

Table S1 Information of the five prognosis-related genes

Gene symbol	Gene ID	Full name	Location	Function of the encoded protein
<i>CPT2</i>	1,376	Carnitine Palmitoyltransferase 2	Membrane	The protein encoded by this gene is a nuclear protein that is transported to the mitochondrial inner membrane. Together with carnitine palmitoyltransferase I, the encoded protein oxidizes long-chain fatty acids in the mitochondria. Defects in this gene are associated with mitochondrial long-chain fatty-acid oxidation disorders.
<i>ACSL6</i>	23,305	Acyl-CoA Synthetase Long-Chain Family Member 6	Membrane	The protein encoded by this gene catalyzes the formation of acyl-CoA from fatty acids, adenosine triphosphate (ATP), and coenzyme A (CoA), using magnesium as a cofactor. The encoded protein plays a major role in fatty-acid metabolism in the brain.
<i>MOCS1</i>	4,337	Molybdenum Cofactor Synthesis 1	Cytoplasm	Molybdenum cofactor biosynthesis is a conserved pathway leading to the biological activation of molybdenum. The protein encoded by this gene is involved in this pathway. This gene was originally thought to produce a bicistronic mRNA with the potential to produce two proteins (MOCS1A and MOCS1B) from adjacent open reading frames.
<i>TERT</i>	7,015	Telomerase Reverse Transcriptase	Cytoplasm	Telomerase is a ribonucleoprotein polymerase that maintains telomere ends by the addition of the telomere repeat TTAGGG. The enzyme consists of a protein component (encoded by this gene) that exhibits reverse transcriptase activity, and an RNA component that serves as a template for the telomere repeat.
<i>PTRH1</i>	138,428	Peptidyl-TRNA Hydrolase 1 Homolog	Nucleus	PTRH1 is a protein coding gene. Diseases associated with PTRH1 include vascular skin disease and pancreatic adenocarcinoma. GO annotations related to this gene include RNA binding and aminoacyl-tRNA hydrolase activity.

Table S2 Univariate and multivariate Cox regression analyses of various prognostic parameters in colon adenocarcinoma patients

Characteristics	Univariate analysis			Multivariate analysis		
	HR	95% CI	P	HR	95% CI	P
Age (years)						
<73	1			1		
≥73	1.54	1.03–2.31	0.04*	2.05	1.35–3.11	0.001*
Gender						
Female	1					
Male	1.13	0.75–1.69	0.57			
Tumor stage						
Early (I/II)	1			1		
Advanced (III/IV)	3.33	2.15–5.16	0.001*	3.46	2.21–5.43	0.001*
Risk						
High	1			1		
Low	0.42	0.28–0.65	0.001*	0.48	0.31–0.74	0.001*

CI, confidence interval; HR, hazard ratio.