

Table S12 Cox regression analysis (TCGA cohort)

Variables	Univariate		Multivariate	
	HR (95% CI)	P value	HR (95% CI)	P value
Age (n=85)	1.03 (0.98-1.08)	0.2200		
Sex				
Male (n=47)	2.67 (0.92-7.73)	0.0700	4.24 (1.23-14.6)	0.0220
Female (n=38)	1.00		1	
Tumor localization				
colon (n=71)	0.35 (0.12-1.01)	0.0530	0.14 (0.03-0.60)	0.0087
rectum (n=12)	1.00		1	
TNM				
1 (n=12)	0.00 (0.00-0.00)	NA	0.00 (0.00 - 0.00)	NA
2 (n=32)	0.29 (0.07-1.13)	0.0800	0.5 (0.11-2.29)	0.3700
3 (n=31)	0.26 (0.06-1.10)	0.0700	0.28 (0.06-1.39)	0.1200
4 (n=8)	1.00			
Hypermutation				
Yes (n=15)	0.00 (0.00-0.00)	NA	0.00 (0.00-0.00)	NA
No (n=70)	1.00			
MSI				
0 (n=57)	1.00			
1 (n=13)	1.52 (0.52-4.37)	0.4500	4.24 (1.10-16.35)	0.0360
2 (n=14)	0.00 (0.00-0.00)	NA	0.00 (0.00-0.00)	NA
KRAS G12/13X				
0 (n=57)	1.00			
1 (n=28)	0.85 (0.31-2.34)	0.7600		
Prognostic mutation signature				
Yes (n=48)	0.36 (0.13-0.97)	0.0426	0.15 (0.04-0.57)	0.0048
No (n=37)	1.00		1	

Note: Variables with *P* value < 0.1 in univariate Cox analysis are kept in multivariate Cox analysis. The prognostic mutation signature includes five genes (i.e. CDH10, COL6A3, VCAN, TMEM132D, SMAD4). *P* values for TNM1, hypermutation and MSI2 are not available as all patients survived in these categories.