



## Human Colon Cancer Primer Library 1

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

### Description

Contains 88 primer sets directed against colon cancer carcinogenesis related 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:

- ACVR2A activin A receptor, type IIA
- ADAM17 ADAM metallopeptidase domain 17
- AKT1 v-akt murine thymoma viral oncogene homolog 1
- ALX4 ALX homeobox 4
- APC adenomatous polyposis coli
- AXIN1 axin 1
- AXIN2 axin 2
- BGN biglycan
- BMP1 bone morphogenetic protein 1
- BMP2 bone morphogenetic protein 2
- BMP3 bone morphogenetic protein 3
- BMP4 bone morphogenetic protein 4
- BMPR1 bone morphogenetic protein receptor, type I
- BMPR2 bone morphogenetic protein receptor, type II
- BRAF B-Raf proto-oncogene, serine/threonine kinase
- CDKN2A cyclin-dependent kinase inhibitor 2A
- CDX2 caudal type homeobox 2
- CEACAM1 carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
- CEACAM5 carcinoembryonic antigen-related cell adhesion molecule 5
- CHRD chordin
- CTNNB1 catenin (cadherin-associated protein), beta 1, 88kDa
- DHH desert hedgehog
- DLL1 delta-like 1 (Drosophila)
- DLL4 delta-like 4 (Drosophila)
- DVL1 dishevelled segment polarity protein 1
- DVL2 dishevelled segment polarity protein 2
- EGFR epidermal growth factor receptor
- FAP fibroblast activation protein, alpha
- FLT1 fms-related tyrosine kinase 1
- FZD1 frizzled class receptor 1
- FZD3 frizzled class receptor 3
- GADD45B growth arrest and DNA-damage-inducible, beta
- GLI1 GLI family zinc finger 1
- GLI2 GLI family zinc finger 2
- GLI3 GLI family zinc finger 3
- GSK3B glycogen synthase kinase 3 beta
- HHAT hedgehog acyltransferase
- HLTF helicase-like transcription factor
- IGFBP7 insulin-like growth factor binding protein 7
- INHBA inhibin, beta A
- ITGA4 integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)
- JAG1 jagged 1
- JAG2 jagged 2
- KRAS Kirsten rat sarcoma viral oncogene homolog
- MAPK1 mitogen-activated protein kinase 1
- MAPK3 mitogen-activated protein kinase 3
- MAPK8 mitogen-activated protein kinase 8
- MGMT O-6-methylguanine-DNA methyltransferase
- MKI67 marker of proliferation Ki-67
- MLH1 mutL homolog 1
- MSH2 mutS homolog 2
- MSH6 mutS homolog 6
- MTOR mechanistic target of rapamycin (serine/threonine kinase)
- MYBL2 v-myb avian myeloblastosis viral oncogene homolog- like 2
- MYC v-myc avian myeloblastosis viral oncogene homolog
- NEUROG1 neurogenin 1
- NGFR nerve growth factor receptor NOG noggin
- NOTCH1 notch 1
- NOTCH2 notch 2
- PIK3CA phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha



- PMS2 PMS2 postmeiotic segregation increased 2 (*S. cerevisiae*)
- PRKCA protein kinase C, alpha
- PRKCB protein kinase C, beta
- PTCH1 patched 1
- PTCH2 patched 2
- PTEN phosphatase and tensin homolog
- RASSF2 Ras association (RalGDS/AF-6) domain family member 2
- SEPT9 septin 9
- SFRP2 secreted frizzled-related protein 2
- SLC5A8 solute carrier family 5 (sodium/monocarboxylate cotransporter), member 8
- SMAD1 SMAD family member 1
- SMAD3 SMAD family member 3
- SMAD4 SMAD family member 4
- SMO smoothened, frizzled class receptor
- SOX9 SRY (sex determining region Y)-box 9
- STAT3 signal transducer and activator of transcription 3 (acute-phase response factor)
- TGFB2 transforming growth factor, beta 2
- TGFBR2 transforming growth factor, beta receptor II (70/80kDa)
- TP53 tumor protein p53
- TYMS thymidylate synthetase
- VEGFA vascular endothelial growth factor A
- VIM vimentin
- WIF1 WNT inhibitory factor 1
- WNT1 wingless-type MMTV integration site family, member 1
- WNT3 wingless-type MMTV integration site family, member 3
- WNT4 wingless-type MMTV integration site family, member 4
- WNT5 wingless-type MMTV integration site family, member 5
- VIM vimentin
- 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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