Top mutated genes (tier 1) of rectum cancer are (n=50):

Asia:  
KRAS (10.1826%)  
TP53 (7.5816%)  
APC (6.0874%)  
PIK3CA (2.601%)  
FBXW7 (2.3796%)  
BRAF (2.1583%)  
ATM (1.4942%)  
SMAD4 (1.3835%)  
TCF7L2 (1.3282%)  
ERBB2 (1.2175%)  
ERBB3 (1.1621%)  
FAT4 (1.0515%)  
AMER1 (0.9961%)  
NRAS (0.8854%)  
CTNNB1 (0.7748%)  
ACVR2A (0.7748%)  
AXIN2 (0.7748%)  
TGFBR2 (0.6087%)  
PTEN (0.6087%)  
PTPRT (0.5534%)  
LRP1B (0.5534%)  
NF1 (0.5534%)  
PREX2 (0.5534%)  
GNAS (0.5534%)  
CASP8 (0.5534%)  
MSH2 (0.4981%)  
SMAD2 (0.4981%)  
RNF213 (0.4427%)  
MLH1 (0.4427%)  
ZFHX3 (0.4427%)  
ERBB4 (0.4427%)  
PMS2 (0.3874%)  
TRRAP (0.3874%)  
ARID1A (0.3874%)  
KMT2C (0.3874%)  
GRIN2A (0.3874%)  
QKI (0.332%)  
FOXP1 (0.332%)  
FLT4 (0.332%)  
TP63 (0.332%)  
NTRK3 (0.332%)  
SPEN (0.332%)  
ARID2 (0.332%)  
PIK3R1 (0.332%)  
ACVR1B (0.2767%)  
EGFR (0.2767%)  
KMT2A (0.2767%)  
SETBP1 (0.2767%)  
MYH11 (0.2767%)  
CBFA2T3 (0.2214%)  
  
  
The world:  
KRAS (12.1516%)  
TP53 (11.8257%)  
APC (8.627%)  
BRAF (2.2811%)  
PIK3CA (1.9381%)  
FBXW7 (1.6036%)  
SMAD4 (1.3121%)  
ATM (0.7032%)  
TCF7L2 (1.0805%)  
NRAS (0.8404%)  
FAT4 (0.6089%)  
GNAS (0.6432%)  
AMER1 (0.5917%)  
ARID1A (0.626%)  
LRP1B (0.506%)  
CTNNB1 (0.5917%)  
FAT1 (0.3344%)  
NF1 (0.4717%)  
PTPRT (0.5488%)  
ERBB3 (0.4802%)  
PREX2 (0.4545%)  
ERBB2 (0.5145%)  
PTEN (0.4459%)  
ERBB4 (0.4545%)  
KMT2C (0.4374%)  
KMT2D (0.3773%)  
GRIN2A (0.4116%)  
BRCA2 (0.343%)  
AR (0.343%)  
ROS1 (0.3087%)  
ATRX (0.3173%)  
ARID2 (0.2744%)  
ZFHX3 (0.3173%)  
RNF43 (0.3773%)  
MED12 (0.3344%)  
SMAD2 (0.283%)  
PTPN13 (0.2744%)  
MTOR (0.3173%)  
MYO5A (0.3259%)  
KMT2A (0.2573%)  
KDR (0.3001%)  
CARD11 (0.3259%)  
AXIN2 (0.343%)  
CREBBP (0.3173%)  
ARID1B (0.3001%)  
ALK (0.2916%)  
ASXL1 (0.2744%)  
RUNX1T1 (0.3001%)  
SMARCA4 (0.2916%)  
NCOR2 (0.2744%)  
RNF213 (0.2401%)  
POLE (0.2744%)  
KIT (0.3001%)  
NOTCH1 (0.2487%)  
ACVR2A (0.2658%)  
MYH11 (0.2315%)  
TET2 (0.2573%)  
PDGFRA (0.2487%)  
CHD4 (0.2144%)  
SPEN (0.2573%)  
PIK3R1 (0.2658%)  
EGFR (0.283%)  
TRRAP (0.2058%)  
MSH2 (0.2315%)  
FLT4 (0.2744%)  
CASP8 (0.1801%)  
BCL9L (0.2144%)  
PCM1 (0.1629%)  
GPHN (0.223%)  
MAP3K1 (0.223%)  
SMAD3 (0.2573%)  
RANBP2 (0.1372%)  
MSH6 (0.223%)  
TPR (0.2144%)  
PBRM1 (0.2144%)  
PTCH1 (0.2058%)  
MET (0.1972%)  
PDE4DIP (0.1887%)  
NTRK3 (0.223%)  
CDH11 (0.1972%)  
LATS2 (0.223%)  
NCOR1 (0.2144%)  
RB1 (0.1801%)  
CDH1 (0.2144%)  
SETD2 (0.2058%)  
DICER1 (0.1544%)  
RET (0.2144%)  
B2M (0.1629%)  
MAML2 (0.223%)  
DNMT3A (0.1372%)  
LIFR (0.1629%)  
PMS2 (0.1972%)  
TET1 (0.1458%)  
BRD4 (0.2058%)  
ESR1 (0.1972%)  
PTPRB (0.1372%)  
ZNF521 (0.1801%)  
CDC73 (0.1629%)  
BCORL1 (0.1801%)  
EP300 (0.1972%)  
NOTCH2 (0.1887%)  
TERT (0.1629%)  
KDM5A (0.1887%)  
PRDM16 (0.1887%)  
TGFBR2 (0.2058%)  
GATA3 (0.1715%)  
ABL1 (0.1887%)  
ZMYM2 (0.1458%)  
NSD1 (0.1887%)  
COL1A1 (0.1715%)  
SETBP1 (0.1201%)  
TSC1 (0.1972%)  
JAK1 (0.1458%)  
RECQL4 (0.1629%)  
FGFR3 (0.1458%)  
ATR (0.1715%)  
TOP1 (0.1629%)  
KNL1 (0.1544%)  
FOXP1 (0.1887%)  
IKZF3 (0.1629%)  
MAP3K13 (0.1372%)  
FGFR1 (0.1544%)  
QKI (0.1544%)  
SF3B1 (0.1115%)  
MLH1 (0.1887%)  
TSC2 (0.1715%)  
PIK3CB (0.1286%)  
FGFR2 (0.1458%)  
CDK12 (0.1544%)  
JAK2 (0.1458%)  
TRIP11 (0.1372%)  
MAP2K4 (0.1801%)  
IKZF1 (0.1715%)  
ARHGEF12 (0.1715%)  
BCL9 (0.1458%)  
CBFA2T3 (0.1029%)  
ATP2B3 (0.1201%)  
CTCF (0.1458%)  
RBM10 (0.1715%)  
BCOR (0.1544%)  
CIC (0.1629%)  
NTRK1 (0.1629%)  
HLA-A (0.1201%)  
ERCC2 (0.1458%)  
AFF3 (0.1544%)  
NRG1 (0.1201%)  
XPO1 (0.1115%)  
CYLD (0.0943%)  
PPFIBP1 (0.1115%)  
TP63 (0.1629%)  
PTPRC (0.1115%)  
FLT3 (0.1372%)  
STAG2 (0.1372%)  
AXIN1 (0.1458%)  
KDM6A (0.1372%)  
GAS7 (0.1544%)  
NR4A3 (0.1029%)  
ETV1 (0.1201%)  
POLQ (0.1201%)  
IRS4 (0.1201%)  
CIITA (0.1544%)  
AFF1 (0.1544%)  
ACVR1B (0.1115%)  
BRCA1 (0.1029%)  
RUNX1 (0.1029%)  
UBR5 (0.1458%)  
KDM5C (0.1286%)  
DDR2 (0.1201%)  
NUMA1 (0.1286%)  
COL2A1 (0.1286%)  
FANCA (0.1458%)  
PRDM1 (0.1201%)  
NBN (0.1115%)  
CBLB (0.1286%)  
NUP214 (0.1201%)  
TSHR (0.1286%)  
NIN (0.1029%)  
FLI1 (0.1115%)  
SFRP4 (0.1372%)  
LRIG3 (0.1286%)  
MAP2K1 (0.1201%)  
CLTCL1 (0.0943%)  
AKT2 (0.1372%)  
PTPRK (0.1029%)  
SMO (0.1115%)  
AFDN (0.1201%)  
STRN (0.1286%)  
PALB2 (0.1029%)  
TBX3 (0.1029%)  
CAMTA1 (0.1201%)  
PML (0.1286%)  
SDHA (0.1029%)  
ETV5 (0.0858%)  
MPL (0.0686%)  
MITF (0.1201%)  
FUBP1 (0.1115%)  
XPC (0.1201%)  
KAT6B (0.1115%)  
BCR (0.0772%)  
LATS1 (0.1029%)  
SLC34A2 (0.1029%)  
JUN (0.1115%)  
TCF3 (0.1029%)  
PDGFRB (0.1201%)  
NSD3 (0.0686%)  
EBF1 (0.1115%)  
CACNA1D (0.0943%)  
CSF3R (0.1201%)  
USP6 (0.0858%)  
ZBTB16 (0.0858%)  
ETV6 (0.1201%)  
POLD1 (0.0943%)  
CNTRL (0.0858%)  
CLTC (0.0772%)  
DROSHA (0.1029%)  
RBM15 (0.0858%)  
CBL (0.0858%)  
TENT5C (0.0943%)  
IL6ST (0.1029%)  
EZH2 (0.1115%)  
TNFAIP3 (0.0858%)  
SUZ12 (0.1115%)  
NF2 (0.1115%)  
IL21R (0.1029%)  
MN1 (0.1115%)  
FANCG (0.06%)  
RAP1GDS1 (0.0943%)  
FANCD2 (0.1029%)  
CDKN2A (0.1029%)  
STK11 (0.1115%)  
JAK3 (0.1115%)  
DNM2 (0.0858%)  
NUP98 (0.0686%)  
ZNF331 (0.0858%)  
TCF12 (0.0858%)  
ERG (0.0772%)  
CHEK2 (0.0943%)  
NFE2L2 (0.0858%)  
ARHGAP35 (0.0686%)  
IL7R (0.0858%)  
ATP1A1 (0.0686%)  
CUX1 (0.1029%)  
BIRC3 (0.0772%)  
CRTC3 (0.1029%)  
SALL4 (0.0858%)  
FGFR4 (0.1029%)  
ERCC5 (0.0686%)  
MYC (0.0858%)  
PPP2R1A (0.0858%)  
NSD2 (0.0858%)  
PPM1D (0.0772%)  
PAX5 (0.0772%)  
SND1 (0.0943%)  
DCTN1 (0.0943%)  
RAD21 (0.0772%)  
EPS15 (0.0943%)  
KAT6A (0.0772%)  
CXCR4 (0.0772%)  
BCL6 (0.0515%)  
BRIP1 (0.0686%)  
GPC3 (0.0858%)  
RARA (0.0943%)  
MEN1 (0.0943%)  
NFKB2 (0.0943%)  
TMPRSS2 (0.0772%)  
NUTM1 (0.0772%)  
RHOA (0.0772%)  
CDKN1B (0.0943%)  
LASP1 (0.0515%)  
SYK (0.0772%)  
IDH1 (0.0858%)  
TRIM27 (0.0772%)  
LZTR1 (0.0772%)  
MYB (0.0858%)  
FCRL4 (0.0858%)  
TPM3 (0.0858%)  
ITK (0.06%)  
REL (0.0772%)  
GNAQ (0.0858%)  
SMARCB1 (0.0858%)  
ERCC4 (0.0858%)  
TCEA1 (0.0772%)  
SS18L1 (0.0772%)  
PAX3 (0.0772%)  
TRIM33 (0.0772%)  
NT5C2 (0.0772%)  
AKT1 (0.0858%)  
TRIM24 (0.0772%)  
BLM (0.0772%)  
BMPR1A (0.0515%)  
FBXO11 (0.06%)  
AFF4 (0.0686%)  
ERC1 (0.0772%)  
GATA2 (0.0772%)  
FGFR1OP (0.0772%)  
BCL11B (0.06%)  
MYH9 (0.0772%)  
PHOX2B (0.0772%)  
WT1 (0.0772%)  
TNFRSF14 (0.0772%)  
HIP1 (0.0772%)  
FUS (0.0772%)  
U2AF1 (0.06%)  
PTPN11 (0.06%)  
MLLT10 (0.06%)  
DDX10 (0.06%)  
RAF1 (0.0686%)  
MUTYH (0.0686%)  
FANCC (0.0686%)  
HIF1A (0.06%)  
PAX7 (0.0686%)  
TLX1 (0.0686%)  
MYOD1 (0.0686%)  
BARD1 (0.0686%)  
ARNT (0.06%)  
PRKACA (0.06%)  
ACSL3 (0.0515%)  
BCL11A (0.0686%)  
PLCG1 (0.0686%)  
CREB3L1 (0.0686%)  
GNA11 (0.06%)  
FOXA1 (0.0686%)  
HNF1A (0.0686%)  
PLAG1 (0.06%)  
PAX8 (0.0686%)  
NDRG1 (0.0515%)  
MRTFA (0.0686%)  
LMO1 (0.0343%)  
EML4 (0.0515%)  
KIF5B (0.06%)  
ABL2 (0.0515%)  
RABEP1 (0.0515%)  
IKBKB (0.06%)  
IDH2 (0.0343%)  
KEAP1 (0.06%)  
ASPSCR1 (0.06%)  
CRLF2 (0.06%)  
NFATC2 (0.06%)  
FOXO3 (0.0515%)  
CARS (0.0515%)  
ACVR1 (0.0515%)  
ERCC3 (0.06%)  
CCNE1 (0.0515%)  
PATZ1 (0.0515%)  
MSN (0.06%)  
ELF4 (0.06%)  
CNOT3 (0.06%)  
MAP2K2 (0.0429%)  
CDX2 (0.06%)  
MYCN (0.0515%)  
LMNA (0.06%)  
NKX2-1 (0.06%)  
ATIC (0.0515%)  
STAT3 (0.06%)  
PER1 (0.06%)  
TRAF7 (0.06%)  
HRAS (0.06%)  
FLCN (0.06%)  
NCOA1 (0.0429%)  
BUB1B (0.0515%)  
MDM4 (0.0515%)  
HEY1 (0.0515%)  
TAL1 (0.0515%)  
TBL1XR1 (0.0429%)  
CLIP1 (0.0515%)  
SOX2 (0.0515%)  
WDCP (0.0515%)  
HOXC13 (0.0515%)  
RSPO2 (0.0515%)  
PDGFB (0.0515%)  
EIF4A2 (0.0515%)  
STAT5B (0.0515%)  
DAXX (0.0429%)  
FOXO4 (0.0515%)  
SSX1 (0.0429%)  
PRKAR1A (0.0515%)  
FCGR2B (0.0515%)  
HSP90AA1 (0.0429%)  
NPM1 (0.0515%)  
BCL3 (0.0343%)  
EXT1 (0.0515%)  
SH2B3 (0.0515%)  
TFE3 (0.0515%)  
LEF1 (0.0515%)  
RPL10 (0.0429%)  
FH (0.0515%)  
TCL1A (0.0515%)  
FIP1L1 (0.0429%)  
TFEB (0.0429%)  
RPL5 (0.0429%)  
APOBEC3B (0.0257%)  
ACKR3 (0.0429%)  
CDK4 (0.0343%)  
ZNF384 (0.0343%)  
HSP90AB1 (0.0343%)  
TNFRSF17 (0.0429%)  
CREB1 (0.0343%)  
MAF (0.0429%)  
SFPQ (0.0429%)  
BCL2 (0.0429%)  
KLF6 (0.0343%)  
ARHGAP26 (0.0429%)  
RSPO3 (0.0429%)  
SRC (0.0429%)  
NCOA2 (0.0429%)  
EXT2 (0.0343%)  
WRN (0.0429%)  
OLIG2 (0.0429%)  
PTK6 (0.0429%)  
CD79A (0.0429%)  
YWHAE (0.0429%)  
HLF (0.0429%)  
BAP1 (0.0429%)  
EWSR1 (0.0429%)  
CANT1 (0.0429%)  
CDK6 (0.0429%)  
IRF4 (0.0429%)  
STAT6 (0.0429%)  
KLF4 (0.0429%)  
FOXL2 (0.0343%)  
POU5F1 (0.0343%)  
PRF1 (0.0429%)  
EPAS1 (0.0343%)  
CRTC1 (0.0343%)  
ABI1 (0.0429%)  
MDM2 (0.0429%)  
NAB2 (0.0429%)  
MLLT3 (0.0343%)  
SDHC (0.0343%)  
MECOM (0.0343%)  
KTN1 (0.0343%)  
GOPC (0.0343%)  
MYCL (0.0343%)  
EZR (0.0343%)  
WAS (0.0343%)  
CREB3L2 (0.0257%)  
MAPK1 (0.0343%)  
PPP6C (0.0257%)  
SPOP (0.0343%)  
TMEM127 (0.0343%)  
NFIB (0.0343%)  
DDB2 (0.0343%)  
NFKBIE (0.0343%)  
P2RY8 (0.0343%)  
HOOK3 (0.0343%)  
GATA1 (0.0343%)  
FAS (0.0257%)  
PBX1 (0.0343%)  
HMGA2 (0.0343%)  
POT1 (0.0343%)  
CCND1 (0.0343%)  
KCNJ5 (0.0257%)  
CALR (0.0343%)  
SUFU (0.0343%)  
PIM1 (0.0343%)  
USP8 (0.0343%)  
DDIT3 (0.0343%)  
SRSF3 (0.0257%)  
RHOH (0.0257%)  
WWTR1 (0.0257%)  
BRD3 (0.0257%)  
SET (0.0172%)  
FHIT (0.0257%)  
SDHD (0.0257%)  
STIL (0.0257%)  
TPM4 (0.0257%)  
GOLGA5 (0.0257%)  
FANCF (0.0257%)  
BTK (0.0257%)  
HOXD13 (0.0257%)  
SMARCE1 (0.0257%)  
SH3GL1 (0.0257%)  
BCL7A (0.0257%)  
SDHB (0.0257%)  
TLX3 (0.0257%)  
PRCC (0.0257%)  
TFG (0.0257%)  
PAFAH1B2 (0.0257%)  
MLF1 (0.0257%)  
BAX (0.0257%)  
CD79B (0.0257%)  
RPN1 (0.0257%)  
HOXC11 (0.0257%)  
ATF1 (0.0257%)  
MALT1 (0.0257%)  
SDC4 (0.0257%)  
ETNK1 (0.0257%)  
ZRSR2 (0.0257%)  
PSIP1 (0.0257%)  
MSI2 (0.0257%)  
CNBP (0.0172%)  
HOXD11 (0.0172%)  
WIF1 (0.0172%)  
PICALM (0.0172%)  
DDX5 (0.0086%)  
MLLT1 (0.0172%)  
MYD88 (0.0172%)  
H3F3A (0.0172%)  
PHF6 (0.0172%)  
CBLC (0.0172%)  
NONO (0.0172%)  
FES (0.0172%)  
FOXO1 (0.0172%)  
LPP (0.0172%)  
LYL1 (0.0172%)  
CCDC6 (0.0172%)  
DDX3X (0.0172%)  
CCNB1IP1 (0.0172%)  
SIX1 (0.0172%)  
MAX (0.0172%)  
CCND3 (0.0172%)  
BCL10 (0.0172%)  
SOCS1 (0.0172%)  
HERPUD1 (0.0172%)  
DNAJB1 (0.0172%)  
CD274 (0.0172%)  
MAFB (0.0172%)  
VHL (0.0172%)  
HIST1H4I (0.0172%)  
HNRNPA2B1 (0.0172%)  
LCK (0.0172%)  
HIST1H3B (0.0172%)  
ELL (0.0172%)  
SLC45A3 (0.0172%)  
POU2AF1 (0.0172%)  
SRSF2 (0.0172%)  
TAL2 (0.0172%)  
RAD51B (0.0172%)  
MUC1 (0.0086%)  
CHCHD7 (0.0086%)  
PPARG (0.0086%)  
MLLT11 (0.0086%)  
ELK4 (0.0086%)  
RPL22 (0.0086%)  
RMI2 (0.0086%)  
NUTM2D (0.0086%)  
FANCE (0.0086%)  
RAC1 (0.0086%)  
HOXA13 (0.0086%)  
CD74 (0.0086%)  
FSTL3 (0.0086%)  
FEV (0.0086%)  
XPA (0.0086%)  
BTG1 (0.0086%)  
PDCD1LG2 (0.0086%)  
CBFB (0.0086%)  
PRRX1 (0.0086%)  
DEK (0.0086%)  
H3F3B (0.0086%)  
LMO2 (0.0086%)  
DDX6 (0.0086%)  
EIF3E (0.0086%)