**Table S1** Six sampled *Phylloscopus* species.

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| Species | Sampling information |
| *Phylloscopus fuscatus* | Hongjiannao, Shaanxi Province, China in 2013 |
| *Phylloscopus burkii* | Wenxian County, Gansu Province, China in 2003 |
| *Phylloscopus reguloides* | Yanbian County, Sichuan Province, China in 2005  Yanbian County |
| *Phylloscopus borealis* | Lantian County, Shaanxi Province, China in 2018 |
| *Phylloscopus proregulus* | Zhouzhi County, Shaanxi Province, China in 2018 |
| *Phylloscopus trochiloides* | Lantian County, Shaanxi Province, China in 2018  Province, China |