Decreased miR26a/b and increased HuR expression post-transcriptionally upregulates ERBB2 to mediate acquired tamoxifen resistance in ER+ breast cancer cells

Sheng Tan, Keshuo Ding, Qing-Yun Chong, Junsong Zhao, Yuan Liu, Yunying Shao, Yuanyuan Zhang, Qing Yu, Zirui Xiong, Weijie Zhang , Min Zhang, Gaopeng Li[1], Xiaoni Li, Xiangjun Kong, Akhlaq Ahmad, Zhengsheng Wu, Qiang Wu, Xiaodong Zhao, Peter E. Lobie and Tao Zhu

List of materials included: Supplementary Figures S1 and S2

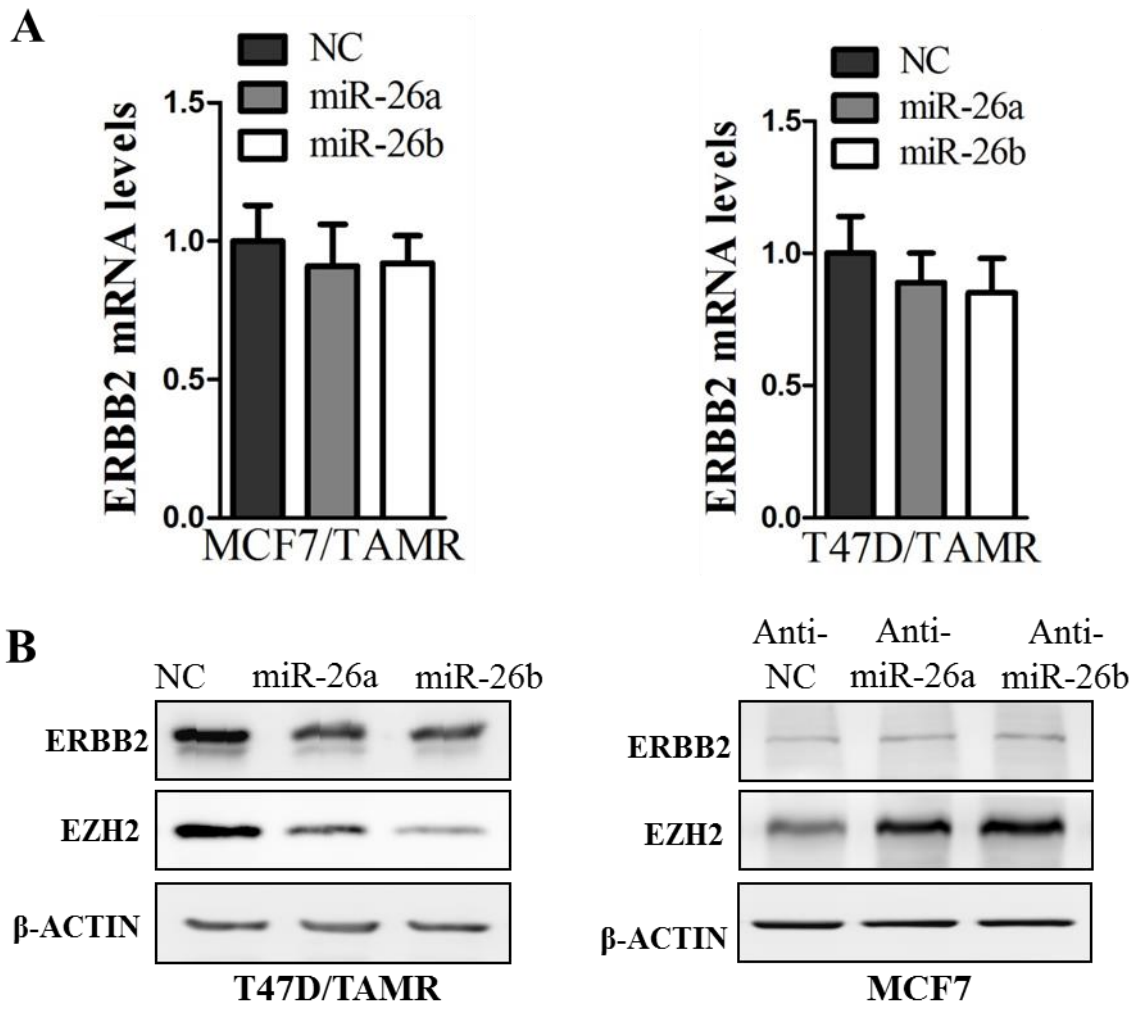

Figure S1. The effect of miR-26a/b on ERBB2 expression.

(A) MCF7 and T47D TAMR cells were transfected with scrambled oligo (NC) or miR-26a/b mimics. 48 hours after transfection, the *ERBB2* mRNA levels were determined by RT-qPCR with *GAPDH* as input control. (B) MCF7 cells were transfected with either anti-NC or anti-miR-26a/b in MCF7 cells. The ERBB2 and EZH2 protein levels were determined by western blot with β-ACTIN as input control.

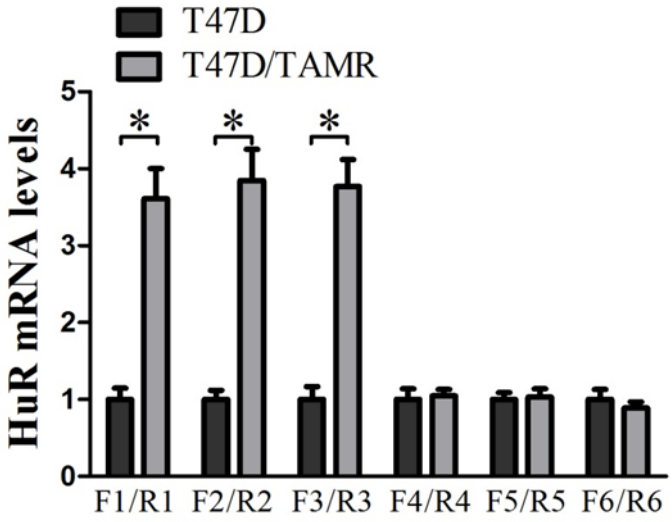

Figure S2. The 3'UTR of *HuR* transcripts were shortened via APA in T47D/TAMR cells.

The levels of *HuR* mRNA isoforms terminated at different PASs (amplified using the indicated primer pairs illustrated in Figure 7A) in T47D control and TAMR cells were assessed by RT-qPCR analysis.