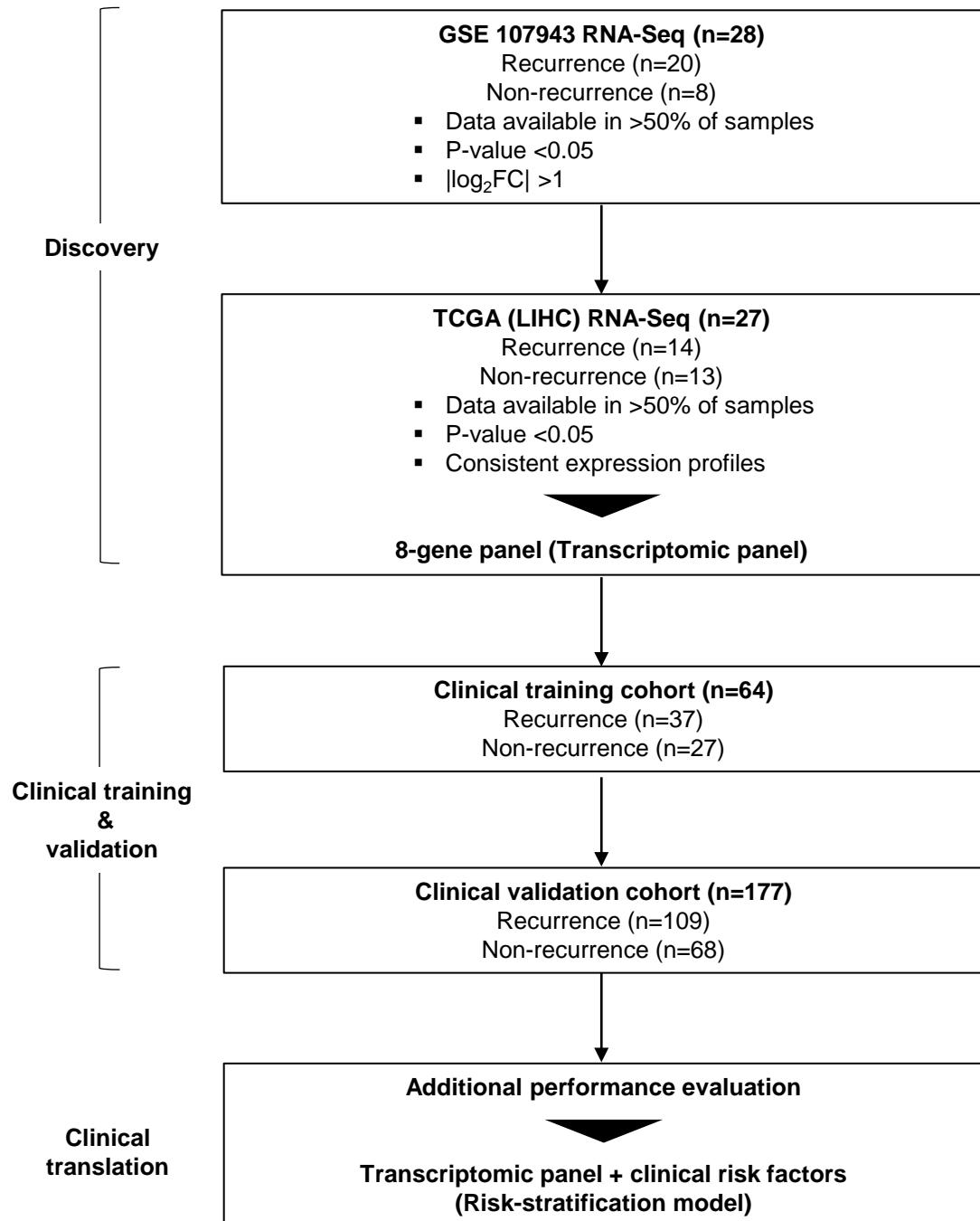


Supplemental figure S1. Overview of the study.

Supplemental figure S2. Genome-wide discovery and validation of a novel gene panel to detect recurrence in patients with ICC. **A–B)** A ROC curve demonstrates the diagnostic performance of the 8-gene panel for distinguish the patients with recurrence in **(A)** GSE107943 (AUC = 0.92), and **(B)** TCGA (AUC = 0.91). **C–D)** A comparison of RFS between high and low-risk group estimated by the panel in **(C)** GSE107943, and **(D)** TCGA.

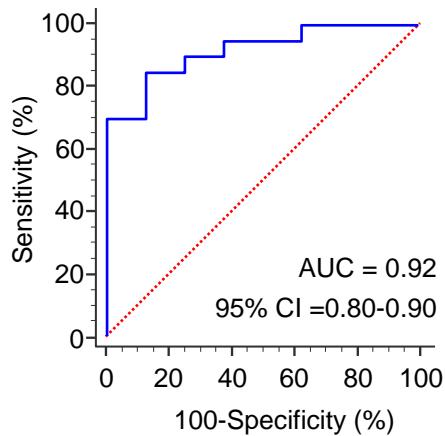
Supplemental Figure S3. ROC curves for the detection of recurrence in training and validation cohorts without transcriptomic panel. **A)** ROC curve for combined clinical risk factors (CA19-9, CE A, vascular invasion, and tumor size) for recurrence without the transcriptomic panel in the training cohort (AUC = 0.71). **B)** ROC curve for the clinical risk factors for recurrence without the panel in the validation cohort (AUC = 0.69).

Supplementary Figure 1

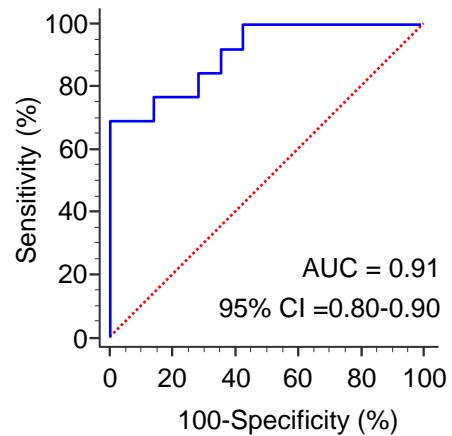


Supplementary Figure 2

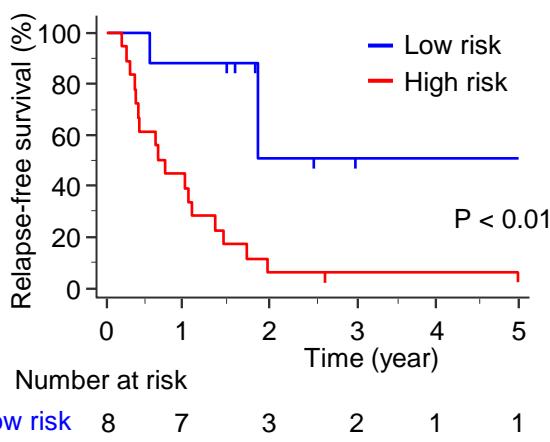
A



B

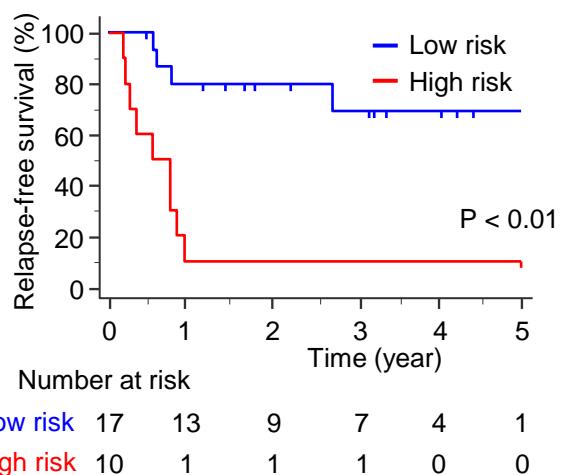


C



| | 0 | 1 | 2 | 3 | 4 | 5 |
|-----------|----|---|---|---|---|---|
| Low risk | 8 | 7 | 3 | 2 | 1 | 1 |
| High risk | 20 | 7 | 2 | 1 | 1 | 0 |

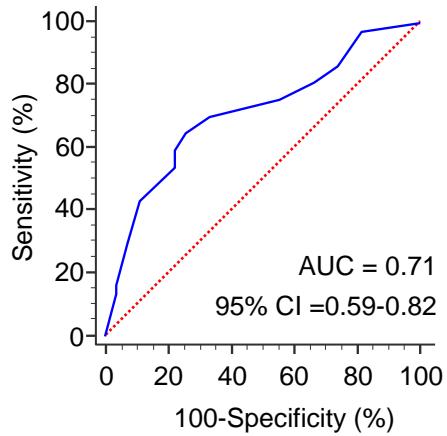
D



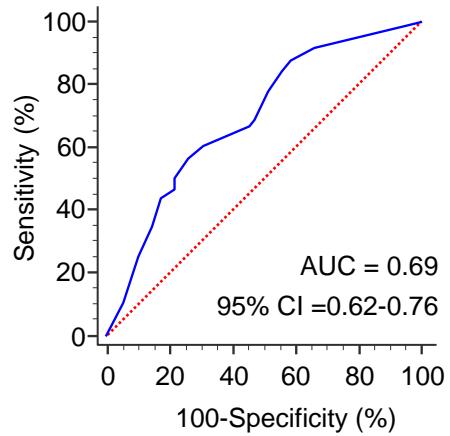
| | 0 | 1 | 2 | 3 | 4 | 5 |
|-----------|----|----|---|---|---|---|
| Low risk | 17 | 13 | 9 | 7 | 4 | 1 |
| High risk | 10 | 1 | 1 | 1 | 0 | 0 |

Supplementary Figure 3

A



B



Supplementary Table 1. Primer Sequences

| Name | Sequence |
|--------------|--------------------------|
| BIRC5_F | TTCAAGGAGCTGGAAGGCTG |
| BIRC5_R | GCAACCGGACGAATGCTTT |
| CDC20_F | GCAAGGAGAACCAAGCCTGAA |
| CDC20_R | CGTTCAGGTTCAAAGCCCAG |
| CDH2_F | ATTGCCATCCTGCTCTGCAT |
| CDH2_R | TCCCGGCGTTCATCCATAC |
| CENPW_F | GCCTCAACTCGTCTGGAGA |
| CENPW_R | ACAAGCGTTGTCCCTGGACT |
| JPH1_F | TGCCTTACTATTTACCATCTGACG |
| JPH1_R | ATTCCTCGGGCAGTCGTT |
| MAD2L1_F | TCTGCCACTGTTGGAAGTTCT |
| MAD2L1_R | TGGTCCCAGCTTCCCCATT |
| NEIL3_F | GCCCTCTTCTAAGGCATGTGA |
| NEIL3_R | TTCTCACTCTTGAGCACTGAA |
| POC1A_F | GCATATCAACTGGGTCCGCT |
| POC1A_R | GTCATCACTGGCAGACACGA |
| Actin Beta_F | CCTTGCCGATCCGCCG |
| Actin Beta_R | GATATCATCCATGGTGAGCTGG |

F, forward; *R*, reverse