



**Figure S1.** HPLC and Mass Spectrometry (MS) profiles of SET-M33 conjugated with tetramethylrhodamine (SET-M33-TMR) and free SET-M33. A and C, reverse phase HPLC profiles of SET-M33-TMR (A) and SET-M33 (C) with test method (below) and retention times (above the peaks). B and D, MS profiles of SET-M33-TMR (B) and SET-M33 (D) with the indication of revealed (above the main peak) and calculated MW (below the graph).