



Human Breast Cancer Signaling Primer Library

Catalog No: HBRCA-1
Supplier: RealTimePrimers
Lot No: XXXXX
Supplied as: solid
Stability: store at -20°C

Description

Contains 88 primer sets directed against breast cancer signaling 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:

- ABL1 c-abl oncogene 1, non-receptor tyrosine kinase
- AHR aryl hydrocarbon receptor
- AKT1 v-akt murine thymoma viral oncogene homolog 1
- ANXA1 annexin A1
- ARAF v-raf murine sarcoma 3611 viral oncogene homolog
- ATM ataxia telangiectasia mutated
- ATR ataxia telangiectasia and Rad3 related
- BACH1 BTB and CNC homology 1, basic leucine zipper transcription factor 1
- BAD BCL2-associated agonist of cell death
- BARD1 BRCA1 associated RING domain 1
- BCL2 B-cell CLL/lymphoma 2
- BLM Bloom syndrome, RecQ helicase-like
- BMPR1A bone morphogenetic protein receptor, type IA
- BMPR2 bone morphogenetic protein receptor, type II (serine/threonine kinase)
- BRAF v-raf murine sarcoma viral oncogene homolog B1
- BRCA1 breast cancer 1, early onset
- BRCA2 breast cancer 2, early onset
- CDH1 cadherin 1, type 1, E-cadherin (epithelial)
- CDK2 cyclin-dependent kinase 2
- CDK4 cyclin-dependent kinase 4
- CDK7 cyclin-dependent kinase 7
- CERK ceramide kinase
- CREB1 cAMP responsive element binding protein 1
- CSNK1D casein kinase 1, delta
- DAG1 dystroglycan 1 (dystrophin-associated glycoprotein 1)
- DCAKD dephospho-CoA kinase domain containing
- DHTKD1 dehydrogenase E1 and transketolase domain containing 1
- EDAR ectodysplasin A receptor
- EGFR epidermal growth factor receptor
- EP300 E1A binding protein p300
- ERBB2 V-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)
- ESR1 estrogen receptor 1
- FADD Fas (TNFRSF6)-associated via death domain
- FER fer (fps/fes related) tyrosine kinase
- FOXO1 forkhead box O1
- GDI1 GDP dissociation inhibitor 1
- GRN granulin
- GSK3A glycogen synthase kinase 3 alpha
- HDAC1 histone deacetylase 1
- IMPA1 inositol(myo)-1(or 4)-monophosphatase 1
- IRS1 insulin receptor substrate 1
- ITPKC inositol-trisphosphate 3-kinase C
- JUN jun proto-oncogene
- KRAS v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
- MAPK1 mitogen-activated protein kinase 1
- MAX MYC associated factor X
- MDM2 Mdm2 p53 binding protein homolog (mouse)
- MMP1 matrix metalloproteinase 1 (interstitial collagenase)
- MSH2 mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)
- MSH6 mutS homolog 6 (E. coli)
- MYC V-myc myelocytomatosis viral oncogene homolog (avian)
- MYT1 myelin transcription factor 1
- NAB1 NGFI-A binding protein 1 (EGR1 binding protein 1)
- NF1 neurofibromin 1
- NFKB1 nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
- NOXA1 NADPH oxidase activator 1
- NUP85 nucleoporin 85kDa



- PAK1 p21 protein (Cdc42/Rac)-activated kinase 1
- PIGR polymeric immunoglobulin receptor
- PLK1 polo-like kinase 1
- PLK3 polo-like kinase 3
- PML promyelocytic leukemia
- PTEN phosphatase and tensin homolog
- RAC1 ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
- RAD50 RAD50 homolog (*S. cerevisiae*)
- RAD51 RAD51 homolog (*S. cerevisiae*)
- RALA v-ral simian leukemia viral oncogene homolog A (ras related)
- RALGAPA1 Ral GTPase activating protein, alpha subunit 1 (catalytic)
- RAP1A RAP1A, member of RAS oncogene family
- RASGEF1A RasGEF domain family, member 1A
- RASGRP3 RAS guanyl releasing protein 3 (calcium and DAG- regulated)
- RHEB Ras homolog enriched in brain
- RHO rhodopsin
- RPP38 ribonuclease P/MRP 38kDa subunit
- SELK selenoprotein K
- SIRT1 sirtuin 1
- SMAD1 SMAD family member 1
- SMAD2 SMAD family member 2
- SMEK1 SMEK homolog 1, suppressor of mek1 (*Dictyostelium*)
- SMEK2 SMEK homolog 2, suppressor of mek1 (*Dictyostelium*)
- STAT1 signal transducer and activator of transcription 1, 91kDa
- TAB1 TGF-beta activated kinase 1/MAP3K7 binding protein 1
- TPR translocated promoter region (to activated MET oncogene)
- TRADD TNFRSF1A-associated via death domain
- TSC1 tuberous sclerosis 1
- TSC2 tuberous sclerosis 2
- VEGFA vascular endothelial growth factor A
- WEE1 WEE1 homolog (*S. pombe*)
- 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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