

Supplementary Information S4. The independent dataset contains 100 strong enhancers, 100 weak enhancers, and 200 non-enhancers. None of the sequences included has $\geq 80\%$ pairwise sequence identity with any other in a same subset and the benchmark dataset.

(1) 100 strong enhancers

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(3) 200 non-enhancers

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GGGCT

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GATTG

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>hg19_ct_UserTrack_3545_605 range=chr5:36379044-36398243 5'pad=0
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TTACT

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>hg19_ct_UserTrack_3545_785 range=chr3:59244761-59294360 5'pad=0
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AGTGC

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>hg19_ct_UserTrack_3545_306 range=chrX:76140007-76380809 5'pad=0
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>hg19_ct_UserTrack_3545_449 range=chr11:16692025-16759024 5'pad=0
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GAAGAACTACCTAAAATATATATACATATATATAATTATTCATATATATATATAAAAATCCTTCA
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>hg19_ct_UserTrack_3545_231 range=chr10:132366211-132858410 5'pad=0
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>hg19_ct_UserTrack_3545_287 range=chr4:105416952-105613551 5'pad=0
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>hg19_ct_UserTrack_3545_1074 range=chr19:53239189-53251588 5'pad=0
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>hg19_ct_UserTrack_3545_13 range=chr5:23978444-24504443 5'pad=0
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GCTGG

>hg19_ct_UserTrack_3545_1682 range=chr1:176918578-176923377 5'pad=0
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CCATGGCTGCTCCCTCCAATGATGTCCCTGGCATAATCCTAGAAACCTGTGAAGATATCACCTCA
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>hg19_ct_UserTrack_3545_1824 range=chr3:192490707-192507106 5'pad=0
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AATTT

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>hg19_ct_UserTrack_3545_58 range=chr4:136292751-136339550 5'pad=0
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TTGCT

>hg19_ct_UserTrack_3545_2132 range=chr2:235412462-235453461 5'pad=0
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>hg19_ct_UserTrack_3545_313 range=chr3:163065707-163487306 5'pad=0
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>hg19_ct_UserTrack_3545_456 range=chrX:126012720-126480719 5'pad=0
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