

Supplemental Table S1. Mutational spectra of HCT116, MCF7 and SJSa cells. Only mutations with known oncogenic potential are listed. Data from Cancer Cell Line Encyclopedia were compared with a list of known oncogenic drivers (Rubio-Perez et al. 2015) and key TP53-related mutations previously reported *(Tovar et al. 2006); *(Burri et al. 2001)).

	HCT116	MCF7	SJSa
Gene mutations (CCLE)	359	52	114
Mutations of oncogenic driver genes (Intogen)	57	8	22
MDM2*			mut.
CDKN2A**	mut.		
PIK3CA	mut.	mut.	
KRAS	mut.	mut.	
PTEN	mut.		
MLL3	mut.		
NF1	mut.		
ROBO2	mut.		mut.
KALRN	mut.		mut.
ATRX	mut.		
AKAP9	mut.		mut.
PIK3R1	mut.		mut.
IDH1	mut.		
MECOM	mut.	mut.	
BRCA2	mut.		mut.
CTNNB1	mut.		
NOTCH2			mut.
FN1	mut.		
MYH11	mut.		mut.
WNK1	mut.		
ACACA	mut.		
MAP3K1	mut.	mut.	mut.
MYH9		mut.	
FLT3	mut.		
SPTAN1	mut.		
EP300	mut.		mut.
CDH1	mut.		
GNAS	mut.		
HGF	mut.		
ARFGF1	mut.		
COL1A1	mut.		
CHD8	mut.		
ERBB3	mut.		mut.
BCL11A	mut.		
FGFR2	mut.		
CHD9	mut.		
KDM6A	mut.		
MYH10			mut.
MET	mut.	mut.	
USP6			mut.
ARHGAP29	mut.		
DICER1	mut.		
LRP6	mut.		
MLLT4	mut.		
EIF4G1			mut.
CDK12	mut.		
MKL1	mut.		mut.
MAP3K4		mut.	mut.
MLH1	mut.		
SOS1		mut.	mut.

AFF4	mut.		
PGR	mut.		
TGFBR2	mut.		
RHOA			mut.
FOXP1	mut.		mut.
PLCG1	mut.		
RFC4			mut.
FGFR1	mut.		
CHEK2	mut.		
ZMYM2	mut.		
RPL22	mut.		
CASP1	mut.		
CDC73			mut.
BMPR2	mut.		
ACVR2A	mut.		
FGFR3			mut.
SMO	mut.		
LCP1	mut.		
HSP90AA1			mut.
ADAM10	mut.		
ATIC	mut.		