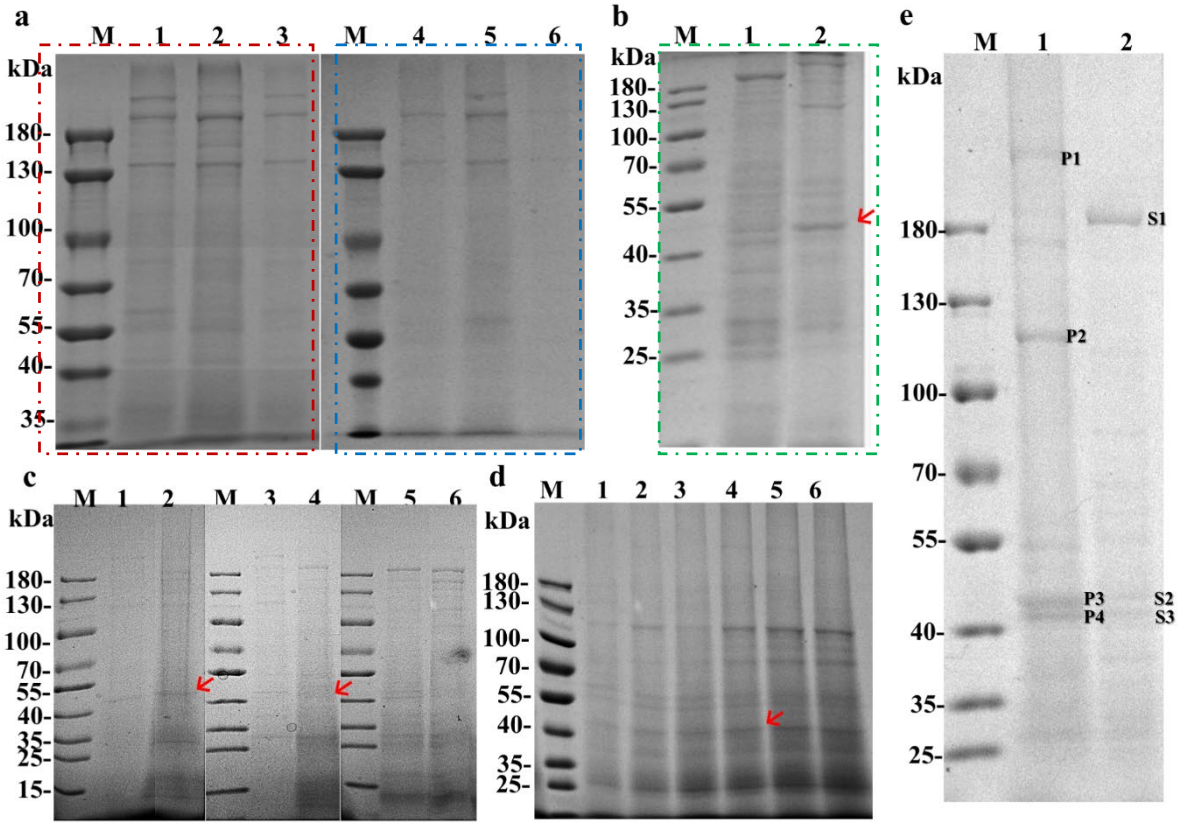


Figure 5. SDS–PAGE and mass spectrometry analysis of the D. farinae total protein extract..

The full uncropped Gels Fig.5

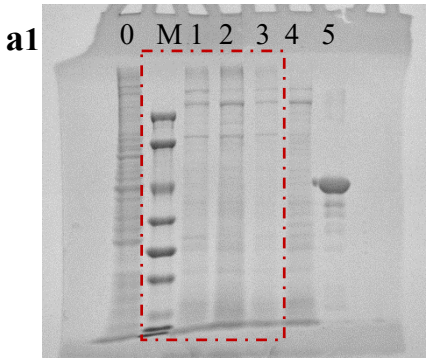


Fig5 a1. liquid nitrogen grinding for 20 minutes.
Uncropped Gels Lanes 1~4: were the results extracted by the four operators respectively, and the three bands in the red box in Figure 5a in the manuscript are the results of the first three operators.
Uncropped Gels Lane 5: Bovine serum Albumin (BSA) , as positive band of control, proves that the electrophoretic staining is correct.
Uncropped Gels Lane 0: not directly related to the results of this manuscript. At that time, we were conducting prokaryotic expression of *D. farinae* DFP1, preparing for subsequent protein purification and protein-interaction mechanism studies. Since there is only one sample, it is added to a piece of gel for electrophoresis.

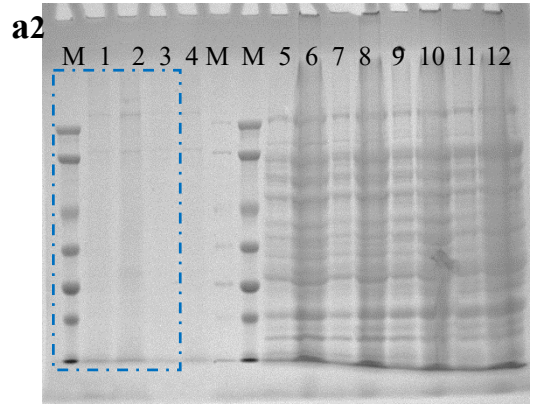


Fig5 a2. liquid nitrogen grinding for 40 minutes.
Uncropped Gels Lane 1~4: were the results extracted by the four operators respectively, and the three bands in the blue box in Figure 5a in the manuscript are the results of the first three operators.
Uncropped Gels Lanes 5~12: not directly related to the results of this manuscript. At that time, we were also conducting prokaryotic expression of *D. farinae* DFP2.

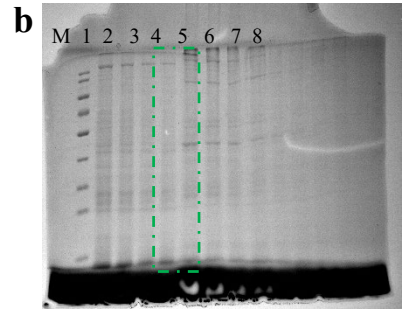


Fig5 b. Comparison of electrophoresis of supernatant and precipitate of total protein extracted from *D. farinae* by liquid nitrogen milling.
Uncropped Gels Lanes 1~4: the supernatant, 4 repeats.
Uncropped Gels Lanes 5~8: the precipitant, 4 repeats.
Uncropped Gels Lanes 4~5: Shows the bands in the green box of Fig5b Lanes 1~2 in the manuscript.

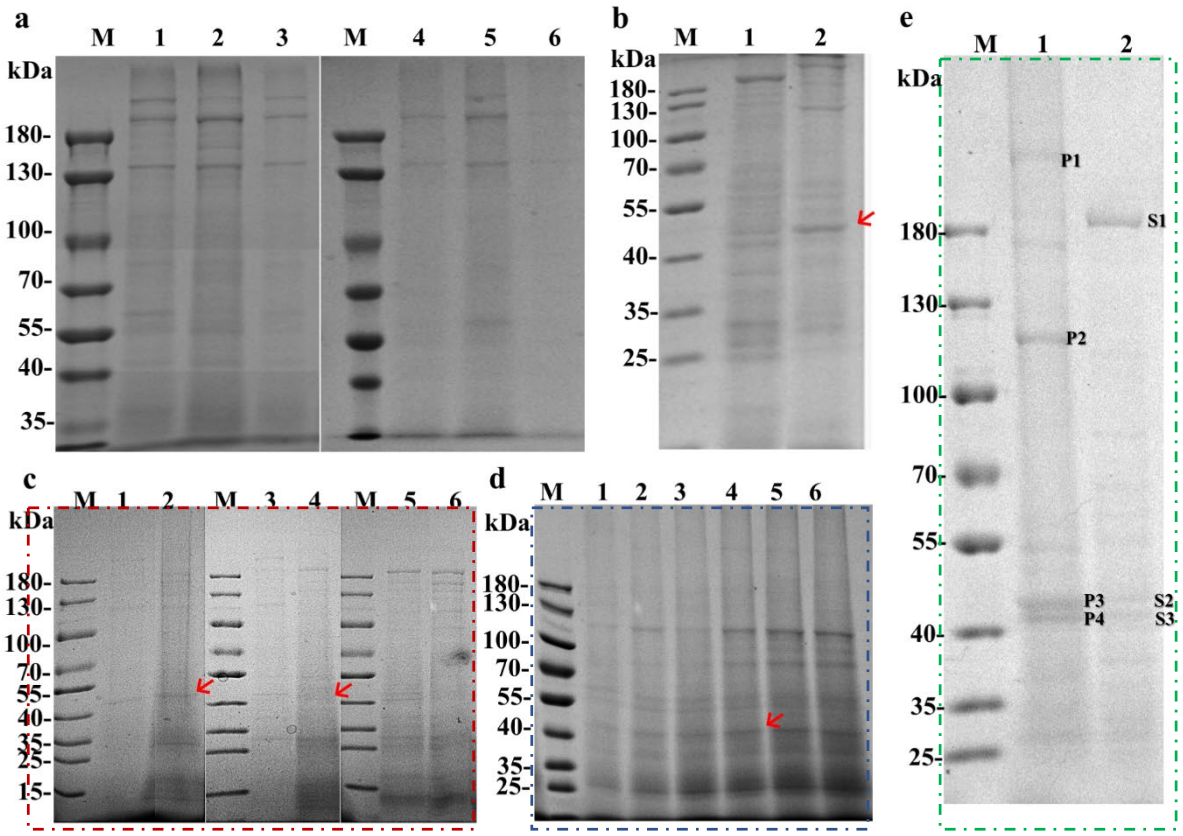


Figure 5. SDS–PAGE and mass spectrometry analysis of the D. farinae total protein extract.

The full uncropped Gels Fig.5

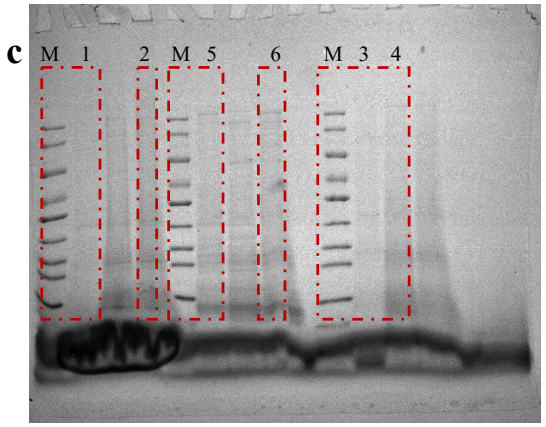


Fig5 c. Comparison of the two extraction methods and the three solutions to the target proteins.
Uncropped Gels Lanes 1~6: Shows the bands in the red box of Fig5c Lanes 1~6 in the manuscript.

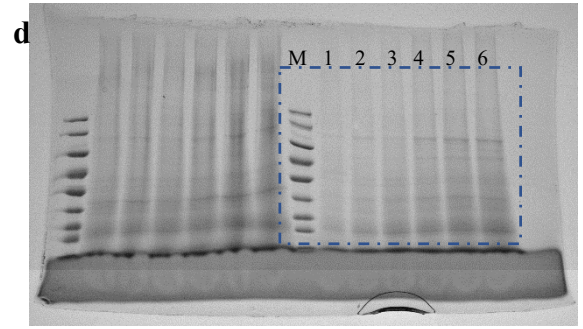


Fig5 d. Determine the target protein extraction parameters of the ultrasonic homogenization method.
Uncropped Gels Lanes 1~6: Shows the bands in the blue box of Fig5d Lanes 1~6 in the manuscript.

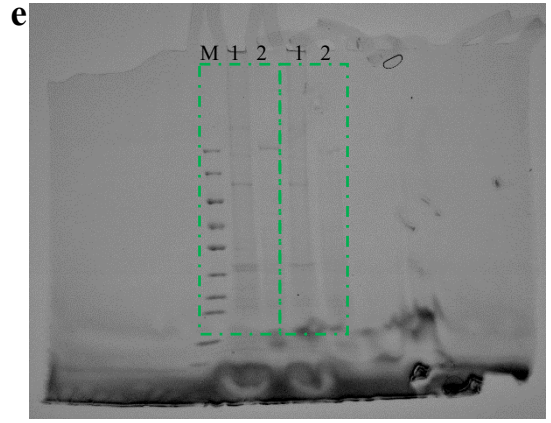


Fig5 e. Electrophoresis and mass spectrometry of *D. farinae* total protein.
Uncropped Gels Lane 1 is the precipitate (dissolved by 8 M urea), 2 repeats.
Uncropped Gels Lane 2 is the supernatant (dissolved by PBS), 2 repeats.
Uncropped Gels Lanes 1~2: Shows the bands in the green box of Fig5e Lanes 1~2 in the manuscript.

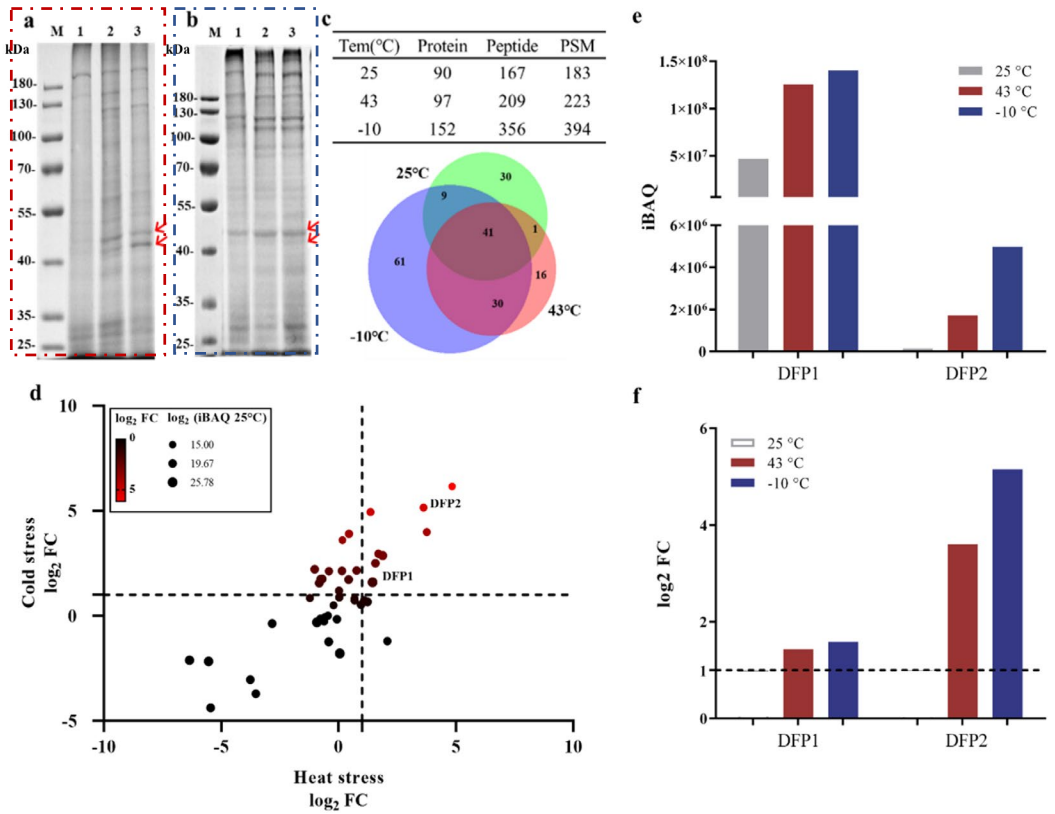
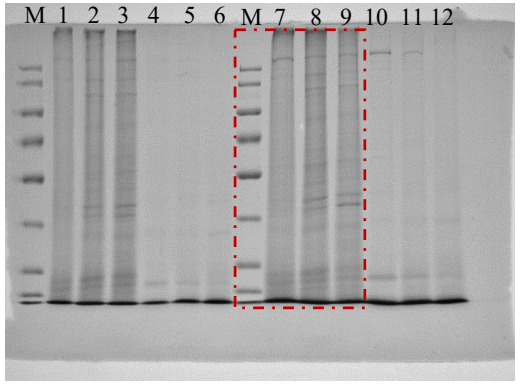


Figure 6. SDS–PAGE and mass spectrometry analysis of DFP1 and DFP2 under temperature stress.

The full uncropped Gels Fig.6

a



b

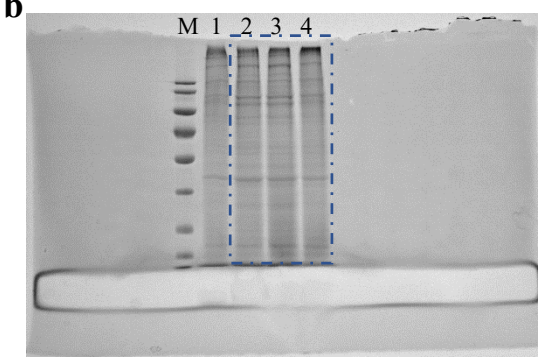


Fig6 a and b. Electrophoresis results of *D. farinae* precipitates under temperature stress

a: 4-20% gradient gel electrophoresis.
Uncropped Gels Lane 1~3: *D. farinae* precipitates under temperature stress, 10 ug/wells.
Uncropped Gels Lane 4~6: *D. farinae* supernatants under temperature stress, 10 ug/wells.
Uncropped Gels Lane 7~9: *D. farinae* precipitates under temperature stress, 20 ug/wells. They were selected for display in the manuscripts, see the red box of Fig6a.
Uncropped Gels Lane 10~12: *D. farinae* supernatants under temperature stress, 20 ug/wells.

b: 12% single-concentration separating gel electrophoresis.
Uncropped Gels Lane 1: 25 °C, the precipitates of *D. farinae*, 15ug/well.
Uncropped Gels Lane 2: 43 °C, the precipitates of *D. farinae*, 20ug/well.
Uncropped Gels Lane 3: -10 °C, the precipitates of *D. farinae*, 20ug/well.
Uncropped Gels Lane 4: 25 °C, the precipitates of *D. farinae*, 20ug/well.
In order to scientifically display the electrophoretic results, lane 2, 3 and 4 with the same dosage (20ug) were selected for display, and lane 1 (15ug) was cancelled and replaced by lane 4(20ug), see the blue box of Fig6b in the manuscripts.