



## Human Drug Detoxication II Primer Library

**Catalog No:** HDTX-2  
**Supplier:** RealTimePrimers  
**Lot No:** XXXXX  
**Supplied as:** solid  
**Stability:** store at -20°C

### Description

Contains 88 primer sets directed against drug detoxication 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:

- AANAT Arylalkylamine N-acetyltransferase
- ACSL1 Acyl-CoA synthetase long-chain family member 1
- ACSL3 Acyl-CoA synthetase long-chain family member 3
- ACSL4 Acyl-CoA synthetase long-chain family member 4
- ACSL5 Acyl-CoA synthetase long-chain family member 5
- ACSL6 Acyl-CoA synthetase long-chain family member 6
- ACSM1 Acyl-CoA synthetase medium-chain family member 1
- ACSM2B Acyl-CoA synthetase medium-chain family member 2B
- ACSM3 Acyl-CoA synthetase medium-chain family member 3
- AGXT Alanine-glyoxylate aminotransferase
- AS3MT Arsenic (+3 oxidation state) methyltransferase
- ASMT Acetylserotonin O-methyltransferase
- BAAT Bile acid Coenzyme A: amino acid N-acyltransferase (glycine N-choloyltransferase)
- CCBL1 Cysteine conjugate-beta lyase, cytoplasmic
- CES1 Carboxylesterase 1 (monocyte/macrophage serine esterase 1)
- CES2 Carboxylesterase 2 (intestine, liver)
- CES3 Carboxylesterase 3
- CES4A Carboxylesterase 4A
- CES5A Carboxylesterase 5A
- CES7 Carboxylesterase 7
- COMT Catechol-O-methyltransferase
- DDOST Dolichyl-diphosphooligosaccharide-protein glycosyltransferase
- EPHX1 Epoxide hydrolase 1, microsomal (xenobiotic)
- EPHX2 Epoxide hydrolase 2, cytoplasmic
- GAMT Guanidinoacetate N-methyltransferase
- GLYAT Glycine-N-acyltransferase
- GNMT Glycine N-methyltransferase
- GSTA1 Glutathione S-transferase alpha 1
- GSTA3 Glutathione S-transferase alpha 3
- GSTA4 Glutathione S-transferase alpha 4
- GSTA5 Glutathione S-transferase alpha 5
- GSK1 Glutathione S-transferase kappa 1
- GSTM2 Glutathione S-transferase mu 2 (muscle)
- GSTM3 Glutathione S-transferase mu 3 (brain)
- GSTM4 Glutathione S-transferase mu 4
- GSTM5 Glutathione S-transferase mu 5
- GSTO1 Glutathione S-transferase omega 1
- GSTO2 Glutathione S-transferase omega 2
- GSTP1 Glutathione S-transferase pi 1
- GSTT1 Glutathione S-transferase theta 1
- GSTT2 Glutathione S-transferase theta 2
- HNMT Histamine N-methyltransferase
- INMT Indolethylamine N-methyltransferase
- MGST1 Microsomal glutathione S-transferase 1
- MGST2 Microsomal glutathione S-transferase 2
- MGST3 Microsomal glutathione S-transferase 3
- NAT1 N-acetyltransferase 1 (arylamine N-acetyltransferase)
- NAT2 N-acetyltransferase 2 (arylamine N-acetyltransferase)
- NAT5 N-acetyltransferase 5 (GCN5-related, putative)
- NNMT Nicotinamide N-methyltransferase
- NQO1 NAD(P)H dehydrogenase, quinone 1
- NQO2 NAD(P)H dehydrogenase, quinone 2
- PNMT Phenylethanolamine N-methyltransferase
- PTGES Prostaglandin E synthase
- SAT1 Spermidine/spermine N1-acetyltransferase 1
- SULT1A1 Sulfotransferase family, cytosolic, 1A, phenol- preferring, member 1
- SULT1A2 Sulfotransferase family, cytosolic, 1A, phenol- preferring, member 2



- SULT1A3 Sulfotransferase family, cytosolic, 1A, phenol- preferring, member 3
- SULT1B1 Sulfotransferase family, cytosolic, 1B, member 1
- SULT1C1 Sulfotransferase family, cytosolic, 1C, member 2
- SULT1C2 Sulfotransferase family, cytosolic, 1C, member 2
- SULT1C3 Sulfotransferase family, cytosolic, 1C, member 3
- SULT1E1 Sulfotransferase family 1E, estrogen-preferring, member 1
- SULT2A1 Sulfotransferase family, cytosolic, 2A, dehydroepiandrosterone (DHEA)-preferring, member 1
- SULT2B1 Sulfotransferase family, cytosolic, 2B, member 1
- SULT4A1 Sulfotransferase family 4A, member 1
- SULT6B1 Sulfotransferase family, cytosolic, 6B, member 1
- TPMT Thiopurine S-methyltransferase
- TST Thiosulfate sulfurtransferase (rhodanese)
- UGT1A1 UDP glucuronosyltransferase 1 family, polypeptide A1
- UGT1A10 UDP glucuronosyltransferase 1 family, polypeptide A10
- UGT1A3 UDP glucuronosyltransferase 1 family, polypeptide A3
- UGT1A4 UDP glucuronosyltransferase 1 family, polypeptide A4
- UGT1A5 UDP glucuronosyltransferase 1 family, polypeptide A5
- UGT1A6 UDP glucuronosyltransferase 1 family, polypeptide A6
- UGT1A7 UDP glucuronosyltransferase 1 family, polypeptide A7
- UGT1A8 UDP glucuronosyltransferase 1 family, polypeptide A8
- UGT1A9 UDP glucuronosyltransferase 1 family, polypeptide A9
- UGT2A1 UDP glucuronosyltransferase 2 family, polypeptide A1
- UGT2A3 UDP glucuronosyltransferase 2 family, polypeptide A3
- UGT2B10 UDP glucuronosyltransferase 2 family, polypeptide B10
- UGT2B17 UDP glucuronosyltransferase 2 family, polypeptide B17
- UGT2B28 UDP glucuronosyltransferase 2 family, polypeptide B28
- UGT2B4 UDP glucuronosyltransferase 2 family, polypeptide B4
- UGT2B7 UDP glucuronosyltransferase 2 family, polypeptide B7
- UGT3A1 UDP glycosyltransferase 3 family, polypeptide A1
- UGT8 UDP glycosyltransferase 8
- XDH Xanthine dehydrogenase
- ACTB Actin, beta
- B2M Beta-2-microglobulin
- GAPDH Glyceraldehyde-3-phosphate dehydrogenase
- GUSB Glucuronidase, beta
- HPRT1 Hypoxanthine phosphoribosyltransferase 1
- PGK1 Phosphoglycerate kinase 1
- PPIA Peptidylprolyl isomerase A
- RPL13A Ribosomal protein L13a

#### Usage

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