

## Supporting Information

**Figure S1:** The time resolved fluorescence of Aladan-GB1's and NAAA in aqueous buffer measured at 12 wavelengths by fluorescence upconversion (left column) and by time-correlated single photon counting (right column). Excitation occurs at 1 ps on the time axis for upconversion spectroscopy and at 1 ns for time-correlated single photon counting. The time axis is logarithmic. The labels are in units of energy in wavenumbers.



