Instrument: Thermo Scientific Q Exactive. Specific parameters are as follows. First mass spectrometry parameters: resolution: 70,000; AGC target: 3e6; Maximum IT: 40 ms; Scan range: 350 to 1800 m/z. Secondary mass spectrometry parameters: resolution: 17,500；AGC target: 1e5；Maximum IT: 60 ms; TopN: 20; NCE/stepped NCE: 27.

Purpose: Identifying the hereterodimer partner of KRT9 protein for epidermolytic palmoplantar keratoderma using co-immunoprecipitation coupled with mass spectroscopy.