Supplementary information.

**Figure S1.** Fit of the high $T$ region of the $\chi_M T$ data. The quasi identical fits as a Mn$^{\text{III}}$ dimer plus two non-interacting Mn$^{\text{II}}$ atoms (red line, $g = 1.96$) or as a Mn$^{\text{II}}_2$Mn$^{\text{III}}_2$ isolated ring (blue line, $g = 1.99$) do not give arguments to propose clearly dominant intracluster or intercluster coupling constant.

**Figure S2.** FC/ZFC measurement for 1. Irreversibility was not observed in the ZFC and FC magnetization at the limit of 1.8 K in agreement with the lack of hysteresis cycle at this temperature.
Figure S3. Reduced magnetization experiment for 1 showing a non-negligible anisotropy at low T.

Figure S4. Argand plot for compound 1.
Figure S5. Linear fit (solid line, $\Delta_\kappa = 7.73$) of the semilog plot of $\chi_M' T$ versus $1/T$ in the temperature range 2-10 K for 1.