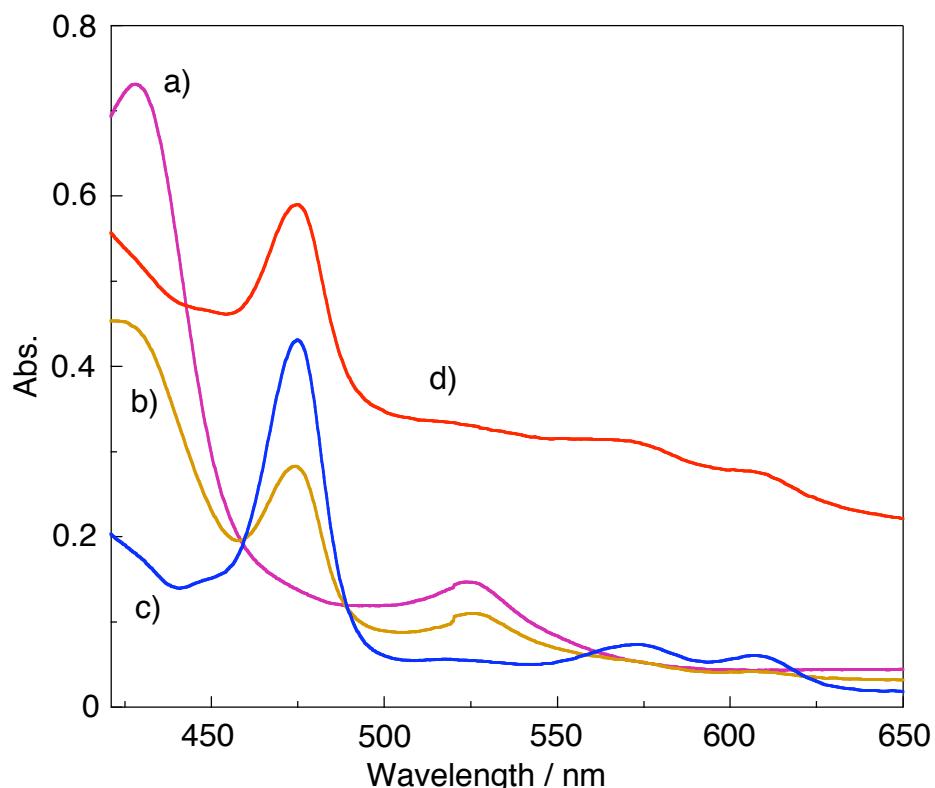


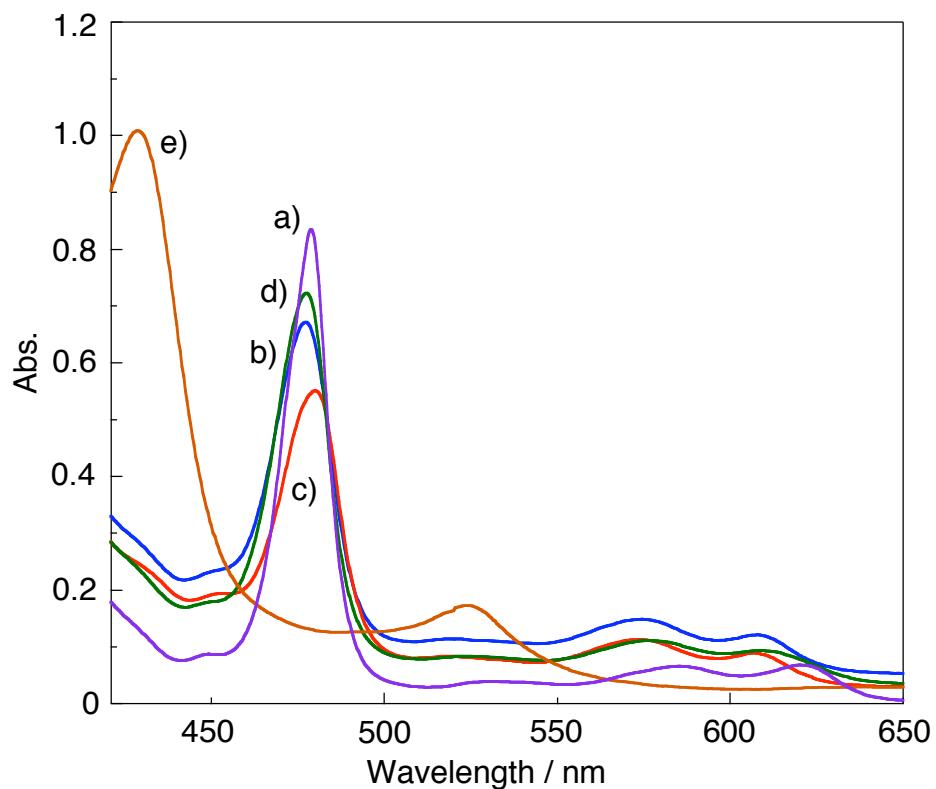
(*Electronic Supplementary Information*)

Mechanistic insights into the co-catalyst effect of Au clusters in Mn-porphyrin-catalyzed olefin oxidation

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S-Fig. 1 Absorption spectra in CH_2Cl_2 at 25 °C of the filtered reaction mixtures of **1**/Mn(TPP)Cl after 2 h of reaction under the conditions given in Figure 2. $[\mathbf{1}]_0 / [\text{Mn}(\text{TPP})\text{Cl}]_0 = \text{a) } 0, \text{b) } 0.2, \text{c) } 0.3, \text{ and d) } 1.0$.



S-Fig. 2. Absorption spectra in CH₂Cl₂ at 25 °C of Mn(TMP)Cl (a) and the filtered reaction mixtures of Mn(TMP)Cl/Au cluster systems coupled with b) Au:SC12 (blue), c) Au:SBn (red), d) Au:PPh₃ (green), and e) Au:PVP (orange) after 2 h of reaction under the conditions in Figure 7.