

**Online Supporting Information A:** The accession numbers and sequences of the 714 nuclear proteins in the benchmark dataset  $\mathcal{S}$  classified into 9 subsets (subnuclear locations) according to their experimental annotations. See the text and Table 1 of the paper for further explanation.

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(1)  $\mathcal{S}_1$ : 99 chromatin proteins

>Q02206

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>Q5FWY4

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>O42709

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>Q04636

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>P43609

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>Q9UUM2

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>P07247

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>P23615

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>P20449

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>P49792

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>P12270

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