

Human Nephrotoxicity PCR Array

Up-Regulated:

Apoptosis: ANGPTL4, ANXA5, BTG2, CD24, CD44, CDKN1A, CLU, GADD45A, GSTP1, HMOX1, NQO1, RTN4, SOCS3, TNFRSF12A.

Cell Cycle: CCND1, CCNG1, CDKN1A, GADD45A, MCM6.

Metal Ion Binding: BMP1, CCS, CP, CTSS, HMOX1, HMOX2, MT1A.

Oxidative Stress: CLU, G6PD, GPX2, GPX8, HMOX1, HMOX2, NQO1.

Proliferation: ATF3, BTG2, CCND1, CD24, CDKN1A (p21CIP1/WAF1), CLU, CXCL1, CXCL10 (INP10), GLUL, GPNMB, HMOX1, HSP90AA1, TIMP1, UCHL1, VCAM1.

Tissue Remodeling: CST3, FN1, HAVCR1 (KIM-1), SPP1 (Osteopontin), TIMP1.

Transporters: ABCB1 (MDR1), ABCC2 (MRP2).

Xenobiotic Metabolism: CYP2C19, GSTP1.

Extracellular Matrix: ANGPTL4, CCL3 (MIP-1A), CD44, CST3, FGB, LGALS3, MGP, TIMP1.

Cytoskeleton: CCL3, G6PD, SPRR1A, TMSB10, VIM.

Others: A2M, GC, IGFBP1, LCN2 (NGAL), UGT1A1.

Down-Regulated:

Apoptosis: BMP4, CAT, GHR, IGFBP3, SOD2.

Cell Cycle: BMP4, EGF.

Metal Ion Binding: BHMT, IDH1, RGN, SCD, SOD2, SOD3.

Oxidative Stress: CAT, GATM, IDH1, SOD2, SOD3.

Proliferation: BMP4, EGF, IGFBP3, NOX4, ODC1, SOD2.

Transporters: SLC22A1, SLC22A5, SLC22A6.

Xenobiotic Metabolism: CYP2D6, FMO2, GSTK1.

Extracellular Matrix: BMP4, CYR61, SOD3.

Others: AASS, ALDH1A1, CALB1, G6PC, GAMT, IPMK, KLK1, NPHS2, OAT.