Supplementary

Table S1 Definitions of class 1, 2 and 3

Class 1	Class 2	Class 3	Variation type
EGFR	*EGFR*	*EGFR*	L858R, 19del, 20ins, L861Q, S768I, G719X
ALK	*ALK*	*ALK*	Fusion
ROS1	*ROS1*	*ROS1*	Fusion
RET	*RET*	*RET*	Fusion
MET	*MET*	*MET*	Exon14 skip, amp
NTRK	*NTRK*	*NTRK*	Fusion
BRAF	*BRAF*	*BRAF*	V600X
ERBB2	*ERBB2*	*ERBB2*	20ins, amp
	KRAS	*KRAS*	G12X, G13X, Q61X
	STK11	*STK11*	Mutation
	TP53	*TP53*	Mutation in exon 4–8 or multiple mutations
		TMB	>10 mutations/Mb as TMB high, ≤10 mutations/Mb as TMB low

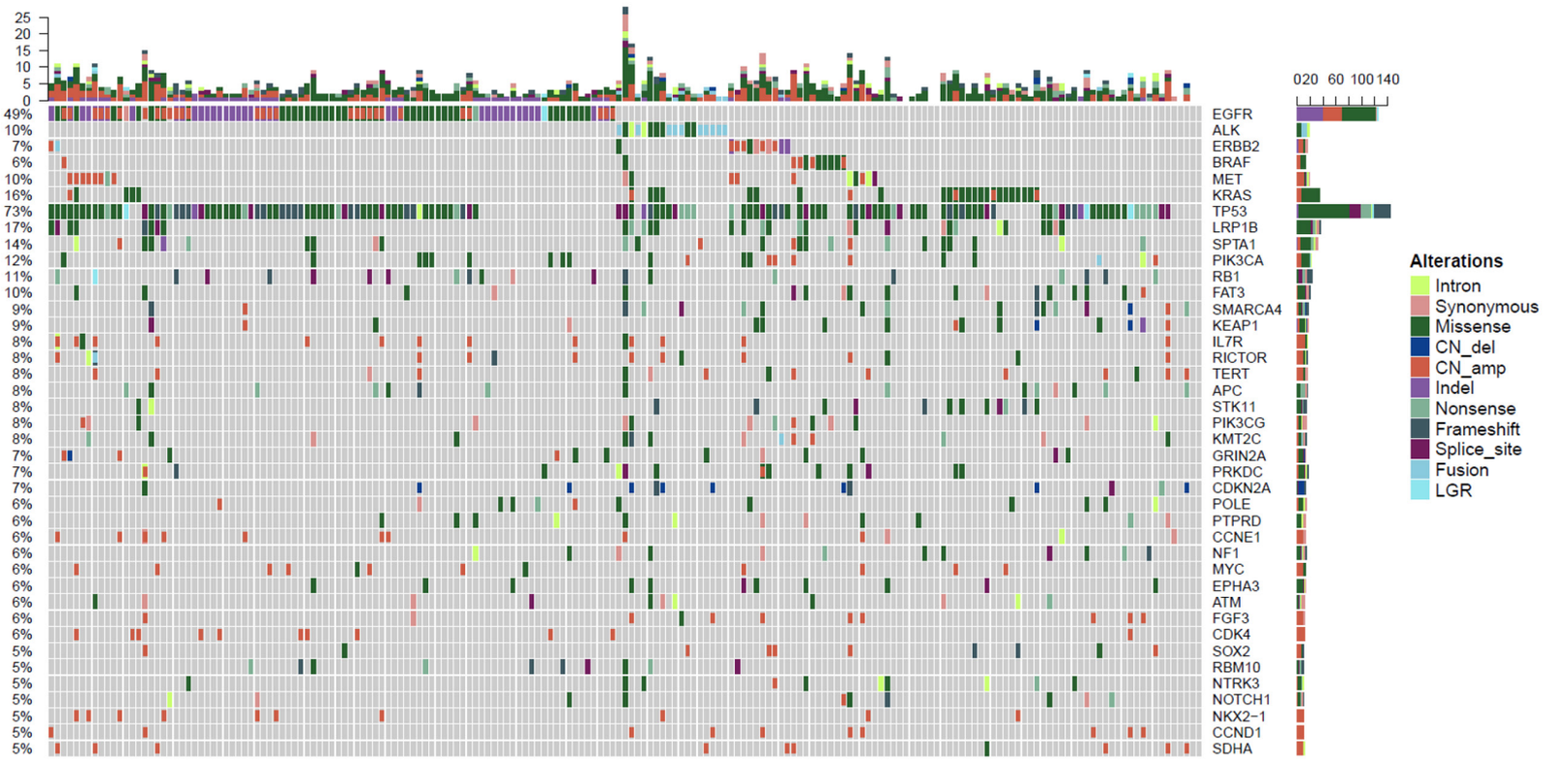

Figure S1 Genomic mutations detected from tumor tissue samples. Each column represents one patient. The total number of mutations detected in each patient were graphed on top of the Oncoprint. The genes are listed on the right. The mutation detection rate of each gene is on the left. Different colors indicate different types of alterations.

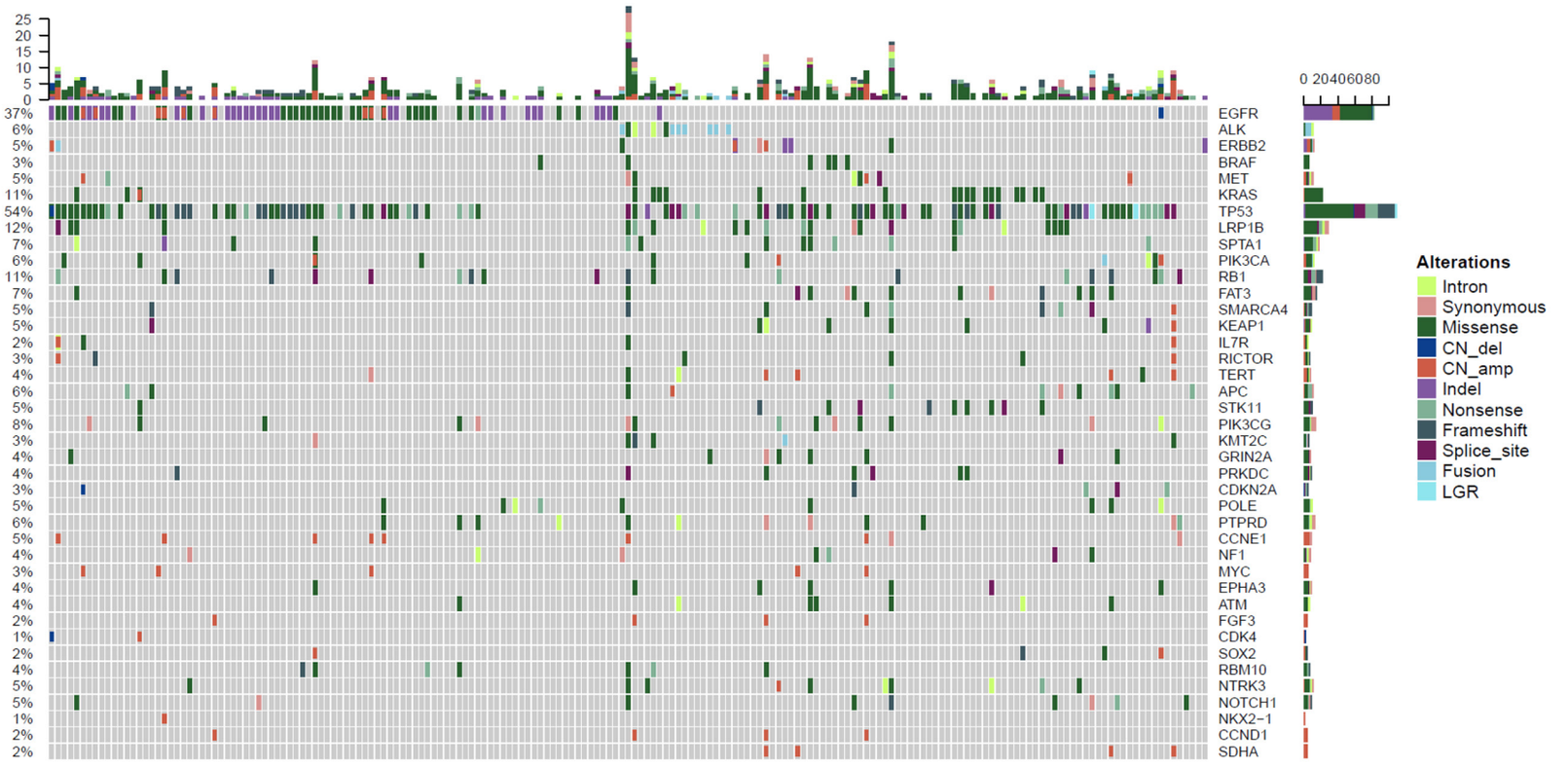

Figure S2 Genomic mutations detected from paired plasma samples. Each column represents one patient. The total number of mutations detected in each patient were graphed on top of the Oncoprint. The genes are listed on the right. The mutation detection rate of each gene is on the left. Different colors indicate different types of alterations.

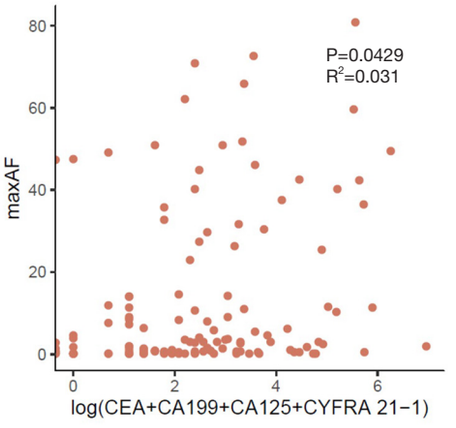

Figure S3 The correlation between plasma maximum allele fraction (maxAF) and the concentration of serum tumor markers.