



## Human Drug Detoxication I Primer Library

**Catalog No:** HDTX-1  
**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:

- AADAC Arylacetamide deacetylase (esterase)
- ADH1A Alcohol dehydrogenase 1A (class I), alpha polypeptide
- ADH1B Alcohol dehydrogenase 1B (class I), beta polypeptide
- ADH1C Alcohol dehydrogenase 1C (class I), gamma polypeptide
- ADH4 Alcohol dehydrogenase 4 (class II), pi polypeptide
- ADH5 Alcohol dehydrogenase 5 (class III), chi polypeptide
- ADH6 Alcohol dehydrogenase 6 (class V)
- ADH7 Alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
- ALDH1A1 Aldehyde dehydrogenase 1 family, member A1
- ALDH1A2 Aldehyde dehydrogenase 1 family, member A2
- ALDH1A3 Aldehyde dehydrogenase 1 family, member A3
- ALDH1B1 Aldehyde dehydrogenase 1 family, member B1
- ALDH2 Aldehyde dehydrogenase 2 family (mitochondrial)
- ALDH3A1 Aldehyde dehydrogenase 3 family, member A1
- ALDH3A2 Aldehyde dehydrogenase 3 family, member A2
- ALDH3B1 Aldehyde dehydrogenase 3 family, member B1
- ALDH3B2 Aldehyde dehydrogenase 3 family, member B2
- ALDH4A1 Aldehyde dehydrogenase 4 family, member A1
- ALDH5A1 Aldehyde dehydrogenase 5 family, member A1 (succinate-semialdehyde dehydrogenase)
- ALDH6A1 Aldehyde dehydrogenase 6 family, member A1
- ALDH7A1 Aldehyde dehydrogenase 7 family, member A1
- ALDH8A1 Aldehyde dehydrogenase 8 family, member A1
- ALDH9A1 Aldehyde dehydrogenase 9 family, member A1
- CEL Carboxyl ester lipase (bile salt-stimulated lipase)
- CYP11A1 Cytochrome P450, family 11, subfamily A, polypeptide 1
- CYP11B1 Cytochrome P450, family 11, subfamily B, polypeptide 1
- CYP11B2 Cytochrome P450, family 11, subfamily B, polypeptide 2
- CYP17A1 Cytochrome P450, family 17, subfamily A, polypeptide 1
- CYP19A1 Cytochrome P450, family 19, subfamily A, polypeptide 1
- CYP1A1 Cytochrome P450, family 1, subfamily A, polypeptide 1
- CYP1A2 Cytochrome P450, family 1, subfamily A, polypeptide 2
- CYP1B1 Cytochrome P450, family 1, subfamily B, polypeptide 1
- CYP21A2 Cytochrome P450, family 21, subfamily A, polypeptide 2
- CYP24A1 Cytochrome P450, family 24, subfamily A, polypeptide 1
- CYP26A1 Cytochrome P450, family 26, subfamily A, polypeptide 1
- CYP26B1 Cytochrome P450, family 26, subfamily B, polypeptide 1
- CYP26C1 Cytochrome P450, family 26, subfamily C, polypeptide 1
- CYP27A1 Cytochrome P450, family 27, subfamily A, polypeptide 1
- CYP27B1 Cytochrome P450, family 27, subfamily B, polypeptide 1



- CYP2A13 Cytochrome P450, family 2, subfamily A, polypeptide 13
- CYP2B6 Cytochrome P450, family 2, subfamily B, polypeptide 6
- CYP2C18 Cytochrome P450, family 2, subfamily C, polypeptide 18
- CYP2C19 Cytochrome P450, family 2, subfamily C, polypeptide 19
- CYP2C8 Cytochrome P450, family 2, subfamily C, polypeptide 8
- CYP2C9 Cytochrome P450, family 2, subfamily C, polypeptide 9
- CYP2D6 Cytochrome P450, family 2, subfamily D, polypeptide 6
- CYP2E1 cytochrome P450, family 2, subfamily E, polypeptide 1
- CYP2F1 Cytochrome P450, family 2, subfamily F, polypeptide 1
- CYP2J2 Cytochrome P450, family 2, subfamily J, polypeptide 2
- CYP2R1 Cytochrome P450, family 2, subfamily R, polypeptide 1
- CYP2S1 Cytochrome P450, family 2, subfamily S, polypeptide 1
- CYP2W1 Cytochrome P450, family 2, subfamily W, polypeptide 1
- CYP3A4 Cytochrome P450, family 3, subfamily A, polypeptide 4
- CYP3A43 Cytochrome P450, family 3, subfamily A, polypeptide 43
- CYP3A5 Cytochrome P450, family 3, subfamily A, polypeptide 43
- CYP3A7 Cytochrome P450, family 3, subfamily A, polypeptide 7
- CYP4A11 Cytochrome P450, family 4, subfamily A, polypeptide 11
- CYP4A22 Cytochrome P450, family 4, subfamily A, polypeptide 22
- CYP4B1 Cytochrome P450, family 4, subfamily B, polypeptide 1
- CYP4F11 Cytochrome P450, family 4, subfamily F, polypeptide 11
- CYP4F12 Cytochrome P450, family 4, subfamily F, polypeptide 12
- CYP4F2 Cytochrome P450, family 4, subfamily F, polypeptide 2
- CYP4F3 Cytochrome P450, family 4, subfamily F, polypeptide 3
- CYP4F8 Cytochrome P450, family 4, subfamily F, polypeptide 8
- CYP7A1 Cytochrome P450, family 7, subfamily A, polypeptide 1
- CYP7B1 Cytochrome P450, family 7, subfamily B, polypeptide 1
- CYP8B1 Cytochrome P450, family 8, subfamily B, polypeptide 1
- DHRS2 Dehydrogenase/reductase (SDR family) member 2
- DPYD Dihydropyrimidine dehydrogenase
- ESD Esterase D/formylglutathione hydrolase
- FMO1 Flavin containing monooxygenase 1
- FMO2 Flavin containing monooxygenase 2 (non-functional)
- FMO3 Flavin containing monooxygenase 3
- FMO4 Flavin containing monooxygenase 4
- FMO5 Flavin containing monooxygenase 5
- GZMA Granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)
- GZMB Granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
- HSD17B1 Hydroxysteroid (17-beta) dehydrogenase 1
- HSD17B10 Hydroxysteroid (17-beta) dehydrogenase 10
- HSD17B2 Hydroxysteroid (17-beta) dehydrogenase 2
- HSD17B3 Hydroxysteroid (17-beta) dehydrogenase 3
- MAOA Monoamine oxidase A
- MAOB Monoamine oxidase B
- PTGS1 Prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)
- PTGS2 Prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)
- UCHL1 Ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)
- UCHL3 Ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)
- 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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