

Table S2. Cell lines used in this study.

Name	Genotype	Clone
wt_1	mES159- <i>Rosa26</i> ^{(tg)Cre-ERT2/(tg)BirA-V5}	
wt_2	mES159- <i>Rosa26</i> ^{(tg)Cre-ERT2/(tg)BirA-V5} <i>Cbx3</i> ^{FLAG-Avi/FLAG-Avi}	clone 32
Adnp-3FV5 1	mES159- <i>Adnp</i> ^{3xFLAG-V5/3xFLAG-V5}	clone 1.2
Adnp-3FV5 2	mES159- <i>Adnp</i> ^{3xFLAG-V5/3xFLAG-V5}	clone 6F
Adnp KO 1	mES159- <i>Adnp</i> ^{Lys408Valfs*31-3xFLAG-V5/Lys408Valfs*31-3xFLAG-V5}	clone 2B
Adnp KO 2	mES159- <i>Adnp</i> ^{Lys408Valfs*31-3xFLAG-V5/Lys408Valfs*31-3xFLAG-V5}	clone 6F
CTCF-dTAG 1	mES159- <i>Ctcf</i> ^{FKBP12F36V-2HA/FKBP12F36V-2HA} <i>Adnp</i> ^{3FLAG-V5/3FLAG-V5}	clone 8a
CTCF-dTAG 2	mES159- <i>Ctcf</i> ^{FKBP12F36V-2HA/FKBP12F36V-2HA} <i>Adnp</i> ^{3FLAG-V5/3FLAG-V5}	clone 9c
Adnp-dTAG	mES159- <i>Adnp</i> ^{Avi-3xFLAG-FKBP12(F36V)-mNeonGreen/Avi-3xFLAG-FKBP12(F36V)-mNeonGreen}	clone 1.1

Name	Description
wt_1	ES cells with heterozygous knock-in of BirA and Cre-ERT into <i>Rosa26</i> locus
wt_2	ES cells with heterozygous knock-in of BirA and Cre-ERT into <i>Rosa26</i> locus and homozygous c-terminal FLAG-Avi tag on endogenous <i>Cbx3</i> .
Adnp-3FV5 1	ES cells with endogenous c-terminal 3xFLAG-V5 tag on <i>Adnp</i> (homozygous)
Adnp-3FV5 2	ES cells with endogenous c-terminal 3xFLAG-V5 tag on <i>Adnp</i> (homozygous)
Adnp KO 1	ES cells with homozygous truncation of <i>Adnp</i> at lysine 407 leading to premature termination and an <i>Adnp</i> fragment that does not bind chromatin similar to a full knock-out.
Adnp KO 2	ES cells with homozygous truncation of <i>Adnp</i> at lysine 407 leading to premature termination and an <i>Adnp</i> fragment that does not bind chromatin similar to a full knock-out.
CTCF-dTAG 1	ES cells with endogenous c-terminal 3xFLAG-V5 tag on <i>Adnp</i> and a c-terminal FKBP12(F36V)-2xHA tag on <i>Ctcf</i> , both homozygous.
CTCF-dTAG 2	ES cells with endogenous c-terminal 3xFLAG-V5 tag on <i>Adnp</i> and a c-terminal FKBP12(F36V)-2xHA tag on <i>Ctcf</i> , both homozygous.
Adnp-dTAG	ES cells with a homozygous c-terminal Avi-3xFLAG-FKBP12(F36V)-mNeonGreen tag on endogenous <i>Adnp</i> .

Name	Origin	Internal reference
wt_1	Ostapcuk et al, 2018	cMB063
wt_2	Ostapcuk et al, 2018	cMB254
Adnp-3FV5 1	Kaaij et al, 2019	
Adnp-3FV5 2	Kaaij et al, 2019	
Adnp KO 1	this study	
Adnp KO 2	this study	
CTCF-dTAG 1	this study	
CTCF-dTAG 2	this study	
Adnp-dTAG	this study	