**The benchmark dataset M\_944 for *M.musculus***.It is formed by 472 Ψ-site-containing sequences and 472 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 $\geq 60\%$ pairwise sequence identity to any other in a same subset.

**I. 472 Ψ-site-containing sequences (positive samples)**

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