Amphiphilic block copolymer terminated with pyrene group: from switchable CO\textsubscript{2}-temperature dual responses to tunable fluorescence

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**Fig. S1** The photographs of reversible transparency-turbidity transition of copolymer micelle solution after heating-cooling cycle and bubbling CO$_2$-Ar cycle.

**Fig. S2** The reversible transmittance curves of Py-PCL-$b$-P(NIPAM-$co$-DMAEMA) micelle solutions at 25 °C and 50 °C, respectively.