

Supporting Information S1. The benchmark dataset consists of a positive dataset and a negative dataset. The positive dataset contains 120 true m⁵C sites containing sequences with the m⁵C sites in the center, while the negative dataset contains 120 negative m⁵C sites containing sequences and 9 other negative datasets. Each of these segments is 41-bp long.

I. 120 true m⁵C sites containing sequences (S⁺)

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>P_2
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>P_3
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>P_4
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>P_5
UGACUGCAGAUCAAGAGGUCCCCGGUUCAAAUCCGGGUGCC
>P_6
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>P_7
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>P_8
AGCCCAGGGCUGGGCCCCGGGCAGAGCCGCCGCAGGUGCAGA
>P_9
CUGCGGUGAGUCUUGAAGCCCAGGGCUGGGCCCCGGGCAGAG
>P_10
UAUUUGAUCGGAUCGUGACCCCAGCCCCGCCGGGCCGACCC
>P_11
CGCUGUGGUCCCCGAGGUCCCCGGAGCUGGCCCUUGCGGGGCC
>P_12
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>P_13
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>P_14
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>P_15
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>P_16
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>P_19
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>P_20
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>P_21
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>P_22
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>P_28
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>P_30
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>P_31
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>P_63
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>P_107
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 CAAUCCCCGGCACCUCCAUUCUUUUGCUUUUAAUUUUUUU
 >P_111
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 >P_118
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 >P_119
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 >P_120
 AGAACUGCUAACUCAUGCCCCCAUGUCUAACAACAUGGCUU

II. 120 false m⁵C sites containing sequences (S₀⁻)

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 GGGAGUGGGAACAGGAUUUGCAAGACUCCUAGUACCUAAA
 >N_2
 GAAAUUGGCCUCAUUUGAUAAUAGUAGGUUUUACACAGUGU
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 GGGCAGCCUCCUUCUUGUCUCUGUUGUUGAGGAGUGGAAUG
 >N_4
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 >N_5
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>N_25
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The other nine Negative Dataset

I. Negative Dataset 1 (S_1^-)

>Negative Dataset_1_1
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>Negative Dataset_1_2
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>Negative Dataset_1_3
CAAGGCCUAGGAGAAUGCCACCUCUGACUUUGAAGCUCAA
>Negative Dataset_1_4
GGAUGGAUUACACAAGCCUUCUUGACUGCUACAUGAGCCAA
>Negative Dataset_1_5
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>Negative Dataset_1_6
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>Negative Dataset_1_9
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>Negative Dataset_1_10
CAUGCAUUUACUUCUUAUAAUCAGUAUAGAUCUAGGGUGUAU
>Negative Dataset_1_11
AAACCUGAUACAGGAGGGAUCUCUCCCCCUUCUAGGAAACU
>Negative Dataset_1_12
CAGCUUUC AUGGAUAUAUUUCCAAUGCUGGGGGUGCGGGGA
>Negative Dataset_1_13
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>Negative Dataset_1_14
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>Negative Dataset_1_15
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>Negative Dataset_1_16
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>Negative Dataset_1_17
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>Negative Dataset_1_18
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>Negative Dataset_1_19
AUUCCAGAAAAGUUUAGCUUCUUGUUUCUUCUUCUUCUGU
>Negative Dataset_1_20
UUAUUAAUGGCCAGUGACACCAAACAGAAGUCAGGACUCC
>Negative Dataset_1_21
UAGACUCUACAUUCUCUCUGCUCCCUUCCUGAGUGUCUCAU
>Negative Dataset_1_22
CUGUUGACUCUGGAGCUCAACAUGCCAGUGUCUGCAUCGUG
>Negative Dataset_1_23
UUUCUGGUUCCAUCCAUUUGCCUGAGAAUUUCAUGAUGUCA
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>Negative Dataset_1_25
GAAGUAGGGUUGGUAAAGACCUUUUCCCAAUCUUUUGGUUG
>Negative Dataset_1_26
UUUUCAAUUUUAUGAGGUCCCAUUUGUCAAUUGUUGAUCUU
>Negative Dataset_1_27
GAUUUGC UUUCUUCUGCAUGCUGACUACCAGUUGAACCAGC
>Negative Dataset_1_28
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 >Negative Dataset_1_112
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 >Negative Dataset_1_113
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 >Negative Dataset_1_119
 CUAUCAGGCUCUACCUUAUUCCCUUCAGACAGGUUUUCCAA
 >Negative Dataset_1_120
 CUGACCUUGAGUUAGGCUAGCAGCCACAAAGUCCCAGAAUC

II. Negative Dataset 2 (S_2^-)

>Negative Dataset_2_1
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 >Negative Dataset_2_3
 AAACAGAGCACACAAACUUUCAGAAUGGGAAUCAUGCACAU
 >Negative Dataset_2_4
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 >Negative Dataset_2_5

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>Negative Dataset_2_6
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III. Negative Dataset 3 (S_3^-)

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IV. Negative Dataset 4 (S_4^-)

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V. Negative Dataset 5 (S_5^-)

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VI. Negative Dataset 6 (S_6^-)

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VII. Negative Dataset 7 (S₇)

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VIII. Negative Dataset 8 (S_8^-)

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IX. Negative Dataset 9 (S_9^-)

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