

Online Supporting Information S3: The independent dataset contains **400** DNA sample sites out of which are **100** DNA Strong Enhancer sites, **100** DNA Weak Enhancer sites and **200** DNA Non-Enhancer Sites. See the text of the paper for further explanation.

I. 100 DNA Strong Enhancer Sites

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gcaagctatcaaaacttacatactttaaaatataagaccatttatcttttctcatgggactcaga
gttcc
```

```
>hg19_ct_usertrack_3545_5887 range=chr14:100030048-1000312475'pad=0 3'pad=0
strand=+ repeatmasking=none_2
ctccatagaggctggacctcactcccattagccatggaagagagcactgtctctccacagaagtt
tcttgttttgttggttctgcgcagtgaggggacagacaggtggagacctcttcgcacccac
tgctgcgtccttgctgctctctggtcctgataaccaagaagcaccagggcttgactctcctcc
ttgca
```

```
>hg19_ct_usertrack_3545_8816 range=chr7:121096565-121097564 5'pad=03'pad=0
strand=+ repeatmasking=none_3
gagctagtgcattccctgtctgcccctagctggtgtgtctctaggttgcatcacctcaagttg
actggctcctatcccagcacagcactaggacttgcccagaaattgtggttcttggtggcctagact
gccttccaaattttatttaggaccccagagtactttagcctgcagtgatggggctagccagaactc
aggtt
```

```
>hg19_ct_usertrack_3545_6900 range=chr6:83779082-83779881 5'pad=03'pad=0
strand=+ repeatmasking=none_2
gtggagtgtagttattgattttattcaaaatggcattttgaggttccaacaagtgaagacttggt
gataatggcatcattttgctgtgatgatttctccttatagtcattcctaaatgaaatta
tggtagaagccacccaaaatgtgcttactgtgtaataactacctattttaagagcttatatcatg
gaaa
```

```
>hg19_ct_usertrack_3545_232 range=chr11:1330825-1331024 5'pad=03'pad=0 strand=+
repeatmasking=none_0
cctcgaggccgcccgcgccacagtcagctgacagccgcccgcgccccgccccggcaccgccccac
tgcgaggcgccgcccaggcaccgccccttcggctctcgcgcgacgcgctccagggtagg
gcaggcgagcctctcgcccggcgctgcgcacctgctctctcctcgagccctgcagcccggcga
aatgg
```

```
>hg19_ct_usertrack_3545_6082 range=chr10:84519421-84520020 5'pad=03'pad=0
strand=+ repeatmasking=none_1
agaaacagcggaaggaaggatggtaggtaacagtcggcacaagacacacaaagaggaaactctat
gggttctgcatgctgagttgctgaaaatgagctttaagggttaaagccaggagtttggaattaat
gtgtagcatgtgaaatataaaaaactccattcaatgccctcaattttatcagaggattagggtaa
```

cctcc

```
>hg19_ct_usertrack_3545_2631 range=chr12:29224734-29225333 5'pad=03'pad=0
strand=+ repeatmasking=none_1
gttaactaaccaccattaatcacccaaagcatagatcaaattgcaaacccattatagaaaaaagag
aatgaggaacagtgtgtgtccttttggtcaggagtgtgctaacacaggaatagataggatcctaa
aatgcaacaatcaatggcaagtgtcctttttaatttagtgggcaaccagaggtgacatgatttga
tgcct
```

```
>hg19_ct_usertrack_3545_2008 range=chr8:23313456-23314255 5'pad=03'pad=0
strand=+ repeatmasking=none_3
catttcctattagaggtagaagaatataagccatagattcaacatgcaacaactacaagacctct
gttaaggtaaacagagaaataaacgattcaactacacgaattagtgttccattttataaattctac
tatgtcaaacagaattaacaaacctgatacaaaaaacatcaaatatatggtaacacaaataatata
actct
```

```
>hg19_ct_usertrack_3545_3152 range=chr19:35631561-35632360 5'pad=03'pad=0
strand=+ repeatmasking=none_0
tgggggagagcctggcctttgtgtccttttgattccccctcgccctccccagagtcacagattt
gatatctctgtcattctccttccctctattttgccttccctctctgattccacctgtctgcatct
tttctgtctgtgtctatctgtgtcactgtctatgtgatacctctctggttctctttctcttgcc
tgcgt
```

```
>hg19_ct_usertrack_3545_1589 range=chr22:30000801-30001000 5'pad=03'pad=0
strand=+ repeatmasking=none_0
caggaccacatagtaaatattttcaactttgtagactagagaatctctgttgagttattcaact
cttcaactctaccattgtaacacaaaagcagccttagataagatcagcttccagcatgacagctt
aaggaacccttctctgtaaaactggtgaaaattctttttgttttggttctgttttgagacaga
atctc
```

```
>hg19_ct_usertrack_3545_3843 range=chr19:42381761-42382760 5'pad=03'pad=0
strand=+ repeatmasking=none_0
cagggtctgggggcaggaaggggacttaggggtagcagcattcagcgtctgtcaaggggagaaaaa
gctttctctgccttaaacctcaggtgcctctctctgttgaggagtccttctcagcactgggggaa
tgggtgtctcatggactccccctcacctgctcaaggacagctggcaggggctgtggccacgctaa
cccag
```

```
>hg19_ct_usertrack_3545_12977 range=chr2:189327556-1893277555'pad=0 3'pad=0
strand=+ repeatmasking=none_0
aaccctcatttttaagctgataacaacttaacatcattttcataaacaacaagaatttaa
aacttataaagacttgatgccataacttcatacccgttttcttttaactttttgttactactta
tatcttattgttccattttcttgaaaagttgttttagttattattttgattggatcattgttt
agttt
```

```
>hg19_ct_usertrack_3545_12625 range=chr2:183364756-1833661555'pad=0 3'pad=0
strand=+ repeatmasking=none_5
atcatcagaaaaaggaacaattaattgcttgctgagcatgtgcaaatttacaaaacaatttggct
tttcagatggaatttgaaggcctgaattatttaagtcaactgaaactactactactgtgaataga
ggcacaacgacccttatatagtgcataatcatcacatccttctggttaataacatatttcacag
cagtc
```

```
>hg19_ct_usertrack_3545_1738 range=chr10:21583995-21586194 5'pad=03'pad=0
strand=+ repeatmasking=none_9
gcctggagtgcagtgaggagatctccgctcactgcaacctccgctcccagcttcaagtgattct
cctgcctcagcctccagagtagctgaaattacaggcgctgccaccacacctggctaattcttgt
atthtttagtagagacagggtttcacatggttgccagggtggtcttgaactcctggcctccagta
agtaa
```

```
>hg19_ct_usertrack_3545_7734 range=chr9:128453580-128454179 5'pad=03'pad=0
strand=+ repeatmasking=none_1
tgagagcccaggagaaaggctctgagcaaacttgggagacatcaacatgtaagtgcaggtaaatc
catagatgtgaattttgccagggaatattgtaagaagaacagtaacctagggataaaaccaag
gaacagcaatagttaaagggtagcctgaaggaaaaacaaaaacagaagctggaaaaaaaaaag
```

tcaat

```
>hg19_ct_usertrack_3545_1143 range=chr12:8716934-8717733 5'pad=03'pad=0
strand=+ repeatmasking=none_2
ggaagggggtccccctgccccgcaggtgccgccccgaggaggtggaggaggaggagccggggcact
gactgggggacccaggtgagtcctagcaaatgacaaggcccaacggtcaaaaccgcctcagtaatgc
gctcgtccaaagcacgcacttaacgctcaatcctggtgtcgcgtcccgttgccaggcaacgaaag
caagc
```

```
>hg19_ct_usertrack_3545_764 range=chr7:6297476-62982755'pad=03'pad=0 strand=+
repeatmasking=none_0
tgtggaggtaggagggttctctgggtgggtgaaattcagcaacagcaccatctagaatcccgtgg
tcacctcaggggtgtgggcttggaatggacaggcttaattaagagccattgtgaatgcaagctg
gctactcatccaggtccaacaaagtctagcataagaaatgcaacagggtgggcacggtgggtca
ctcct
```

```
>hg19_ct_usertrack_3545_6687 range=chr9:119065780-119066779 5'pad=03'pad=0
strand=+ repeatmasking=none_2
ttatttcttcattcactttttgtttatgtttacatcactaaagcctttatttcatttgcatttatt
tttgaatgccctcaggagagtggaacaaatggaacatggcatttctctgatgcttaacaatgta
tagtgccagcctgctgaatgaatgaatgaatgaatgagtgccacagatagatgaatggctagggtt
catcc
```

```
>hg19_ct_usertrack_3545_7969 range=chr12:110072818-1100734175'pad=0 3'pad=0
strand=+ repeatmasking=none_0
ccaccaccaccatcaccaccaccaccaccatcaccatcaccaccaccaccaccaccaccaccatcacc
accaccatcatcatcatcatcatcaccaccaccatcaccaccatcaccaccaccaccaccaccatc
cgccatcatgatcaccaccacaatcatcaccaccactgtcaccaccaccaccgtcaccaccatta
ccacc
```

```
>hg19_ct_usertrack_3545_1396 range=chr4:16078903-16079902 5'pad=03'pad=0
strand=+ repeatmasking=none_3
aaacatccccctctccacctcaccgccgaatccaaagtagaagggcatggcctcaagtctaggga
cacaccgtttgaggctggacacatgtgcaacactggaacctgtctttctaataagcttaccaagt
aatcctgatggaaatcttcaccctaagtcaccacctctacaactaggggtctcagagatgaaagc
caggg
```

```
>hg19_ct_usertrack_3545_3715 range=chr16:49782100-49783499 5'pad=03'pad=0
strand=+ repeatmasking=none_2
tagctggttgctaagaaatcacaccgggtgacatcacctgatcacttactacaggcaagacatgg
ccagggtcagagttcaaaacagtttctggaaatctttccagcgaagcccccttttcctgagggga
tgaggaggtgggaaagtatcttgatgggtacccacctgtgacccccctgccctatgacagaggta
tatta
```

```
>hg19_ct_usertrack_3545_11269 range=chr5:175065595-1750679945'pad=0 3'pad=0
strand=+ repeatmasking=none_5
tcctctgggggtcccccaacaaggggcagggagcagtgccaggggagtgccctcagacctcagacccc
aggctacgcgacctggatccaggtcccagctctgcctctcggtagcagggcaacttgggcaagtt
gttaacctctctgggcctcagtttccctgtgagcaaaagtaaagatgctgctagtaatcacacct
tctca
```

```
>hg19_ct_usertrack_3545_968 range=chr4:8281901-82821005'pad=03'pad=0 strand=+
repeatmasking=none_0
ggagaggtaatatggtcccacctgggggctgtgccctgcccctggcgcttctcctcagggcaggcc
acatggggcgccagcctcaggccccagggcacacaggggagcagcagaccggctgagtcctccct
cctggaggaggaggcctgggcctgggggttgccctgggatccctctgggtcgtggaaattgtg
ggtct
```

```
>hg19_ct_usertrack_3545_4850 range=chr7:64735166-64736365 5'pad=03'pad=0
strand=+ repeatmasking=none_2
tgttcatatatggttggtttattaaactatttatcatgaaagtatgtaagtggcatgcttaatgtc
tgaaagagatagagacttcagcttttctgttgagggtataaaatttaagtgccttactatttcct
tacaatatctataaacactgtgtttgagtgatgtttgtgttttctttaaacactgggcattagt
```

tttaa

```
>hg19_ct_usertrack_3545_1633 range=chr5:29524844-29525043 5'pad=03'pad=0
strand=+ repeatmasking=none_0
aggttggtcattcatttttatttcagcaaatgtagtagtaagtaggtcgaggtagtaaaagaaata
cctcatttttagtgaaagagtgtcttaagcaattgcaatataaaaactcacattacaaagacaatgg
aagtttgacctaccagtttttggagtgtcagaactgtgcaaacagagcatacaagacagagtta
cacta
```

```
>hg19_ct_usertrack_3545_2583 range=chr22:38367855-38368654 5'pad=03'pad=0
strand=+ repeatmasking=none_2
tgaggagcaccagtagcaggataagagatgaagagacaggccaggtcaggctcaccaagcaggt
aaccggaacctttaattttattatgtggaatgcttaatgcagagttaataggggctagagtggct
aggagaggggactactgagataaataacaggagacagtaatgagttacatgtggatttggggggc
tgag
```

```
>hg19_ct_usertrack_3545_14460 range=chr2:210443956-2104445555'pad=0 3'pad=0
strand=+ repeatmasking=none_1
ctaaatcgtaagtgggctgcatcctattgtcagtgaatgatggcgagctgagtggcttgtca
tcattctcgaaaattctgagactagtgcagctctctccctctctccactcgcttattttctgt
tcgccactgcggggacttctaatttgcagcttccctttcccgccacacacagacacgagctggt
ggctt
```

```
>hg19_ct_usertrack_3545_4451 range=chr17:42174275-42175474 5'pad=03'pad=0
strand=+ repeatmasking=none_2
ggcatgggttgggaacattcctctgtggttttcccgccagccatactgacgactctgtggccacaa
ggccagagccacatgtgcagaagtggccagatgtggccagagggtggggttacacatactcatct
tcattcccaacccatgtcctgcccagcaccaggagaaagggtccttggaactgcagaaggcct
tcctg
```

```
>hg19_ct_usertrack_3545_11356 range=chr3:155243307-1552449065'pad=0 3'pad=0
strand=+ repeatmasking=none_3
aaaccaggctctgaggttaagaggccaaggcgactgcagtaggcagcctctaaataatagtacca
atgtctcctgtctcagtattcacacccttctgcaatcccctccctttgagcgtggcctggacct
gtgcccagacatctaataactgagtacagcaaaagtgatgggaggttacttatcagatcaggtta
tagaa
```

```
>hg19_ct_usertrack_3545_7141 range=chr3:98442511-98442710 5'pad=03'pad=0
strand=+ repeatmasking=none_0
tccatctcaagaaggtaacagagctttggtgttctgttggtcagtgatTTTTTggttacagaat
aaaaactaaaagtcaccagatatccagaagacaactcaactgtgttcttttgttagaaatct
tagactgattgagtcagagaagcaggagtcactgtgtgtctcatgttaggggaatgagcgtgg
cgag
```

```
>hg19_ct_usertrack_3545_1613 range=chr16:13262700-13263099 5'pad=03'pad=0
strand=+ repeatmasking=none_1
ttgcttttggatttccaactctctgtatacaatgacccctacggaagacctcacacctgtttcag
agaagagaataataaccgcccctgggtttggccatttccctttgtcttacagttgtcatgggatct
tcaccctcccagctccattggaaggtcagttgcagtgagcccttttccggggaataaagttt
taatg
```

```
>hg19_ct_usertrack_3545_6105 range=chr14:101123848-1011252475'pad=0 3'pad=0
strand=+ repeatmasking=none_5
agcagaggctgcagccaggagggaaggagggtggctaggccatggaggggaggaggagcatg
gggagagcagcattgggggagctccagaaggccctgggtgtcagaacagagggcagacctgctcc
tcctcctccctccctctctgcagctgcagccggaaggccttgtccctgggagggtgccttgac
tcctc
```

```
>hg19_ct_usertrack_3545_379 range=chr22:20244001-20244600 5'pad=03'pad=0
strand=+ repeatmasking=none_1
gcctgcaggaagccatgccccgtccgctcactcctccactggctgcttctccgaccccgatcat
ggctgcagcaggcctggaggcccggtcacccccaggcccagtcacatggccctactcaggcacca
cctgtgcttcttggctgggtttctcatctgagaaatgggaaggctgggtctgggtgaggcacttc
```


tgtgg

```
>hg19_ct_usertrack_3545_258 range=chr15:26373508-26374907 5'pad=03'pad=0
strand=+ repeatmasking=none_0
aacttcaaatcaatgaagagaacaggaatgaaaaataatctacttgatctctggaaggtgtgt
ggttgattagaaatgatgacaatttttgaccattgggacatggcagtcacaaattctgggatgaac
ttagaaacttgtttgaccataaattgccgtggaagtgaagctatgtgacttacgaggctaggtt
tctaa
```

```
>hg19_ct_usertrack_3545_7846 range=chr7:104999165-104999564 5'pad=03'pad=0
strand=+ repeatmasking=none_1
ctaagaacacagagagagagagagagagaaagcaagagtggaggtggaggtgcctcttttcaa
caaccagttctctggaactaagagtgagaagcaagaatgacacctcaagccattcaagagggat
ccacccctacaatccaacaccaggccccaccaccaacactggggtatcaaatttcaacatgag
gcttg
```

```
>hg19_ct_usertrack_3545_7989 range=chr1:68831813-68832012 5'pad=03'pad=0
strand=+ repeatmasking=none_0
tcaagatctcatgagttgagacacagccgctccctaggggagcacaggacctggtttctgtgcc
attccctgcccctctttaggtgacttctctttattgaagtcataatggggttaaatgaccaat
ctgttcaaccttgcaagagacaaggaaaggaggaagggaagagagcctttcacatttgtgtgtg
tgtgt
```

```
>hg19_ct_usertrack_3545_6961 range=chr8:101693225-101693824 5'pad=03'pad=0
strand=+ repeatmasking=none_1
actgcacaggaacatttagtcctagttttgcataaagacccacaatgcactcatgcactctttgg
cattctttaaatcttgcccattgtgacgtggagacatggatcttaagaagaaaaatggtcttt
gttcatcttaggtatttctttcagtggtacctagaggccattggcaaatatgttcaaattataaa
ccaaa
```

```
>hg19_ct_usertrack_3545_16446 range=chr1:206079578-2060801775'pad=0 3'pad=0
strand=+ repeatmasking=none_0
tccttggacccttctcctcgggcccccagccctaccgtatgaccacatcctcactattctccccta
aacacaaatcgagggacatacaaaagcaagcactgtacttacttcttagccaatccgtcccctccc
ccatcccaacacacagggagactttatgttagccttgtaaataagaaacaccattccacagtta
ttttt
```

```
>hg19_ct_usertrack_3545_10361 range=chr5:166802623-1668028225'pad=0 3'pad=0
strand=+ repeatmasking=none_0
ggaagtaaaccagcaaccctccagcacacaagaaatgagaagagaatttaaaaatcacattctga
tgataacacagcattcaggtgtagtcagttggtcttattagcaagtaaattacattgcaaaagag
gcggttgataaactatgacctatacctagaaaatgtcctctctccacaagtttctaggtctttg
tattg
```

```
>hg19_ct_usertrack_3545_2881 range=chr15:61201309-61201508 5'pad=03'pad=0
strand=+ repeatmasking=none_0
tagagaaatggtggcaaaggaattcttgctgtggtcccagcggtgagcataacagagttacctct
ctccaccccaaatattcagactgcaaggacactggctccaagcttcgacctgcttgaggttcca
ttccagggtactctgctgatgtctcgccagcctcagccacagactcccagctgagctgagctggt
ctgag
```

```
>hg19_ct_usertrack_3545_804 range=chr3:12468401-12469200 5'pad=03'pad=0
strand=+ repeatmasking=none_0
actcagctggcagtgatgcacccttgccacacattagaatcacccaagagctattaaaaatcctg
aaggtcataccccaggcaagtgaatcagaatctctagggatgggtcccaggcattcgtttgcttt
tttagtctcccagataattttaatatgttagccaaaattgataatccctgcactagaccaagctc
cgatt
```

```
>hg19_ct_usertrack_3545_4134 range=chr11:58826025-58826624 5'pad=03'pad=0
strand=+ repeatmasking=none_1
cattcccacaagatgcaagtaaagaagcaccgcggacaccgggggaggggtcacagagtgacagga
ggactgggtgaccagctgactggcctcacttctgacaaatgcaaattaccagccacagttccaac
caagggtatcaaaacaggatctctgcagatggagctcagtggttatgtgttttgatgctcgcaat
```

aagat

```
>hg19_ct_usertrack_3545_15835 range=chr2:232233357-2322337565'pad=0 3'pad=0
strand=+ repeatmasking=none_0
acagggtcacactttgttgcccaagctggagggccctggcggtgaacaaagctcactgcagccttg
acctcccaggcacaaagtgtatcttctgcctagcctcccaagtagctgggattacaggcacatacc
accatgccccgcctaattttttgtatttttagtagagatgggttttcaccatgccggccaggctgg
tcgcg
```

```
>hg19_ct_usertrack_3545_6801 range=chr9:120106380-120107579 5'pad=03'pad=0
strand=+ repeatmasking=none_0
ggagggtgggaaagagatctctccagcacagcatgcctgaaaaacgatgccagaactacacagcc
ttccacaaaagcacgtggagaaaaaaaacccatcccaaaagcagcattaacaggagaaatatta
aacctctacatggcacagtgaataagacttcaaagccctctacgtatggaaatgaatcctgca
ggcag
```

```
>hg19_ct_usertrack_3545_1820 range=chr21:44846573-44847372 5'pad=03'pad=0
strand=+ repeatmasking=none_2
gccgcgctgctgctgcctccggggccgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc
acgcggcgcccgcccgcccgcccgcccgcccgcccgcccgcccgcccgcccgcccgcccgcccgcc
gccccgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc
agcgc
```

```
>hg19_ct_usertrack_3545_2158 range=chrX:66783676-66783875 5'pad=03'pad=0
strand=+ repeatmasking=none_0
caaggaaacagaatgactcaatgcaaattatgggacctctttgagtttggggccctacattttaa
ctagtaactcgtttgcacatatgtggcacccttcccccaacaaaattactgggcaggaattttctt
gaatccttccgtggcctggaatgatctcccttctcatccttgatccacacagctggcaaatgg
caggc
```

```
>hg19_ct_usertrack_3545_4904 range=chr8:68880447-68880646 5'pad=03'pad=0
strand=+ repeatmasking=none_0
tggaagcatctgccagcgactggggaggggaaaggtcacttgaggactgtggaaaatattccctt
tctccttagcatcctggaacgtcggtcttgactaaattgttaatagaatctgggagctcggatt
ctggtgctgacatttttttcagggttagttctagaaatgatattttctaagcagccttttgcgga
gcttc
```

```
>hg19_ct_usertrack_3545_17094 range=chr1:214327578-2143285775'pad=0 3'pad=0
strand=+ repeatmasking=none_1
tgatgttagaaagtcattacatccacaggcgggcatagccatccagagagagatgagcccagc
agagaccccgccctgggtcatcttagtggtctctgggtgcaaacagagccacagaatgggagcaa
acactataaacaagtcaaaggcaatacctaaatcagtaccccccactcaacctgccagacttt
caact
```

```
>hg19_ct_usertrack_3545_6087 range=chr11:73250153-73251552 5'pad=03'pad=0
strand=+ repeatmasking=none_0
ctatgcaacttaggtcccttcccctatctgggtcttcatTTTTctcaattcaacagttaaatggta
caacatttaacttaaaaaatcaattgaattaaatgatctcaaacactccaggaatataggataca
caatcaagactctttatttttattttatttttttttttttttttttttttttttttttttttttt
tctgt
```

```
>hg19_ct_usertrack_3545_2515 range=chr8:29374882-29375281 5'pad=03'pad=0
strand=+ repeatmasking=none_0
tcctttgcaaaaactctccagaagagttacaaacctctgcaactaagtgaattggatatcttga
ttagacttggttcctttttctttgacagggcaaaatccctctctgaggaagaaggaggagcctgc
attgattaacatatgtccattcctgaatgaatttcatattcatgaattataatattggaccattcc
tctga
```

```
>hg19_ct_usertrack_3545_438 range=chr22:21057401-21057800 5'pad=03'pad=0
strand=+ repeatmasking=none_0
gacgctgcagggtgcttgagcgggaccctgaggtcttttagtagggcgaggcagcagcgtgagcgg
ggccgtgaccacctgggggtgtggcttaaggcaggccctgaaggcgtgggcggggcggggatgtg
ggcggggcataatcgctggggcgggggccctgagggctagatacgggcggagcgcggagggggg
```

ggggc

```
>hg19_ct_usertrack_3545_3792 range=chr5:72989645-72989844 5'pad=03'pad=0
strand=+ repeatmasking=none_0
ccttttcctatcctctctgaatggccttgccttttatctctttgccttgcctgtctcctgttttccttct
gagggggcacaacaaattccaaagcagcagttctagccatagagcaaagagaggaccatggtaact
gttttaccagcctggccagcagccacgagatgtcagttcctgggaagtctgaagctccttagct
gctgc
```

```
>hg19_ct_usertrack_3545_13421range=chr1:165628977-165629176 5'pad=0 3'pad=0
strand=+ repeatmasking=none_0
tcttcaaggagtggtggccctgacaacttcttggttttgcccaagtgaaccattttgggacttct
gacttccagaactgtaagataataagtttgtgtgttttaagctgctaagttggtggtaatttgc
tacagcaagcataggaaactaataactgggttcagttctaggaacagagagggtagcagaaaag
cacag
```

```
>hg19_ct_usertrack_3545_5006 range=chr14:91827848-91828447 5'pad=03'pad=0
strand=+ repeatmasking=none_2
gagcctgtccgtcacacagctccctcccagcctcaaaactacactccaggctgggtgcagaggct
cacgcctgcaatcctagcactctgggaggccaagtggtggcgatcacctgaggtcaggggttcaa
gaccagcctggccaacatggtgaaatcctgtctctactaaaaatacaaaaattagccaggcctgg
tgacg
```

```
>hg19_ct_usertrack_3545_4014 range=chr12:52195934-52196133 5'pad=03'pad=0
strand=+ repeatmasking=none_0
ctagttacaggtctagaacacaacaggggtgttgggggtgggttcagaagagaatcagcattgtc
ttgcttcaggggagaccactgttgctcaagcattgcaggggttaatctcagacaaatgtggaaag
gctggtggcagcctgggtgggggaagggatattgccaccactgggggtgaggaggctgttttctc
tgga
```

```
>hg19_ct_usertrack_3545_1105 range=chr11:10714825-10715224 5'pad=03'pad=0
strand=+ repeatmasking=none_1
gttccctccgcttcccagccgaagaggcaggttattctaggatataggggaggcttacctaaaaac
tgagttattctcctttcctcctctggccagcctctcttactctgaggagcttttaccatttaag
gtcaatgttacatctggctccggagctcagagccgagaagcctctggctgcagaacctcggccgc
acgc
```

```
>hg19_ct_usertrack_3545_6560 range=chr11:77851953-77852152 5'pad=03'pad=0
strand=+ repeatmasking=none_0
acccatgtgaatatgattcacagatttctagctcagcactcttctctcactttcagacctggctc
tccagttggctacctgacctcacgtagatgtttttgttttgagagacagggctctcattc
tgtggcccaggctggagggcaatagtgaacacagctcactgcagcctcgatctcctgggctca
agcag
```

```
>hg19_ct_usertrack_3545_3072 range=chr14:68809048-68810247 5'pad=03'pad=0
strand=+ repeatmasking=none_1
tgttgctatgtacccatgccttctctctctctctctctctctcctctctctctctgtctc
tctctttctaataagagtttagcttggagttaatgagcaaaagatttccttaccataaagtga
agcccatcaagtgaagcaagtagaaaggcgagaaagggttatccttgctacccatgtggaaggga
cactt
```

```
>hg19_ct_usertrack_3545_104 range=chr2:314201-3144005'pad=03'pad=0 strand=+
repeatmasking=none_0
ccgcagggaaagcggtagagcgggcagggcgagctggagcacctgtgtggcatcatcagctccag
cctgaagttggtcttgtggtggtgttttcgttgctgccttcattctgatagccctgaagaaagtgg
cggcctctgggagggcaacggggaggcctcagtgccaggggctcggttttgtagcccatgcagg
agata
```

```
>hg19_ct_usertrack_3545_3772 range=chr18:51912403-51912802 5'pad=03'pad=0
strand=+ repeatmasking=none_0
agagctctttttacagacatcacacacaacacatacagctacgcagacaggtaggagaaaact
caatcccctgggtggagccctgtaagagagcaggctaggaaaacatacagatatcaaaccagaaaag
gacttattccctaaggcaggattgctaacaacagccttgccgcacccccaggatgtagaacaaga
```

tgag

```
>hg19_ct_usertrack_3545_5330 range=chr13:107332600-1073331995'pad=0 3'pad=0
strand=+ repeatmasking=none_1
gaatgaatgagttccgctctagcaaaaagtgcctgtgatctgaaataattagtcacacaatcag
agagaatgctatgtgactagtaaatcatacaattgaggaattgcatttaaaaattagagttatca
ggaacacctaataaagctgtctattcaagtaagcccctggagctttgataattatcaggaggcaga
atgta
```

```
>hg19_ct_usertrack_3545_3927 range=chr2:47982497-47983496 5'pad=03'pad=0
strand=+ repeatmasking=none_4
aacttgtgagaatcaaagagctgcagatttgggtgggattataggcaggaggctgatgttctg
cggcaggagtaggtagcaaggtagattgctccaaggatcttcactttgctttacctgctccaac
ctgaagagctttcagattttttttaactttttttttgtctattcatttttttttttttttg
gacac
```

```
>hg19_ct_usertrack_3545_11710 range=chr2:170932155-1709337545'pad=0 3'pad=0
strand=+ repeatmasking=none_0
cccttgtgtccctgtccactcttgtgttcctaaccctgatccctgaccctaggtcaaccagattc
tctttctcaggaatgttaaatctgtatagcgagacttagcagggtaaatgggtgacaggagctgta
tagtccaacagtactacccttgaaaaactgtctgtgaattactacttctgaatttttttatcagt
taaga
```

```
>hg19_ct_usertrack_3545_1424 range=chr3:18384997-18385596 5'pad=03'pad=0
strand=+ repeatmasking=none_1
ctgaagcttttaattctttaatccaccatggaatgttgcttaattacatatattttattatgcataa
ctgaaaattatgtacttttagtttcaacaatgatatgaaagcatgtattgtttataaatagagact
ggtttgtctctttttttatattacaaatatttgtggaattctcacatgttctccttctaaaactt
ggctt
```

```
>hg19_ct_usertrack_3545_12013 range=chr3:169777107-1697777065'pad=0 3'pad=0
strand=+ repeatmasking=none_2
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acctaggcattaagcccagcatccattagctgtttttcctgatgcttttcttccccccactcccc
cctctagcaggcccaagtgtgtggtgtttcccaccatgtgtccacgtgggaaccagattcttgct
gtggg
```

```
>hg19_ct_usertrack_3545_1361 range=chr10:16401995-16402794 5'pad=03'pad=0
strand=+ repeatmasking=none_0
ctccccccccagaagatacatgaccaagccagtttagagccacatttatgtatgtacttaagaa
agcaaacagatcaaattacacatttcaaacattagctctgtacactataatcttatgtggggt
gataatgatgacaatgggaatctgagaatgggggaggggttgagagaggagaaaagaagaactg
gtcag
```

```
>hg19_ct_usertrack_3545_5147 range=chr11:66579425-66579824 5'pad=03'pad=0
strand=+ repeatmasking=none_0
tggggagagagagaaaacacttttttaaaatgtaaaaaacaattttctaatacaaaaatagaaaaga
ggaaaaaggaaacaaagaatacaagcaagaaatggaaaaagatgatggatttaactccactat
agctatcttcatattacaagtaaatgatttaaacacccaattataagacaactgcacatcttgg
ctcct
```

```
>hg19_ct_usertrack_3545_324 range=chr14:23648161-23648960 5'pad=03'pad=0
strand=+ repeatmasking=none_3
gtaatcccagcactgataggccgaggtgggaggatttcttgagcccaggagttggagaccagcct
gggagacagtgagaccctgtttctacaagaaaaatttaaaatagctaggtgtcgtgggtgtat
gcctgtggtcacagctactgaggaagctgaggtggaaggatcgcttgagcccaggagtttgaggc
tgcag
```

```
>hg19_ct_usertrack_3545_181 range=chr3:3122201-31226005'pad=03'pad=0 strand=+
repeatmasking=none_0
tctctgtgcttactgtgggaagccctgttctattgtttgtatccccgtttctgataaggctaag
tgtgcaggcagcttctctaattaaagggtggctgtttgcaaactaccgtttctcctgacattccc
caaactctaggtgggactgaagccctttattaaaaacctatggctatactatttattttata
```

tgaga

```
>hg19_ct_usertrack_3545_199 range=chr17:1393251-1393650 5'pad=03'pad=0 strand=+
repeatmasking=none_1
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gcgcgggtggctcaggcctgtaatcccagcactttggtaggcctaggcaggtggatcacaaggtca
ggagattgagaccatcctggctaacacgggtgaaaccccgctctctactaaaaaaaaaaaaaatta
gctgg
```

```
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strand=+ repeatmasking=none_0
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gagaccattggacagcccaggcccccttcgccaatcaaagtctggccatggcaagcctaggccct
gggaagtctgagggtgggatcccagatgcgcggtcagaggaccctgcaggctgggagctctctca
gtctg
```

```
>hg19_ct_usertrack_3545_6986 range=chr12:97645870-97646069 5'pad=03'pad=0
strand=+ repeatmasking=none_0
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aatcttgagacccccaaatcactaagctaaagggaaaagtcaagctgagaactgcttagggcaaa
cttccattctattcagtcctcgtctgctcattgagataaatgcatatgtgactgcttcctttgg
aaagg
```

```
>hg19_ct_usertrack_3545_1526 range=chr20:20421201-20422000 5'pad=03'pad=0
strand=+ repeatmasking=none_0
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ctggttggcagcagctcttgattctcgccccggccatactgtgcaatcacgctgtttattccac
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gacgg
```

```
>hg19_ct_usertrack_3545_16441 range=chr2:237568062-2375698615'pad=0 3'pad=0
strand=+ repeatmasking=none_6
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tacatctaaaattataaaataatttcatgacagtaggttaaagtagaatcagttattttgggagac
attatcaatattcagctgcaataaaaaattaatgggtaaaagcaattctgatgtataataaagat
taact
```

```
>hg19_ct_usertrack_3545_11721 range=chr3:162438307-1624393065'pad=0 3'pad=0
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tcagcattttctaactgtatatatttgatgtcctataacctagaccacacatttttaactgctaaaa
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ttagc
```

```
>hg19_ct_usertrack_3545_4858 range=chr15:75929146-75930545 5'pad=03'pad=0
strand=+ repeatmasking=none_0
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gcaacctctgcctcccagggttcaagctattcttctgcctcagcctcagctttgcaaacctagccc
aagtagctgggtttacaaacatgtgccatcacgccgactaatttttatatttttgctagagatg
gggtt
```

III. 200 DNA Non-Enhancer Sites

```
>hg19_ct_usertrack_3545_158 range=chr12:78319870-78393869 5'pad=03'pad=0
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gtacattacaattggttttaagttcttataagactctataggttttcccttcataatttttcttg
caatttatttgttaaagaattgggtcatttgtcctattgagtgctccactgtctgtttttatta
ttgta
```

```
>hg19_ct_usertrack_3545_57 range=chr7:10106276-10452075 5'pad=03'pad=0 strand=+
repeatmasking=none_1151
actggttatcttttaggactagttaataataacccattctctaaccaacagataactcaaccaggt
```

tcagcacctgatgggttactcttcaaggactcccttctaaatctcactttgctgtgtccacaatt
ctaaattgctatacaatagcatTTTTctactctcattcagtatTTTtacacagaaagatatgcctt
gaacc

>hg19_ct_usertrack_3545_762 range=chr2:59404297-59409096 5'pad=03'pad=0
strand=+ repeatmasking=none_15
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acatt

>hg19_ct_usertrack_3545_78 range=chr11:21614425-21696024 5'pad=03'pad=0
strand=+ repeatmasking=none_133
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tccta

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ttctt

>hg19_ct_usertrack_3545_6 range=chr13:49222200-49305199 5'pad=03'pad=0 strand=+
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atactcagaaggtcactgagtagcaactagggaggcttcgcagtggtcaggtctaccagttttccc
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gcacc

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strand=+ repeatmasking=none_410
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tctgc

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strand=+ repeatmasking=none_941
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gtag

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attta

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strand=+ repeatmasking=none_52
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ccctt

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actta

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ctctt

>hg19_ct_usertrack_3545_1210 range=chr12:110663018-1106832175'pad=0 3'pad=0
strand=+ repeatmasking=none_33
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>hg19_ct_usertrack_3545_1825 range=chr1:198655578-198668377 5'pad=03'pad=0
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repeatmasking=none_43
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tgaga

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ctatg

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strand=+ repeatmasking=none_170
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ataaa

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ttagt

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strand=+ repeatmasking=none_10
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agaat

>hg19_ct_usertrack_3545_121 range=chr10:56851795-57019594 5'pad=03'pad=0
strand=+ repeatmasking=none_3
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catat

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strand=+ repeatmasking=none_14
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cctcc

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aatgttttatagcaaatgtaacattaataaccagtaacaatgtattccagcctgatttttggtt
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taatt

>hg19_ct_usertrack_3545_456 range=chrX:126012720-126480719 5'pad=03'pad=0
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aaagaatataatataatatttaattacatgaagaatgtaaatcaatataaagataccaataagaaa
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tcaga

>hg19_ct_usertrack_3545_104 range=chr16:62442500-62794899 5'pad=03'pad=0
strand=+ repeatmasking=none_229
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aagtaccctctacccttcccttatctgcctgaaagcagggcataaattttctttgtgaatgtgtt
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actgc