***Supplementary materials***

**Supplementary Figures**

**Figure S1** Frequency distribution of the 17-mer graph analysis used to estimate the genome size of *Cranoglanis bouderius* (black line)and *K-mer* curve (blue dotted line) fitting was used to estimate the heterozygosity of *C. bouderius.*

**Figure S2** Distribution of gene length, CDS length, the numbers of exons and introns, and the length of exons and introns between *Cranoglanis bouderius* and related species.

**Figure S3** Image of *Cranoglanis bouderius* (Photographed by Yuan Xu).

**Figure S1**



**Figure S2**

**Figure S3**

