

Figure S1. GO enrichment analysis revealed the mutant genes in carcinomatous elements including the genes involved in biological processes, cellular components and molecular functions. GO, Gene Ontology.

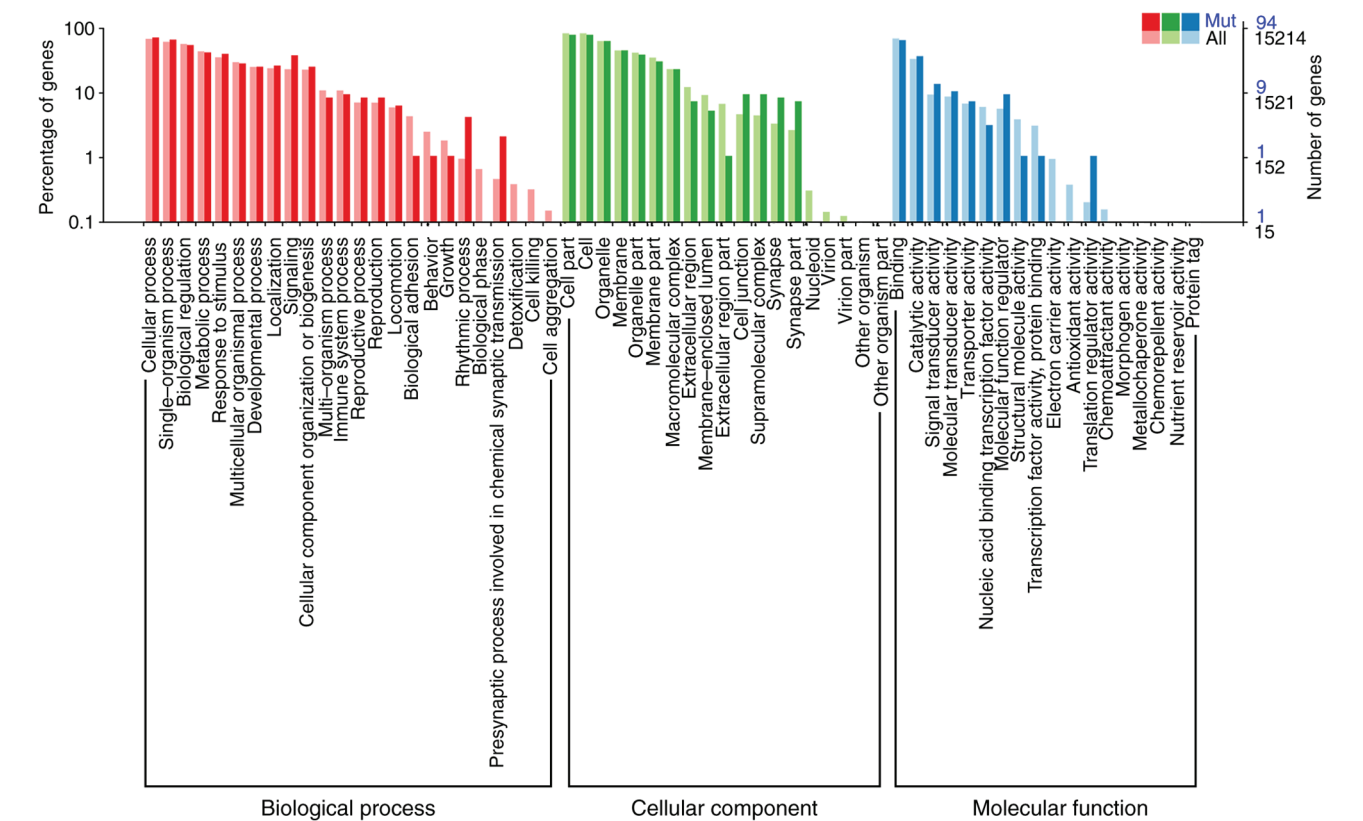


Figure S2. GO enrichment analysis revealed the mutant genes in sarcinomatoid elements including the genes involved in biological processes, cellular components and molecular functions. GO, Gene Ontology.

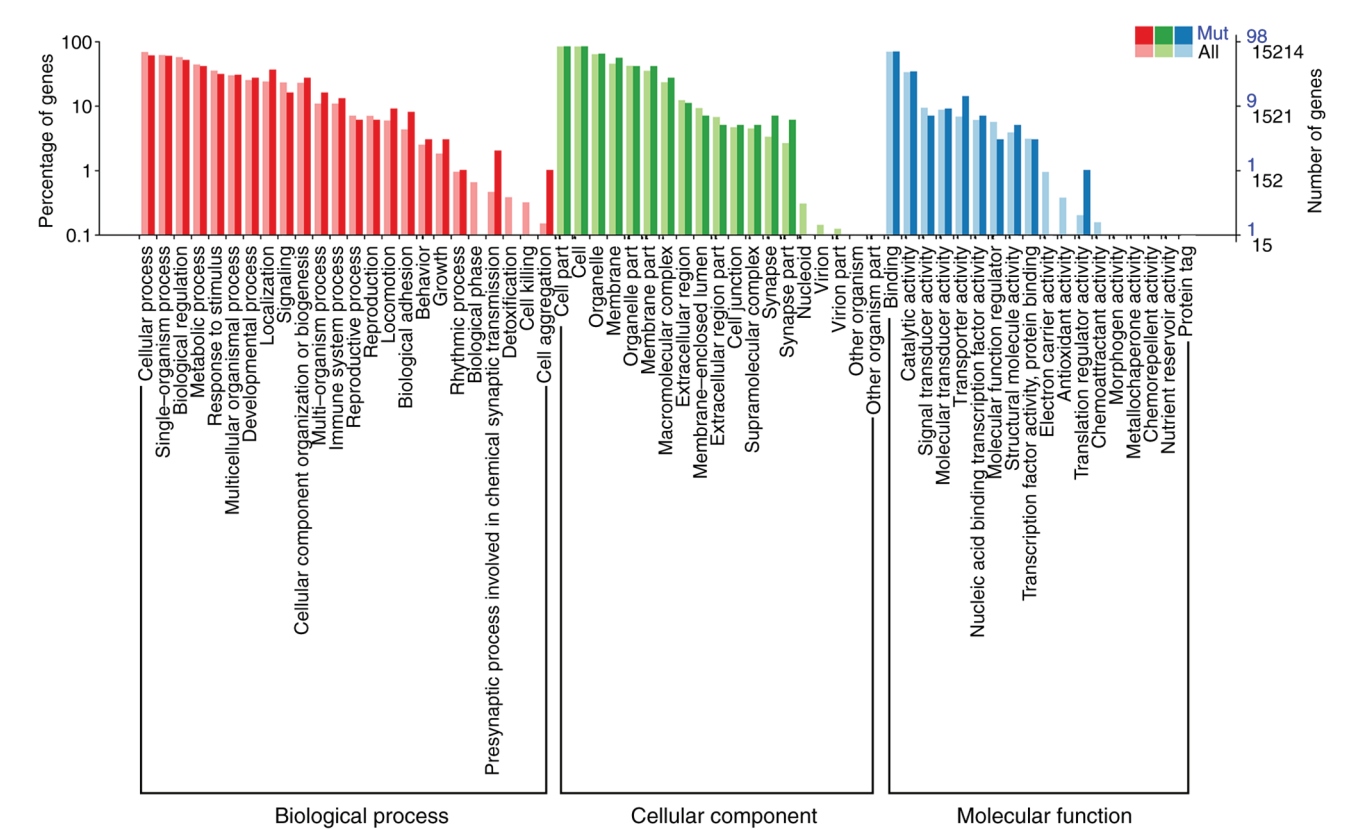


Figure S3. CDH23 and GAPDH gene expression in CCRCCS revealed by RT-qPCR. CCRCCS, clear cell renal cell carcinoma with sarcomatoid differentiation.

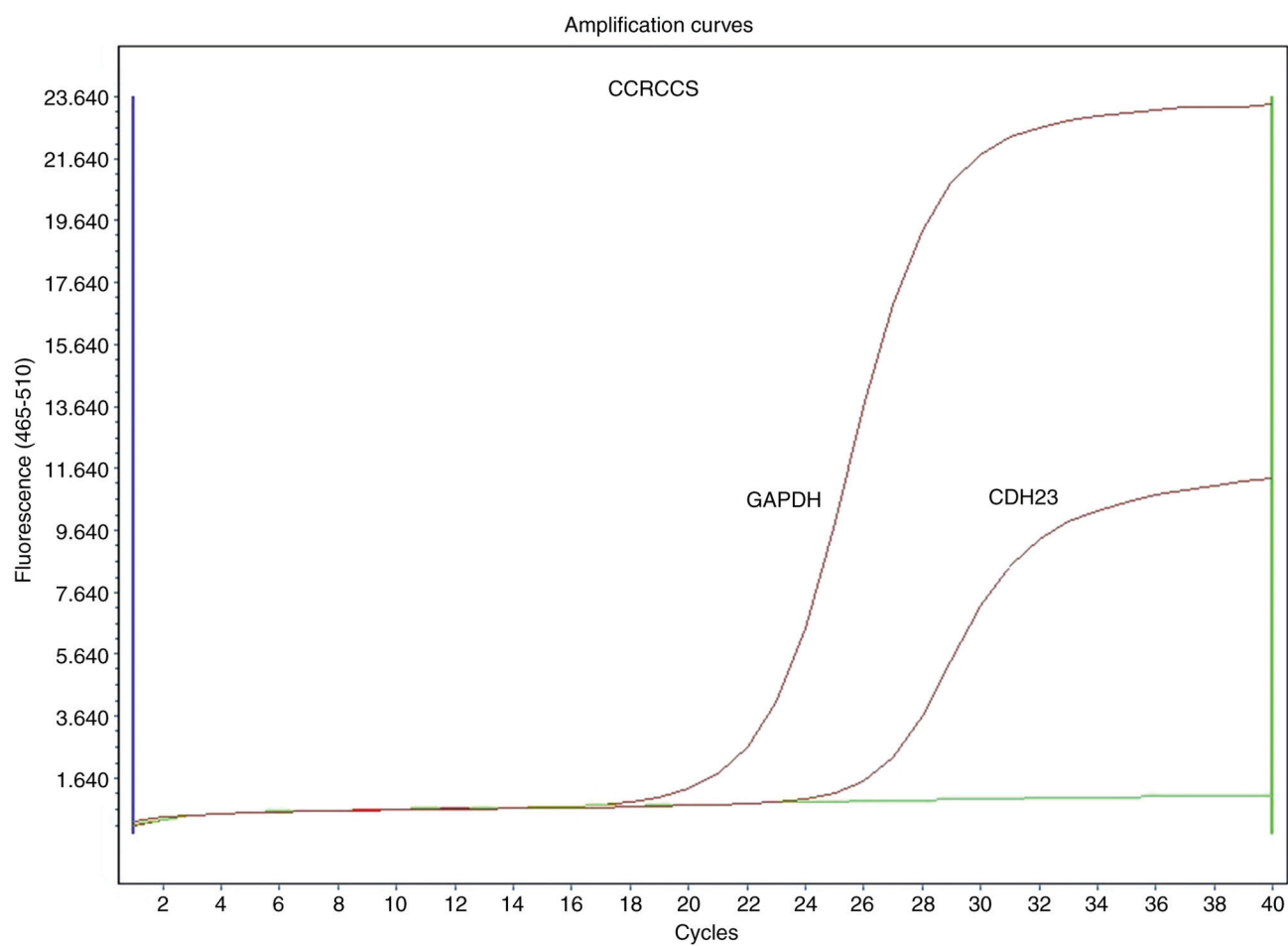


Figure S4. CDH23 and GAPDH gene expression in CCRCC revealed by RT-qPCR. CCRCC, clear cell renal cell carcinoma.

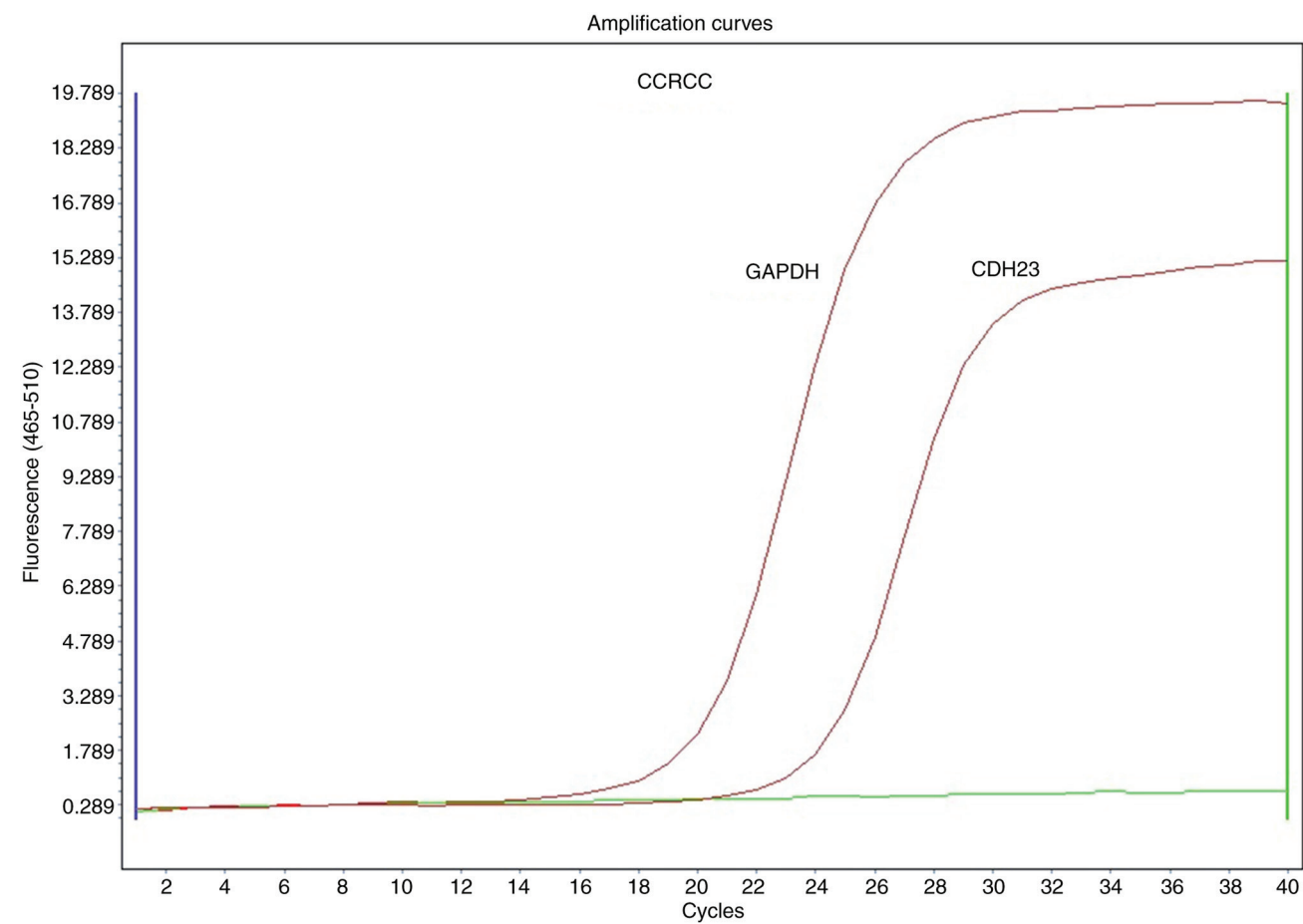


Table SI. The relationship between CDH23 protein expression and the clinicopathological features of CCRCCS.

Groups	N	CDH23 expression		χ^2	P-value
		Negative	Positive		
Sex					
Male	30	16	14	0.356	0.356
Female	10	7	3		
Age					
≤63	20	11	9	0.749	0.749
>63	20	12	8		
Diameter					
≤8.0	24	11	13	0.068	0.068
>8.0	16	12	4		
Metastasis					
No	22	10	12	0.088	0.088
Yes	18	13	5		
TNM stage					
I- II	19	9	10	0.218	0.218
III-IV	21	14	7		

CDH23, cadherin 23; CCRCCS, clear cell renal cell carcinoma with sarcomatoid differentiation.