**Table S1. The clinical data of patients who were used for circRNA-seq**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Patient | Ishak score | Gender | Age (year) | AFP (ng/mL) | Child-Pugh | Tumor size (cm) | BCLC stage | Capsule Invasion | MVI | Differentiation |
| Non\_cirrhosis\_1 | 2 | Male | 69 | <400 | A | 4.5 | B | No | No | High |
| Non\_cirrhosis\_2 | 2 | Male | 49 |  ≥400 | A | 7.8 | C | No | No | Low |
| Non\_cirrhosis\_3 | 2 | Male | 50 | <400 | A | 5 | B | No | Yes | Low |
| Cirrhosis\_1 | 6 | Male | 61 | <400 | A | 4.3 | B | Yes | No | Low |
| Cirrhosis\_2 | 6 | Male | 47 |  ≥400 | A | 7.7 | C | No | Yes | High |
| Cirrhosis\_3 | 6 | Male | 50 | <400 | A | 5.1 | B | No | No | High |

AFP, alpha-fetoprotein; BCLC, Barcelona Clinic Liver Cancer staging system; MVI, microvascular invasion.