

Supporting Information S3. The benchmark dataset $\mathbb{S}(3)$ 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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