

**Figure S1** The expression, prognosis and correlation with immune status of pyroptosis-related genes. The correlation analysis between immune status and novel genes in risk model, including (A) *CASP8*, (B) *GPX4*, (C) *GSDME*, (D) *NLRP6*, (E) *NOD2*. The expression difference between high-risk and low-risk group, including (F) *CASP8*, (G) *GPX4*, (H) *GSDME*, (I) *NLRP6*, (J) *NOD2*. The KM survival showing the prognosis of genes including (K) *CASP8*, (L) *GPX4*, (M) *GSDME*, (N) *NLRP6*, (O) *NOD2*.

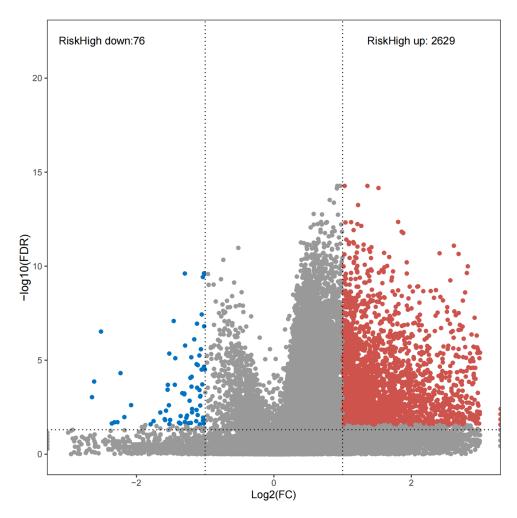


Figure S2 Volcano map of differential genes.

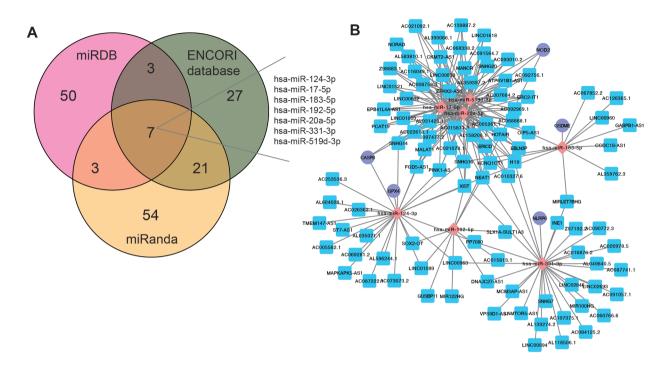


Figure S3 The construction of ceRNA network. (A) The Venn diagram showing the overlap miRNAs associated five novel genes through three databases. (B) The ceRNA network.