

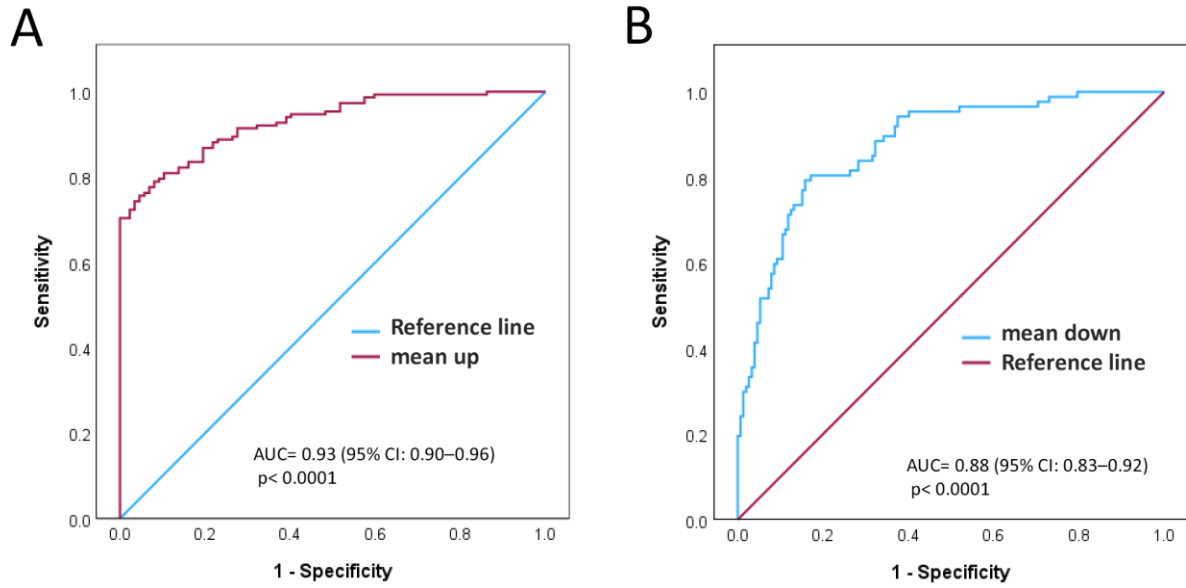


Figure S3. Sensitivity analysis of circulating miRNA panels in the female-only MENA cohort. **(A)** ROC curve of the mean expression score for the eight upregulated miRNAs in 152 breast cancer cases versus 87 female controls, demonstrating robust discrimination (AUC = 0.93, 95% CI: 0.90–0.96, $p < 0.0001$). **(B)** ROC curve of the mean expression score for the eleven downregulated miRNAs in the same cohort, showing consistent discrimination between breast cancer patients and female controls (AUC = 0.88, 95% CI: 0.83–0.92, $p < 0.0001$).