Supplementary Information

Phase transformation of a rare-earth Anderson polyoxometalatate at low temperature

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**Fig. S1** View of complex hydrogen bonds for (a) phase 1 and (b) phase 1'.

**Fig. S2** XRD patterns of (i) the resulted samples at the first water-loss step of TGA; (ii) the resulted samples at the second water-loss step of TGA and (iii) rehydrated samples.

**Fig. S3** The comparison of calculated XRD patterns between 1 and 1'.
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