Supplementary Information for:

Constructing Nanosized CdTe Nanocrystal Clusters with Thermo-responsive Photoluminescence Characteristics

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Fig. S1 integrals for $^1$H NMR spectrum of PNAEAM$_{12}$-b-PNIPAM$_{290}$ in D$_2$O at room temperature.
**Fig. S2** HRTEM images taken respectively from a selected individual CNC of PNAEAM$_{12}$-b-PNIPAM$_{290}$-CdTe CN$_6$ (A), and form one quarter of a PNAEAM$_{12}$-b-PNIPAM$_{290}$-CdTe CN$_{24}$ CNC (B).
Fig. S3 Repeatedly turning off/on the PL PNAEAM$_{12}$-b-PNIPAM$_{290}$-CdTe CN$_{24}$ CNCs in aqueous solution by heating/cooling cycles between 31 and 34 °C.
**Fig. S4** $I/I_0$ as a function of temperature for CNCs of PNAEAM\textsubscript{12}-b-PNIPAM\textsubscript{290}-CdTe NC\textsubscript{24} (▼), PNAEAM\textsubscript{12}-b-PNIPAM\textsubscript{440}-CdTe NC\textsubscript{24} (●), PNAEAM\textsubscript{12}-b-PNIPAM\textsubscript{580}-CdTe NC\textsubscript{24} (▲).
Fig. S5 $I/I_0$ as a function of temperature for CNCs of PNAEAM$_{12}$-b-PNIPAM$_{290}$-CdTe NC$_{24}$ at different concentration of 0.5 mg/mL (●), 1 mg/mL (▲), 5 mg/mL (▼).