**Figure captions for Supplementary Information**

**Fig. S1** Changes of UV-Vis spectra of sensor 1 in CH$_3$CN upon the addition of AcO$^-$ (a) and H$_2$PO$_4^-$ ions (b) The inset shows the change of absorbance at 525 nm as a function of the equivalents of anion added.

**Fig. S2** Changes of UV-Vis spectra of sensor 2 in CH$_3$CN upon the addition of AcO$^-$ (a) and H$_2$PO$_4^-$ (b) The inset shows the change of absorbance at 540 nm as a function of the equivalents of anion added.

**Fig. S3** Time-resolved photoluminescence decay trace of 1 in CH$_3$CN at room temperature, obtained with 440 nm excitation.

**Fig. S4** Changes of photoluminescence intensity of 1 in CH$_3$CN upon the addition of H$_2$PO$_4^-$ (a) and AcO$^-$ (b) ions. The inset shows the photoluminescence intensity change as a function of the equivalent of anion added.

**Fig. S5** Cyclic voltammograms of 1 (a) and 2 (b) in the presence and absence of TBAF in CH$_3$CN.
Figures for Supplementary Information

(a)

(b)

Fig. S1
Fig. S3
Fig. S4
Fig. S5