Supplementary information, Table S2 List of primers used in this study.

(A) Primer sequence used in RT-PCR and qRT-PCR analysis.

ACTIN-qF: GCTCGTCGTCGACAACGGCTC

ACTIN-qR: CAAACATGATCTGGGTCATCTTCTC

CCAT1-L+S-q1F: ACGGTGACAGGTCATTAGGC

CCAT1-L+S-q1R: TTACTGCCTGAGCTCCACCT

CCAT1-L+S-q2F: ACTGCAGTAGGAAGGGAGCA

CCAT1-L+S-q2R: GTAAGCACTGGCCTTTCTGC

CCAT1-L-qF: CCACGTGCACATATTTGAATTG

CCAT1-L-qR: TGCATTCCCTGCTTAATACTCA

XIST-qF: GCAGGTCCAAGAAATTTGAACAC

XIST-qR: AGAGTGCCAGGCATGTTGATC

CTCF-qF: GTGTTCCATGTGCGATTACG

CTCF-qR: TCATGTGCCTTTTCAGCTTG

MYC-qF: TTGGCAGCAGGATAGTCCTT

MYC-qR: TGGTGCTCCATGAGGAGACA

FAM84B-qF: GTGCAAATGACCCTGGAGTT

FAM84B-qR: CCGTGGGAACTTCCTTGTAA

sno-lnc5AC-qF: TTAGTCAGCTCAGGCCCAGT

sno-lnc5AC-qR: AAGTGCTCCACCAACTCCAG

GAPDH-F: GGTATCGTGGAAGGACTCATGAC

GAPDH-R: ATGCCAGTGAGCTTCCCGTTCAG

ANKRD52-qF1: ACTGGATAACGGTGCAGACC

ANKRD52-qR1: ATGGTGCTCTCCACATCCTC

(B) Primer used in NRO.

Run-on-Myc-1F: TTCCAGAACAGCTGCTACCC

Run-on-Myc-1R: CCTCCCTTCGCACTCAATAC

Run-on-Myc-2F: TCCACCTCCAGCTTGTACCT

Run-on-Myc-2R: GCTGTCGTTGAGAGGGTAGG

Run-on-Myc-3F: GGCTGGATACCTTTCCCATT

Run-on-Myc-3R: AAGCCCAAGGTTTCAGAGGT

Run-on-Myc-4F: AAAGGCCCCCAAGGTAGTTA

Run-on-Myc-4R: AGCTTTTGCTCCTCTGCTTG

(C) Primer sequences used in CTCF ChIP.

CTCF-CCAT1-1F: TCATAATGCGGAAAGGGAAG

CTCF-CCAT1-1R: AGTCCTTCCTGCTGACTCCA

CTCF-CCAT1-2F: TTTGGGCAGACACTGACTTG

CTCF-CCAT1-2R: AAGCAGAAACAGGACCCAGA

CTCF-SNP-3F: CAGCAGATGAAAGGCACTGA

CTCF-SNP-3R: CTCCCTCCCCCACATAAAAT

CTCF-MYC-4F: GCATTTGCTTTTCGGTCAAT

CTCF-MYC-4R: CTTGCTTCGGTTCCATCAAT

CTCF-MYC-5F: TGCAGCAAAATCCAGCATAG

CTCF-MYC-5R: TGCACTGCACAATTCAGCTT

CTCF-MYC-6F: GGCACTTTGCACTGGAACTT

CTCF-MYC-6R: GCAAGGAGAGCCTTTCAGAG

CTCF-MYC-7F: GCCGATTTCGATTCCTCTG

CTCF-MYC-7R: GCTATCTCGGAGACGCACTT

CTCF-Nctrl-8F:GACAAGCATTGTGCTGGAGA

CTCF-Nctrl--8R:TCTAAAGACCATCGGCTGCT

CTCF-Nctrl--9F:AAGCCTGCCTGCTGAAAGTA

CTCF-Nctrl--9R:CAGCTCACTCTGTGGGTTGA

CTCF-Pctrl-chr6F: CAGCTCTGTGTCCTGTCTTATCC

CTCF-Pctrl-chr6R: CAGCTATAATTGATGAAGAGGCG

CTCF-Nctrl-F1: CCACTGCTCAGCCTTAGAGGAA

CTCF-Nctrl-R1: GTTTGTCTGGTTTTTGCGTGTG

CTCF-Nctrl-F2: TGCCATGCGTTGAAAATATCC

CTCF-Nctrl-R2: TGCTTTCTGAAGTTGCCAAGC

(D) Primer sequences used for Northern blots.

MYC-probe-F: AGAGAAGCTGGCCTCCTACC

MYC-probe-R-sp6:

CCAAGCTATTTAGGTGACACTATAGAAAGCTTTTGCTCCTCTGCTTG

CCAT1-probe-L+S: CCAGGGAGCCCTAAAACATT

CCAT1-probe-L+S-R-T7:

TGAATTGTAATACGACTCACTATAGGGAGGCTGGTCTGTGTGTGCTTTGG

CCAT1-L-F(Chr8-3-F): ACATGCAGTTCAACCCCTTC

CCAT1-L-R(Chr8-3-R): GCTGAAaATCTGCCTGCCTA

EGFP-F: CACATGAAGCAGCACGACTT

EGFP-R: AGTTCACCTTGATGCCGTTC

(E) Primer sequences used in biotin pull-down**.**

CCAT1-L-#1-F-HindIII: CCCAAGCTTCCAGGGAGCCCTAAAACATT

CCAT1-L-#1-R-EcoRI: CCGGAATTCACTGCAGTAGGAAGGGAGCA

CCAT1-L-# 2-F-HindIII: CCCAAGCTTGTAAGCACTGGCCTTTCTGC

CCAT1-L-# 2-R-XhoI: CCGCTCGAGGGGAGGAATGGGAGAGAGAG

CCAT1-L-# 3-F-HindIII: CCCAAGCTTGGCATGCTTGCTCAGTCTCT

CCAT1-L-# 3-R-XhoI: CCGCTCGAGTGTTTGTGTATGCGTGTGTTTC

CCAT1-L-# 4-F-HindIII: CCCAAGCTTTATACACCCTCCCTCCCACA

CCAT1-L-# 4-R-EcoRI: CCGGAATTCAACAACTCTGCTGATGGCTGT

(F) ASO sequences used to knockdown *CCAT1-L.*

CCAT1-ASO: mAmGmCmCmCmAGATCTGCAAAmGmGmAmAmA

(G) Primers used in plasmids construction and validation of *in-cis* over-expression of *CCAT1-L* with modified TALEN A.

CCAT1-HF(HindIII): CCCAAGCTTTGGCCAGGTACATACCTGGC

CCAT1-HR2(KpnI): GCCGGTACCTGCTTAACACGGCAGCTGGTA

CCAT1-HL2(BamHI: GCGGATCCTTGCGAAAACGCTCACGATTC

CCAT1-HR(XhoI): CGGCCTCGAGGTATATGTGTTAAAGTGTTAACAG

CMV-F(KpnI): GCCGGTACCGCGTTGACATTGATTATTG

CMV-R(bridge): GTGGGCTTGTACTCGGTCATGGTGGCCGTACGCCC

Puro-F(bridge): GGGCGTACGGCCACCATGACCGAGTACAAGCCCAC

Puro-R(bridge): CTCTGCCCTCTCCACTGCCGGCACCGGGCTTGCGGGTC

T2A-F(bridge): GACCCGCAAGCCCGGTGCCGGCAGTGGAGAGGGCAGAG

BGH-R(BamHI): GCGGATCCTGTGATGCAATTTCCTCAT

CCAT1-ValidF: CTTCAGGCCATAGTCACTGGTG

CCAT1-ValidR: GCAGGGCTGGCCAGGTCAGTGC

CCAT1-ValidR2: AATAACTGTAAAGAGTAAGGGTCC

BGH-F(EcoRI): CGGAATTCCGACTGTGCCTTCTAGTTG

BGH-R(BglII): GGAAGATCTCCATAGAGCCCACCGCATC

SV40-F(BglII): GGAAGATCTTGATCATAATCAGCCATAC

SV40-R(BamHI): CGGGATCCTAAGATACATTGATGAGTT

(H) Primer sequences used in 3C assay.

Bait 1: CTATTAATTGAGAGGTTATTGTGTGTTAGG

Bait2: ATGAAAGCATATCTATCTAGAGTGTTGAAG

Bait3: GAATTTGTATTATATGAACTGAGAATGAGG

1: CTAGGGTTCATATTTAGCTTAATTCTAT

2: TCTAGATTTCCTTTAAAGTCCTTGTTTTAG

3: AGTCATCTATAATGTCTCTCACACATCTTT

4: GTATGTATGTATACAGGAATGAACAAACAA

5: TAAAAACAGAACAAAGTTGAAGGACTAATA

6: CTCTCTATATACGATTAAAACTGGGTTAGG

7: TTTTCTTTTTACCTATGACAAAACACTTTA

8: GTTAGAAGAATAATTAGAAGTTGGATGGAA

9: AGCTATACTTATTGAAACAAACCCTTTAGT

10: GTAAAAGGTAGCCTTTCTTCTCTCATAGT

11: CTATGTCCTATAATTCTAGCCAACAAAGTA

12: GTTAGAAGAATAATTAGAAGTTGGATGGAA

13: TTTTCTTTTTACCTATGACAAAACACTTTA

14: CTATTAATTGAGAGGTTATTGTGTGTTAGG

15: CTAGGGTTCATATTTAGCTTAATTCTAT

16: AACAGTATATGATATGATTTGGATGTTTGT

17: GAAGTAGAACAAGTTGGTAGAATATGAGAA

18: GTATGTATGTATACAGGAATGAACAAACAA

19: GTATTAAATAGGAACAATGCCTAATTCTG

21: AAATCTACCCAGAAAGTCTAATTAAATCC

22: AGCTATACTTATTGAAACAAACCCTTTAGT

23: GTTAGAAGAATAATTAGAAGTTGGATGGAA

24: TTTTCTTTTTACCTATGACAAAACACTTTA

25: CTACTTTCCCAGTTTAGACTACTAGTTTCC

26: CTATTAATTGAGAGGTTATTGTGTGTTAGG

27: CTTTAGATAAAATTCTTTCTTATTGGGTGT

28: GAAGTAGAACAAGTTGGTAGAATATGAGAA

29: GTATGTATGTATACAGGAATGAACAAACAA

30: TAAAAACAGAACAAAGTTGAAGGACTAATA

beta-globin-1: ATTCTGTGAATGTAGGTATGTGTTAAAAGT

beta-globin-2: AGAGGTTCTTGTTGTCTTTTGTTTGTCT

(I) Primer sequences used in 3C-Seq assay.

p5-Scr-3C-seq-CCAT1-F:

AATGATACGGCGACCACCGAACACTCTTTCCCTACACGACGCTCTTCCGATCTGCCAA

TCTTCTACTGATTGGCCCTAAAC

p5-ASO-3C-seq-CCAT1-F:

AATGATACGGCGACCACCGAACACTCTTTCCCTACACGACGCTCTTCCGATCTATGTC

ACTTCTACTGATTGGCCCTAAAC

p7-3C-seq-CCAT1-R:

CAAGCAGAAGACGGCATACGACAGTAGTGGGTCTTAATGCTTG