

Table S2. ChIP-seq datasets used. Related to Figure 2, 5 and 6.

Target	source	PMID	year	Samples	Input
H3K9me2	Salzberg <i>et al.</i> , 2017	28301528	2017	GSM1846169, GSM2152591	GSM1846175
H3K9me3	Salzberg <i>et al.</i> , 2017	28301528	2017	GSM1846192	GSM1846175
POLR2A	ENCODE: ENCSR388QZF	22955616	2016	GSM2423412, GSM2423413	GSM2423120, GSM2423121
POLR2A	ENCODE: ENCSR031TFS	22955616	2016	GSM2422913, GSM2422914	GSM2423120, GSM2423121
POL2AS2	ENCODE: ENCSR000EGF	22955616	2012	GSM935402	GSM935618
c-Myc	ENCODE: ENCSR000EGJ	22955616	2012	GSM935516	GSM935618
Brd4	Tyler <i>et al.</i> 2017	28619718	2017	GSM2345029, GSM2345030	GSM2345031, GSM2345032
NELFe	ENCODE: ENCSR000DOF	22955616	2011	GSM935392	GSM935363
ENL	ENCODE: ENCSR675LRO	22955616	2016	GSM2423844, GSM2423845	GSM2423120, GSM2423121
LARP7	ENCODE: ENCSR288MOZ	22955616	2016	GSM2423264, GSM2423265	GSM2423120, GSM2423121
GTF2F1	ENCODE: ENCSR189VXS	22955616	2017	ENCSR189VXS	ENCSR658AGP
H3K9me2	Liu <i>et al.</i> , 2018	29211708	2018	GSM2509499, GSM2509500	GSM2509507, GSM2509508
H3K9me3	Liu <i>et al.</i> , 2018	29211708	2018	GSM2509487, GSM2509488	GSM2509493, GSM2509494
H3K36me3	ENCODE: ENCSR000DWB	22955616	2011	GSM945302	GSM945294
H3K27me3	van den Boom <i>et al.</i> 2016	26748712	2016	GSM1319307	GSM1319306
H3K27me3	Schmidl <i>et al.</i> , 2015	26280331	2015	GSM1782749, GSM1782750	GSM1782728, GSM1782729, GSM1782730, GSM1782731, GSM1782732
H3K27me3	Schmidl <i>et al.</i> , 2015	26280331	2015	GSM1782739, GSM1782740	GSM1782708, GSM1782709, GSM1782710
H3K27ac	Schmidl <i>et al.</i> , 2015	26280331	2015	GSM1782721, GSM1782722	GSM1782728, GSM1782729, GSM1782730, GSM1782731, GSM1782732
H3K27ac	Schmidl <i>et al.</i> , 2015	26280331	2015	GSM1782704	GSM1782708, GSM1782709, GSM1782710
H3K4me1	Schmidl <i>et al.</i> , 2015	26280331	2015	GSM1782725, GSM1782726	GSM1782728, GSM1782729, GSM1782730, GSM1782731, GSM1782732
H3K4me1	Schmidl <i>et al.</i> , 2015	26280331	2015	GSM1782706, GSM1782707	GSM1782708, GSM1782709, GSM1782710
H3K36me3	Schmidl <i>et al.</i> , 2015	26280331	2015	GSM1782723, GSM1782724	GSM1782728, GSM1782729, GSM1782730, GSM1782731, GSM1782732
H3K36me3	Schmidl <i>et al.</i> , 2015	26280331	2015	GSM1782705	GSM1782708, GSM1782709, GSM1782710
H3K4me1	Pradeepa <i>et al.</i> , 2016	27089178	2016	GSM2054697	GSM2054698
H3K27ac	Pradeepa <i>et al.</i> , 2016	27089178	2016	GSM2054696	GSM2054698
H3K122ac	Pradeepa <i>et al.</i> , 2016	27089178	2016	GSM2054695	GSM2054698
macroH2A.1	Ratnakumar <i>et al.</i> , 2012	22391447	2012	GSM866351	GSM866352
H3K79me2	Fu <i>et al.</i> , 2013	23754963	2013	GSM865283	GSM865284
H3K79me2	ENCODE: ENCSR000APD	22955616	2011	GSM733653	GSM733780, GSM2527338, GSM2527339
H3K9me3	ENCODE: ENCSR000APE	22955616	2011	GSM733776	GSM733780, GSM2527338, GSM2527339
H2AFZ	ENCODE: ENCSR000APC	22955616	2011	GSM733786	GSM733780, GSM2527338, GSM2527339
H4K5acK8ac	Minoda <i>et al.</i> , 2018	30080437	2018	GSM3110542, GSM3110543	GSM3110544