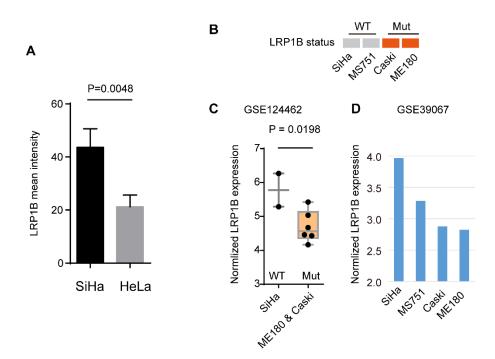


Supplementary Figure 1: Mutation status in HPV A7 CC.

Supplementary Figure 2: Expression of *LRP1B* in cell lines with different *LRP1B*

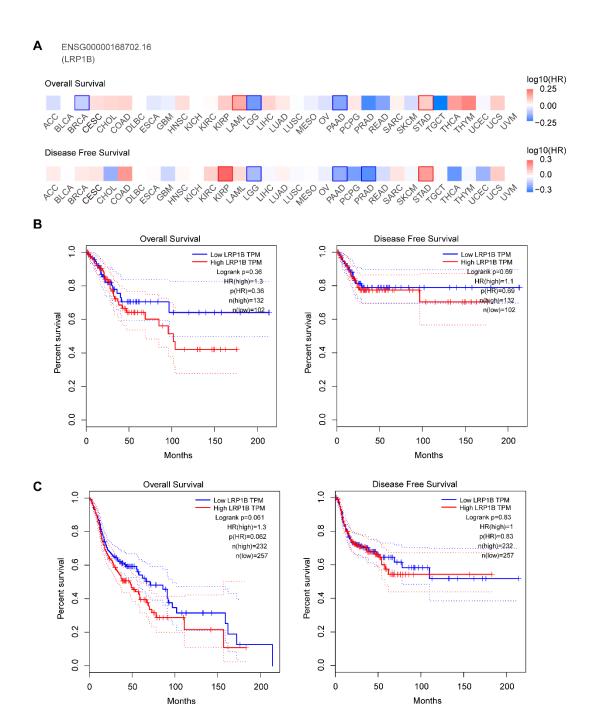
status. (**A**) Statistical analysis of immunofluorescence staining. (**B**) Mutation status of *LRP1B* in cell lines. *LRP1B* expression in cell lines from GSE124462 (**C**) and GSE39067 (**D**)



Supplementary Figure 3: Survival analysis in CC and HNSCC. Survival analysis

in 33 cancer types (A), in CC (B), and HNSCC (C), all results were performed by





Supplementary Table 1: Mutation genes of HeLa cells.

Supplementary Table 2: Mutation genes of Caski cells.

Supplementary Table 3: Mutation genes of Me180 cells.

Supplementary Table 4: Samples information of CC cohort 1.

Supplementary Table 5: Description of 289 genes.

Supplementary Table 6: Molecular analyses of 289 co-occurrence mutation genes.