

**Electronic Supplementary Information (ESI)**

**Tanz Zircon Megacrysts: A New Zircon Reference  
Material for the Microbeam Determination of U-Pb  
Ages and Zr-O Isotopes**

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## **Table and figure captions**

**Table S1** U-Pb isotopic data of the Tanz zircon obtained with CA-ID-TIMS at BSU.

**Table S2** U-Pb isotopic data of the Tanz zircon obtained with CA-ID-TIMS at BGS.

**Table S3** The oxygen isotopic composition of the Tanz zircon obtained with laser fluorination at both IGGCAS and USTC.

**Table S4** The Zr isotopic composition of the Tanz zircon obtained with ID-TIMS at CUG.

**Fig. S1** Photographs of the Tanz zircon megacrysts.