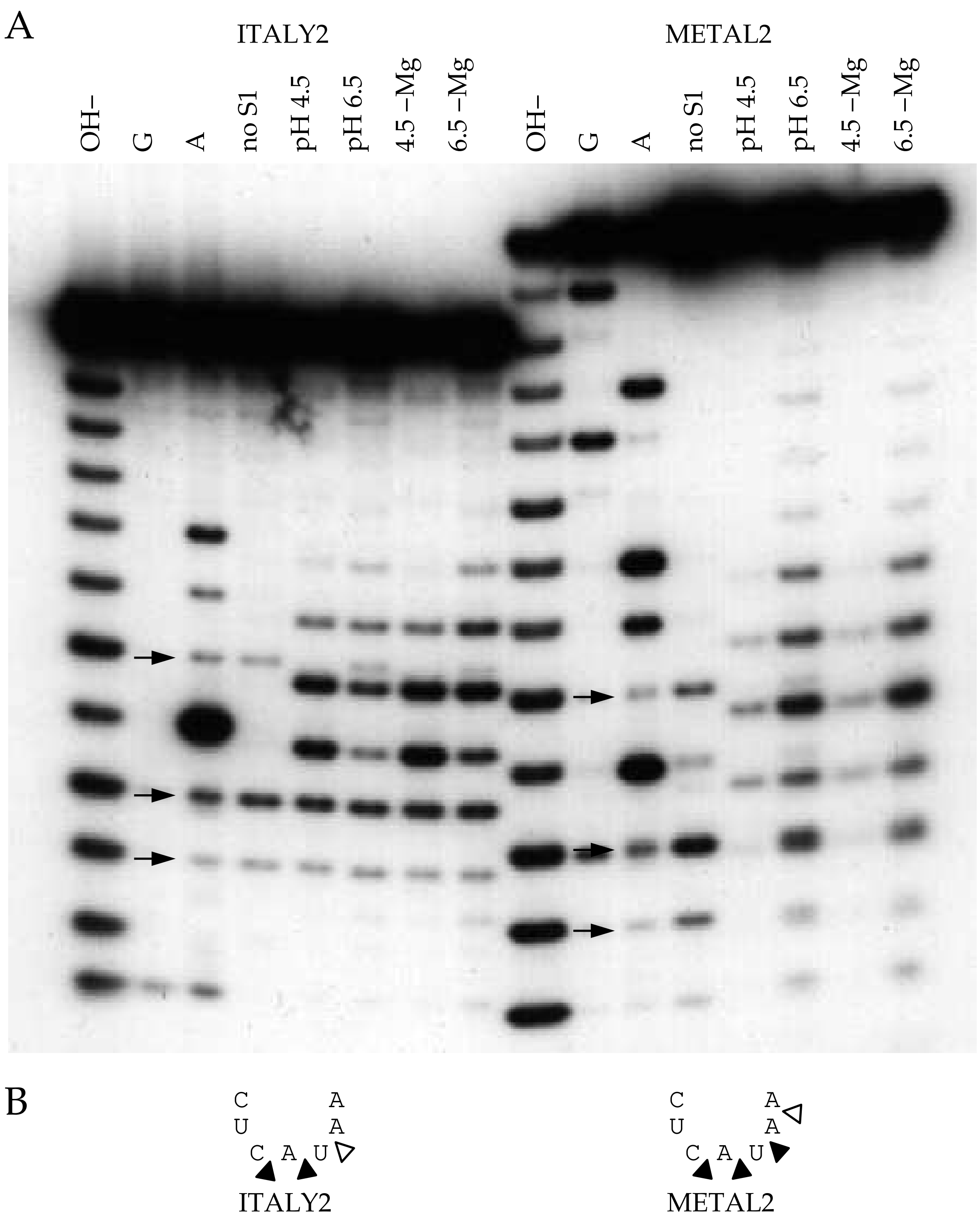

Figure 2.3.1: Sequencing and S1 nuclease cleavage of ITALY2 and METAL2. A: Lanes 1–8, ITALY2. Lanes 9–16, METAL2. Lanes 1 and 9, hydroxyl ladder. Lanes 2, 3, 10 and 11, T1 (G–specific) and U2 (A–specific) sequencing reactions. Lanes 4–8 and 12–16, S1 cleavage reactions. Lanes 4, 5, 7, 12, 13 and 15, pH 4.5. Lanes 6, 8, 14 and 16, pH 6.5. Lanes 7, 8, 15 and 16, no Mg^{++}. Lanes 4 and 12, no S1. Arrows indicate nonenzymatic cleavage. B: S1 nuclease cleavage sites (lanes 5 and 13) displayed on the sequences of the loops of ITALY2 and METAL2.