

Table S1. Quantum yields of compounds **1**, **2**, and their Eu³⁺-only analogue. Sample letters A and B indicate two independently synthesized sample of each compound. Average quantum yields are: Eu³⁺ = 22.5%, Tb³⁺ = 31.6%, Eu³⁺/Tb³⁺ = 38.5%.

Ln ³⁺	Sample	Wavelength (nm)	Φ (%)
Eu	A	313	24.8
Eu	B	313	22.6
Eu	A	340	22.8
Eu	B	340	19.7
Tb	A	313	36.8
Tb	B	313	36.1
Tb	A	340	33.7
Tb	B	340	20.8
Eu/Tb	A	313	36.4
Eu/Tb	B	313	41.2
Eu/Tb	A	340	37.3
Eu/Tb	B	340	39.0

Figures S1 and S2: Excitation spectrum of Compound **1** and combined excitation/emission spectrum of Compound **1**.



