## **Description of Additional supplementary files**

Supplementary Data 1: Biological process associated with the well-predicted genes
Supplementary Data 2: Molecular pathways associated with the well-predicted genes
Supplementary Data 3: Cell-type signatures from the well-predicted genes
Supplementary Data 4: Prognostic signatures with well-predicted expression values in breast cancer
Supplementary Data 5: Gene names and hazard ratios of the prognostic signature