

Table S4. Loci exhibiting high-level amplification or possible homozygous deletion.

Alteration	Locus	Clone name	Frequency	Candidate gene
High-level amplification *	1q31	RP11-243M13	3/72	<i>SSA2, C1orf37, COX2, CNTN2, RBBP5, MDM4, LRRN5, jun, CYP2J</i>
	5p15.2	RP11-35K22, CTD-2040C2	5/72	<i>TRIO, CTNND2, DNAH5</i>
	5p15.3	RP11-94J21, RP11-58A5	5/72	
	5p14.3-5p15.1	RP11-88L18	3/72	<i>BASP1, CDH12, MLV12</i>
	5p13.2	RP11-253B9	3/72	<i>SKP2, SLC1A3, GDNF, IL7R, CAPSL, NUP155, WDR70, AMACR, RAD1</i>
	6p21.1	RP11-91H14	4/72	<i>CDC5L, TNF, Cip1, PIM1, PPP2R5D, CCND3, HGNC, MRLP14, HSPCB, NFKBIE, EGFL, RPL7L1, TRERF1, MRPL2, BYSL, MEA1, CCK-4, SRF, VEGF, PTK7, C6orf223, TMEM63B, CAPN11</i>
	7p12	RP11-183O1, RP11-15L23	4/72	<i>EGFR, ABCA13, ERBB1</i>
	7q21.12-7q21.13	CTB-102E19, CTB-141D22	3/72	<i>CDK6, AKAP9, CYP51A1, ABCB1, ABCB4, SRI, TP53API, PGY1, HGF</i>
	7q21.2-7q21.3	CTD-2074H8, RP11-127F3	5/72	<i>SMURF1, MCM7, PEG10</i>
	7q31.2-7q31.31	CTB-185C18	3/72	<i>MET, CFTR, Wnt2</i>
	8p22	RP11-112G9	3/72	<i>CTSB</i>
	8p23.1	RP11-235I5	3/72	<i>C8orf12, C8orf13, C8orf14, C8orf49, BLK, GATA4, NEIL2, MASL1, TNKS, MFHAS1, DEFA4, DLCL1, CTSB</i>
	8q23.1	CTD-2013D21	3/72	
	8q24.1	RP11-128G18, RP11-145G10	7/72	<i>ZHX2, EXT1, ATAD2, NOV, OPG</i>

8q24.12- 8q24.2	RP11-110D15	6/72	<i>ENPP2, ZHX2, MRPL13, MTBP, SNTB, SAMD12, TRIB1, RNF139, PRO2000, SQLE, KIAA0196, HAS2</i>
8q24.2	RP11-237F24, RP11-184M21	6/72	<i>MYC, PVT1, TG, DDEF1, SLA, MLZE, DDEF1, WISP1, NDRG1</i>
10q26.1	RP11-7P17	3/72	<i>KSAM/FGFR2</i>
11p12- 11p13	RP11-90F13	5/72	<i>C11orf69, Q3C1V1, CD59, FBXO3, LMO2, CAPRIN1, LRRC4C, TRAF6, COMMMD9, TRIM44, FJX1, CD44, PDHX, APIP, PKY/HIPK3, LMO2</i>
11p14	RP11-16H3, RP11-1L12	4/72	<i>GAS2</i>
11q21	RP11-163O18	3/72	<i>MAML2</i>
11q22.2	CTD- 2039C11	3/72	<i>BIRC2, MMP1, MMP8, MMP10, MMP8, MMP13, YAP1, CASP4</i>
11q23.1	CTD- 2222B22	3/72	<i>MLL, POU2AF1</i>
17q11.2- 17q12		5/72	<i>TOP2A, GPR2, ERBB2/HER2, ZNF207, MLN62, Pip4k2<math>\beta</math>, TRAF4 CPD, LASP1, SUPT6H, POLDIP2, FLOT2, PIGS, SARMI, PCFT, TIAF1, ERAL1, SEZ6, FLJ00234, TMEM97, TP53I13, CRYBA1, DHRS13, LOC201229, GIT1, NUFIP2, PIPOX, PHF12, ALDOC, RAB34, IFT20, UNC119, NLK, C17orf63, NEK8, SLC13A2, SDF2, FLJ00295, PROCA1, DKFZp547N203, FOXN1, TLCDI, VTN, RPL23A, SPAG5, FLJ40504, LOC116236, MYO18A, UNQ419, BCOX, TNFAIP1, TAOK1, SEBOX, C17orf32, ACCN1, MLLT6</i>

17q12- 17q21	RP11-87N6	3/72	<i>PPP1R1B/DARPP32, RAPGEFL1, MLN 64/ TRAF4/ STARD3, MLN50, PPARBP/ TRAP220, GRB7, PEX12, NEUROD2, PERLD1, PLXDC1, CACNB1, RPL19, HSD17B1, THRA/ERBA1, RARA, MLN51, IGFBP4, WT4, CCR7, CDC6, ZNF144, CCL8, CCL1, CCL2, CCL11, CCL7, CCL13, AATF, TBC1D3</i>
17q21.1- 17q21.2	CTD2009O18, CTD-2094C6	5/72	<i>Keratin familys, GAST</i>
17q21- 17q22	GS-265E19	3/72	<i>SGCA, HOXB7, FLJ13855, EAP30, PHB, PPP1R9B, FHF3/RHO7, NGFR, SHCL1, NME1/NM23, NME2, GIP, ZNF147, ABCC3, RPS6KB1, ABC1, KIF2B, GOSR2, NDP52, TOMIL1, COX11, ITGA3, PPP1R9B, PDK2, MYST2, COL1A1, FAMI17A, TAC4, DLX3, TMEM92, DLX4, SAMD14, SGCA, HILS1, FLJ42842, CA10</i>
19p11- 19q11	RP11-206O6, RP11-110J19	6/72	
19q11- 19q12	RP11-152P7, CTB-25O22	8/72	<i>VCC-1, UQCRFS1,</i>
19q12- 19q13.1	RP11-46I12	6/72	<i>CCNE1, C19orf12, HPN/HEPSIN, SPINT2, Cyclin E/CCNE, CEBPA, TGFB1, BCL3, OZF, SEI-1, MLL2, ACTN4, PD2/hPaf1, AKT2, Mirk/ Dyrk1B</i>
20q12	RP11-93L19, RP11-30F23	7/72	<i>AIB1/ ACTR/ RAC3/ TRAM-1/ p/CIP/ SRC-3,</i>
20q12- 20q13.1	RP11-169A6, CTD- 2031K20	12/72	<i>SLPI, HE4, TOP1, CAS, MYBL2</i>

	20q13.1- 20q13.2	GS-236D3, RP11-172C21	11/72	<i>C20orf17, ZNF217, BCAS1, PTPN1, LOC284751, KIAA0611, ATP9A, BCAS1, CYP24, PFDN4, CSE1L, NCOA3, BMP7, RAB22A, STK4, C20orf121, BCAS4, SULF2, EYA2</i>
	20q13.2- 20q13.3	GS-32I19, RP11-1E23	6/72	<i>BTAK/STK15/STK6, TFAP2C, NABC1, GNAS, ADRM1, AURKA</i>
	Xp22.1	RP11-48D14, CTD-2033A1	3/72	
	Xp22.2	RP11-2K15, RP11-128B23	4/72	
	Xp22.3	RP4-677N1	3/72	
Homozygous deletion <sup>#</sup>	3p14	RP11-94D19	5/72	<i>PTPRG, PTPγ,</i>
	3p14.2	CTB-1O12	5/72	<i>FHIT</i>
	3p14.3	CTD- 2175D15	3/72	<i>WNT5A, TU3A</i>
	4p12-13	RP11-24G16	3/72	<i>PHOX2B, LOC401131, HUEL, UGT2B17</i>
	4p16.2	RP11-7A6	3/72	<i>DOK7</i>
	4q22	RP11-49M7	3/72	<i>UNC5C, GRID2, DRLM, LIM, ALK6, RAPI, DAPP1, MPI, TMSL3</i>
	4q28	RP11-40D5	3/72	
	5p14.3- 15.1	RP11-88L18	4/72	<i>CDH6, CDH10, NKD2, CDH18</i>
	5q11.2	RP11-22L20	3/72	<i>MEKK1, BACTIL, hMSH3, PDE4D, MAP3K1, LOC54505, GZMK, GZMA, CKN1</i>
	5q12	RP11-19I19	5/72	<i>LY64, PART-1</i>
	5q13	CTB-134O19	3/72	<i>F2RL1, F2R, RAD17, PIK3R1</i>
	8p12	RP11-57I3, RP11-210F15	3/72	<i>VDAC3, sFRP1, FRP1/FRZB, WRN, NRG1</i>
	8p21.2	RP11-76B12	3/72	<i>FEZ, DR5, NKX3, CLU, TNFRSF10B, KAI1, NKX3.1,</i>

			<i>NEFL, LPL, BNIP3L, PPP2R2A, DOCK5, RHOBTB2</i>
8p23.1	RP11-122N11	3/72	<i>DEFB105A, DEFB106A, LPTS, DLC1, PinX1, CSMD1, GATA4, FDFT1, NEIL2</i>
8p23.3	RP11-82K8	3/72	<i>DLGAP2, FBOXO25, ARHGEF10, KBTBD11</i>
8ptel	GS1-77L23	4/72	
9p21	CTB-65D18, RP11-235F7	8/72	<i>p16/INK4A/CDKN2A, p14ARF, p15/CDKN2B, 189G21T7, D9S171, TLE1, PTENP1, IFNA, MTAP, TEK, MLLT3</i>
11p15.1	RP11-56J22	3/72	<i>KIP2, BGLOB, WEE, TSG101, CDKN1C /p57KIP2</i>
16q23	RP11-61L1, RP11-284G2	5/72	<i>FOR/WWOX/WOX, WI2755/FRA16D, ADAMTS18, TERF21P, ATBF1</i>
18q12	RP11-104N11	5/72	
18q12-21	RP11-19L3	3/72	<i>NPM1P1, PIK3C3, RIT2SYT4, SETBP1, SLC14A2, SLC14A1, CD33L3, KIAA1632, PSTPIP2</i>
18q21	RP11-43K24, RP11-729G3	4/72	<i>OPC4, MBD2, ME2, ELAC1, CDH20, MALT1, GRP, FVT1, SERPINB5/PI5, SERPINB13, SERPINB4, SERPINB3</i>
18q21.1	VYSIS-DPC4?	3/72	<i>MADH4/DPC4/SMAD4, MADR2 /SMAD2/JV18-1, DCC, MADH7/SMAD7, LOC390855</i>
18q22	RP11-748M14, RP11-105L16	6/72	<i>CDH19, CADH-7, BCL2, DOK6, CD226, RTTN, CBLN2, NETO1, TMX3, CCDC102B</i>
18q22-18q23	RP11-49H23, RP11-57F7	4/72	<i>DNAM-1, CTDP1</i>
18q23	RP11-64C15, RP11-130J1	5/72	<i>SOCS6, GALR1, MBP</i>
18qtel	RP11-507P3	3/72	<i>CTDP1</i>

21q11.1- 21q11.2	RP11-31B6	4/72	<i>LIPI, RBM11, STCH, SAMSNI, NRIP1, USP25, C21orf34, CXADR, BTG3/ANA, C21orf91, CHODL, PRSS7, JAM2</i>
21q21	RP11-15H6	3/72	<i>ANA, ADAMTS5, ADAMTS1, BTG3, MIRN99A, MIRN125B2, MIRNLET7C, USP25, YG81, BIC</i>
21q22.2- 21q22.3	RP11-1P3	3/72	<i>TMPRSS2, COL6A1, DSCAM, BACE2, PLAC4</i>

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\* Log2 > 0.8. # Log2 < -0.7.