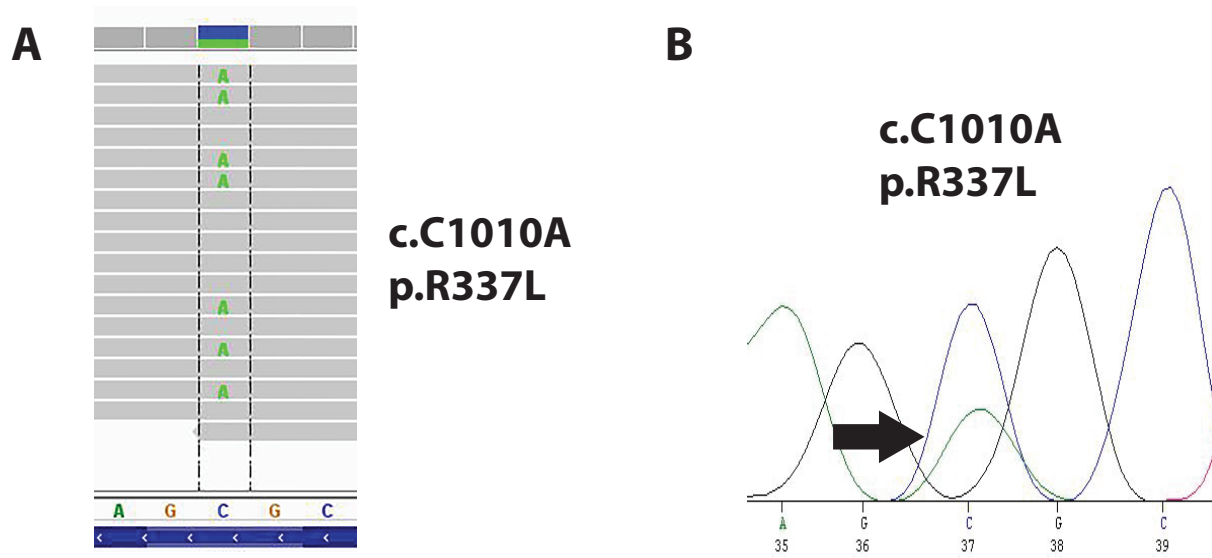


Figure S1



TP53
Chr17 : 7,574,015 - 7,574,019

Figure S2

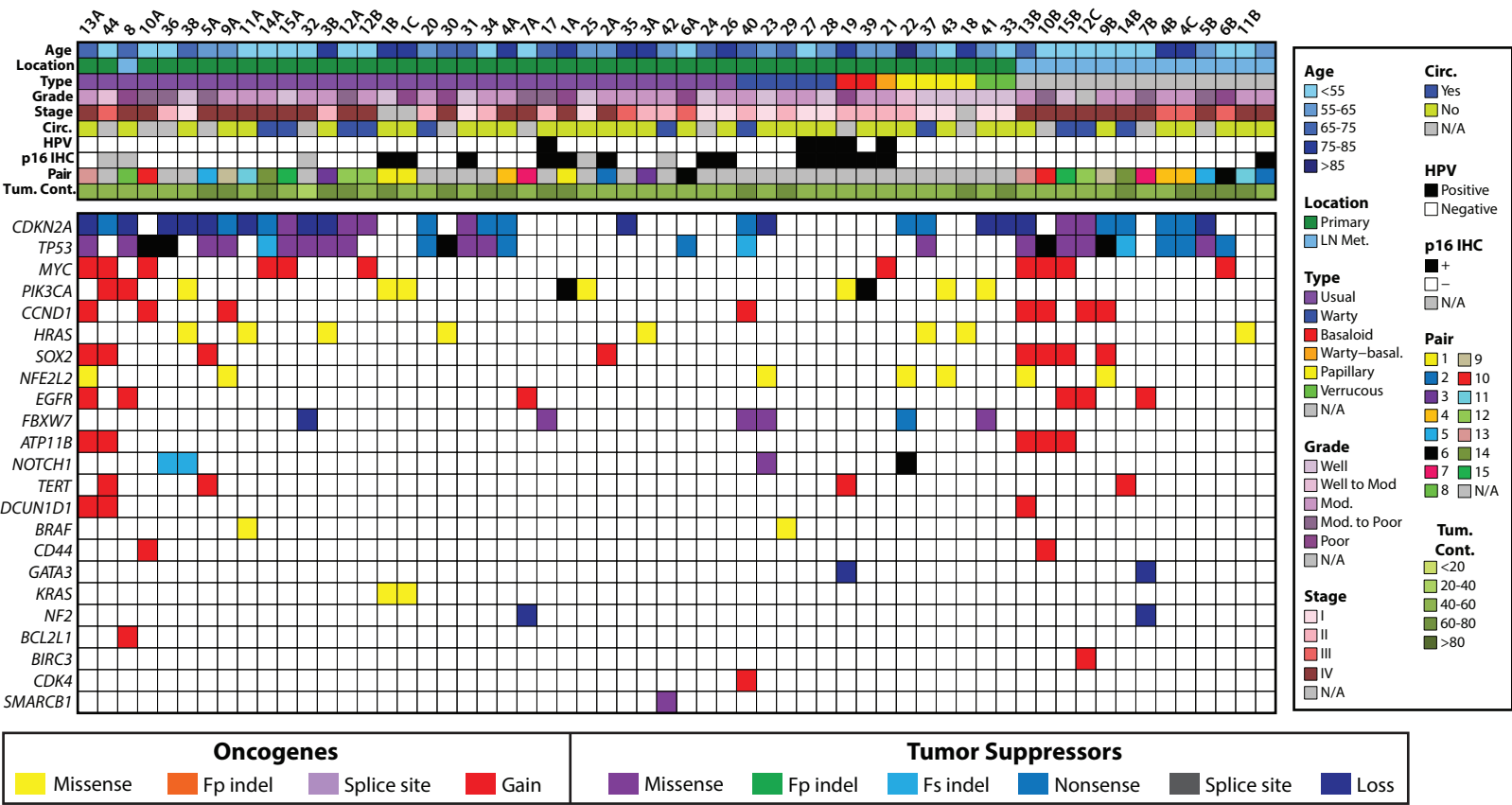
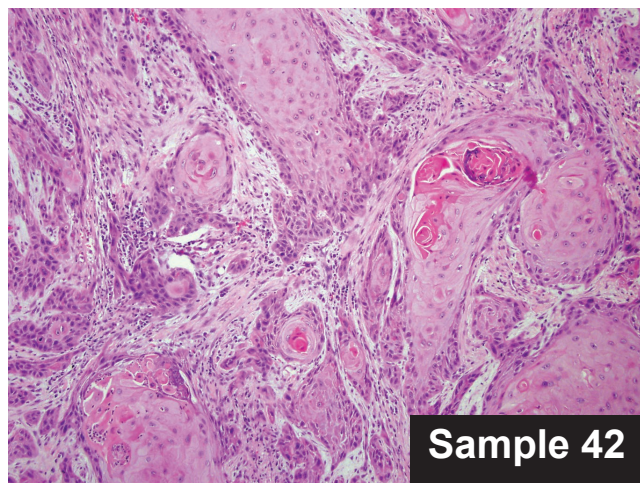
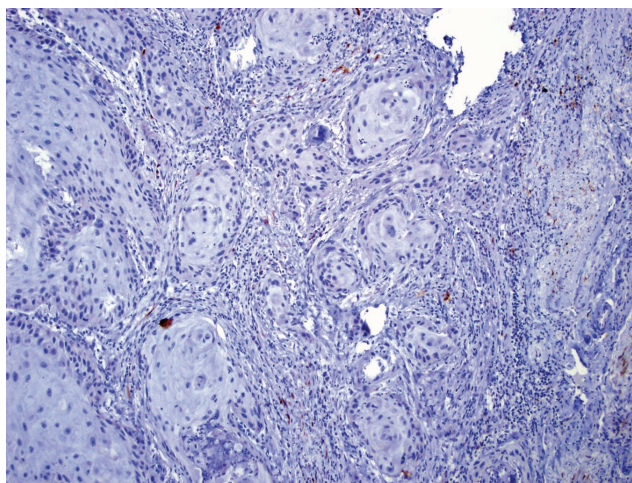


Figure S3

H&E (100x)

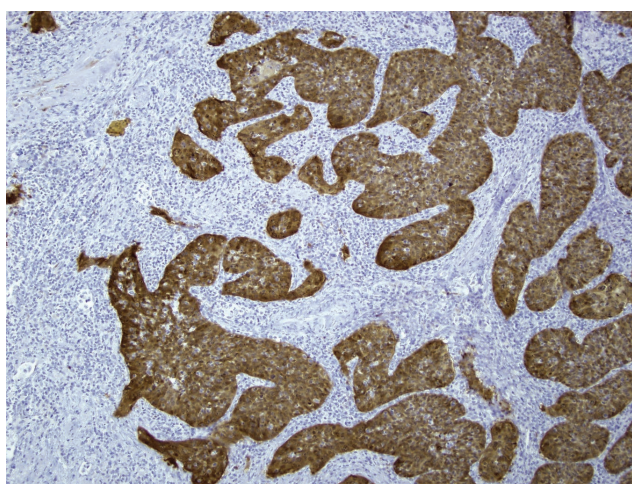
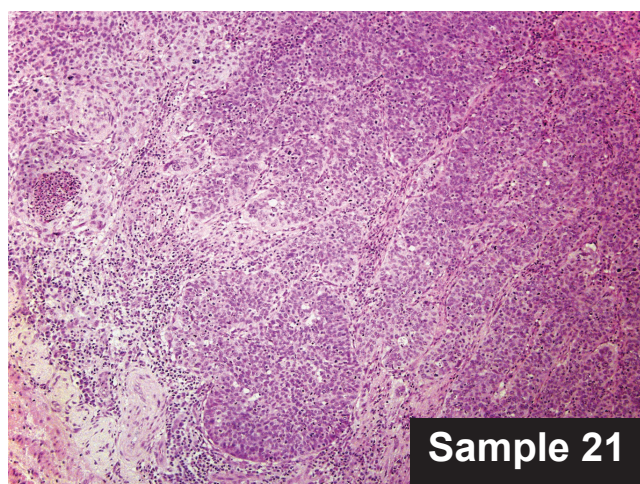


p16 IHC (100x)

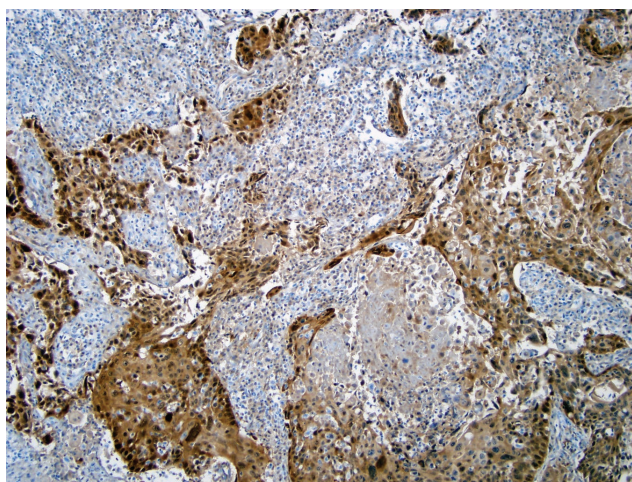
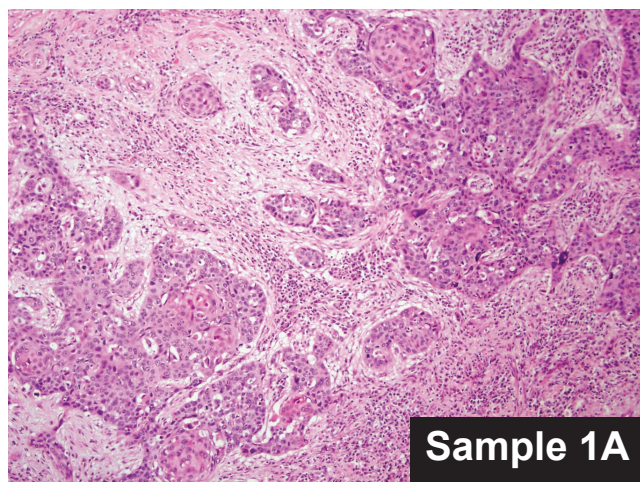


HPV status
(by PCR)

Negative



Positive



Negative

Figure S4

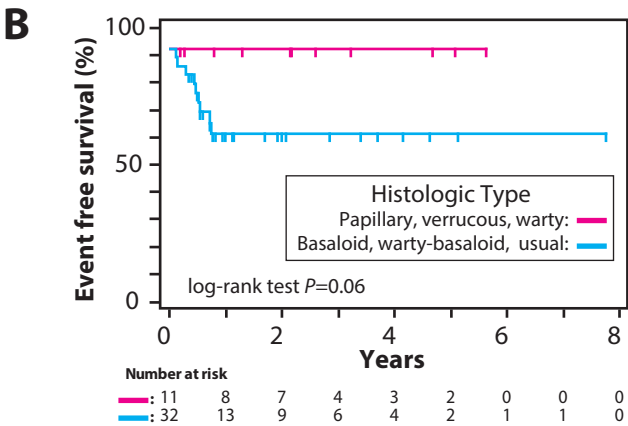
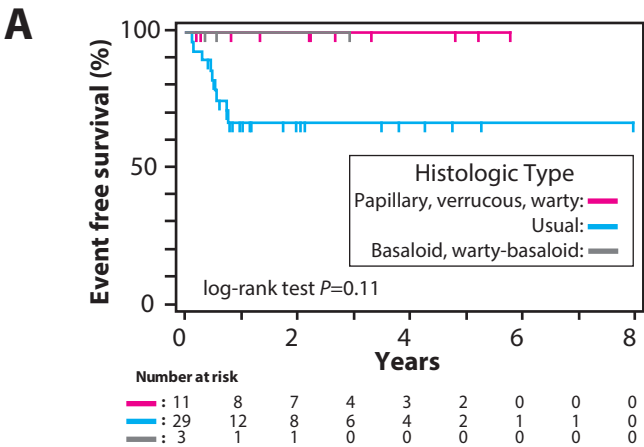
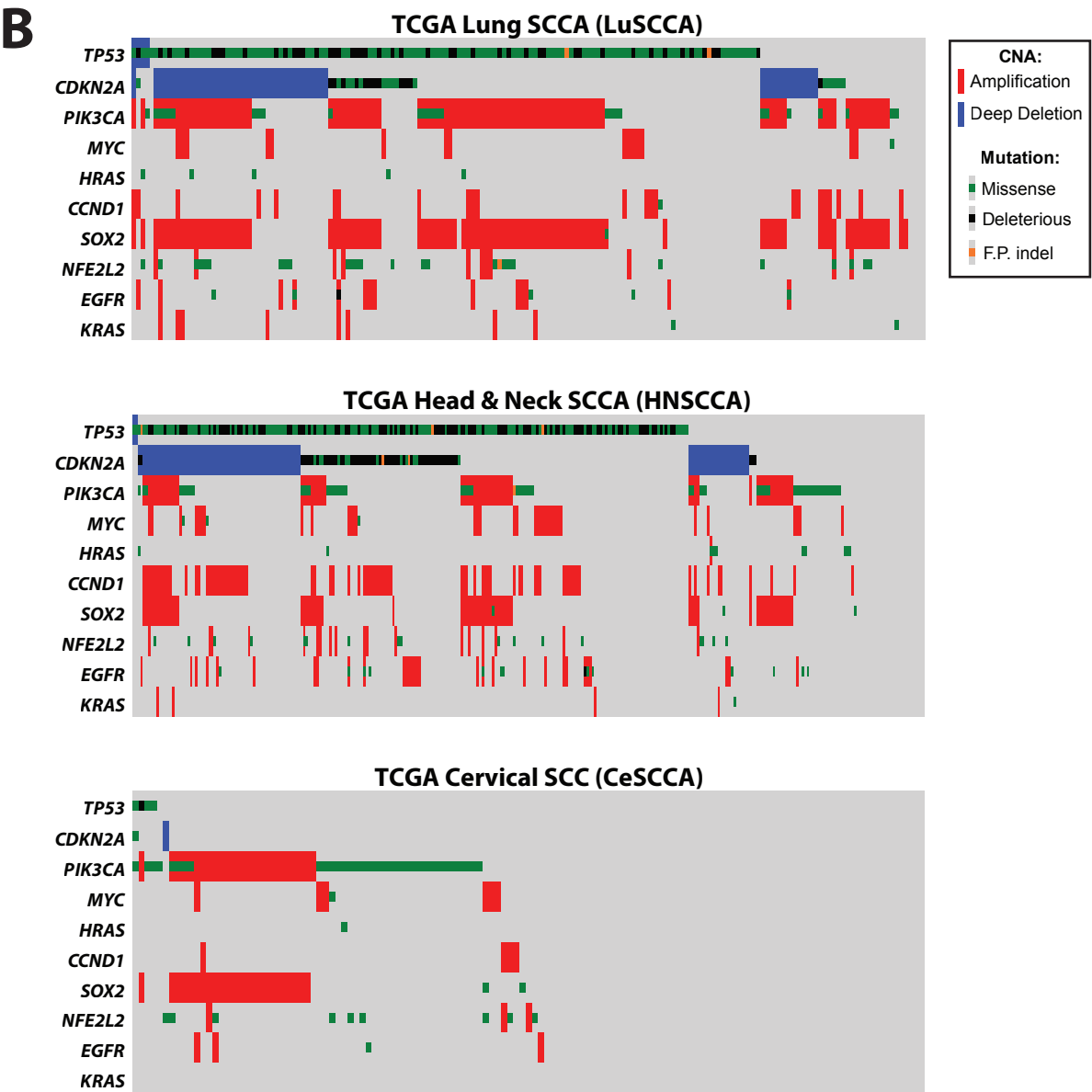


Figure S5

A

Cancer	Samples (n)	Altered (%)	P value
PeSCCA	60	87%	N/A
LuSCCA	178	98%	0.002
HNSCCA	302	92%	0.24
CeSCCA	129	52%	<0.0001



C

	PeSCCA	LuSCCA	PValue	HNSCCA	PValue	CeSCCA	PValue
<i>TP53</i>	48%	79%	<0.0001	70%	0.002	3%	<0.0001
<i>CDKN2A</i>	55%	45%	0.0018	49%	0.48	2%	<0.0001
<i>PIK3CA</i>	18%	61%	<0.0001	35%	0.01	44%	0.0006
<i>MYC</i>	18%	9%	0.06	13%	0.22	5%	0.008
<i>HRAS</i>	13%	3%	0.005	3%	0.004	1%	0.0005
<i>CCND1</i>	13%	13%	1.00	25%	0.046	3%	0.02
<i>SOX2</i>	13%	57%	<0.0001	22%	0.16	20%	0.31
<i>NFE2L2</i>	12%	20%	0.18	11%	1.00	9%	0.60
<i>EGFR</i>	10%	10%	1.00	13%	0.67	3%	0.08
<i>KRAS</i>	3%	6%	0.73	2%	0.33	0%	0.10