## **Electronic Supplementary Information**

## Shape-switching self-assembly in water of new diblock copolymers with UCST-type and LCST-type segments

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Fig. S1 Turbidity curves of an aqueous solution of 2.0 g/L MOVE<sub>200</sub>-b-([EtIm][BF<sub>4</sub>])<sub>200</sub> containing 60 mM NaBF<sub>4</sub>, scan rate: 1 °C/min.



**Fig. S1** Turbidity curves of an aqueous solution of 2.0 g/L MOVE<sub>200</sub>-*b*-([EtIm][BF<sub>4</sub>])<sub>200</sub> containing 60 mM NaBF<sub>4</sub>, scan rate: 1 °C/min.