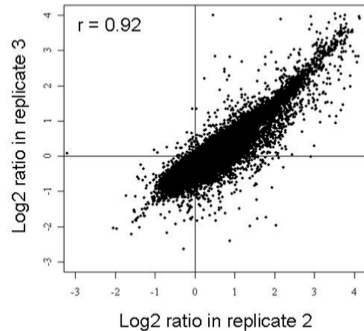
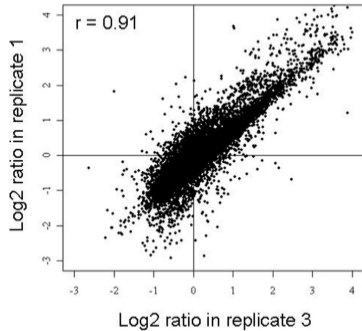
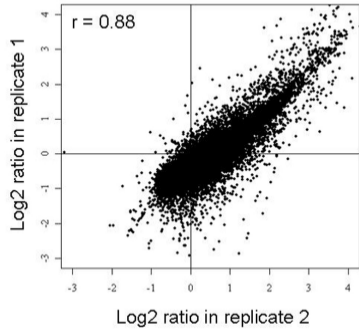


Supplemental Figure 1



Band	Region	Event	Length (bp)	Freq. in Patients	Gene
2q37.3	chr2:241,071,540-242,951,149	Gain	1,879,610	67%	ANKMY1, DUSP28, RNPEPL1, CAPN10, GPR35, AQP12B, AQP12A, KIF1A, AGXT, C2orf54, SNED1, MTERFD2, PASK, PPP1R7, ANO7, HDLBP, SEPT2, FARP2, STK25, BOK, THAP4, ATG4B, DTYMK, ING5, D2HGDH, GAL3ST2, NEU4, PDCD1, C2orf85, LOC728323
7p21.1	chr7:15,280,378-18,483,172	Gain	3,202,795	74%	TMEM195, MEOX2, LOC729920, SOSTDC1, ANKMY2, BZW2, TSPAN13, AGR2, AGR3, AHR, SNX13, PRPS1L1
8q24.3	chr8:141,602,644-146,274,826	Gain	4,672,182	67%	EIF2C2, PTK2, DENND3, SLC45A4, LOC731779, GPR20, PTP4A3, FLJ43860, NCRNA00051, TSNARE1, BAI1, ARC, JRK, PSCA, LY6K, C8orf55, SLURP1, LYPD2, LYNX1, C8orf77, LY6D, GML, CYP11B1, CYP11B2, LOC100133669, LY6E, C8orf31, LY6H, GPIHBP1, ZFP41, GLI4, ZNF696, TOP1MT, C8orf51, RHPN1, MAFA, ZC3H3, GSDMD, C8orf73, NAPRT1, EEF1D, TIGD5, PYCRL, TSTA3, ZNF623, ZNF707, BREAA2, LOC100130274, MAPK15, FAM83H, SCRIB, PUF60, NRBP2, EPPK1, PLEC1, PARP10, GRINA, SPATC1, OPLAH, EXOSC4, GPAA1, CYC1, SHARPIN, MAF1, KIAA1875, C8orf30A, HEATR7A, SCXA, SCXB, C8orf33, ZNF252, TMED10P, BOP1, HSF1, DGAT1, SCRT1, C8ORFK29, FBXL6, GPR172A, ADCK5, CPSF1, SLC39A4, VPS28, NFKBIL2, CYHR1, KIFC2, FOXH1, PPP1R16A, GPT, MFSD3, RECQL4, LRRC14, LRRC24, MGC70857, KIAA1688, ZNF251, ZNF34, RPL8, ZNF517, ZNF7, COMMD5, ZNF250, ZNF16
9q34.13-q34.3	chr9:134,847,788-140,273,252	Gain	5,425,464	70%	ADAMTS13, C9orf7, SLC2A6, TMEM8C, ADAMTSL2, BRD3, WDR5, RNU6ATAC, RXRA, COL5A1, C9orf142, CLIC3, ABCA2, FUT7, C9orf139, C9orf169, SLC34A3, TUBB2C, FAM166A, LOC441476, COBRA1, C9orf167, NRARP, EXD3, NOXA1, ENTPD8, NELF, PNPLA7, MRPL41, WDR85, FAM163B, DBH, SARDH, VAV2, NCRNA00094, FBXW5, C8G, LCN12, PTGDS, LCNL1, FCN2, FCN1, OLFM1, KIAA0649, C9orf116, GBGT1, OBP2B, ABO, SURF6, MED22, GF11B, GTF3C5, CEL, CELP, RALGDS, FAM157B, GPSM1, DNLZ, CARD9, SNAPC4, LCN15, TMEM141, KIAA1984, LOC100131193, C9orf86, LCN9, SOHLH1, KCNT1, CAMSAP1, UBAC1, LOC389813, PHPT1, MAMDC4, EDF1, TRAF2, MAN1B1, DPP7, GRIN1, LRRC26, ANAPC2, MRPS2, LCN1, OBP2A, PAEP, GLT6D1, NACC2, C9orf69, LHX3, QSOX2, LOC26102, NOTCH1, EGFL7, AGPAT2, FAM69B, SNORA43, NPDC1, ENTPD2, C9orf140, UAP1L1, LOC100289341, SDCCAG3, PMPCA, INPP5E, SEC16A, C9orf163, SNHG7, SNORA17, LCN10, LCN6, LCN8, SNORD24, RPL7A, SNORD36B, SNORD36A, SNORD36C, SSNA1, C9orf75, TMEM203, NDOR1, RNF208, SURF1, SURF2, SURF4, C9orf96, REXO4, ZMYND19, ARRDC1, C9orf37, EHMT1, FLJ40292, CACNA1B, TUBBP5

Band	Region	Event	Length (bp)	Freq. in Patients	Gene
14q32.33	chr14:103,773,136-105,306,795	Gain	1,533,659	67%	C14orf180, TMEM179, INF2, ADSSL1, SIVA1, AKT1, ZBTB42, MGC23270, KIAA0284, PLD4, AHNAK2, C14orf79, CDCA4, GPR132, JAG2, NUDT14, BTBD6, BRF1, PACS2, MTA1, CRIP2, CRIP1, C14orf80, TMEM121
16q23.3-q24.3	chr16:82,429,489-88,827,254	Gain	6,397,765	67%	BANP, ZNF469, ZFPM1, ZC3H18, IL17C, C16orf84, FAM38A, CDT1, APRT, GALNS, CDH15, ZNF778, ANKRD11, SPG7, SNORD68, CDK10, SPATA2L, C16orf7, ZNF276, FANCA, CYBA, MVD, MGC23284, SNAI3, RNF166, FOXC2, FOXL1, FBXO31, MAP1LC3B, ZCCHC14, HSDL1, LRRC50, TAF1C, ADAD2, KCNG4, IRF8, LOC732275, FOXF1, MTHFSD, FLJ30679, JPH3, LOC100129637, KLHDC4, SLC7A5, CA5A, KIAA0182, GINS2, C16orf74, COX4NB, COX4I1, MGC16385, AFG3L1, DBNDD1, C16orf3, GAS8, MLYCD, OSGIN1, NECAB2, SLC38A8, MBTPS1, RPL13, CPNE7, DPEP1, CHMP1A, C16orf55, SPIRE2, TCF25, MC1R, TUBB3, DEF8, TRAPPC2L, LOC390748, CBFA2T3, ACSF3, C16orf81, USP10, CRISPLD2, ZDHHC7, KIAA0513, FAM92B, WFDC1, ATP2C2, KIAA1609, COTL1, KLHL36, LOC100130015, PRDM7
19q13.33	chr19:55,311,801-56,374,621	Gain	1,062,820	67%	C19orf41, MYH14, KCNC3, NAPS B, NAPS A, C19orf63, JOSD2, ASPDH, LRRC4B, SNAR-F, KLK10, KLK11, KLK12, KLK13, KLK14, KLK15, KLK3, KLK2, KLKP1, KLK4, KLK5, KLK6, KLK7, KLK8, KLK9, NR1H2, POLD1, SPIB, MYBPC2, FAM71E1, SNAR-A3, SNAR-A4, SNAR-A5, SNAR-A6, SNAR-A7, SNAR-A8, SNAR-A9, SNAR-A10, SNAR-A11, SNAR-A14, SIGLEC7, SIGLECP3, SNAR-B1, SNAR-B2, SNAR-D, SNORD88B, SNORD88A, C19orf48, SNORD88C, KLK1, SYT3, SHANK1, CLEC11A, GPR32, ACPT, ATPBD3, SIGLEC9
20q13.33	chr20:59,714,262-62,435,964	Gain	2,721,702	67%	ARFGAP1, COL20A1, CHRNA4, KCNQ2, EEF1A2, C20orf11, SLC17A9, BHLHE23, NCRNA00029, HAR1B, C20orf166, SLCO4A1, LOC100127888, NTSR1, C20orf20, CDH4, TAF4, LSM14B, PSMA7, SS18L1, GMEB2, STMN3, RTEL1, TNFRSF6B, ARFRP1, GTPBP5, HRH3, OSBPL2, ADRM1, LAMA5, HAR1A, YTHDF1, BIRC7, NKAIN4, FLJ16779, OGFR, COL9A3, DPH3B, TCFL5, DIDO1, PDPF, PTK6, SRMS, C20orf195, PRIC285, RGS19, C20orf201, OPRL1, NPBWR2, MYT1, RPS21, CABLES2, C20orf151, GATA5, C20orf200, SAMD10, PRPF6, NCRNA00176, SOX18, TCEA2, TPD52L2, DNAJC5, UCKL1, UCKL1OS, ZNF512B, ZGPAT, LIME1, SLC2A4RG, ZBTB46, C20orf135, PCMTD2