

<b>Human EGF / PDGF Signaling PCR Array</b>
<u>Epidermal Growth Factor Receptor Signaling Pathway:</u> BCAR1, CBL, EGF, EGFR, EPS8, GAB1, GRB2, HBEGF, NCK2, NUP62, RPS6KA5, SHC1.
<u>Platelet-Derived Growth Factor Receptor Signaling Pathway:</u> BCAR1, PDGFA, PDGFB, PDGFRA, PLAT.
<b>Intracellular Signaling Molecules:</b>
<u>AKT Signaling Pathway:</u> AKT1, AKT2, AKT3, BAD, CASP9, CHUK, FASLG, FOXO3, NFKB1, PTEN.
<u>Erk1 / Erk2 MAPK Signaling Pathway:</u> EGFR, ELK1, GRB2, MAP2K1, MAPK1, MAPK3, MKNK1, PDGFRA, RAF1, RPS6KA5, SHC1, SRC, STAT3.
<u>IκB Kinase / NFκB Cascade:</u> CHUK, FASLG, GSK3A, GSK3B, NUP62, RHOA, STAT1.
<u>JAK / STAT Cascade:</u> EPS8, GAB1, GRB2, JAK1, NUP62, PPP2CA, SRC, STAT1, STAT3, STAT5A.
<u>JNK Cascade:</u> MAP2K4, MAP3K2, MAPK10, MAPK8, MAPK9.
<u>MAPKKK Cascade:</u> DUSP1, DUSP6, EGF, EGFR, MAP2K1, MAP2K7, MAPK1, MAPK10, MAPK3, MAPK8, MAPK9, PPP2CA, PRKCA, SHC1.
<u>PI3K / Phosphoinositide 3-kinase Cascade:</u> PIK3CA, PIK3R1, PIK3R2, PTEN.
<u>Small GTPase Mediated Signal Transduction:</u> GRB2, HRAS, NRAS, NUP62, RAP1A, RASA1, RHOA.
<u>Other Intracellular Signaling Molecules:</u> ARAF, BRAF, CBL, CSNK2A1, CSNK2B, IKBKB, NCK2, PDPK1, PLCG1, RPS6KB1.
<b>Cell Survival and Growth:</b>
<u>Apoptosis:</u> AKT1, BAD, BCAR1, BCL2, BRAF, CASP3, CASP9, FASLG, FOXO3, IL2, LTA, MAPK1, NFKB1, NUP62, PIK3R2, PPP2CA, PRKCA, PTEN, RAF1, RASA1, STAT1, TP53.
<u>Cell Cycle:</u> BCL2, CCND1, DUSP1, DUSP6, EGFR, HRAS, KRAS, MAPK1, MAPK3, NRAS, PDGFA, PDGFB, PPP2CA, PRKCA, PTEN, RAP1A, SHC1, STAT1, TP53.
<u>Cell Differentiation:</u> FOXO3, IL2, PPP2CA, TP53.
<u>Cell Growth:</u> BCAR1, CCND1, EGF, HBEGF, IL2, PDGFA, PDGFB, PDGFRA, PPP2CA, RASA1, SHC1, TP53.
<u>Cell Motility:</u> ACTR2, BCAR1, EGFR, FN1, HBEGF, MAP2K1, MAPK8, PTEN, STAT3.
<u>Cell Proliferation:</u> BCAR1, BCL2, EGF, EGFR, EPS8, GAB1, HBEGF, IL2, NCK2, NUP62, PDGFA, PDGFB, PDGFRA, PTEN, RAF1, SHC1, TP53.
<b>Metabolism</b>
<u>DNA Metabolism:</u> ATF1, ATF2, CREB1, EGF, EGFR, FOS, NUP62, PPP2CA, TP53.
<u>Lipid Metabolism:</u> ARAF, BRAF, PIK3R1, PLCG1, PPP2CA, PRKCA, PTEN, RAF1, SHC1.

<u>Protein Metabolism:</u> ACTR2, AKT1, AKT2, AKT3, ARAF, ATR1, ATR2, BRAF, CDE, CTOR, CREB1, CSNK2A1, DUSP1, DUSP6, EGFR, FOS, GSK3A, GSK3B, IKBKB, JAK1, MAP2K1, MAP2K4, MAP2K7, MAP2K9, MARK1, MARK10, MARK3, MARK6, MARK9
<u>Other Genes Related to Metabolism:</u> COL1A1, EIF4E, FN1, MMP7, RASA1.
<u>Development:</u> BRAF, COL1A1, HBEGF, PTEN, RASA1, STAT3.
<u>Response to Stimulus:</u>



Response to Other Stimuli: AKT1, CHUK, COL1A1, DUSP1, EGFR, FASLG, FOS, KRAS, LTA, MA  
**Transcription Factors and Regulators:** AKT1, ATF1, ATF2, CBL, CREB1, EGR1, EIF4E, ELK1, FO  
**Actin and Calcium Ion Homeostasis:** ACTR2, BCAR1, CBL, EGF, EGFR, MMP7, NCK2, PDPK1, F







P2K1, MAP2K7, MAPK1,  
S, FOXO3, IKBKB, JUN,  
'LCG1, PRKCA, RASA1,