



Supplementary Figure S3. Volcano plot and Venn diagram of differentially expressed genes (DEGs) between patients with PID and healthy controls (HCs). Volcano plot of the DEGs in the GSE51406 (A) and GSE72625 (B) datasets. Red dots indicate up-regulated DEGs, and blue dots indicate down-regulated DEGs. The x-axis represents the \log_2 (fold change) value of each gene, and the y-axis represents their $-\log_{10}$ value of the *P*-value. Venn diagram of overlapping up-regulated (C) and down-regulated (D) DEGs. The shaded areas denote overlapping DEGs.