Electronic Supplementary Material (ESI) for Nanoscale. This journal is © The Royal Society of Chemistry 2015

| Intended Tb ³⁺ Dopant Concentration in Gd _{1-x} Tb _x OCI | x = 0.020 | x = 0.050 | x = 0.100 | x = 0.150 | x = 0.200 | x = 0.250 | x = 0.300 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Actual Tb ³⁺ Dopant Concentration in Gd _{1-x} Tb _x OCl | x = 0.018 | x = 0.042 | x = 0.084 | x = 0.131 | x = 0.171 | x = 0.216 | x = 0.234 |

Table S1. The top row shows the intended Tb^{3+} dopant concentration for $Gd_{1-x}Tb_xOCI$, whereas the bottom row shows the actual dopant concentration as determined by inductively coupled plasma mass spectrometry.

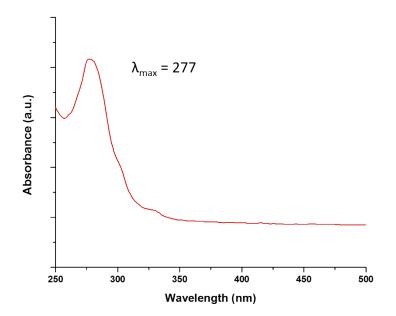


Figure S1. Optical absorption spectrum of $Gd_{0.985}Tb_{0.015}OCI$ nanocrystals dispersed in hexanes.