**The benchmark dataset H\_990 for *H.sapiens*.** It is formed by 495 Ψ-site-containing sequences and 495 false Ψ-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 pairwise sequence identity to any other in a same subset.

**I. 495 Ψ-site-containing sequences (positive samples)**

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