



## Human Colon Cancer Primer Library 2

**Catalog No:** HCCP-2  
**Supplier:** RealTimePrimers  
**Lot No:** XXXXX  
**Supplied as:** solid  
**Stability:** store at -20°C

### Description

Contains 88 primer sets directed against colon cancer drug sensitivity/resistance 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:

- ABCB1 ATP-binding cassette, sub-family B (MDR/TAP), member 1
- ABCC1 ATP-binding cassette, sub-family C (CFTR/MRP), member 1
- ABCC2 ATP-binding cassette, sub-family C (CFTR/MRP), member 2
- ABCC3 ATP-binding cassette, sub-family C (CFTR/MRP), member 3
- ABCC4 ATP-binding cassette, sub-family C (CFTR/MRP), member 4
- ABCC5 ATP-binding cassette, sub-family C (CFTR/MRP), member 5
- ABCG2 ATP-binding cassette, sub-family G (WHITE), member 2 (Junior blood group)
- ARNT aryl hydrocarbon receptor nuclear translocator
- ATP7A ATPase, Cu<sup>++</sup> transporting, alpha polypeptide
- ATP7B ATPase, Cu<sup>++</sup> transporting, beta polypeptide
- BCL2 B-cell CLL/lymphoma 2
- CDA cytidine deaminase
- CES1 carboxylesterase 1
- CES2 carboxylesterase 2
- CES3 carboxylesterase 3
- CREBBP CREB binding protein
- CYP2A6 cytochrome P450, family 2, subfamily A, polypeptide 6
- CYP3A4 cytochrome P450, family 3, subfamily A, polypeptide 4
- CYP3A5 cytochrome P450, family 3, subfamily A, polypeptide 5
- DHFR dihydrofolate reductase
- DPYD dihydropyrimidine dehydrogenase
- DPYS dihydropyrimidinase
- EGFR epidermal growth factor receptor
- ERCC1 excision repair cross-complementation group 1
- FAS Fas cell surface death receptor
- FASLG Fas ligand
- FIGF c-fos induced growth factor (vascular endothelial growth factor D)
- FLT1 fms-related tyrosine kinase 1
- FLT4 fms-related tyrosine kinase 4
- FPGS foylpolylglutamate synthase
- GCLC glutamate-cysteine ligase, catalytic subunit
- GGH gamma-glutamyl hydrolase (conjugase, foylpolylgamma-glutamyl hydrolase)
- GSTA1 glutathione S-transferase alpha 1
- GSTM1 glutathione S-transferase mu 1
- GSTP1 glutathione S-transferase pi 1
- GSTT1 glutathione S-transferase theta 1
- HIF1A hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
- MLH1 mutL homolog 1
- MLH3 mutL homolog 3
- MRP1 Multidrug resistance-associated protein-1
- MRP2 Data not found
- MSH2 mutS homolog 2
- MSH3 mutS homolog 3
- MSH4 mutS homolog 4
- MSH5 mutS homolog 5
- MSH6 mutS homolog 6
- MTHFR methylenetetrahydrofolate reductase (NAD(P)H)
- NFKB1 nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
- NOS2 nitric oxide synthase 2, inducible
- NOS3 nitric oxide synthase 3 (endothelial cell)
- PARP1 poly (ADP-ribose) polymerase 1
- PIGF phosphatidylinositol glycan anchor biosynthesis, class F
- PMS1 PMS1 postmeiotic segregation increased 1 (S. cerevisiae)
- PMS2 PMS2 postmeiotic segregation increased 2 (S. cerevisiae)



- PPAT phosphoribosyl pyrophosphate amidotransferase
- RAF1 Raf-1 proto-oncogene, serine/threonine kinase
- REL V-rel reticuloendotheliosis viral oncogene homolog (avian)
- RELA v-rel avian reticuloendotheliosis viral oncogene homolog A
- RRM1 ribonucleotide reductase M1
- RRM2 ribonucleotide reductase M2
- SLC22A2 solute carrier family 22 (organic cation transporter), member 2
- SLC22A7 solute carrier family 22 (organic anion transporter), member 7
- SLC31A1 solute carrier family 31 (copper transporter), member 1
- SLCO1B1 solute carrier organic anion transporter family member 1B1
- TGFB1 transforming growth factor, beta 1
- TGFB2 transforming growth factor, beta 2
- TGFBR1 transforming growth factor, beta receptor 1
- TGFBR2 transforming growth factor, beta receptor II (70/80kDa)
- TK1 thymidine kinase 1, soluble
- TOP1 topoisomerase (DNA) I
- TOP2A topoisomerase (DNA) II alpha 170kDa
- TOP2B topoisomerase (DNA) II beta 180kDa
- TP53 tumor protein p53
- TYMP thymidine phosphorylase
- TYMS thymidylate synthetase
- UGT1A1 UDP glucuronosyltransferase 1 family, polypeptide A1
- UGT1A7 UDP glucuronosyltransferase 1 family, polypeptide A7
- UGT1A9 UDP glucuronosyltransferase 1 family, polypeptide A9
- UMPS uridine monophosphate synthetase
- UPB1 ureidopropionase, beta
- UPP1 uridine phosphorylase 1
- UPP2 uridine phosphorylase 2
- VEGFA vascular endothelial growth factor A
- VEGFB vascular endothelial growth factor B
- VEGFC vascular endothelial growth factor C
- XPA xeroderma pigmentosum, complementation group A
- XPF xeroderma pigmentosum, complementation group F
- XRCC1 X-ray repair complementing defective repair in Chinese hamster cells 1
- 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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