



SUPPLEMENTAL FIGURE 1. Recovery confirmation of amino acids sequence of scleritin with the signal peptide and *de novo* sequencing spectra of the two peptides from scleritin sequence obtained by capillary-LC/ESI/MS/MS and used to design primers. (a) Recovery confirmation of the amino acids sequence of the scleritin with the signal peptide, (b) Spectrum of the PLSSEAVLFFNK peptide (m/z 711.89), (c) Spectrum of the KWNTFIELSK peptide (m/z 633.35). The *de novo sequencing* was performed by considering precise mass differences between adjacent b (red) and y (blue) ion series, (d) *de novo* result of the HGFIR peptide (m/z 628.34).