																		RA16_08-12_1 - high_conf_mutations-a	s-all_vars																				
CN_clone-4 38.1%	1361 cells, 654 features																																						
CN_clone-3 25.5%																																							
CN_clone-1 36.4%																																							
	PARP4 intron_variant STK11 intron_variant STK11 intron_variant MRE11 intron_variant MRE11 intron_variant MRE11 intron_variant SPTAN1 p.Lys2286= CDH1 intron_variant WRN intron_variant PAXIP1 p.Pro415= MTOR p.Asn999= RNF43 p.Ile47Val RICTOR intron_variant PTPRS intron_variant PTPRS intron_variant MTOR p.Gly2493= HFM1 p.Ile117Val PARP1 intron_variant RTEL1 intron_variant CARD11 intron_variant CARD11 intron_variant TP63 intron_variant TP53 intron_variant REV3L p.Arg3073= EPHA2 intron_variant TP53 intron_variant TRARP2 intron_variant	NFATC2 p.Ser118= MEN1 intron_variant ACVR2B intron_variant ACVR2B intron_variant KMT2D intron_variant FANCD2 intron_variant ARID1A p.Gln2212= CHD3 p.Pro692Leu BMPR1B intron_variant TP53 intron_variant SMAD4 intron_variant SMAD4 intron_variant KRAS p.Gly12Val TP53 p.Pro72Arg KMT2C intron_variant BRCA2 p.Leu1521= RNF111 intron_variant MEN1 p.His433= H3C8 p.Asp124= MUS81 p.Ala312= PARP4 intron_variant	MEN1 intron_variant TGFBR1 intron_variant RREB1 p.Leu474= FAT4 p.Asp717Asn TP53 p.Pro316Ser DHX9 intron_variant ATM intron_variant ARID1A p.Glu1802Lys TP53 intron_variant SMAD3 intron_variant EME1 p.Gln221= TP53 intron_variant EME1 p.Gln221= KMT2C p.Ser2330Leu AXL p.Glu524Lys KEL intron_variant BRCC3 p.Ala2=	TP53 p.Thr123lle PER1 intron_variant NOTCH2 p.Pro2180= ARID1A intron_variant GNAS p.Glu128Lys STK11 intron_variant ARID1A p.Leu1922= DAXX p.Ser697Phe RREB1 p.Trp301Ter SMO intron_variant CTNNB1 intron_variant TP53 intron_variant MGMT intron_variant ARID1A p.Asp1374Asn MARK2 intron_variant NKX2-1 intron_variant	RNF43 intron_variant DNMT3B intron_variant ARID1A intron_variant BAP1 intron_variant STK11 intron_variant PAXIP1 p.Gln474Ter PALB2 p.Thr243lle TP53 p.Leu32= DNMT3B intron_variant MLH3 intron_variant AKT2 intron_variant BAP1 intron_variant BAP1 intron_variant BAP1 intron_variant BAP3 j.Gly215Glu MAP2K4 intron_variant H3C8 3_prime_UTR_variant KAT5 intron_variant KAT5 intron_variant NFATC2 intron_variant MYC p.Glu378Lys	XRCC6 intron_variant KMT2D p.Pro4389Ser PALB2 p.Cys419=  KMT2C intron_variant RBM10 p.Lys386= INPPL1 intron_variant ARID1A p.Gln520= RBM10 p.Cys764Tyr RFC5 intron_variant AKT2 intron_variant PLCG1 p.Trp1029Ter XAB2 p.Ser851= ARID1A p.Gly1317= SACS p.Ala4424Val SMARCC1 p.Pro1012Ser MITF p.Ala43Thr POLD1 intron_variant	TGFBR1 intron_variant SMAD4 p.Met294lle BMPR1B intron_variant PLCG1 p.Met1028lle MEN1 intron_variant BMPR2 intron_variant AKT1 intron_variant SETD2 p.Ala1464Val RICTOR intron_variant BRCC3 p.Val3Met CUL5 5_prime_UTR_variant SMAD3 intron_variant SMAD3 intron_variant SMAD3 intron_variant ACVR2A 5_prime_UTR_variant FANCA intron_variant	NFATC2 p.Ser118Phe STK11 intron_variant ARID1A p.Ala2213Thr BAP1 intron_variant BRCC3 p.Ala2Thr AKT1 intron_variant ARID1B p.Asn1241Lys MCM3 p.Leu20= CDC25B intron_variant MUS81 p.Arg363His SMAD2 3_prime_UTR_variant PAXIP1 p.Gln473Ter TERT intron_variant MLH3 intron_variant TGFBR1 intron_variant	DNMT3B p.Trp158Ter SMAD3 p.Phe248Val CDC25B intron_variant RTEL1 intron_variant ERBB2 intron_variant ERCC3 intron_variant RECQL5 intron_variant MTOR p.Ile735= KMT2D p.Pro938Ser BMPR1B intron_variant AXL p.Glu524= SMO intron_variant MYC p.Gly289Asp PER1 p.Ser656del RAD17 splice_site_variant IKBKE p.Asp398Asn	TERT intron_variant EME1 intron_variant EME1 intron_variant TP53 3_prime_UTR_variant DNMT3A 3_prime_UTR_variant DNMT3A intron_variant MLH3 p.Gly561Arg PTPRT intron_variant CREBBP p.Ala1671= KMT2D intron_variant GATA6 intron_variant RPS6KB2 p.Pro129Ser RPS6KB2 p.Pro129Ser RPS6KB2 p.Pro129Ser ARID1A p.Glu1767del CTNNA2 p.Gly100Asp NCOA3 p.Gln1274Arg CDH1 intron_variant ARID1B intron_variant SMAD3 intron_variant	NCOA3 intron_variant FANCI p.Leu1294Pro BRCA2 p.Lys1888Arg PAXIP1 p.Ser919= PTEN intron_variant MAD2L2 3_prime_UTR_variant MCM3 p.Tyr19= BRCA1 p.Pro606Leu MYC p.Ser154= MLH3 p.Val560= ARID1B intron_variant BAP1 intron_variant KDM6A p.Gly674Ser TGFBR1 intron_variant BRCA2 p.Leu2277Phe KMT2D p.Pro2515Leu	SETD2 intron_variant  MET p.Glu355Gly  ARID1B p.Thr2081Ala  AURKA intron_variant  PBRM1 intron_variant  TTK intron_variant  ARID1A p.Gln1537Arg  BAP1 p.lle191=  CREBBP intron_variant  LEF1 intron_variant  ARID1B p.Gln892Arg  PRMT5 intron_variant  ARID2 p.Gln1207Arg  RNF111 intron_variant  TP53 intron_variant  BMPR1B p.Lys212=  NCOA3 intron_variant	BAP1 p.Thr423= FANCA intron_variant SRC p.Glu473= STK11 intron_variant POLQ p.Cys794Arg SETD2 p.Glu1410Lys BRCA2 p.Lys1850= MLH1 p.Thr417= HFM1 p.Ser400= KMT2C intron_variant MRE11 intron_variant SMAD4 intron_variant CARD11 p.Pro697= BMPR1B p.Thr483= RB1 p.Asn854Ser	ARID1B p.Arg2028=  KMT2E p.Glu562=  KMT2D intron_variant  BRCA2 p.Gly539Glu  RAF1 intron_variant  TGFBR1 p.Asp269ThrfsTer24  RAF1 p.Phe460Ser  PTEN p.Gln214Arg  PIK3CA p.Met1004Val  CLK2 p.Thr93=  MGMT p.Met60Val  BAP1 p.Pro235=  SPTAN1 intron_variant  DDX3X p.Lys440=  ARID1A intron_variant  MPLKIP 3 prime UTR variant	CTNNA2 p.Thr135= CDH1 splice_site_variant CDH1 p.Lys664Glu HUWE1 p.lle3944Thr ARID2 p.Ala1185= FLT1 p.Phe1239= PAXIP1 p.lle435Thr MARK2 p.Lys225AsnfsTer12 CDC25B p.Leu384= PAXIP1 p.Ser896= MARK2 p.Asn180Asp TGFBR1 p.Gln448Arg RREB1 p.Asn529Ser SMAD3 p.Asn280Asp MYC p.Gln448Arg	PARP4 p.Phe518= BRCA2 p.Ala3186= PDGFRA p.Glu408Gly MEN1 p.Gly401= NSD2 p.Lys17Arg MET p.Asn371Ser ARID1A p.Thr653Ala ATXN3 intron_variant TTK p.Lys19Arg KAT5 p.Lys427Arg BRCA2 p.Ser2988Gly MITF p.Glu115Gly RNF43 intron_variant KAT5 p.Ser254Gly	CHD4 p.Cys376= KEL intron_variant MAP2K4 p.Glu82Gly BRD4 p.Ser858Pro BMPR2 intron_variant TTK intron_variant KDM6A p.His189Arg DAXX p.Ser610Pro AKT2 intron_variant MTOR p.Phe705Ser BRCA2 p.Ala577= KMT2C intron_variant ASCC3 intron_variant ATXN3 intron_variant ATXN3 intron_variant ATXN3 intron_variant ARID1B p.Asp2050Gly ATXN3 p.Ser322= CTNND1 intron_variant	MYC p.Gln350Arg ACVR2A p.Ala449= MAD2L2 3_prime_UTR_variant PAK5 p.Gly704Cys INPPL1 intron_variant SMAD2 p.Ser296Pro INPPL1 p.Lys187Glu BAP1 p.Ser497= DAXX p.Leu555Pro BRCA2 intron_variant MITF p.Met64Val NOTCH2 p.Ala2178= BARD1 p.Ser235Pro ARID1A p.Pro1563His EPHA2 p.His233=	MARK2 intron_variant  MARK2 intron_variant  TET2 p.Pro520=  FANCA p.Ser337=  SMAD2 p.Val12Ala  MAP2K4 p.Thr261=  WRN splice_site_variant  TP53 3_prime_UTR_variant  TGFBR1 p.Lys490Arg  ARID1A p.Gln1098Arg  ARID1A p.Asn1527Ser  TCF7L2 p.Lys398Glu  BRCA2 p.Ser3094=  ARID1A p.Thr1514Ala  SPRED1 p.Asn10Asp  TP53 intron_variant  MYC n Gln350Arn	TP53 p.Leu111Pro TTK intron_variant DNMT3B p.Trp158Ter MED12 p.Asn1338Asp BAP1 p.Val603Ala MEN1 intron_variant KMT2C intron_variant ARID1B p.Phe1192Cys TP53BP1 p.Ser759Pro ARID1A p.Glu2058= ARID2 p.Gln672= SMAD2 intron_variant SMAD4 p.Gln516Arg REV1 p.Pro337= XAB2 intron_variant CTNNA2 p.Met147Val	PTPRD intron_variant POLD1 intron_variant TET2 p.Lys525= KRAS p.Cys180= TGFBR1 intron_variant PBRM1 intron_variant INHBA p.Leu387Pro CTNNB1 intron_variant PARP2 p.Asn129Ser ATF7IP p.Glu568= SMAD2 3_prime_UTR_variant BMPR2 p.Pro544= SMAD3 p.Thr247Ala ARID1B p.Tyr1420Cys SPTAN1 p.Arg2264= GATA6 intron_variant	BAP1 p.Tyr241=  MGMT p.Thr63Ala  ARID1B p.Glu2082Gly  BRCA2 p.Glu2369=  MGMT intron_variant  KAT5 p.Ser440=  AKT2 intron_variant  BMPR1B intron_variant  BRCA2 p.Lys2594Arg  MEN1 p.Ser84Pro  MTOR p.Val331Ala  FANCA intron_variant  FLT3 p.Leu198=  KMT2D p.Pro927=  MSH5 intron_variant  SPTAN1 p.Glu2278Gly  PTPRD intron_variant	SMAD3 intron_variant BRCA2 p.Arg2824Gly SMARCA4 intron_variant ACVR2A p.Arg202Gly BMPR1B p.Lys208Arg ATM p.Met1484Val AKT2 p.Leu380Pro INPPL1 intron_variant ARID1A p.Met1497Val FAT4 intron_variant ACVR2A p.Ala452Val EHMT2 intron_variant MLH1 p.Glu414Gly SMAD7 intron_variant BRCA2 p.Lys1543Arg BAP1 n Tvr241=	HFM1 p.Ser115Pro ARID1A intron_variant BRCA1 p.Ala17= SMAD4 p.Ala433= BARD1 p.Phe272Leu ARID1A p.Lys1021Arg KMT2D intron_variant PAXIP1 p.Phe939Ser ARID1A p.Gln1856Arg DNMT1 p.Val1207Ala ASCC3 intron_variant ACVR2A p.Gln76Arg KMT2C p.Phe1882=	MITF p.Thr54=  MCPH1 intron_variant PTPRT intron_variant BRCA2 p.Lys1860= BRCA2 p.Thr1483= ARID1B p.Lys2017Glu SMAD4 p.Glu33Gly MGMT intron_variant ARID1A p.Pro1563Leu BMPR1B intron_variant KMT2C p.Phe2287Ser ARHGAP35 p.Asp1080Gly BRCA2 p.Asn2814Asp H3C11 p.Gly45Ser BMPR2 p.Thr112Ala PALB2 p.Ile374Thr ARID1A p.Glu1075=	CREBBP intron_variant EP300 p.Glu1022Gly LEF1 intron_variant CARD11 p.Leu706Pro H3C8 3_prime_UTR_variant KMT2C p.Pro4028= TP53 p.Val272Ala PTPRD p.Phe1196Ser MEN1 intron_variant PRMT5 p.Phe456Ser MARK2 p.Asp207Gly RPL22 intron_variant ATF7IP p.Glu271Gly ARID1B p.Asp2062Gly BMPR1B p.Asp2043Gly BRCA2 p.Asn1778Ser	BRCA2 p.Glu3177Gly KMT2C intron_variant BMPR1B intron_variant BMPR1B intron_variant KMT2B p.Asn1869Ser BRCA2 intron_variant AURKA intron_variant TCF7L2 p.Lys405Glu MITF p.Ile48Val ARID1B p.Gln1267= TCF7L2 intron_variant SMO p.Asp287Gly SMAD3 p.Ile146Val SPTAN1 p.Gln2310Arg GNAS p.Lys151Glu SMAD3 p.Glu162=	KAT5 splice_site_variant ARID1A p.Glu2023= CARD11 p.Ser652Pro APC p.Lys1310Glu ARAF p.Gln562Arg SMAD4 p.Lys428Arg MUS81 intron_variant ARID1A p.Asn1270Asp REV1 p.Pro343= MACF1 p.Lys1146= BMPR2 p.Tyr407Cys KEL intron_variant NRAS intron_variant MEN1 p.Ser132Pro MTOR p.Leu693Ser	MUS81 p.Arg350Trp INPPL1 intron_variant GNAS p.Asp144Gly DNMT3B p.Ile168Val BRD4 p.Leu851Pro CDH1 intron_variant TP53 intron_variant ARID1B p.Pro1475Leu MLH1 intron_variant MRH1 intron_variant MARK2 p.Lys225Glu RNF111 intron_variant SMAD2 p.Ser306Pro RBM10 p.Arg765= TGFBR1 p.Ala380Thr EP300 p.Glu1013Gly	MEN1 p.Arg446= BRD4 intron_variant ARID1A p.Gln425Arg MITF p.Ser52Gly CDC25B intron_variant APC p.Asp459Gly MED12 p.Met1321Val ARID1A p.Gln1346= BAP1 p.Leu622= BRCA2 p.Lys2232Arg FGFR1 5_prime_UTR_variant ATXN3 intron_variant NOTCH2 intron_variant ARHGAP35 p.Lys1115Glu WDR48 p.Asn261Ser	CTNNA2 p.Ile155Val PARP4 p.His490Leu SMARCA4 p.Gln1187Arg EME1 p.Gln516Arg PLCG1 p.Ser1033Gly NRAS intron_variant CREBBP intron_variant SMAD2 intron_variant SCAF4 p.Phe341= GATA6 p.Ala541Thr KMT2D p.Ala1512= SMAD2 p.Val419Ala ACVR2A p.Glu271Gly AXIN1 p.Cys602Arg SMAD3 p.Asn276Asp ARID1B p.Met922Val KMT2C p.Asp2321=	ACVR2A intron_variant ACVR2B p.Ser324Gly NRAS intron_variant SMAD6 intron_variant MEN1 p.Trp436Arg MTOR intron_variant BMPR1B p.Gly211= FBXW7 intron_variant ACVR2A p.Glu253= BRD4 intron_variant BRCA2 p.Asn2553Ser ARID1A p.Lys1804Arg PTEN p.Asp252Gly SMARCA4 intron_variant FBXW7 intron_variant FBXW7 intron_variant FBXW7 intron_variant	NF1 p.Lys1942Arg KMT2C intron_variant CREBBP intron_variant CDC25B intron_variant BMPR2 intron_variant SMAD2 intron_variant TERT intron_variant BMPR1B p.Gly7= STK11 p.Asn247Ser NUP93 intron_variant GNAS p.Thr134Ala FANCA intron_variant FANCD2 p.Asn370Ser KAT5 p.Glu436Gly RNF43 p.Pro112= KMT2C intron_variant ARID1A p.Thr953Ala	MUS81 p.Thr383= MYCN p.Glu269= BRD4 intron_variant BAP1 intron_variant BRD4 intron_variant MTOR p.Met938Thr MARK2 p.Leu236= PBRM1 intron_variant MEN1 p.Asp136= ATM p.Glu2660= SLX4 p.Leu891Pro ATM p.Ile249Val CDC25B intron_variant AKT1 p.Phe88Ser PBRM1 intron_variant NF1 p.Lys1942Arg	TP53 intron_variant TTK intron_variant TP53 p.Pro390= MSH5 intron_variant BARD1 p.Val240Ala POLD1 intron_variant SMAD2 3_prime_UTR_variant ERCC3 p.Val107Ala ERBB3 p.Gln1266Arg PLCG1 p.Thr1068Ile NOTCH3 intron_variant SMAD3 p.Asn165Ser REV1 p.lle349= TP53 p.Pro142= MYC p.Arg346Gly IRF6 p.Met105Thr	H3C11 p.lle75Thr PAK5 p.Pro324= BMPR1B p.Thr245= MITF p.Thr95= MTOR p.Leu133Pro BRD4 p.Gln825Ter ATM p.Asn81Ser ARID1A p.Gln1835Arg BRCA2 p.Asn2591Ser PDGFRA p.Ser783= KMT2A p.Thr923Ala PDGFRA intron_variant MLH3 p.Ser587= MTOR p.Ala158= RNF43 p.Cys762Arg TP53 intron_variant	EPHA2 p.Arg244= NFATC2 intron_variant ATXN3 intron_variant CLK2 p.Ser132= MYC p.Asn353Ser BMPR2 p.Glu369= MYCN p.Ser287Phe BMPR2 p.Ala216= EHMT2 intron_variant MARK2 p.Glu219= MED12 p.Glu1337= ACVR2B p.Lys323Arg ARID1A p.His477Arg KMT2C p.Met1938Thr KMT2C intron_variant ARID1B p.Lys1213= H3C11 p.lle75Thr	RNF43 intron_variant CDC25B intron_variant PTPRT p.lle1102Thr SMAD4 intron_variant ACVR2A p.Ser276= FANCI intron_variant MACF1 p.Ala1142= CHEK2 intron_variant BRCA2 intron_variant BRCA2 intron_variant RREB1 p.Pro543= DNMT3B p.Pro161Ser KMT2C intron_variant RRED1 p.Gly391= NFATC2 p.Gly39= EDHA2 p.Gly89=	ERCC3 p.Ala102Thr FANCI intron_variant PRMT5 p.Phe406Leu ARID2 p.Ala940Thr KMT2D p.Asn1493= ARID1B p.Lys1217Glu AXIN2 3_prime_UTR_variant TP53 3_prime_UTR_variant PREX2 p.Asn270Ser ARID2 p.Asn661Ser KAT5 intron_variant NRAS intron_variant MYC p.Ser292= ARID1A p.Asp1826Gly SMAD3 p.Lys20Arg KMT2C p.Leu371Pro PLCG1 p.Lys1045Arg MACCE1 p.Asp1148Gly