

**Supporting Information S1. The benchmark dataset  $\mathbb{S}(1)$  for *H. sapiens*.** It is formed by 495  $\Psi$ -site-containing sequences and 495 false  $\Psi$ -site-containing sequences. Each of these samples is 21-bp long with the uridine located at the center. None of the sequences included here has  $\geq 60\%$  pairwise sequence identity to any other in a same subset.

### **I. 495 $\Psi$ -site-containing sequences (positive samples)**

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