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

Asia:  
PIK3CA (34.876%)  
MED12 (13.8017%)  
TP53 (9.3388%)  
ESR1 (2.314%)  
RARA (2.2314%)  
KMT2D (1.8182%)  
SETD2 (1.7355%)  
BRCA1 (1.6529%)  
KMT2C (1.5702%)  
GATA3 (1.4876%)  
MAP3K1 (1.405%)  
AKT1 (1.2397%)  
KRAS (1.0744%)  
ERBB2 (1.0744%)  
RB1 (0.9091%)  
CDH1 (0.8264%)  
PTEN (0.7438%)  
STK11 (0.7438%)  
KIT (0.6612%)  
EGFR (0.5785%)  
TET2 (0.4959%)  
MLH1 (0.4959%)  
ERBB4 (0.4959%)  
ATM (0.4959%)  
NF1 (0.4132%)  
ERBB3 (0.4132%)  
NOTCH2 (0.4132%)  
CDK12 (0.3306%)  
CHD4 (0.3306%)  
BCOR (0.3306%)  
TBX3 (0.3306%)  
RUNX1 (0.3306%)  
FANCD2 (0.3306%)  
NCOR1 (0.3306%)  
FAT1 (0.3306%)  
ALK (0.3306%)  
PBRM1 (0.3306%)  
ROS1 (0.2479%)  
PDGFRB (0.2479%)  
CHEK2 (0.2479%)  
SMAD4 (0.2479%)  
NSD1 (0.2479%)  
CREBBP (0.2479%)  
KAT6B (0.2479%)  
NOTCH1 (0.2479%)  
JAK3 (0.2479%)  
MYH9 (0.1653%)  
JAK2 (0.1653%)  
TPR (0.1653%)  
BRIP1 (0.0826%)  
  
  
The world:  
PIK3CA (9.1795%)  
TP53 (7.2666%)  
LRP1B (0.7548%)  
CDH1 (1.7255%)  
ZFHX3 (0.7251%)  
ESR1 (1.4244%)  
PTPRT (0.6385%)  
ERBB4 (0.7303%)  
KMT2C (1.3197%)  
GATA3 (1.4748%)  
MED12 (1.4089%)  
MAP3K1 (1.025%)  
FHIT (0.5209%)  
ALK (0.6269%)  
PTEN (0.8918%)  
CAMTA1 (0.5041%)  
GRIN2A (0.5726%)  
NF1 (0.7639%)  
AFF3 (0.4705%)  
ERBB2 (0.7484%)  
ARID1A (0.7277%)  
LPP (0.411%)  
AKT1 (0.751%)  
RUNX1 (0.6178%)  
PREX2 (0.4433%)  
NCOR1 (0.6049%)  
ARID1B (0.5403%)  
FOXP1 (0.4149%)  
ATRX (0.4433%)  
EBF1 (0.3787%)  
NTRK3 (0.3968%)  
RAD51B (0.3774%)  
GPC3 (0.3464%)  
PRDM16 (0.3684%)  
KMT2D (0.5403%)  
PTPRK (0.3503%)  
TBX3 (0.5196%)  
RB1 (0.4963%)  
ATM (0.5157%)  
BRCA2 (0.4976%)  
GPHN (0.3451%)  
ERC1 (0.2766%)  
EXT1 (0.3102%)  
RSPO2 (0.3193%)  
MSI2 (0.2792%)  
EGFR (0.4188%)  
NOTCH2 (0.4033%)  
CUX1 (0.3335%)  
MAP2K4 (0.4679%)  
ERG (0.3218%)  
SND1 (0.3063%)  
FAT1 (0.402%)  
SPEN (0.3761%)  
MAML2 (0.3128%)  
AR (0.3425%)  
ATR (0.3994%)  
FOXA1 (0.3916%)  
RUNX1T1 (0.3063%)  
KMT2A (0.3955%)  
ZNF521 (0.2779%)  
SETD2 (0.3205%)  
MTOR (0.3645%)  
PBX1 (0.2779%)  
STAG2 (0.3205%)  
ARHGAP26 (0.2779%)  
SETBP1 (0.2676%)  
CREBBP (0.3451%)  
KDM6A (0.3089%)  
ROS1 (0.3283%)  
BRCA1 (0.3451%)  
NCOA2 (0.265%)  
PIK3R1 (0.3348%)  
NSD1 (0.3102%)  
TP63 (0.2779%)  
BRIP1 (0.2676%)  
NRG1 (0.2391%)  
ERBB3 (0.3257%)  
APC (0.3063%)  
RNF213 (0.2624%)  
ARID2 (0.2999%)  
UBR5 (0.274%)  
FAT4 (0.2688%)  
PDE4DIP (0.2546%)  
ETV6 (0.2288%)  
CACNA1D (0.2378%)  
CBFB (0.3063%)  
MET (0.2714%)  
JAK1 (0.2598%)  
BRAF (0.2882%)  
NCOR2 (0.2805%)  
DDR2 (0.2663%)  
GNAQ (0.2327%)  
CARD11 (0.2533%)  
PTPN13 (0.2236%)  
NOTCH1 (0.265%)  
GAS7 (0.2327%)  
FBXW7 (0.2611%)  
KIT (0.2469%)  
TCF12 (0.2159%)  
TET1 (0.2314%)  
PTPRB (0.19%)  
NCOA1 (0.2146%)  
MLLT10 (0.199%)  
KAT6B (0.2314%)  
MLLT3 (0.2016%)  
HIP1 (0.2081%)  
CTCF (0.2443%)  
SF3B1 (0.2352%)  
CDC73 (0.2042%)  
JAK2 (0.2275%)  
TCF7L2 (0.2081%)  
TSHR (0.19%)  
CDK12 (0.1913%)  
PAX5 (0.2055%)  
MAP3K13 (0.212%)  
EP300 (0.2159%)  
MYH11 (0.2068%)  
NSD3 (0.1409%)  
NFIB (0.1874%)  
SMARCA4 (0.2288%)  
PDGFRA (0.2249%)  
PTPRC (0.1926%)  
FGFR2 (0.2081%)  
PBRM1 (0.2029%)  
IKZF1 (0.2055%)  
KAT6A (0.1706%)  
FANCC (0.1952%)  
CDK6 (0.1926%)  
IKZF3 (0.137%)  
PIK3CB (0.1978%)  
MITF (0.1771%)  
TET2 (0.2042%)  
MYO5A (0.1784%)  
DNMT3A (0.2003%)  
DDX10 (0.1784%)  
NFATC2 (0.1732%)  
RET (0.1797%)  
KRAS (0.2094%)  
ABL2 (0.1616%)  
WWTR1 (0.1551%)  
AFF1 (0.1706%)  
MYH9 (0.19%)  
CBLB (0.1667%)  
TRRAP (0.1926%)  
SMAD4 (0.1874%)  
CDH11 (0.1603%)  
FLT4 (0.1848%)  
PTCH1 (0.1797%)  
ZBTB16 (0.1564%)  
BCL2 (0.1486%)  
PPFIBP1 (0.1642%)  
CLIP1 (0.1667%)  
KDM5A (0.1758%)  
POLE (0.1719%)  
ABL1 (0.1771%)  
TSC2 (0.1822%)  
TBL1XR1 (0.1551%)  
ASXL1 (0.1784%)  
AFDN (0.1577%)  
SPOP (0.137%)  
POLQ (0.1538%)  
BCOR (0.1654%)  
BLM (0.1693%)  
PRRX1 (0.1551%)  
DROSHA (0.1486%)  
RARA (0.1448%)  
EXT2 (0.1448%)  
FLT3 (0.1525%)  
NUP98 (0.1551%)  
KDR (0.1499%)  
QKI (0.1383%)  
EPS15 (0.1473%)  
FLI1 (0.1409%)  
FGFR1 (0.1616%)  
RAP1GDS1 (0.1435%)  
FANCA (0.1422%)  
PALB2 (0.1551%)  
XPO1 (0.1525%)  
TRIM33 (0.1499%)  
GNAS (0.1499%)  
LATS2 (0.1499%)  
BMPR1A (0.1422%)  
ETV1 (0.1422%)  
SYK (0.1486%)  
CLTC (0.1267%)  
BCL9 (0.1357%)  
ACVR1 (0.1383%)  
TRIM24 (0.1422%)  
MEN1 (0.1538%)  
ARHGEF12 (0.137%)  
SMAD2 (0.1435%)  
CDKN1B (0.1461%)  
TGFBR2 (0.1461%)  
TERT (0.1486%)  
LIFR (0.1305%)  
BARD1 (0.1344%)  
PPM1D (0.1189%)  
CREB3L2 (0.1305%)  
MAP2K1 (0.1383%)  
EML4 (0.137%)  
KDM5C (0.1435%)  
TSC1 (0.1448%)  
BCR (0.1383%)  
NUMA1 (0.1228%)  
DNM2 (0.1305%)  
DICER1 (0.1318%)  
CLTCL1 (0.1202%)  
HOOK3 (0.1241%)  
ZMYM2 (0.1254%)  
SMAD3 (0.1241%)  
BCL11A (0.1241%)  
ABI1 (0.1331%)  
AXIN1 (0.1202%)  
CNTRL (0.1293%)  
HMGA2 (0.1202%)  
MSN (0.1241%)  
CCDC6 (0.1163%)  
TPR (0.1293%)  
ARHGAP35 (0.1305%)  
FANCD2 (0.1293%)  
NF2 (0.1137%)  
MAPK1 (0.1215%)  
TOP1 (0.1318%)  
ITK (0.1176%)  
PAX3 (0.115%)  
CHD4 (0.1176%)  
NIN (0.1034%)  
RBM10 (0.1267%)  
ATP2B3 (0.1241%)  
WRN (0.1163%)  
FOXO1 (0.1124%)  
MSH2 (0.1202%)  
JAK3 (0.1293%)  
EZH2 (0.128%)  
FBXO11 (0.1073%)  
EPAS1 (0.1099%)  
PLAG1 (0.1047%)  
BCL11B (0.1215%)  
FOXO3 (0.1112%)  
CBL (0.1202%)  
MSH6 (0.1202%)  
CDKN2A (0.1137%)  
ETV5 (0.1047%)  
LEF1 (0.1124%)  
RANBP2 (0.1189%)  
RAF1 (0.1228%)  
CBFA2T3 (0.0982%)  
KTN1 (0.1163%)  
NUP214 (0.1021%)  
CASP8 (0.1176%)  
HRAS (0.1137%)  
SRC (0.1008%)  
IKBKB (0.0788%)  
CHEK2 (0.1086%)  
MDM2 (0.1086%)  
NDRG1 (0.1034%)  
BTK (0.115%)  
LATS1 (0.1086%)  
BCORL1 (0.1163%)  
POT1 (0.0982%)  
MECOM (0.1112%)  
NSD2 (0.1112%)  
AMER1 (0.1124%)  
CRTC3 (0.0956%)  
WIF1 (0.0995%)  
STRN (0.1073%)  
CIC (0.1163%)  
PTPN11 (0.1047%)  
MLH1 (0.1073%)  
SUZ12 (0.1034%)  
TRIP11 (0.1008%)  
RABEP1 (0.0969%)  
STAT3 (0.1073%)  
RNF43 (0.1034%)  
STK11 (0.1086%)  
AKT2 (0.106%)  
PCM1 (0.0918%)  
KNL1 (0.1047%)  
ARNT (0.0905%)  
RHOA (0.0995%)  
ERCC4 (0.1021%)  
REL (0.0982%)  
PAX7 (0.0956%)  
FGFR4 (0.1086%)  
SUFU (0.0995%)  
WT1 (0.0982%)  
NTRK1 (0.1008%)  
CRTC1 (0.0905%)  
NFE2L2 (0.1047%)  
PDGFRB (0.1047%)  
SMO (0.1034%)  
POLD1 (0.0956%)  
AXIN2 (0.0892%)  
NBN (0.0944%)  
PPP2R1A (0.0969%)  
BRD4 (0.0982%)  
BAP1 (0.0969%)  
ELL (0.084%)  
FIP1L1 (0.0866%)  
AFF4 (0.0905%)  
PRDM1 (0.0918%)  
ACVR2A (0.0944%)  
ERCC5 (0.0956%)  
PMS2 (0.0879%)  
RSPO3 (0.0827%)  
RECQL4 (0.0956%)  
USP8 (0.0801%)  
MRTFA (0.084%)  
USP6 (0.0788%)  
CCND2 (0.0866%)  
NT5C2 (0.0763%)  
HSP90AA1 (0.0879%)  
IL21R (0.0814%)  
PICALM (0.0814%)  
SS18 (0.0776%)  
ELF4 (0.084%)  
CTNNB1 (0.0866%)  
ERCC3 (0.0866%)  
PLCG1 (0.0827%)  
HNF1A (0.0827%)  
BCL6 (0.0814%)  
FCRL4 (0.0776%)  
SDHC (0.0724%)  
LASP1 (0.0685%)  
SDHA (0.0685%)  
PPARG (0.0788%)  
PAX8 (0.0763%)  
IL6ST (0.0724%)  
RAD21 (0.0763%)  
SMARCB1 (0.0763%)  
HIST1H3B (0.0763%)  
EIF3E (0.0698%)  
COL1A1 (0.0569%)  
ACSL3 (0.0685%)  
IDH1 (0.075%)  
BUB1B (0.0698%)  
PHF6 (0.0659%)  
EZR (0.0685%)  
DAXX (0.0763%)  
ACVR1B (0.0737%)  
PRCC (0.0698%)  
HLF (0.0478%)  
CARS (0.0672%)  
KEAP1 (0.0672%)  
MDM4 (0.0698%)  
PRKAR1A (0.0698%)  
ZRSR2 (0.0646%)  
PDCD1LG2 (0.0672%)  
MYB (0.0698%)  
KLF4 (0.0711%)  
ERCC2 (0.0685%)  
IRF4 (0.0685%)  
EIF4A2 (0.0672%)  
MALT1 (0.0698%)  
MPL (0.0698%)  
HIF1A (0.0646%)  
ETNK1 (0.0633%)  
STAT5B (0.0659%)  
TPM3 (0.0633%)  
MN1 (0.0633%)  
BRD3 (0.0582%)  
PPP6C (0.0595%)  
CREB1 (0.0646%)  
FGFR1OP (0.053%)  
TMPRSS2 (0.0607%)  
FGFR3 (0.0607%)  
IL7R (0.0633%)  
SH2B3 (0.0659%)  
TRAF7 (0.0607%)  
CIITA (0.0607%)  
LRIG3 (0.0607%)  
STIL (0.0556%)  
DDX3X (0.053%)  
PSIP1 (0.0569%)  
CYLD (0.0569%)  
ZNF331 (0.053%)  
IRS4 (0.0569%)  
GATA1 (0.0607%)  
SS18L1 (0.0504%)  
TFEB (0.0452%)  
SDHB (0.0607%)  
GNA11 (0.0478%)  
XPC (0.0569%)  
FH (0.053%)  
CREB3L1 (0.0478%)  
KIF5B (0.0517%)  
ASPSCR1 (0.053%)  
PML (0.0556%)  
MLLT1 (0.0504%)  
NR4A3 (0.0582%)  
MAP2K2 (0.0582%)  
TNFAIP3 (0.0556%)  
TCF3 (0.0543%)  
LCK (0.0465%)  
DEK (0.0491%)  
TFE3 (0.053%)  
TCEA1 (0.0491%)  
IDH2 (0.0504%)  
TFG (0.0504%)  
COL2A1 (0.0504%)  
RHOH (0.0491%)  
GOPC (0.0517%)  
JUN (0.0504%)  
CCND1 (0.0491%)  
NPM1 (0.0491%)  
CSF3R (0.0504%)  
GATA2 (0.0452%)  
ATF1 (0.0427%)  
HLA-A (0.0439%)  
FLCN (0.0478%)  
SMARCE1 (0.0401%)  
NRAS (0.0478%)  
EWSR1 (0.0452%)  
HNRNPA2B1 (0.0401%)  
SALL4 (0.0439%)  
FUBP1 (0.0465%)  
LMNA (0.0439%)  
ATP1A1 (0.0427%)  
CBLC (0.0439%)  
SRSF2 (0.0349%)  
STAT6 (0.0401%)  
SLC45A3 (0.0452%)  
LMO2 (0.0414%)  
ATIC (0.0414%)  
RAC1 (0.0439%)  
DDB2 (0.0427%)  
DDX5 (0.031%)  
SH3GL1 (0.0349%)  
FOXL2 (0.0388%)  
MYCN (0.0427%)  
PDGFB (0.0362%)  
MYC (0.0414%)  
PER1 (0.0349%)  
LZTR1 (0.0388%)  
CNOT3 (0.0375%)  
LMO1 (0.0349%)  
TPM4 (0.0375%)  
ZNF384 (0.0375%)  
FES (0.0388%)  
MAX (0.0375%)  
SLC34A2 (0.0375%)  
CCNE1 (0.0401%)  
GOLGA5 (0.0388%)  
VHL (0.0362%)  
TENT5C (0.0336%)  
ELK4 (0.0362%)  
RPN1 (0.0349%)  
FCGR2B (0.0362%)  
FUS (0.0375%)  
KCNJ5 (0.0362%)  
FAS (0.0323%)  
CCNB1IP1 (0.031%)  
NUTM1 (0.0349%)  
FOXO4 (0.0362%)  
HSP90AB1 (0.0349%)  
BCL9L (0.0336%)  
B2M (0.031%)  
NKX2-1 (0.0349%)  
SSX1 (0.0297%)  
CD79A (0.031%)  
CD274 (0.0297%)  
DCTN1 (0.0297%)  
TRIM27 (0.0271%)  
PATZ1 (0.031%)  
YWHAE (0.031%)  
SDC4 (0.0323%)  
CEBPA (0.0323%)  
SFPQ (0.0297%)  
CDKN2C (0.0297%)  
KDSR (0.0284%)  
MLF1 (0.031%)  
NFKBIE (0.0297%)  
CANT1 (0.031%)  
POU2AF1 (0.0284%)  
SET (0.0259%)  
BCL7A (0.0271%)  
FANCG (0.0284%)  
U2AF1 (0.0259%)  
DDX6 (0.0259%)  
H3F3A (0.0284%)  
PRKACA (0.0284%)  
NONO (0.0259%)  
MUC1 (0.0271%)  
MUTYH (0.0259%)  
FANCE (0.0259%)  
CDX2 (0.0271%)  
XPA (0.0271%)  
SOX2 (0.0271%)  
BIRC3 (0.0271%)  
WAS (0.0271%)  
H3F3B (0.0259%)  
MYCL (0.0233%)  
PHOX2B (0.0259%)  
ACKR3 (0.0246%)  
BAX (0.022%)  
CALR (0.0194%)  
CCND3 (0.0181%)  
HOXA13 (0.0194%)  
RBM15 (0.0233%)  
DNAJB1 (0.022%)  
RPL5 (0.0233%)  
SDHAF2 (0.022%)  
SFRP4 (0.0233%)  
KLK2 (0.0207%)  
PIM1 (0.0233%)  
TAL1 (0.022%)  
ETV4 (0.022%)  
APOBEC3B (0.022%)  
RPL10 (0.022%)  
KLF6 (0.0207%)  
TNFRSF14 (0.022%)  
CNBP (0.0181%)  
BCL10 (0.0207%)  
PRF1 (0.0194%)  
SRSF3 (0.0194%)  
NAB2 (0.0155%)  
BCL3 (0.0181%)  
FANCF (0.0168%)  
NFKB2 (0.0181%)  
CXCR4 (0.0181%)  
CD79B (0.0194%)  
WDCP (0.0181%)  
PAFAH1B2 (0.0194%)  
MYD88 (0.0194%)  
TMEM127 (0.0194%)  
MTCP1 (0.0181%)  
MYOD1 (0.0155%)  
CDK4 (0.0168%)  
SBDS (0.0142%)  
HERPUD1 (0.0155%)  
POU5F1 (0.0142%)  
HOXA11 (0.0155%)  
HOXC13 (0.0155%)  
TLX1 (0.0142%)  
HOXC11 (0.0155%)  
PTK6 (0.0155%)  
HOXD13 (0.0155%)  
HEY1 (0.0129%)  
MAF (0.0129%)  
IL2 (0.0142%)  
MLLT11 (0.0142%)  
MAFB (0.0142%)  
DDIT3 (0.0142%)  
RPL22 (0.0142%)  
NUTM2D (0.0142%)  
CRLF2 (0.0129%)  
P2RY8 (0.0129%)  
TCL1A (0.0103%)  
HOXA9 (0.0116%)  
FSTL3 (0.0116%)  
FEV (0.0103%)  
TNFRSF17 (0.0103%)  
SIX1 (0.0103%)  
CD74 (0.009%)  
CHCHD7 (0.0103%)  
NUTM2B (0.0103%)  
HIST1H4I (0.0103%)  
HOXD11 (0.009%)  
OLIG2 (0.0078%)  
HMGA1 (0.0078%)  
SOCS1 (0.0078%)  
BTG1 (0.0065%)  
LYL1 (0.0065%)  
RMI2 (0.0052%)  
SDHD (0.0065%)  
TAL2 (0.0052%)  
TLX3 (0.0026%)