

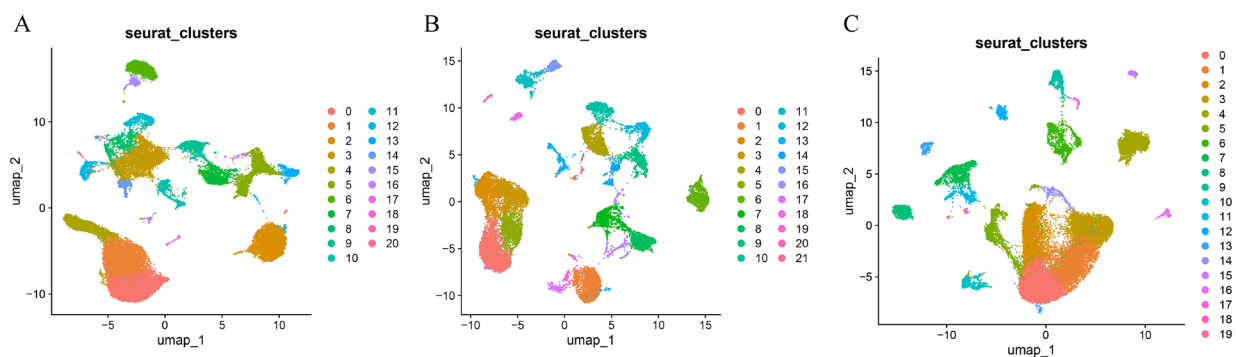


Figure S1 Overview of the different cell clusters in Single-cell transcriptome analysis. (A-C) Adenocarcinoma *in situ* group, minimally invasive adenocarcinoma group and invasive adenocarcinoma group, respectively.

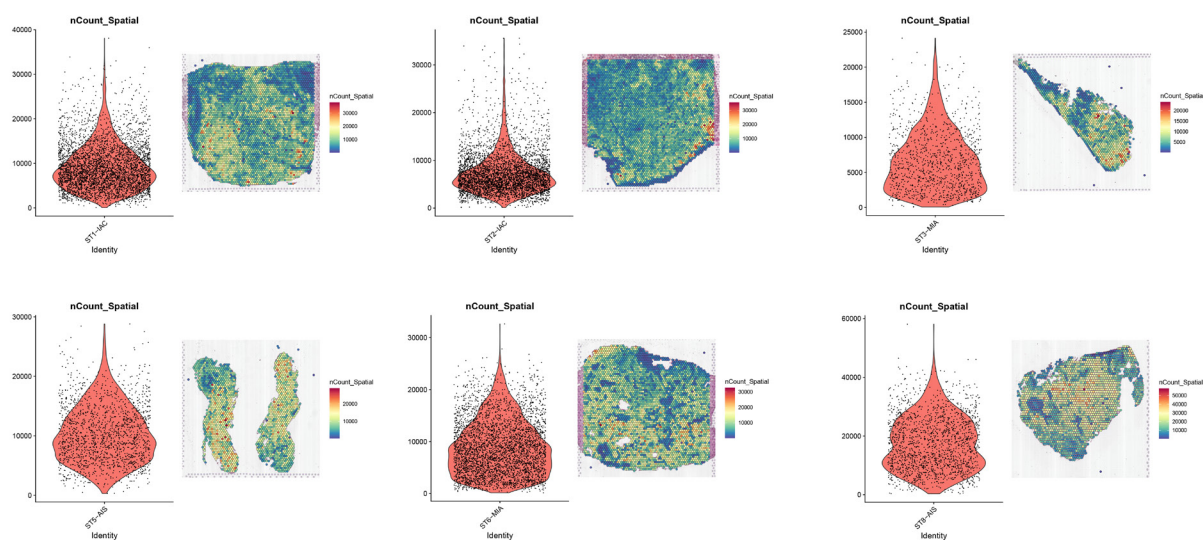


Figure S2 Quality control plots of 6 samples in spatial transcriptome analysis.

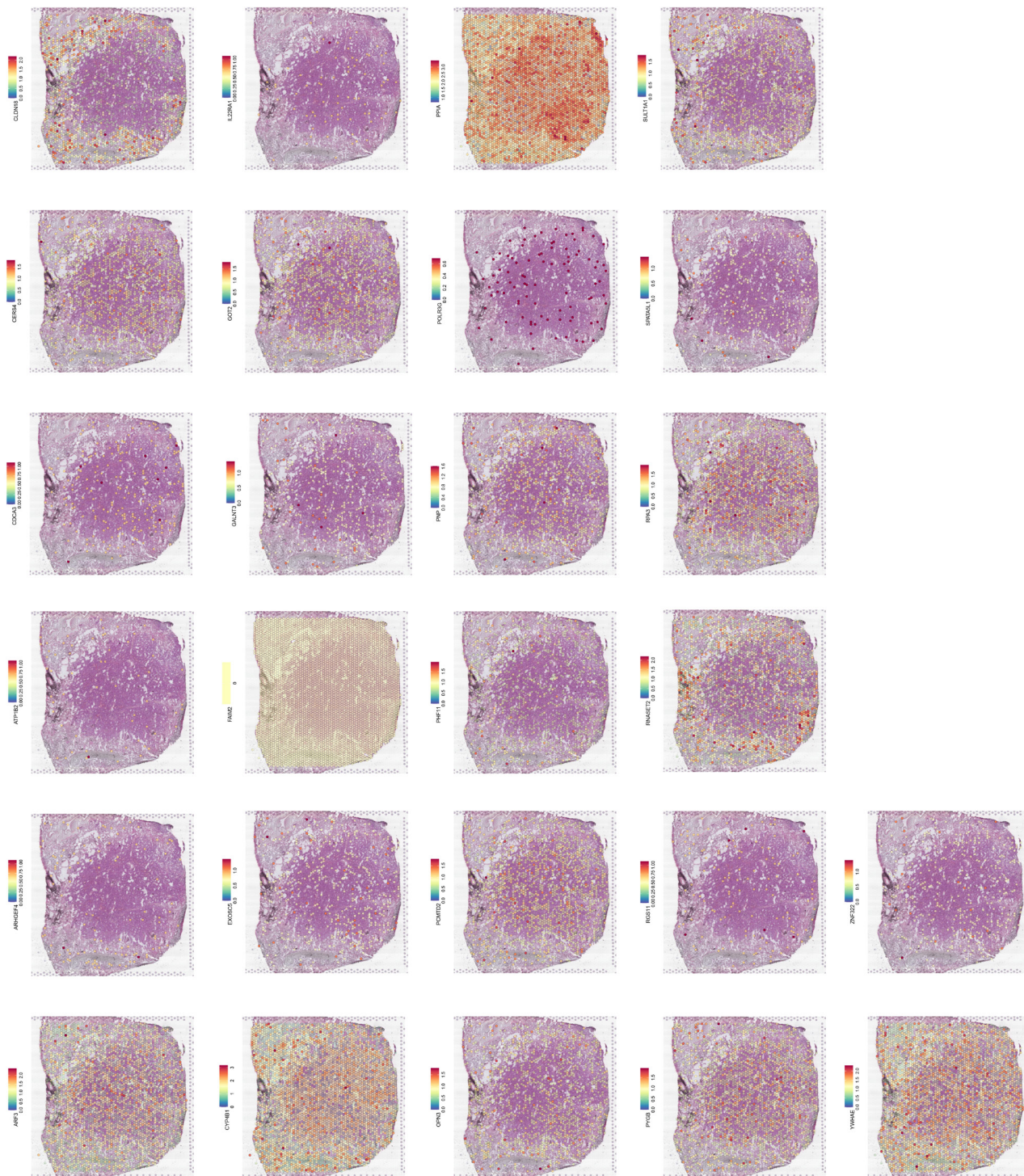
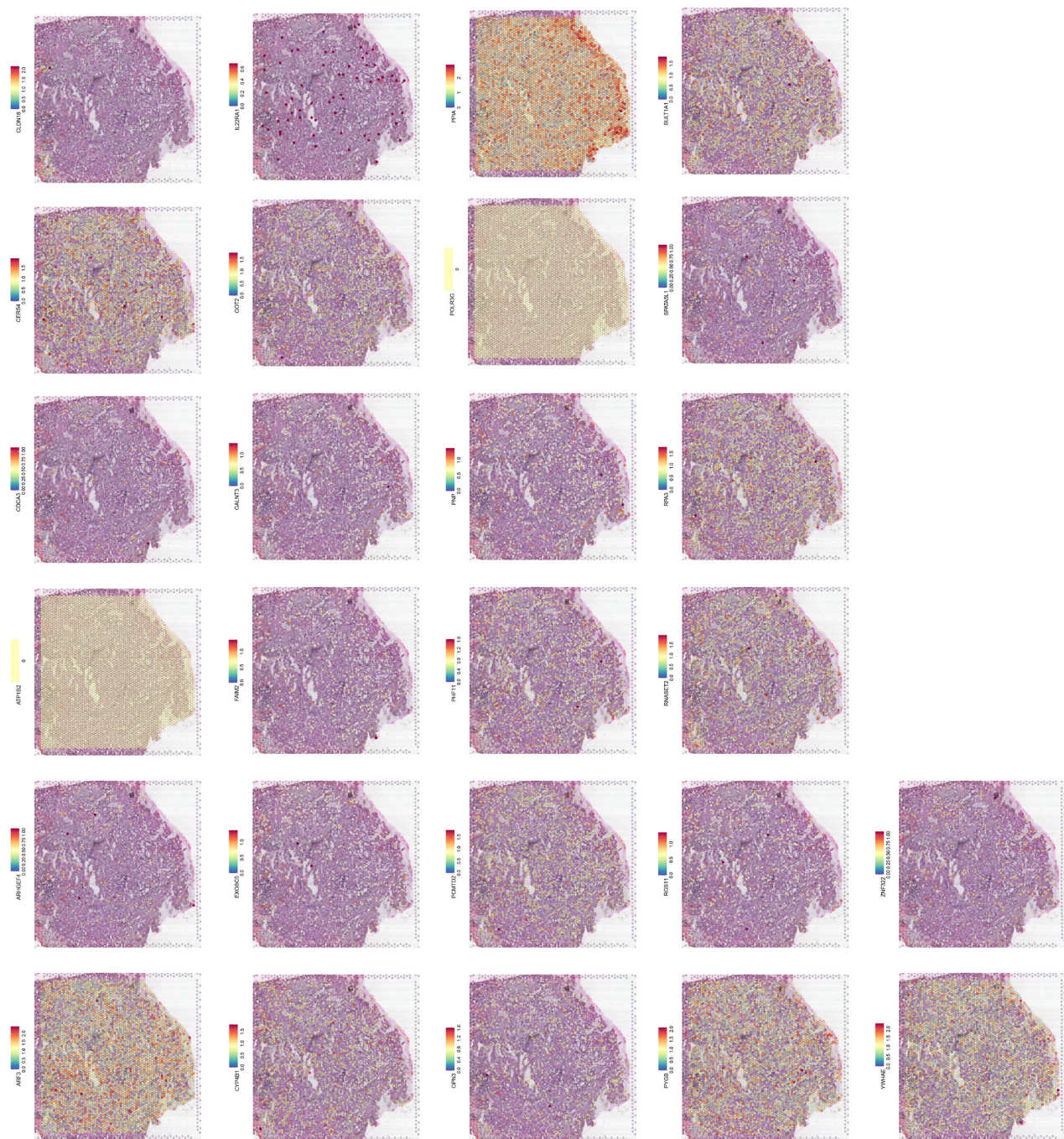


Figure S3 Spatial expression distribution plots of 26 prognostic model related genes. Samples of ST1-IAC.



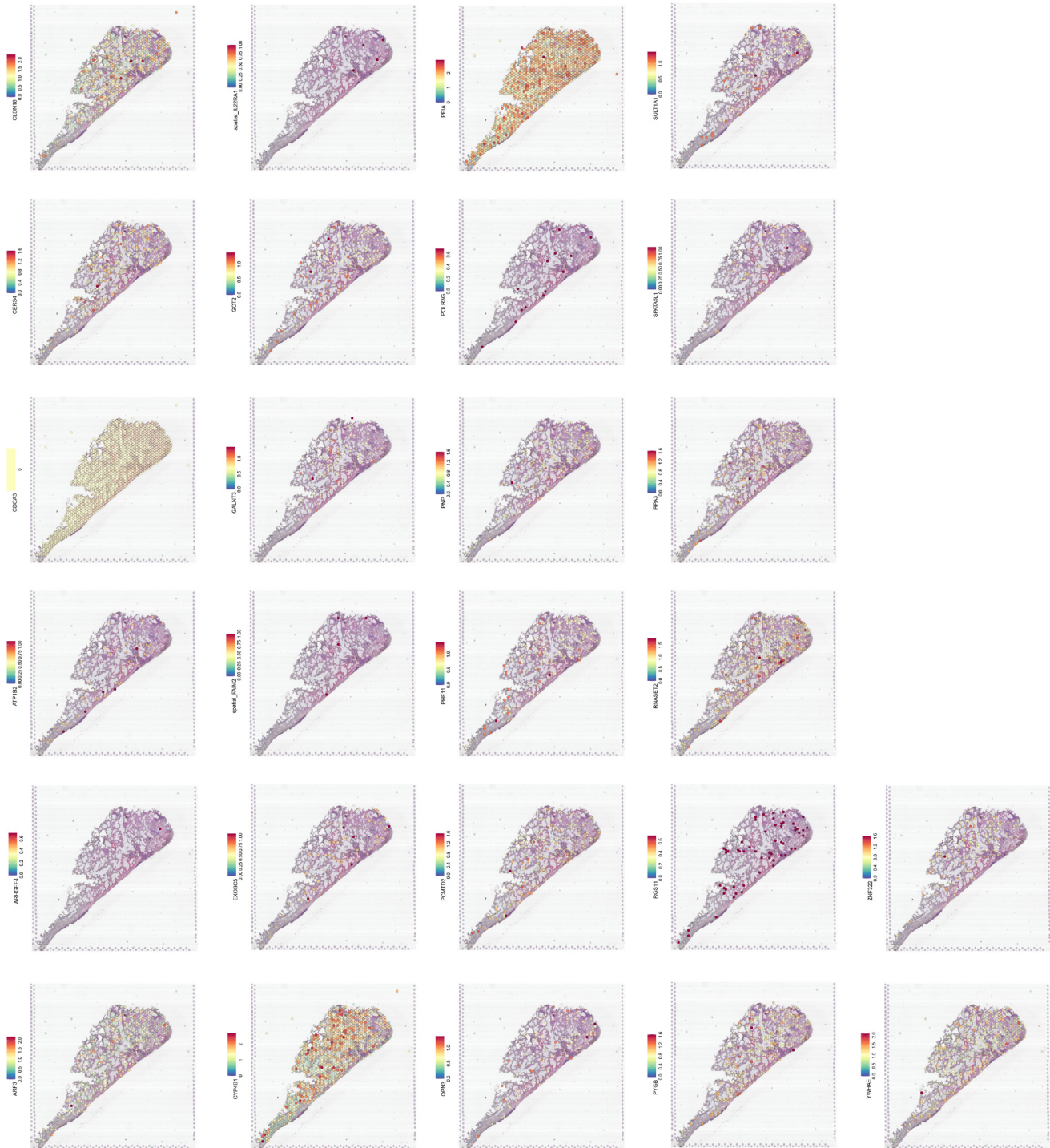


Figure S5 Spatial expression distribution plots of 26 prognostic model related genes. Samples of ST3-MIA.

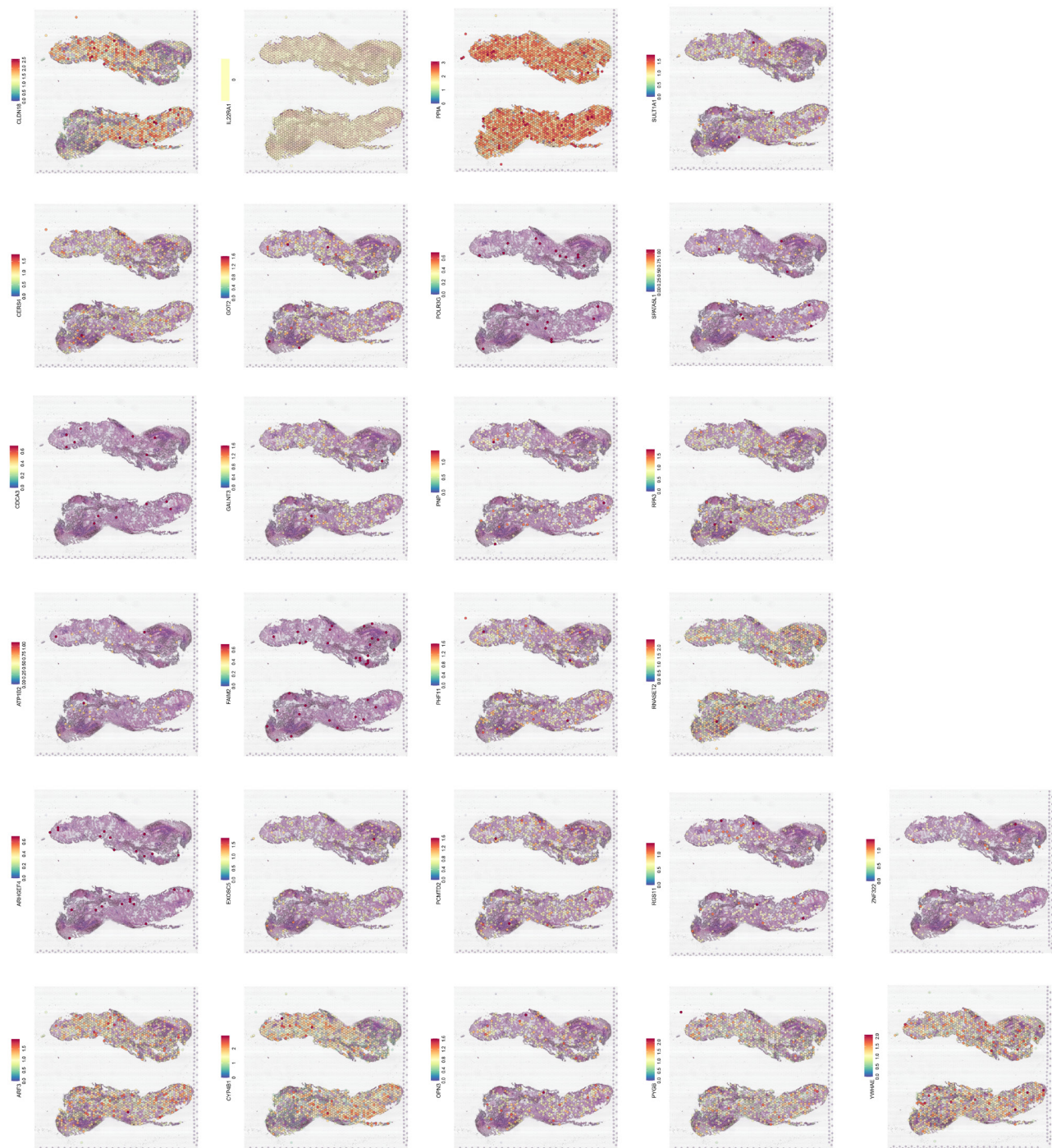




Figure S7 Spatial expression distribution plots of 26 prognostic model related genes. Samples of ST6-MIA.



Figure S8 Spatial expression distribution plots of 26 prognostic model related genes. Samples of ST8-AIS.