Human Osmotic Stress PCR Array
Transport:
Water Transporters: AQP1, AQP2, AQP3, AQP4, AQP5, AQP9.
Ion Channels: CFTR, KCNJ1, MLC1, TRPV4.
Other Transporters: ABCB1 (MDR1), ATP1A1, ATP1B1, LCN2 (NGAL), SLC14A2, SLC2A1, SLC38A2, SLC5A3, SLC6A12, SLC6A6, SLC9A2, SLC9A3.
TonEBP/OREBP (NFAT5) Targets: AQP2, SLC14A2, SLC5A3, SLC6A12, SLC6A6.
Hormones & Receptors: ADM, AGT, AGTR1, AVP, EDN1, GUCA2A, INS, NPR1, OXT.
Molecular Chaperones: CALR, CRYAB, HSP90AA1, HSPA1A, HSPA4 (HSP70), HSPA4 (HSP70), HSPA4L (OSP94), HSPA5 (GRP78), HSPB1 (HSP27).
DNA Damage: DDIT3 (GADD153/CHOP), GADD45A, GADD45B, GADD45G, HMOX1, MAPK1 (ERK2), TP53.
Oxidative Stress: CRYAB, DDIT3 (GADD153/CHOP), DUSP1 (PTPN16), EGFR, FOS, HMOX1, NOS3, JUN, TAT, TPM4.
Regulation of Translation: AKT1, CALR, HSPB1 (HSP27), MAPK1 (ERK2), ZFP36L1.
Mitochondrial Organization: AKT1, HSP90AA1, HSPA4 (HSP70), JUN, MAP3K1 (MEKK1), NOS3, PCK2, TP53.
Cytoskeleton Organization: CALR, CRYAB, EDN1, MAP3K1 (MEKK1), PTK2, VIM.
Apoptosis: AKT1, IL1B, MAPK8 (JNK1), NFKBIA (IκBa/MAD3), PAK2, SGK1, VEGFA.
Cell Cycle: AKT1, IL1B.
Adhesion: AGT, CD9, CTGF, EGFR, IL1B, IL8, ITGB1, TNF.
Transcription Factors: AKR1B1 (NFAT5), ATF4, DDIT3 (GADD153/CHOP), EGR1, EGR3, FOS, JUN, NFAT5, PAX2, SNAI1, TP53, ZFP36L1.
Others: LTB, MAP2K2 (MEK2), ODC1, PDIA4, PLAT (tPA), SRC, TGFA.