Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: The source data of fig. 1d that GC content vs. chromosome number of Fabaceae and non-Fabaceae species.

File name: Supplementary Data 2 **Description:** The source data of fig. 2c that LTR insertion time and density in six Fabales plants.

File name: Supplementary Data 3

Description: The source data of fig. 3a that Distribution of synonymous substitution rates (Ks) of homologous gene pairs between O. viciifolia and other species.

File name: Supplementary Data 4

Description: The source data of fig. 3b that Syntenic depths between O. viciifolia and C. arietinum.