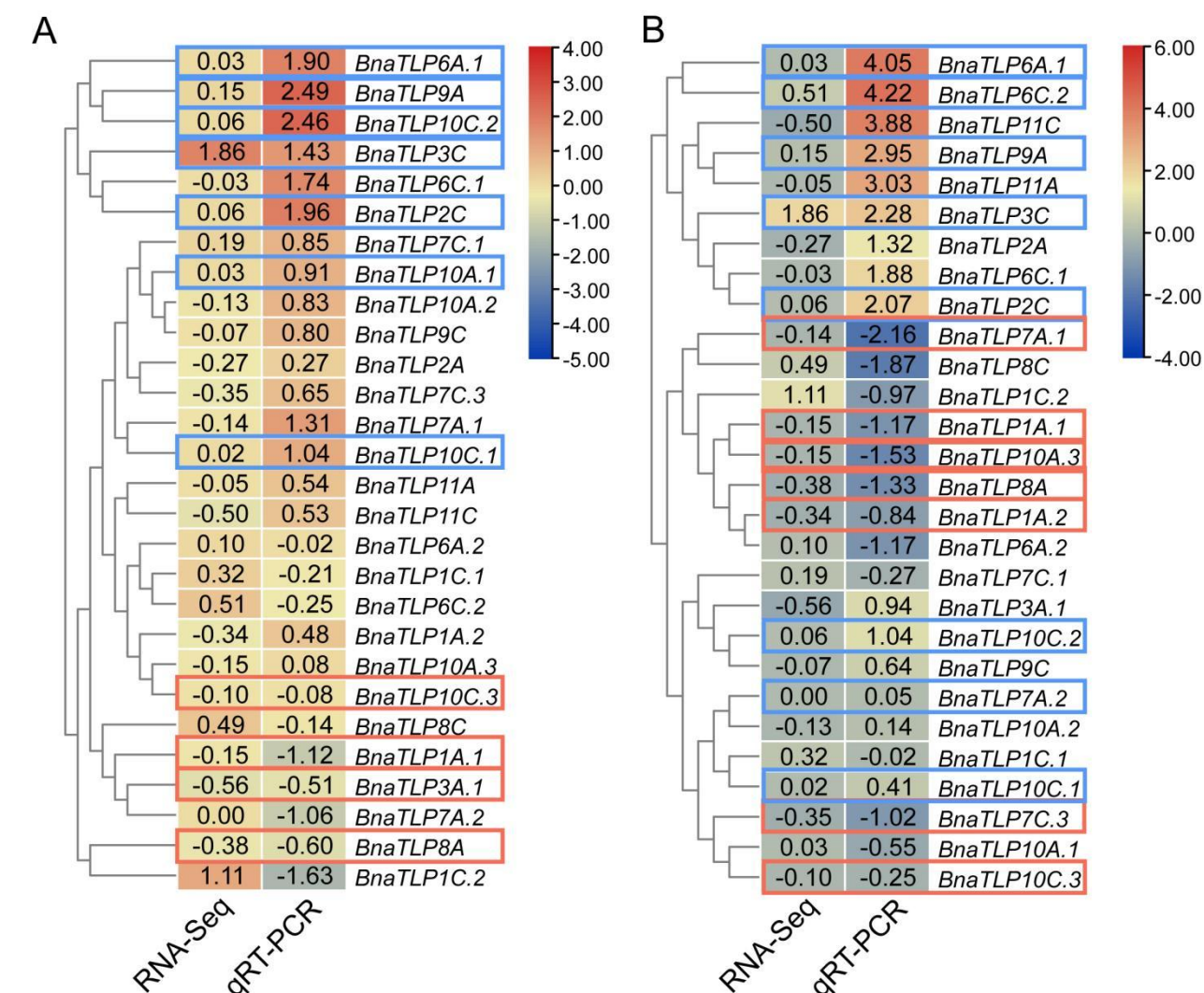




| Shoot                                                                                                                                           |                                                                                    | Root                                                                                                                                                               |                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Up-regulated                                                                                                                                    | Down-regulated                                                                     | Up-regulated                                                                                                                                                       | Down-regulated                                                                                                                                     |
| <i>BnaTLP6A.1</i> ; <i>BnaTLP9A</i> ;<br><i>BnaTLP10C.2</i> ; <i>BnaTLP3C</i> ;<br><i>BnaTLP2C</i> ; <i>BnaTLP10A.1</i> ;<br><i>BnaTLP10C.1</i> | <i>BnaTLP10C.3</i> ;<br><i>BnaTLP1A.1</i> ; <i>BnaTLP3A.1</i> ;<br><i>BnaTLP8A</i> | <i>BnaTLP6A.1</i> ; <i>BnaTLP6C.2</i> ;<br><i>BnaTLP9A</i> ; <i>BnaTLP10C.2</i> ;<br><i>BnaTLP3C</i> ; <i>BnaTLP2C</i> ;<br><i>BnaTLP10C.1</i> ; <i>BnaTLP7A.2</i> | <i>BnaTLP7A.1</i> ; <i>BnaTLP1A.1</i> ;<br><i>BnaTLP10A.3</i> ; <i>BnaTLP8A</i> ;<br><i>BnaTLP1A.2</i> ; <i>BnaTLP7C.3</i> ;<br><i>BnaTLP10C.3</i> |

**Supplementary Figure 5** | The transcriptome and qRT-PCR gene expression patterns analysis of *BnaTLPs* under PEG treatment. Expression of *BnaTLPs* in *B.napus* shoots (**A**) and roots (**B**). RNA-Seq represents the log<sub>2</sub> fold change between the transcriptome data and control data after PEG treatment for 12 hour; qRT-PCR represented the log<sub>2</sub> fold change between the Real-Time quantitative PCR data after PEG treatment for 12 hour and the 0 hour data after PEG treatment. The black numbers in the heatmap are the values for each transcript. The abundance of each transcript is

represented by a color bar. Red indicates a higher expression level, and blue indicates a lower expression level. (C) Expression of stress-responsive genes under PEG treatment, up-regulated/down-regulated genes were marked with blue/red boxes in (A) and (B).