

Figure S1 Violin plots before and after data quality control.

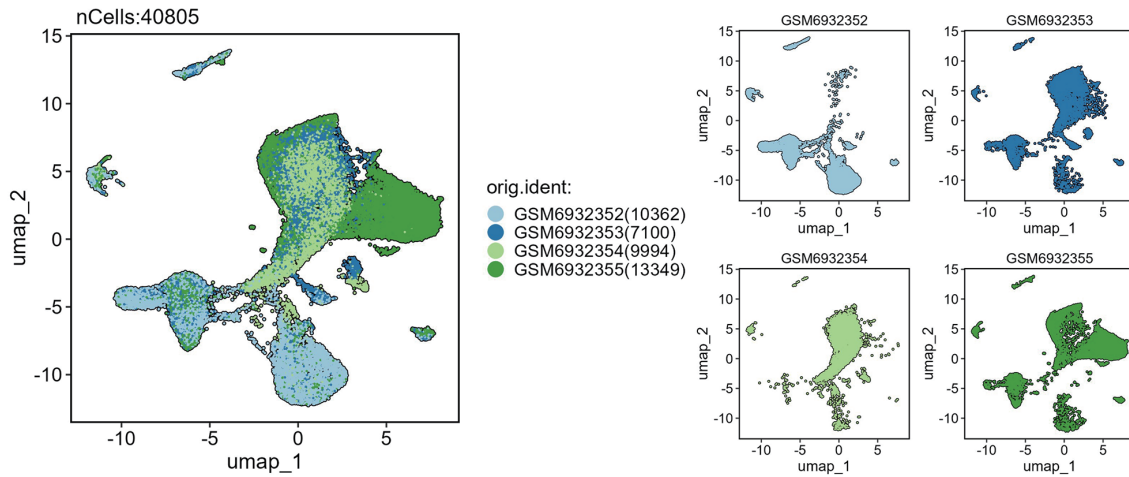


Figure S2 Uniform manifold approximation and projection plot after multi-sample integration and batch effect removal.

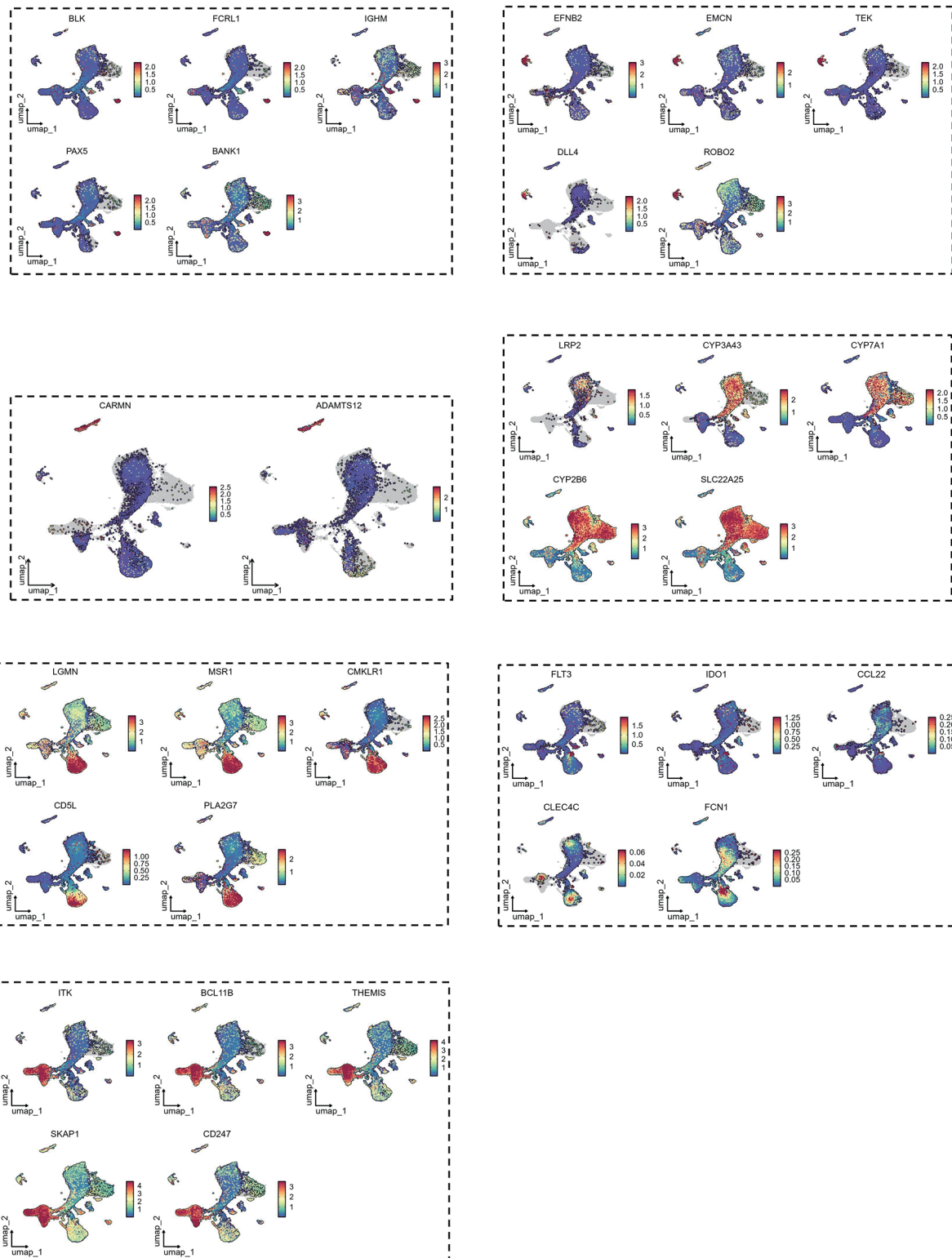


Figure S3 Uniform Manifold Approximation and Projection plot of marker gene expression.

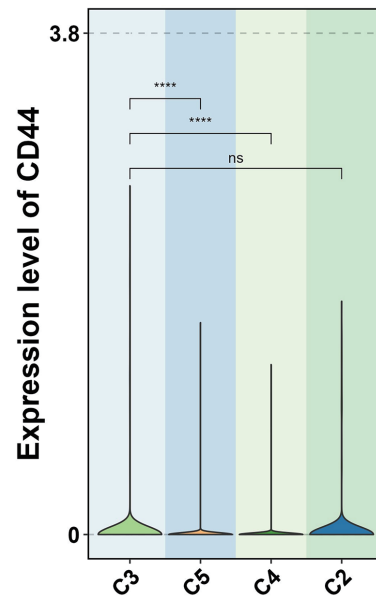


Figure S4 Violin plot of CD44 expression in k-means clusters. ****, $P < 0.001$.