**FIGURE S5.**—Phylogenetic tree of selected transposons from animals from Repbase, two SP1Y elements, and this study (see text for details). Taxa identified as having base pairs "A" and "T" at TSD positions 4 and 5 respectively are shown in red (see text for details). Numbers next to most nodes indicates local support values based on the Shimodaira-Hasegawa test as implemented in the program FastTree2. Nodal support was not shown for several clades with very small branches to help legibility. The scale bar represents a phylogenetic distance of 1 amino acid substitutions per site.