
- GPI glucose-6-phosphate isomerase
- GSK3A glycogen synthase kinase 3 alpha
- GSK3B glycogen synthase kinase 3 beta
- GYS1 glycogen synthase 1 (muscle)
- GYS2 glycogen synthase 2 (liver)
- H6PD hexose-6-phosphate dehydrogenase
- HK1 hexokinase 1
- HK2 hexokinase 2
- HK3 hexokinase 3
- IDH1 isocitrate dehydrogenase 1 (NADP+), soluble
- IDH2 isocitrate dehydrogenase 2 (NADP+), mitochondrial
- IDH3A isocitrate dehydrogenase 3 (NAD+) alpha
- IDH3B isocitrate dehydrogenase 3 (NAD+) beta
- IDH3G isocitrate dehydrogenase 3 (NAD+) gamma
- INS insulin
- INSR insulin receptor
- INSRR insulin receptor-related receptor
- LDHA lactate dehydrogenase A
- MDH1 malate dehydrogenase 1, NAD
- MDH2 malate dehydrogenase 2, NAD
- PC pyruvate carboxylase
- PCK1 phosphoenolpyruvate carboxykinase 1
- PCK2 phosphoenolpyruvate carboxykinase 2
- PDHA1 pyruvate dehydrogenase (lipoamide) alpha 1
- PDHB pyruvate dehydrogenase (lipoamide) beta
- PDK1 pyruvate dehydrogenase kinase, isozyme 1
- PDK2 pyruvate dehydrogenase kinase, isozyme 2
- PDK3 pyruvate dehydrogenase kinase, isozyme 3
- PDK4 pyruvate dehydrogenase kinase, isozyme 4
- PDP2 pyruvate dehydrogenase phosphatase catalytic subunit 2
- PDPR pyruvate dehydrogenase phosphatase regulatory subunit
- PFKL phosphofructokinase, liver
- PFKM phosphofructokinase, muscle
- PFKP phosphofructokinase, platelet
- PGAM1 phosphoglycerate mutase 1 (brain)
- PGK2 phosphoglycerate kinase 2
- PGLS 6-phosphogluconolactonase
- PGM1 phosphoglucomutase 1
- PGM2 phosphoglucomutase 2
- PGM3 phosphoglucomutase 3
- PHKA1 phosphorylase kinase, alpha 1 (muscle)
- PHKB phosphorylase kinase, beta



- PHKG1 phosphorylase kinase, gamma 1 (muscle)
- PHKG2 phosphorylase kinase, gamma 2 (testis)
- PKLR pyruvate kinase, liver and RBC
- PRPS1 phosphoribosyl pyrophosphate synthetase 1
- PRPS1L1 Phosphoribosyl pyrophosphate synthetase 1-like 1
- PRPS2 phosphoribosyl pyrophosphate synthetase 2
- PYGL phosphorylase, glycogen, liver
- PYGM phosphorylase, glycogen, muscle
- RBKS ribokinase
- RPE ribulose-5-phosphate-3-epimerase
- RPIA ribose 5-phosphate isomerase A
- SDHA succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
- SDHB succinate dehydrogenase complex, subunit B, iron sulfur (Ip)
- SDHC succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa
- SDHD succinate dehydrogenase complex, subunit D, integral membrane protein
- SLC2A1 solute carrier family 2, member 1
- SLC2A2 solute carrier family 2, member 2
- SLC2A3 solute carrier family 2, member 3
- SLC2A4 solute carrier family 2, member 4
- TPI1 triosephosphate isomerase 1
- SUCLA2 succinate-CoA ligase, ADP-forming, beta subunit
- UGP2 UDP-glucose pyrophosphorylase 2
- ACTB Actin, beta
- B2M Beta-2-microglobulin
- GAPD Glyceraldehyde-3-phosphate dehydrogenase
- GUSB Glucuronidase, beta
- HPRT1 Hypoxanthine phosphoribosyltransferase 1
- PGK Phosphoglycerate kinase 1
- PPIA Peptidylprolyl isomerase A
- RPL13A Ribosomal protein L13a

#### Usage

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