

Table 1: Summary of CNVs present in different cancer types

Cancer type	Amplification	Deletion
Bladder Cancer	AURKA, CCND1, CCNE1, DDR2, EGFR, ERBB2, FGF3, FGF4, FGF19, FGFR1, FGFR3, MCL1, MDM2, MYC, RAF1, TERT	CDKN2A, CDKN2B, MTAP, PTEN, RB1, TP53
Brain Cancer	AKT3, CCND2, CDK4, CDK6, EGFR, KDR, KIT, MDM2, MDM4, MET, MYC, MYCN, PDGFRA, PIK3C2B	ARID5B, ATRX, CDKN2A, CDKN2B, FAT1, MTAP, NF1, PTEN, RB1
Breast Cancer	AKT3, AURKA, CCND1, CCNE1, CDK4, DDR2, EGFR, ELF3, EMSY, ERBB2, EZH2, FGF3, FGF4, FGF19, FGFR1, GNAS, MCL1, MDM2, MDM4, MYC, MYCN, PIK3C2B, RARA, RIT1, RPS6KB1, ZNF217	CDH1, CDKN2A, CDKN2B, FANCA, FAT1, MAP2K4, MTAP, PPP2R2A, RB1, TP53
Colorectal Cancer	AURKA, BRAF, BRCA2, CCND2, CCND3, EGFR, ERBB2, EZH2, FGFR1, GNAS, MET, MYC, PLCG1, SRC, TOP1, ZNF217	APC, CDKN2A, CDKN2B, FAT1, MAP2K4, PTEN, SMAD2, SMAD4
Endometrial Cancer	CCNE1, ERBB2, MCL1, MECOM, MYC, PIK3CB, RIT1	DAXX, RB1
Esophageal Cancer	AURKA, BCL6, CCND1, CCND3, CCNE1, CDK6, EGFR, ERBB2, ERBB3, FGF3, FGF4, FGF19, FOXA1, GNAS, IL7R, KRAS, MCL1, MDM2, MECOM, MYC, PIK3CA, PIK3CB, RAC1, RARA, RICTOR, TERT, TOP1, ZNF217	CDKN2A, CDKN2B, MTAP, SMAD4
Gastric Cancer	AURKA, CCND1, CCND3, CCNE1, CDK6, EGFR, ERBB2, FGF3, FGF4, FGF19, FGFR2, GNAS, IL7R, KLF5, KRAS, MECOM, MET, MYC, PIK3CA, PLCG1, RARA, RICTOR, SRC, TERT, TOP1, ZNF217	AMER1, APC, ATRX, BCOR, CDKN2A, CDKN2B, DDX3X, KDM5C, KDM6A, MTAP, PHF6, RBM10, SMAD4, STAG2, TP53, ZMYM3, ZRSR2
Gastroesophageal Junction Adenocarcinoma	AURKA, CCND1, CCND3, CCNE1, CDK6, EGFR, ERBB2, FGF3, FGF4, FGF19, FGFR1, GNAS, KRAS, MCL1, MDM2, MET, MYC, RARA, RICTOR, TOP1	CDKN2A, CDKN2B
Gastrointestinal Stromal Tumor	CCND1, EGFR, KIT, KRAS, MDM2, MYC	NF2
Head and Neck Cancer	BCL6, CCND1, EGFR, ERBB2, FGF3, FGF4, FGF19, FGFR1, MECOM, MYC, PIK3CA, TP63	CDKN2A, CDKN2B, FAT1, MTAP
Kidney Cancer	EGFR, FGFR4, FLT4, MET, NPM1, PDGFRB	CDKN2A, CDKN2B, PTEN
Liver Cancer	CCND1, DDR2, EZH2, FGF4, FGF19, MCL1, MYCN, NTRK1, RIT1, TERT, YAP1	CDKN2A, PTEN
Melanoma	BRAF, CARD11, CCND1, CDK4, EGFR, MCL1, MDM2, MITF, MYC, RAC1, RPTOR	CDKN2A, CDKN2B, MTAP, PTEN, TP53
Non-small Cell Lung Cancer	BCL6, CCND1, CCNE1, EGFR, ERBB2, EZH2, FGF3, FGF4, FGF19, FGFR1, FOXA1, IL7R, KRAS, MDM2, MECOM, MET, MCL1, MYC, MYCL, MYCN, PIK3CA, RICTOR, RIT1, ROS1, TERT	CDKN2A, CDKN2B, MTAP
Ovarian Cancer	AKT2, AKT3, BCL6, BRAF, CCND2, CCNE1, CHD4, EMSY, ERBB2, EZH2, FGF23, IL7R, KRAS, MCL1, MECOM, MEF2B, MPL, MYC, MYCL, PIK3CA, PIK3CB, PIK3R2, PRKACA, RHEB, RICTOR, RIT1, RPS6KB1, TERT	NF1, PPP2R2A, RB1
Prostate Cancer	AR, CCND1, FGF3, FGF4, FGF19, FGFR1, FOXA1, GATA2, MCL1, MDM4, MECOM, MYC	BRCA2, CDKN1B, FAS, MAP3K1, PPP2R2A, PRDM1, PTEN, RB1, TP53
Soft Tissue Sarcoma	AXL, CCNE1, CDK4, FGFR1, IL7R, MDM2, MYCN, RICTOR, TERT	CDKN2A, CDKN2B, MTAP, RB1, TP53