Base pairing interactions between substrate RNA and H/ACA guide RNA modulate the kinetics of pseudouridylation, but not the affinity of substrate binding by H/ACA small nucleolar Ribonucleoproteins

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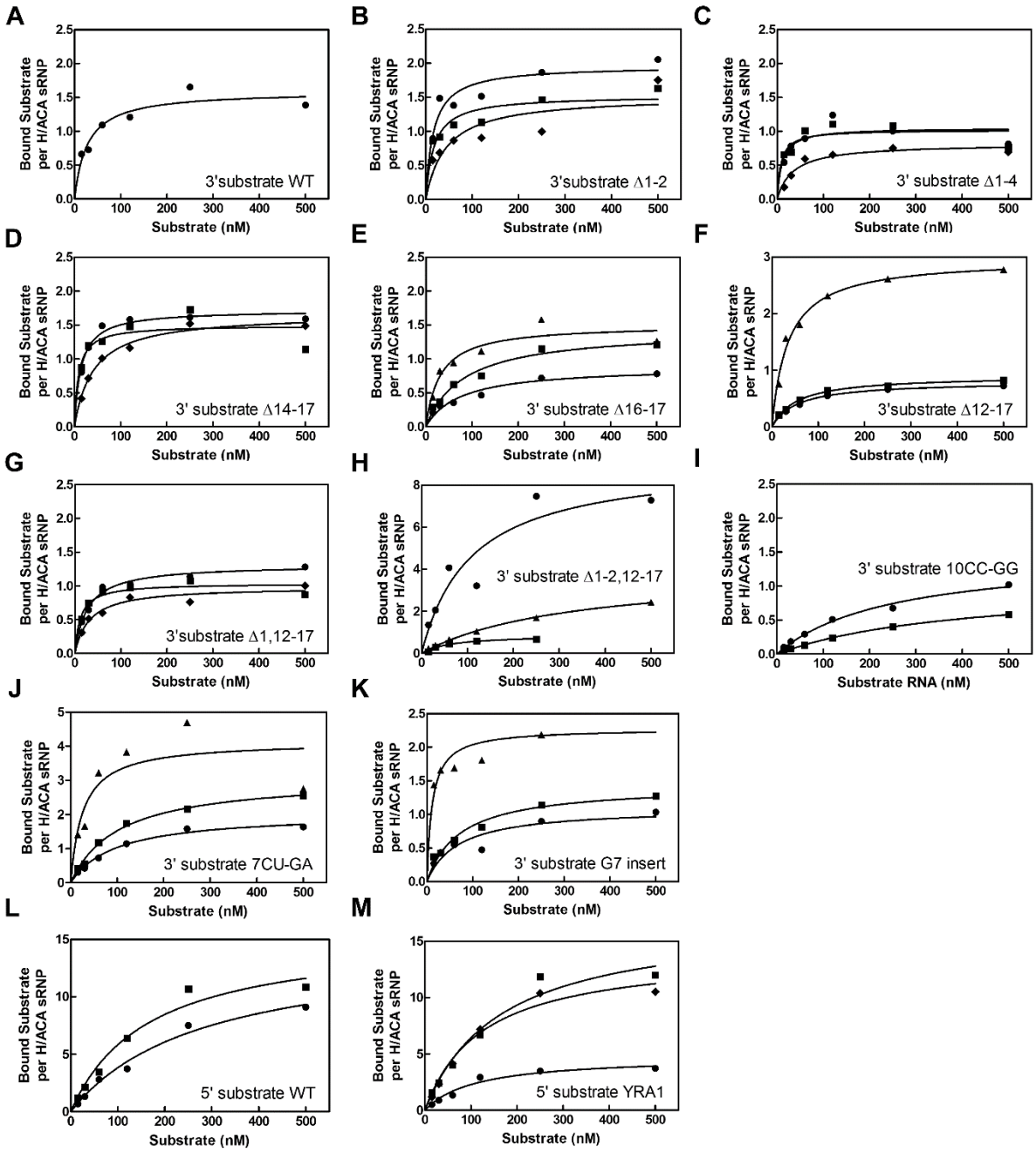

Figure S1. Affinity of the snR34 H/ACA snoRNP for short substrate RNA variants. Affinity of the wild-type snoRNP was determined for each substrate RNA variant using nitrocellulose filtration. The dissociation constant (K_D) was determined by fitting the data to a hyperbolic equation (smooth lines – see Materials and Methods). Dissociation constants are listed in Table 4. (A) 3′ hairpin substrate wild type (previously determined by (Caton, Kelly et al. 2018)). (B) 3′ hairpin substrate Δ1-2. (C) 3′ hairpin substrate Δ1-4. (D) 3′ hairpin substrate Δ14-17. (E) 3′ hairpin substrate Δ16-17. (F) 3′ hairpin substrate Δ12-17. (G) 3′ hairpin substrate Δ1,12-17. (H) 3′ hairpin substrate Δ1-2,12-17. (I) 3′ hairpin substrate 10CC-GG. (J) 3′ hairpin substrate 7CU-GA. (K) 3′ hairpin substrate G7 insert. (L) 5′ hairpin substrate wild type. (M) 5′ hairpin substrate YRA1.