Supplementary

Gene Type CASP6 Pyroptosis GPX4 Pyroptosis GSDMD Pyroptosis IL18 Pyroptosis AIM2 Pyroptosis GSDMA Pyroptosis GSDMA Pyroptosis MLRC4 Pyroptosis NLRP2 Pyroptosis NURP2 Pyroptosis NOD1 Pytroptosis PJVK Pytroptosis PRKACA Pytroptosis SCAF11 Pytroptosis CASP1 Pyroptosis CASP1 Pyroptosis CHMP2A Pytroptosis CHMP3 Pytroptosis CHMP4B Pytroptosis CHMP6 Pytroptosis CYCS Pytroptosis CHMGB1 Pytroptosis IRF1 Pytroptosis GSDME Pytroptosis IL1B Pytroptosis GASP3 Pytroptosis GASP3 Pytroptosis NLRP1 Pytroptosis	Table S1 Pyroptosis-related genes	
GPX4 Pyroptosis GSDMD Pyroptosis IL18 Pyroptosis AIM2 Pyroptosis CASP8 Pyroptosis GSDMA Pyroptosis GSDMC Pyroptosis NLRC4 Pyroptosis NLRP2 Pyroptosis NURP6 Pyroptosis NOD1 Pyroptosis PVK Pyroptosis PRKACA Pyroptosis SCAF11 Pyroptosis CASP1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP4B Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis HMGB1 Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis LL1B Pyroptosis LL3B Pyroptosis CASP9 Pyroptosis GSDMB Pyroptosis <t< th=""><th>Gene</th><th>Туре</th></t<>	Gene	Туре
SDMD	CASP6	Pyroptosis
IL18 Pyroptosis AIM2 Pyroptosis CASP8 Pyroptosis GSDMA Pyroptosis GSDMC Pyroptosis NLRC4 Pyroptosis NLRP2 Pyroptosis NCD1 Pyroptosis PUVK Pyroptosis PRKACA Pyroptosis SCAF11 Pyroptosis SCAF11 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP4B Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis CASP6 Pyroptosis GSDME Pyroptosis LL1B Pyroptosis CASP9 Pyroptosis GSDMB Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis <	GPX4	Pyroptosis
AIM2 Pyroptosis CASP8 Pyroptosis GSDMA Pyroptosis GSDMC Pyroptosis NLRC4 Pyroptosis NLRC4 Pyroptosis NLRP6 Pyroptosis NOD1 Pyroptosis PUVK Pyroptosis PRKACA Pyroptosis RPKACA Pyroptosis SCAF11 Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP4B Pyroptosis CHMP6 Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis CASP6 Pyroptosis CASP8 Pyroptosis CASP8 Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis NLRP1 Pyroptosis NLRP2 Pyroptosis NLRP3 Pyroptosis NLRP4 Pyroptosis NLRP5 Pyroptosis NLRP6 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis NLRP8 Pyroptosis NLRP9 Pyroptosis NLRP9 Pyroptosis NLRP9 Pyroptosis NLRP9 Pyroptosis NLRP9 Pyroptosis CASP4 Pyroptosis CASP4 Pyroptosis CASP4 Pyroptosis CHMP4A Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis LL1A Pyroptosis	GSDMD	Pyroptosis
CASPB GSDMA Pyroptosis GSDMC Pyroptosis NLRC4 Pyroptosis NLRC4 Pyroptosis NLRP2 Pyroptosis NLRP6 Pyroptosis NOD1 Pyroptosis NOD1 Pyroptosis PHACA Pyroptosis PRKACA Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis CASP1 Pyroptosis Pyroptosis CHMP2A Pyroptosis	IL18	Pyroptosis
GSDMA GSDMC Pyroptosis NLRC4 Pyroptosis NLRP2 Pyroptosis NLRP6 Pyroptosis NOD1 Pyroptosis Pyroptosis NOD1 Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis SCAF11 Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP4B Pyroptosis CYCS Pyroptosis IRF1 Pyroptosis CYCS Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis CASP6 Pyroptosis LIB Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis PYCARD Pyroptosis PYCARD Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis LI1A Pyroptosis LI1A Pyroptosis	AIM2	Pyroptosis
RSDMC Pyroptosis NLRC4 Pyroptosis NLRP2 Pyroptosis NLRP6 Pyroptosis NOD1 Pyroptosis NOD1 Pyroptosis PUVK Pyroptosis PHKACA Pyroptosis SCAF11 Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis IRF1 Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis CASP6 Pyroptosis CASP6 Pyroptosis CASP7 Pyroptosis CASP8 Pyroptosis IL1B Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP3 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis CASP4 Pyroptosis CAMP4A Pyroptosis CHMP4A Pyroptosis CHMP4A Pyroptosis CHMP4A Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis LI1A Pyroptosis LI1A Pyroptosis LI1A Pyroptosis LI1A Pyroptosis	CASP8	Pyroptosis
NLRC4 Pyroptosis NLRP2 Pyroptosis NLRP6 Pyroptosis NOD1 Pyroptosis PUVK Pyroptosis PRKACA Pyroptosis SCAF11 Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP4B Pyroptosis CYCS Pyroptosis HMGB1 Pyroptosis IRF1 Pyroptosis CASP5 Pyroptosis CASP6 Pyroptosis CASP7 Pyroptosis CASP8 Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis IL1B Pyroptosis IL5 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis PYCARD Pyroptosis PYCARD Pyroptosis CASP4 Pyroptosis CASP6 Pyroptosis CASP7 Pyroptosis CASP8 Pyroptosis CASP9 Pyroptosis CASP4 Pyroptosis CASP4 Pyroptosis CASP4 Pyroptosis CHMP4A Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis IL1A Pyroptosis IL1A Pyroptosis	GSDMA	Pyroptosis
NLRP2 Pyroptosis NLRP6 Pyroptosis NOD1 Pyroptosis PJVK Pyroptosis PRKACA Pyroptosis SCAF11 Pyroptosis TNF Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis HMGB1 Pyroptosis IRF1 Pyroptosis CASP3 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP3 Pyroptosis NLRP4 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis	GSDMC	Pyroptosis
NLRP6 NOD1 Pyroptosis NOD1 Pyroptosis PJVK Pyroptosis PRKACA Pyroptosis SCAF11 Pyroptosis BAK1 Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP6 Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis CHMB1 Pyroptosis CHMB1 Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis CASP6 Pyroptosis CASP8 Pyroptosis IL1B Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis IL6 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PYCARD Pyroptosis PYCARD Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis Pyroptosis CHMP4C Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis CHMP4C Pyroptosis	NLRC4	Pyroptosis
NOD1 Pyroptosis PJVK Pyroptosis PRKACA Pyroptosis SCAF11 Pyroptosis BAK1 Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP6 Pyroptosis CHMP6 Pyroptosis CHMB1 Pyroptosis CHMB1 Pyroptosis CHMB1 Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis CASP6 Pyroptosis CASP8 Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis ILB Pyroptosis ILB Pyroptosis CASP9 Pyroptosis ILG NLRP1 Pyroptosis NLRP7 Pyroptosis Pyroptosis PLCG1 Pyroptosis Pyroptosis PYCARD Pyroptosis CASP4 Pyroptosis CHMP4A Pyroptosis CHMP4A Pyroptosis CHMP4A Pyroptosis CHMP4A Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis Pyroptosis CHMP7 Pyroptosis Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis	NLRP2	Pyroptosis
PJVK Pyroptosis PRKACA Pyroptosis SCAF11 Pyroptosis TNF Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP6 Pyroptosis CHMP6 Pyroptosis CHMP6 Pyroptosis CHMB1 Pyroptosis CHMB1 Pyroptosis CHMB1 Pyroptosis CHS Pyroptosis CHS Pyroptosis CASP5 Pyroptosis CASP6 Pyroptosis CASP8 Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis IL1B Pyroptosis IL6 Pyroptosis IL6 Pyroptosis IL6 Pyroptosis IL6 Pyroptosis IL6 Pyroptosis IL7 Pyroptosis IL8 Pyroptosis IL8 Pyroptosis IL8 Pyroptosis IL9 Pyroptosis IL1B Pyroptosis IL1A Pyroptosis IL1A Pyroptosis IL1A Pyroptosis IL1A Pyroptosis IL1A Pyroptosis IL1A Pyroptosis	NLRP6	Pyroptosis
PRIKACA Pyroptosis SCAF11 Pyroptosis TNF Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP4B Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis IRF1 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis	NOD1	Pyroptosis
SCAF11 Pyroptosis TNF Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP6 Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis IRF1 Pyroptosis CASP5 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PYCARD Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis	PJVK	Pyroptosis
TNF Pyroptosis BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP6 Pyroptosis CHMP6 Pyroptosis CHMB1 Pyroptosis CHMB1 Pyroptosis IRF1 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis IL6 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis TIRAP Pyroptosis TIRAP Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4A Pyroptosis CHMP7 Pyroptosis	PRKACA	Pyroptosis
BAK1 Pyroptosis CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP6 Pyroptosis CHMP6 Pyroptosis CHMB1 Pyroptosis IRF1 Pyroptosis IRF1 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis IL6 Pyroptosis IL6 Pyroptosis ILRP1 Pyroptosis ILRP2 Pyroptosis ILRP3 Pyroptosis ILRP4 Pyroptosis ILRP7 Pyroptosis ILRP7 Pyroptosis ILRP7 Pyroptosis ILRP7 Pyroptosis ILRP7 Pyroptosis ILRP7 Pyroptosis ILRP Pyroptosis ILRPA Pyroptosis ILRPA Pyroptosis ILRPA Pyroptosis ILRPA Pyroptosis ILRPA Pyroptosis ILRPA Pyroptosis ILRAP Pyroptosis	SCAF11	Pyroptosis
CASP1 Pyroptosis CHMP2A Pyroptosis CHMP3 Pyroptosis CHMP4B Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis IRF1 Pyroptosis IRF1 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP9 Pyroptosis GSDMB Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PYCARD Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis	TNF	Pyroptosis
CHMP2A CHMP3 CHMP4B Pyroptosis CHMP6 Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis HMGB1 Pyroptosis IRF1 Pyroptosis TP53 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis GSDMB Pyroptosis IL6 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B CHMP4A Pyroptosis CHMP4C Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis CHMP4C Pyroptosis	BAK1	Pyroptosis
CHMP3 Pyroptosis CHMP4B Pyroptosis CHMP6 Pyroptosis CYCS Pyroptosis HMGB1 Pyroptosis IRF1 Pyroptosis TP53 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis IL6 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis NNRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis	CASP1	Pyroptosis
CHMP4B CHMP6 CHMP6 CYCS Pyroptosis CYCS Pyroptosis CASP5 Pyroptosis Pyroptosis ELANE Pyroptosis GSDME Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis RL6 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PYCARD Pyroptosis FYCARD Pyroptosis CASP4 Pyroptosis CASP4 Pyroptosis CHMP2B CHMP4A Pyroptosis Pyroptosis Pyroptosis CHMP4C CHMP7 Pyroptosis	CHMP2A	Pyroptosis
CHMP6 CYCS Pyroptosis CYCS Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis CASP9 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis GZMA Pyroptosis CASP4 Pyroptosis CASP4 Pyroptosis CHMP2B CHMP4A Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis	СНМРЗ	Pyroptosis
CYCS Pyroptosis HMGB1 Pyroptosis IRF1 Pyroptosis IRF1 Pyroptosis TP53 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis IL6 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP3 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4C Pyroptosis IL1A Pyroptosis IL1A Pyroptosis Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis	CHMP4B	Pyroptosis
HMGB1 Pyroptosis IRF1 Pyroptosis TP53 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis GSDMB Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP3 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4C Pyroptosis IL1A Pyroptosis IL1A Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis	СНМР6	Pyroptosis
IRF1 Pyroptosis TP53 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP9 Pyroptosis GSDMB Pyroptosis IL6 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4C Pyroptosis CASMS Pyroptosis CASMS Pyroptosis CASMS Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis GZMB Pyroptosis	CYCS	Pyroptosis
TP53 Pyroptosis CASP5 Pyroptosis ELANE Pyroptosis GSDME Pyroptosis IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4C Pyroptosis IL1A Pyroptosis Pyroptosis GZMB Pyroptosis Pyroptosis CASP4 Pyroptosis CHMP7 Pyroptosis CHMP7 Pyroptosis GZMB Pyroptosis	HMGB1	Pyroptosis
CASP5 ELANE Pyroptosis GSDME IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis GSDMB Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 CHMP2B CHMP4C CHMP7 GZMB Pyroptosis Pyroptosis Pyroptosis Pyroptosis CAMB Pyroptosis Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis	IRF1	Pyroptosis
ELANE GSDME Pyroptosis IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis GSDMB Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP3 NLRP7 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 CHMP2B CHMP4C CHMP7 GZMB Pyroptosis Pyroptosis Pyroptosis Pyroptosis CASMB Pyroptosis	TP53	Pyroptosis
GSDME IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis GSDMB Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP3 Pyroptosis NLRP7 Pyroptosis NLRP7 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B CHMP4A Pyroptosis CHMP4C CHMP7 Pyroptosis IL1A Pyroptosis Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis	CASP5	Pyroptosis
IL1B Pyroptosis CASP3 Pyroptosis CASP9 Pyroptosis GSDMB Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP3 Pyroptosis NLRP7 Pyroptosis NOD2 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis IL1A Pyroptosis Pyroptosis Pyroptosis CZMB Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis	ELANE	Pyroptosis
CASP3 CASP9 Pyroptosis CASP9 Pyroptosis BL6 Pyroptosis Pyroptosis NLRP1 Pyroptosis NLRP3 Pyroptosis NLRP7 Pyroptosis NOD2 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis CASP4 CHMP2B CHMP4A CHMP4C CHMP7 Pyroptosis Pyroptosis Pyroptosis CASPB Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis	GSDME	Pyroptosis
CASP9 Pyroptosis GSDMB Pyroptosis IL6 Pyroptosis NLRP1 Pyroptosis NLRP3 Pyroptosis NLRP7 Pyroptosis NOD2 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis CASP4 Pyroptosis CHMP2B CHMP4A Pyroptosis CHMP4C Pyroptosis GZMB Pyroptosis Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis	IL1B	Pyroptosis
GSDMB IL6 Pyroptosis NLRP1 Pyroptosis NLRP3 Pyroptosis NLRP7 Pyroptosis NOD2 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B CHMP4A Pyroptosis CHMP4C CHMP7 Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis Pyroptosis	CASP3	Pyroptosis
IL6PyroptosisNLRP1PyroptosisNLRP3PyroptosisNLRP7PyroptosisNOD2PyroptosisPLCG1PyroptosisPYCARDPyroptosisTIRAPPyroptosisGZMAPyroptosisBAXPyroptosisCASP4PyroptosisCHMP2BPyroptosisCHMP4APyroptosisCHMP4CPyroptosisCHMP7PyroptosisGZMBPyroptosisIL1APyroptosis	CASP9	Pyroptosis
NLRP1 Pyroptosis NLRP3 Pyroptosis NLRP7 Pyroptosis NOD2 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis Pyroptosis Pyroptosis CHMP7 Pyroptosis	GSDMB	Pyroptosis
NLRP3 Pyroptosis NLRP7 Pyroptosis NOD2 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis CASP4 Pyroptosis CHMP2B CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis	IL6	Pyroptosis
NLRP7 Pyroptosis NOD2 Pyroptosis PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis CASP4 Pyroptosis CHMP2B CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis GZMB Pyroptosis	NLRP1	Pyroptosis
NOD2 PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis	NLRP3	Pyroptosis
PLCG1 Pyroptosis PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis GZMB Pyroptosis IL1A Pyroptosis Pyroptosis Pyroptosis	NLRP7	Pyroptosis
PYCARD Pyroptosis TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis GZMB Pyroptosis IL1A Pyroptosis	NOD2	Pyroptosis
TIRAP Pyroptosis GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis GZMB Pyroptosis IL1A Pyroptosis	PLCG1	Pyroptosis
GZMA Pyroptosis BAX Pyroptosis CASP4 Pyroptosis CHMP2B Pyroptosis CHMP4A Pyroptosis CHMP4C Pyroptosis CHMP7 Pyroptosis GZMB Pyroptosis IL1A Pyroptosis	PYCARD	Pyroptosis
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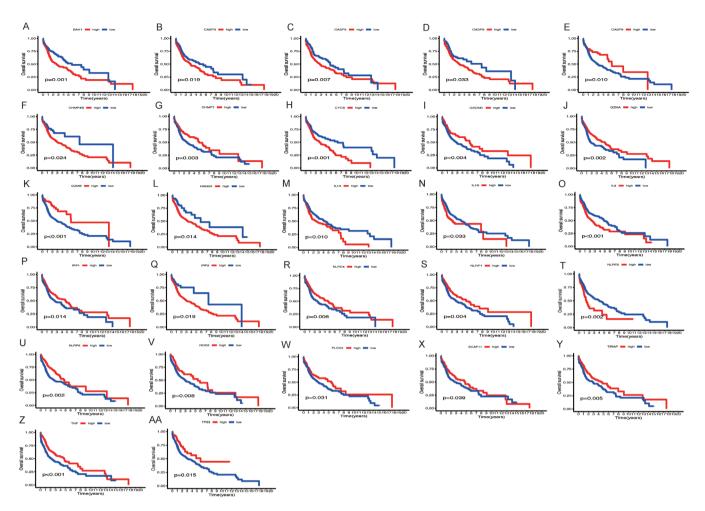


Figure S1 Overall survival curve of pyroptosis-related DEGs. (A-AA) Overall survival curve of pyroptosis-related DEGs in the survival analysis. DEGs, differentially expressed genes.

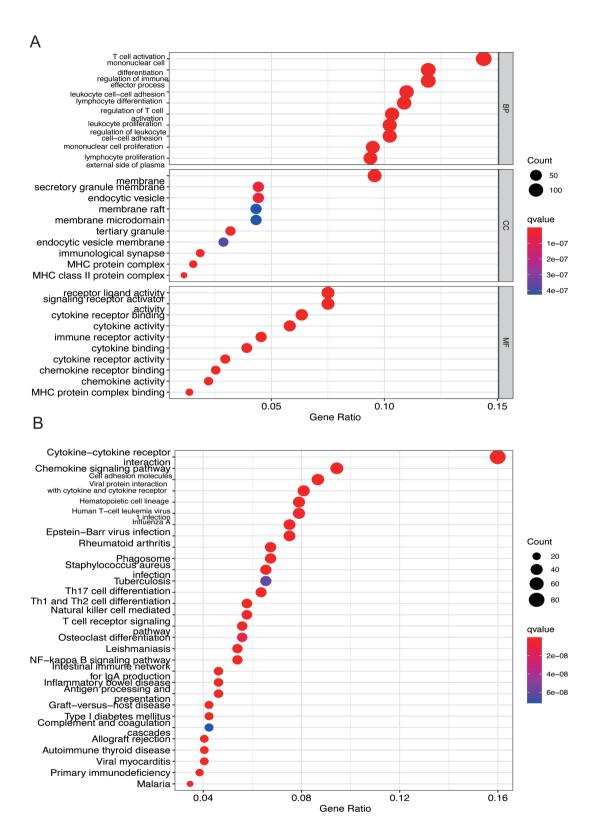


Figure S2 Immunological pathway analysis. (A) Bubble diagram of Gene Ontology (GO) pathways; (B) bubble diagram of Kyoto Encyclopedia of Genes and Genomes (KEGG) pathways.

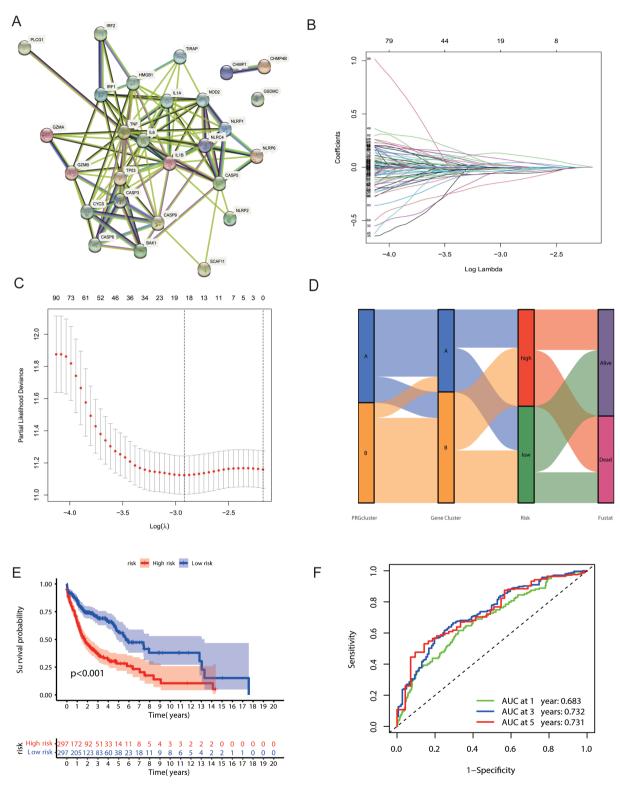


Figure S3 Analysis of prognostic models. (A) Protein-protein interaction (PPI) diagram of prognostic pyroptosis-related differentially expressed genes (DEGs); (B) LASSO regression graph of the prognostic model; (C) Lambda. minimum as the critical value of the prognostic model; (D) Sanggi diagram of the prognostic model; (E) aurvival curve of all groups; (F) receiver operating characteristic (ROC) curve of all groups. AUC, area under the curve.

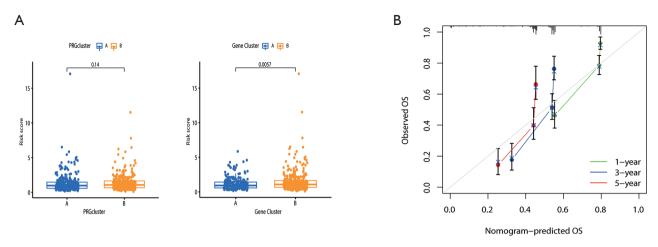


Figure S4 Clinical analysis of the prognostic models. (A) Risk score of the pyroptosis-related-gene (PRG) clusters and gene clusters; (B) predicted 1-, 3-, and 5-year survival calibration curve.

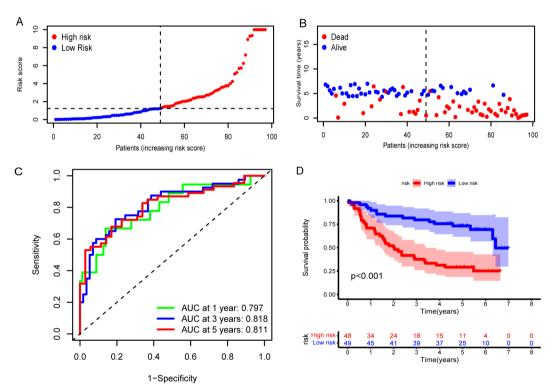
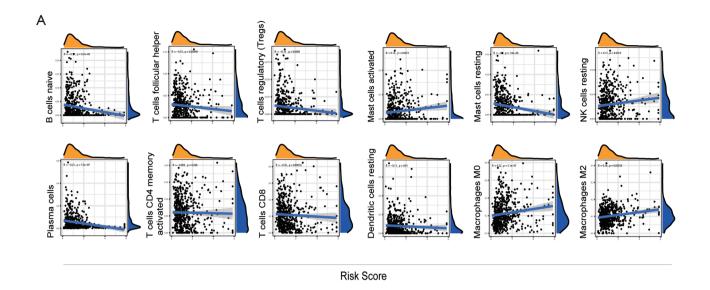


Figure S5 External validation of GEO data. (A) Risk curve of survival-related genes in the validation group; (B) survival state diagram of the survival-related genes in the validation group; (C) ROC curve of the validation group; (D) survival curve of the validation group. AUC, area under the curve; GEO, Gene Expression Omnibus; ROC, receiver operating characteristic.



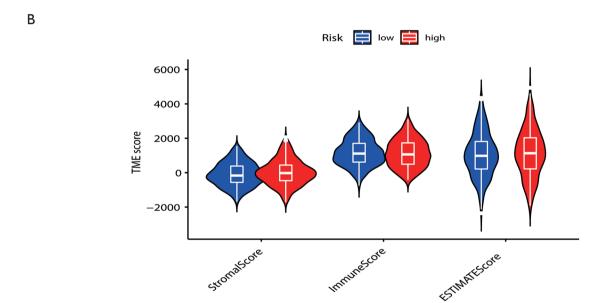


Figure S6 Analysis of the immune microenvironment of the prognostic models. (A) Correlation graph between the risk score and each immune cells; (B) differential analysis of tumor immune microenvironment. TME, tumor microenvironment.

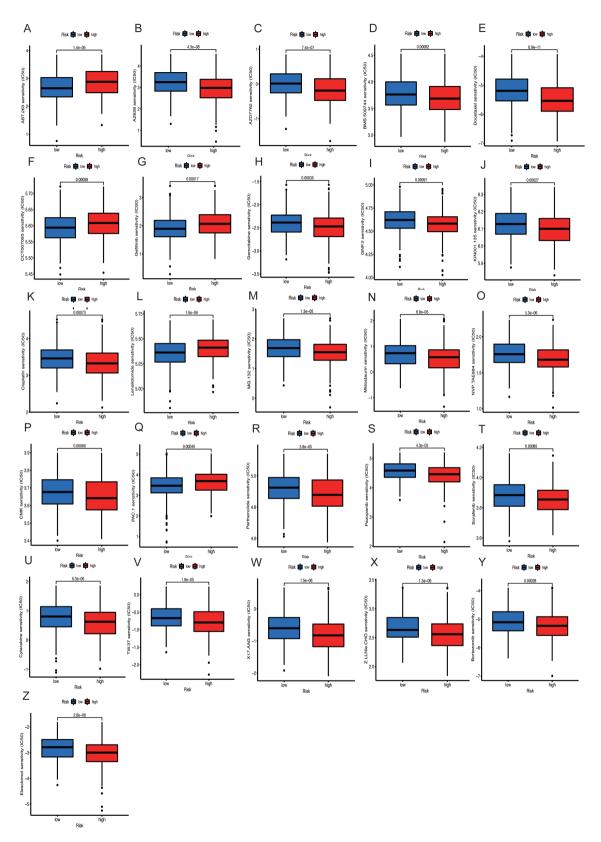


Figure S7 Analysis of differences in drug sensitivity. (A-Z) Analysis of differences in drug sensitivity between the high- and low-risk groups.