



## Human Melanoma Primer Library

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

### Description

Contains 88 primer sets directed against melanoma associated genes and 8 housekeeping genes. 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:

- AKT1 v-akt murine thymoma viral oncogene homolog 1
- AKT2 v-akt murine thymoma viral oncogene homolog 2
- AKT3 v-akt murine thymoma viral oncogene homolog 3
- ARID2 AT rich interactive domain 2 (ARID, RFX-like)
- ATF2 activating transcription factor 2
- BAP1 BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)
- BCL2 B-cell CLL/lymphoma 2
- BCL2A1 BCL2-related protein A1
- BRAF B-Raf proto-oncogene, serine/threonine kinase
- BUB1 BUB1 mitotic checkpoint serine/threonine kinase
- CCND1 cyclin D1
- CD63 CD63 molecule
- CDH2 cadherin 2, type 1, N-cadherin (neuronal)
- CDK4 cyclin-dependent kinase 4
- CDKN1A cyclin-dependent kinase inhibitor 1A (p21, Cip1)
- CDKN1B cyclin-dependent kinase inhibitor 1B (p27, Kip1)
- CDKN2A cyclin-dependent kinase inhibitor 2A
- CENPN centromere protein N
- CSPG4 chondroitin sulfate proteoglycan 4
- CTGF connective tissue growth factor
- CTNNB1 catenin (cadherin-associated protein), beta 1, 88kDa
- EGFR epidermal growth factor receptor
- ERBB4 erb-b2 receptor tyrosine kinase 4
- ETV1 ets variant 1
- FGF2 fibroblast growth factor 2 (basic)
- FGFR2 fibroblast growth factor receptor 2
- FN1 fibronectin 1
- FOXD1 forkhead box D1
- GDF15 growth differentiation factor 15
- GNA11 guanine nucleotide binding protein (G protein), alpha 11 (Gq class)
- GNAQ guanine nucleotide binding protein (G protein), q polypeptide
- GRIN2A glutamate receptor, ionotropic, N-methyl D-aspartate 2A
- GRM3 glutamate receptor, metabotropic 3
- HMGA2 high mobility group AT-hook 2
- IL1B interleukin 1, beta
- IL8 interleukin 8
- KIT v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog
- LGALS3 lectin, galactoside-binding, soluble, 3
- MAGEA1 melanoma antigen family A1
- MAGEA12 melanoma antigen family A12
- MAGEA3 melanoma antigen family A3
- MAP2K1 mitogen-activated protein kinase kinase 1
- MAP2K2 mitogen-activated protein kinase kinase 2
- MAP3K5 mitogen-activated protein kinase kinase kinase 5
- MAP3K9 mitogen-activated protein kinase kinase kinase 9
- MDM4 MDM4, p53 regulator
- MET MET proto-oncogene, receptor tyrosine kinase
- MITF microphthalmia-associated transcription factor
- MKI67 marker of proliferation Ki-67
- MLANA melan-A
- MMP2 matrix metalloproteinase 2
- MMP9 matrix metalloproteinase 9
- MT1A metallothionein 1A
- MT2A metallothionein 2A
- MYC v-Myc Avian Myelocytomatosis Viral Oncogene Homolog
- NCOA3 nuclear receptor coactivator 3



- NEDD9 neural precursor cell expressed, developmentally down- regulated 9
- NF1 neurofibromin 1
- NRAS neuroblastoma RAS viral (v-ras) oncogene homolog
- PAX3 paired box 3
- PHACTR1 phosphatase and actin regulator 1
- PIK3CA phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha
- PMEL premelanosome protein
- POSTN periostin, osteoblast specific factor
- PPP6C protein phosphatase 6, catalytic subunit
- PRAME preferentially associated melanoma antigen
- PREX1 phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1
- PREX2 phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2
- PTEN phosphatase and tensin homolog
- RAC1 ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
- RGS1 regulator of G-protein signaling 1
- SERPINA3 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3
- SERPINE1 serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
- SLC45A2 solute carrier family 45, member 2
- SLC45A2 solute carrier family 45, member 2
- SNX3 sorting nexin 3
- SPP1 secreted phosphoprotein 1
- SPRY4 sprouty homolog 4 (Drosophila)
- STK19 serine/threonine kinase 19
- TACC1 transforming Acidic Coiled-Coil Containing Protein 1
- TERT telomerase reverse transcriptase
- TP53 tumor protein p53
- TRIM51 tripartite Motif-Containing 51
- TRRAP transformation/transcription domain-associated protein
- TUBB4A tubulin, beta 4A class IVa
- TYR tyrosinase
- UPP1 uridine phosphorylase 1
- VEGFA vascular endothelial growth factor A
- 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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