Additional file 4. 18 groups of high-frequency codon pairs for codons for 18 amino acids (expecting Met and Trp) in Chinese bayberry. 64 codons were put in a clockwise order of 'U', 'C', 'A' and 'G'. Codons encoding the same amino acid or stop codons, as well as the amino acid, were indicated with the same color. The arrow lines represent high-frequency codon pairs; the direction of the arrow links the first codon to the one following, and the color is the same as that of the following codons.



































