

## Supplemental Material

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## Supplemental Material

**Table S1.** mineral chemistry

**Table S2.** zircon U-Pb age

**Table S3.** major-trace element

**Table S4.** Sr-Nd isotope

**Table S5.** zircon Lu-Hf

**Table S6.** zircon log fO<sub>2</sub> value

**Table S7.** summarize table