

# Characterization of a New Zircon Reference Material (TGZ) with Substantial Reserve for *In-Situ* U-Pb and Hf-O Isotope Analysis

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## **Table and Figure captions**

**Table S1.** Summary of U-Pb isotopic compositions of reported zircon reference materials.

**Table S2.** Major element compositions of TGZ zircon megacrysts determined by EPMA.

**Table S3.** Trace element compositions of TGZ zircon obtained by LA-ICP-MS analysis.

**Table S4.** U-Pb isotopic data of TGZ zircon obtained with CA-ID-TIMS.

**Table S5.** U-Pb dating results of TGZ zircon obtained by LA-ICP-MS analysis.

**Table S6.** Hafnium isotopic results of TGZ zircon.

**Table S7.** Oxygen isotopic results of TGZ zircon.

**Table S8.** Summary of recommended values for TGZ zircon.

**Fig. S1** Photographs of the TGZ zircon specimen. (a) Optical photograph of the TGZ megacrysts; (b) Reflected light image of a polished section for profile analysis.

**Fig. S1**

