

## Human Drug Metabolism: Phase I Enzymes PCR Array

**Cytochrome P450:** CYP11A1, CYP11B1, CYP11B2, CYP17A1, CYP19A1, CYP1A1, CYP1A2, CYP1B1, CYP21A2, CYP24A1, CYP26A1, CYP26B1, CYP26C1, CYP27A1, CYP27B1, CYP2A13, CYP2R1, CYP2S1, CYP2B6, CYP2C18, CYP2C19, CYP2C8, CYP2C9, CYP2D6, CYP2E1, CYP2F1, CYP2W1, CYP3A4, CYP3A43, CYP3A5, CYP3A7, CYP4A11, CYP4A22, CYP4B1, CYP4F11, CYP4F12, CYP4F2, CYP4F3, CYP4F8, CYP7A1, CYP7B1, CYP8B1.

**Alcohol Dehydrogenase:** ADH1A, ADH1B, ADH1C, ADH4, ADH5, ADH6, ADH7, DHRS2, HSD17B10 (HADH2).

**Esterase:** AADAC, CEL, ESD, GZMA, GZMB, UCHL1, UCHL3.

**Aldehyde Dehydrogenase:** ALDH1A1, ALDH1A2, ALDH1A3, ALDH1B1, ALDH2, ALDH3A1, ALDH3A2, ALDH3B1, ALDH3B2, ALDH4A1, ALDH5A1, ALDH6A1, ALDH7A1, ALDH8A1, ALDH9A1.

**Flavin containing Monooxygenase:** FMO1, FMO2, FMO3, FMO4, FMO5.

**Monoamine Oxidase:** MAOA, MAOB.

**Prostaglandin-endoperoxide Synthase:** PTGS1, PTGS2.

**Xanthine Dehydrogenase:** XDH.

**Dihydropyrimidine Dehydrogenase:** DPYD.