**Supplementary Information**

Title:

**Efficient single-channel current measurements of the human BK channel using a liposome-immobilized gold probe**

Journal name:

**Analytical Sciences**

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**Figure S1.** Single-channel current recordings of the hBK channel measured multiple times using the probe with hBK channel-containing liposomes ("Probe-hBK-Liposome"). (a) Current-voltage relationships of the hBK channel measured in trial 1, 2, and 3. (b) Typical single-channel current traces of the hBK channel at +80 mV from each measurement.