

SUPPLEMENTAL MATERIAL

SUPPLEMENTAL FIGURE AND TABLE LEGENDS

Supplementary Figure S1: Subcellular localization of endogenous YAP and overexpressed YAP5SA in MCF10A cells

A) and B) The localization of endogenous YAP (-dox) and of doxycycline-induced YAP5SA (+dox) was investigated by immunostaining (A) and cellular fractionation (B). Immunoblotting for GAPDH (cytoplasmic) and Histone 2B (nuclear), served as controls for the successful fractionation. Endogenous YAP was expressed at very low levels in the cytoplasm, while overexpressed YAP5SA was enriched in the nucleus

Supplementary Figure S2: Motifs enriched in opened promoters

Significantly enriched sequence motifs in promoter regions that become more accessible by YAP5SA ("opened promoters") as determined by the MEME-ChIP suit.

Supplementary Figure S3: Motifs enriched in closed promoters

Significantly enriched sequence motifs in promoter regions that become less accessible by YAP5SA ("closed promoters") as determined by the MEME-ChIP suit.

Supplementary Figure S4: Motifs enriched in promoters of MMB target genes

Significantly enriched sequence motifs in promoter regions of high confidence MMB-target genes as determined by the MEME-ChIP suit.

Supplementary Figure S5: YAP5S does not increase chromatin accessibility at MMB-regulated promoters

A) Line plots depicting chromatin accessibility (ATAC), nucleosome signal (NucleoATAC), and the levels of the indicated proteins by ChIPseq at the TSS of YAP-MMB target genes in MCF10A cells with (+) and without (-) expression of YAP5SA. B) Line plots depicting chromatin accessibility (ATAC), nucleosome signal (NucleoATAC), and the levels of the indicated proteins by ChIPseq at the TSS of genes with gained ATAC-peaks in their promoter with and without expression of YAP5SA. C) Genome browser tracks showing chromatin accessibility and YAP-binding to two *CDC20* enhancers (E1 and E2). Long-range interactions between the *CDC20* promoter and enhancers as determined by 4C-seq are indicated by arrows (Pattschull et al., 2019). D) Gene browser tracks of the *CDC20* TSS and enhancer regions depicting the indicating ChIPseq and ATACseq data before and after expression of YAP5SA.

Supplementary Figure S6: Validation of doxycycline-inducible dCas9-KRAB

A) Expression of Cas9-KRAB and YAP5SA in MCF10A cells before and after induction with doxycycline was analyzed by immunoblotting. Actin served as a control. B) Expression of Cas9-KRAB was analyzed by immunostaining with an HA-antibody. Nuclei were stained with Hoechst. +dox: cells were treated with doxycycline to induce the expression of Cas9-KRAB and YAP5SA.

Supplementary Figure S7: Control precipitations with IgG for ChIP assays

Results of control precipitations with IgG for the ChIP assays shown in Figure 3.

Supplementary Figure S8: A role for CDK7 in YAP-mediated activation of MMB-target genes

A) Immunoblotting of the indicated proteins in lysates of MDA-MB-231 cells treated as described in Figure 5B demonstrating that the CDK7 inhibitor THZ1 does not affect the levels of YAP. B) Nuclear lysates of MCF10A-YAP5SA cells treated with (+) or without (-) doxycycline were subjected to immunoprecipitation with CDK7 antibodies. Bound proteins were detected

by immunoblotting. XPD was used as positive control. Immunoprecipitations with nonspecific IgG served as a negative control. C) Example photos of proximity ligation assays (PLA) of the respective antibody controls from Figure 5D, IgG M-R (IgG Mouse- IgG Rabbit control). Scale bar: 10 μ m. D) Quantification of PLA shown in C. Shown is a single-cell analysis of one representative replicate (n=3). E) ChIP-qPCRs of CDK7 binding to the CDC20 locus before and after YAP5SA induction in MCF10A-Cas9-KRAB/ YAP5SA cells expressing either a control guide RNA or CDC20-enhancer specific guide RNAs. Shown is the fold-change of all biological replicates compared to the +dox condition. See also Figure 5F. Student's t-test. * = $p < 0.05$, ns = not significant. F) ChIP-qPCRs of CDK7 binding to a control region (CR), the promoters of MMB target genes (KIF23, TOP2A and NCAPH) and DREAM target genes (RRM1 and CDC6). Precipitations with IgG served as a control. Mean and SDs of technical replicates of a representative experiment (n=3 biological replicates).

Supplementary Figure S9: YAP and p63 co-regulated genes involved in migration

A) GO analysis of YAP and p63 co-regulated genes that were identified by integrating p63 ChIPseq and YAP5SA RNAseq data sets. The identified genes are involved in diverse biological processes including development and wound healing. B) Genome browser track of the *MINK1* locus, showing ChIP-seq and ATAC-seq data in control MCF10A cells, before (-) and after expression of YAP5SA (+). E: enhancer. C) MCF10A-YAP5SA and MCF10-YAP5SA- Δ Np63 cells were treated with doxycycline to either induce YAP5SA or simultaneously induce YAP5SA and Δ Np63. Binding of Δ Np63 to the indicated genomic regions was analyzed by ChIP-qPCRs. Control region (CR). Precipitations with IgG served as a control. Shown are the means and SDs of technical triplicates of a representative experiment (n=2 biological replicates).

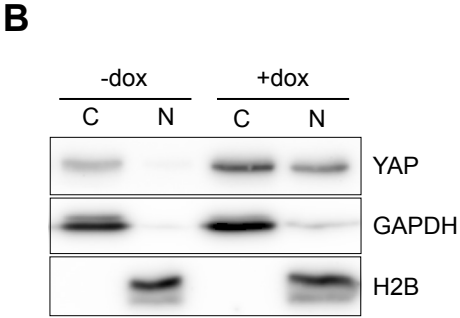
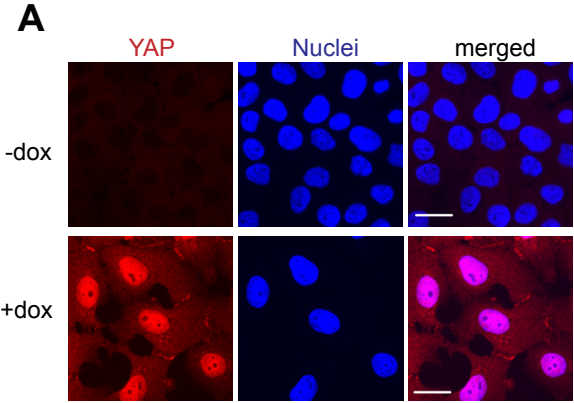
Supplementary Table 1: Transcription factor motifs associated with regions with increased chromatin accessibility following expression of YAP5SA as determined by chromVAR.

Supplementary Table 2: Transcription factor motifs associated with regions with increased chromatin accessibility following expression of YAP5SA as determined by chromVAR.

Supplementary Table 3: List of oligonucleotide and siRNA sequences

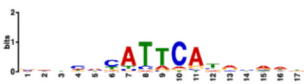










Supplementary Table 4: List of antibodies used in this study

Supplementary Figure S1








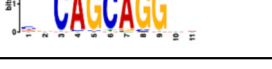
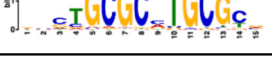

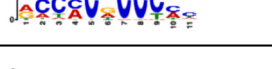


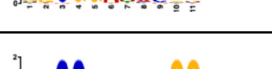
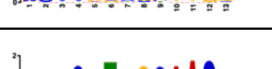


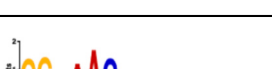
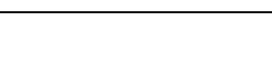
Supplementary Figure S2

significant motifs in opened promoters (E-value ≤ 0.05) found by the programs MEME, STREME and CentriMo

Motif	Discovery/ Enrichment program	E-value	known or similar motifs
	MEME	1.2e-132	TEAD1_full_1 TEAD4_DBD TEAD1_full_2
	MEME	3.5e-055	Atf3 (MA1988.1) Jun (MA0489.2) BNC2 (MA1928.1)
	MEME	2.7e-020	ZNF384 (MA1125.1) Mtf1_secondary (UP00097_2) Zfp105_primary (UP00037_1)
	CentriMo	5.8e-011	NFIX_full_1
	CentriMo	5.4e-004	Sox17_secondary (UP00014_2)
	CentriMo	2.6e-003	RUNX3_DBD_2
	CentriMo	2.9e-003	ELK4 (MA0076.2)
	CentriMo	7.4e-003	FOS::JUN (MA1126.1)
	CentriMo	8.5e-003	
	CentriMo	2.7e-002	TFAP2B (MA0811.1)
	CentriMo	4.9e-002	HSFY2_DBD_2

Supplementary Figure S3







significant motifs in closed promoters (E-value ≤ 0.05) found by the programs MEME, STREME and CentriMo

Motif	Discovery/ Enrichment program	E-value	known or similar motifs
	MEME	1.1e-111	ZNF93 (MA1721.1) ZNF610 (MA1713.1) EGR1 (MA0162.4)
	MEME	1.8e-032	ZNF263 (MA0528.2) PATZ1 (MA1961.1) ZNF610 (MA1713.1)
	CentriMo	6.5e-027	Atf3 (MA1988.1) JUND (MA0491.2) FOS::JUNB (MA1134.1)
	MEME	4.0e-021	ZNF384 (MA1125.1) Srf_secondary (UP00077_2) Mtf1_secondary (UP00097_2)
	CentriMo	1.2e-018	Tp53_DBD_3
	CentriMo	3.1e-009	Zic1::Zic2 (MA1628.1)
	CentriMo	4.3e-009	Nrf1 (MA0506.2)
	CentriMo	2.6e-008	CEBPG_full
	CentriMo	4.7e-008	SP1_DBD
	CentriMo	1.1e-004	TFAP2A_DBD_2
	CentriMo	2.1e-004	ZBTB14 (MA1650.1)
	CentriMo	6.7e-004	ELK3 (MA0759.2)
	CentriMo	1.7e-003	TFAP2A_DBD_6
	CentriMo	2.1e-003	Rfx4_primary (UP00056_1)
	CentriMo	3.1e-003	E2F3_secondary (UP00003_2)
	CentriMo	3.5e-003	TFDP1 (MA1122.1)
	Streme	8.0e-003	TFAP4::FLI1 (MA1967.1)

Supplementary Figure S4

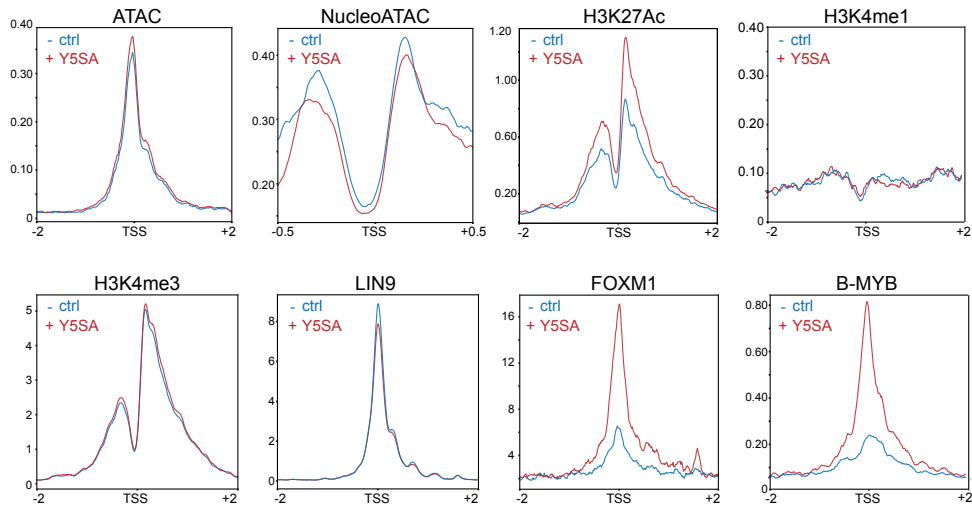
MMB target genes

significant motifs (E-value ≤ 0.05) found by the programs MEME, STREME and CentriMo

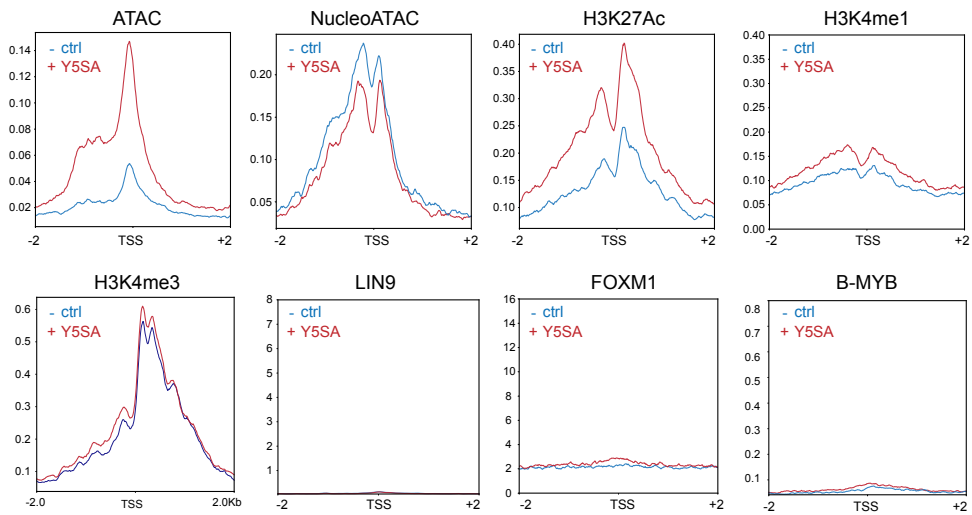
Motif	Discovery/ Enrichment program	E-value	known or similar motifs
	MEME	1.5e-048	SP2 (MA0516.3) SP1 (MA0079.5) SP4 (MA0685.2)
	MEME	6.1e-022	LIN54 (MA0619.1)
	MEME	5.1e-012	ZNF93 (MA1721.1) ZNF740 (MA0753.2) ZNF610 (MA1713.1)
	MEME	3.7e-010	NFYA (MA0060.3) NFYC (MA1644.1) Hoxa13 (MA0650.3)
	CentriMo	6.4e-008	XBP1_DBD_1
	CentriMo	1.0e-003	ELF3_DBD

Supplementary Figure S5

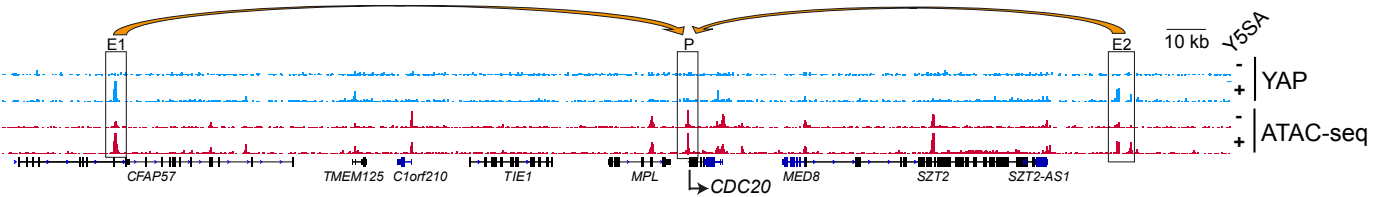
A



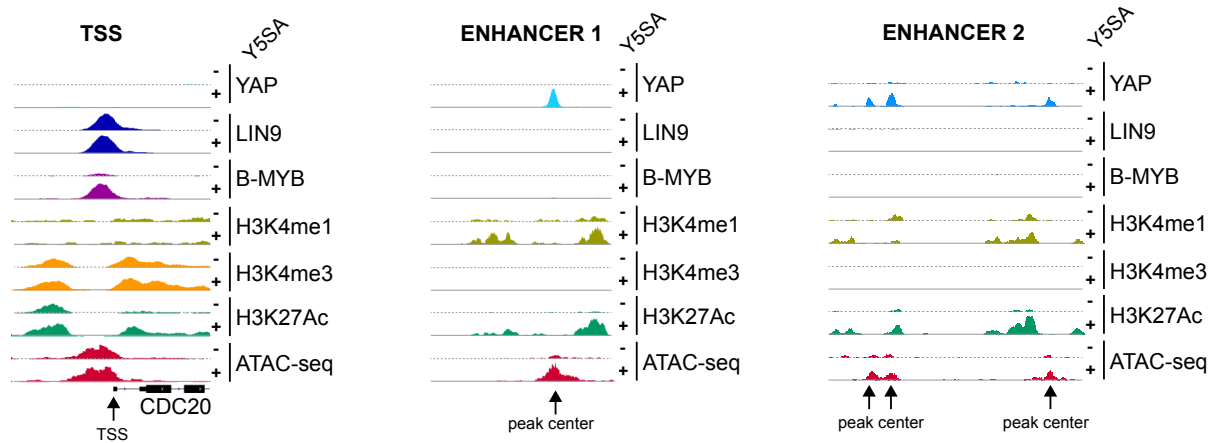
B



C

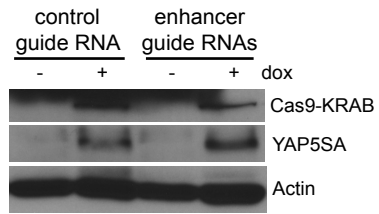


D

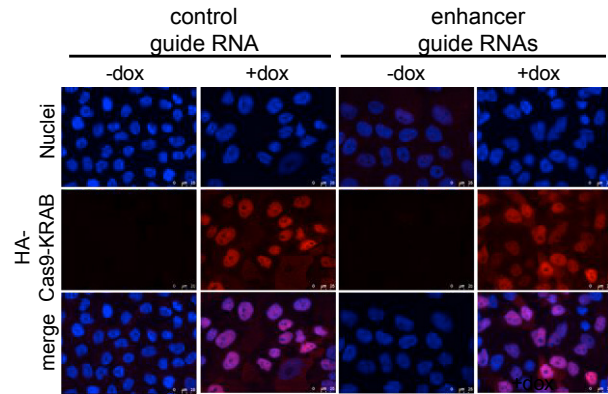


Supplementary Figure S6

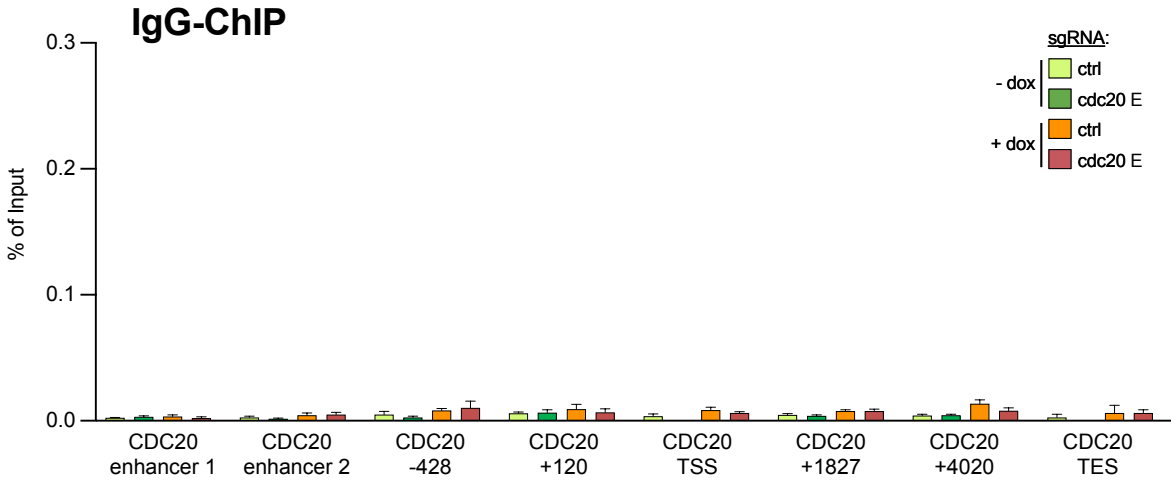
A



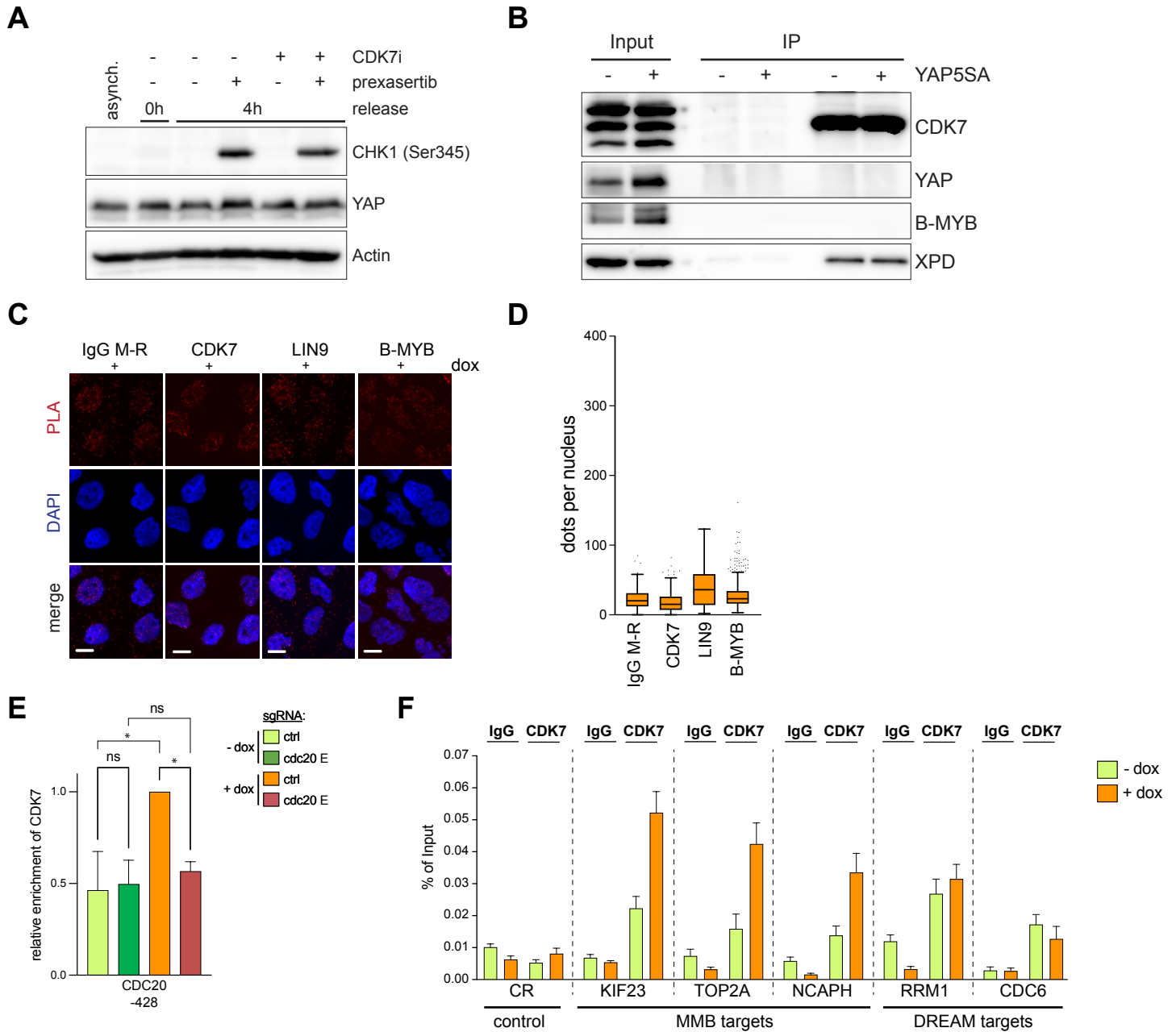
B



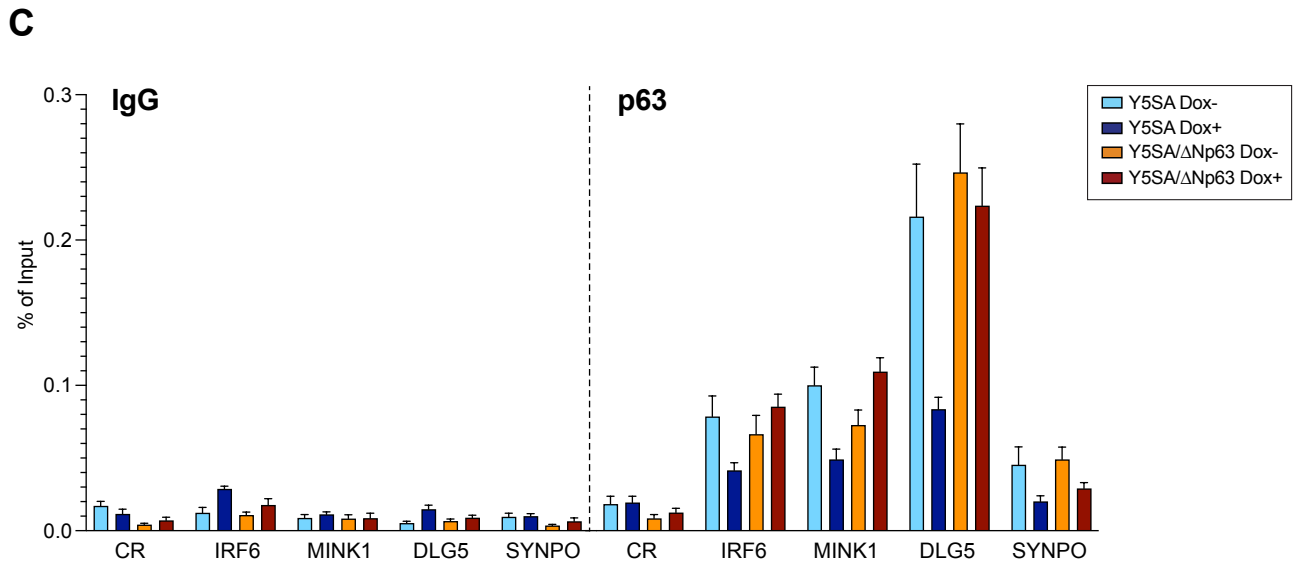
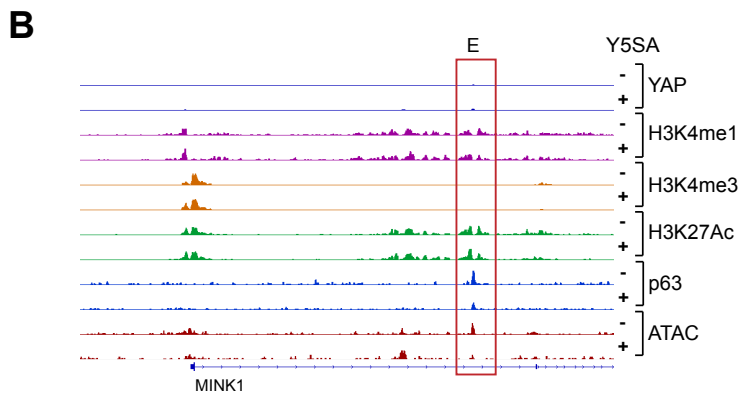
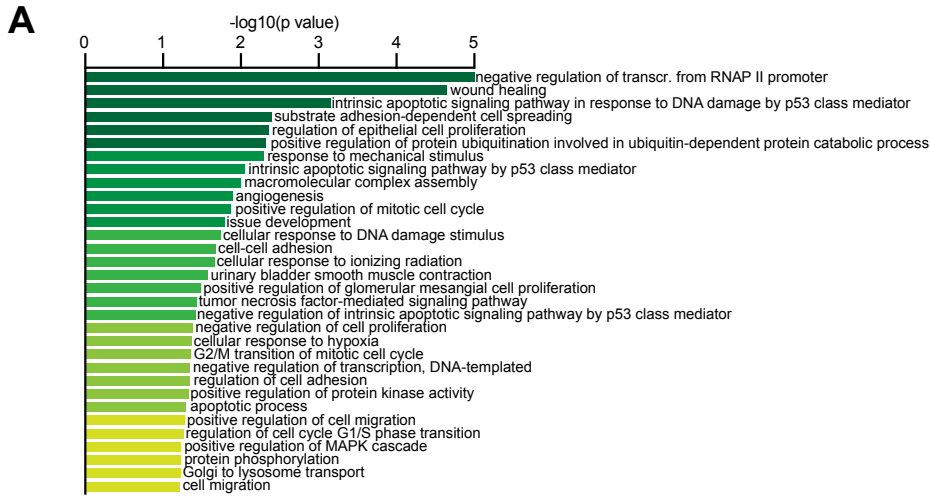
Supplementary Figure S7



Supplementary Figure S8



Supplementary Figure S9



Supplementary Table 1

motifID	name	variability	bootstrap_lower_bound	bootstrap_upper_bound	p_value	p_value_adj
MA0477.1_FOSL1	FOSL1	17.98987005	0.412104515	19.70590534	3.68E-210	1.42E-207
MA0490.1_JUNB	JUNB	17.38345924	0.986094605	19.55546168	3.35E-196	6.47E-194
MA0478.1_FOSL2	FOSL2	16.34383219	0.375602572	17.60316755	2.19E-173	2.82E-171
MA0476.1_FOS	FOS	16.11376173	1.298080863	17.56572437	1.58E-168	1.53E-166
MA0099.2_FOS::JUN	FOS::JUN	15.95608783	0.690824246	17.47256852	3.08E-165	2.38E-163
MA0491.1_JUND	JUND	15.87339004	0.291231996	16.5539259	1.59E-163	1.02E-161
MA0489.1_JUN(var.2)	JUN(var.2)	14.90109462	0.231751543	15.75432283	4.64E-144	2.56E-142
MA0841.1_NFE2	NFE2	13.11174753	0.045376253	13.55814952	1.84E-111	8.87E-110
MA0655.1_JDP2	JDP2	13.01783839	0.298342176	13.7621077	7.24E-110	3.11E-108
MA0462.1_BATF::JUN	BATF::JUN	11.71428226	0.192935075	12.87523254	6.55E-89	2.53E-87
MA0090.2_Tead1	TEAD1	9.2820071	0.134225343	9.561852092	9.65E-56	3.39E-54
MA0808.1_Tead3	TEAD3	9.192828361	0.237991935	9.631690525	1.13E-54	3.64E-53
MA0809.1_Tead4	TEAD4	8.380519858	0.243027288	8.85398153	2.06E-45	6.10E-44
MA0501.1_MAF::NFE2	MAF::NFE2	7.965919449	0.648909857	8.7247638	5.08E-41	1.40E-39
MA0102.3_CEBPA	CEBPA	6.198812782	0.624740355	6.670567706	8.03E-25	2.07E-23
MA0838.1_CEBPG	CEBPG	5.824275418	0.156449774	6.014773596	6.48E-22	1.56E-20
MA0836.1_CEBPD	CEBPD	5.530719251	0.158477186	5.880894151	9.14E-20	2.08E-18
MA0837.1_CEBPE	CEBPE	5.472718793	0.271616082	5.824303884	2.36E-19	5.05E-18
MA0466.2_CEBPB	CEBPB	5.358266978	0.224497648	5.682757202	1.48E-18	3.01E-17
MA0833.1_ATF4	ATF4	4.254687417	0.123321662	4.651085216	9.65E-12	1.86E-10
MA0043.2_HLF	HLF	4.204606312	0.32662258	4.691630266	1.80E-11	3.31E-10
MA0731.1_BCL6B	BCL6B	3.939114435	0.613312842	4.702141048	4.33E-10	7.60E-09
MA0050.2_IRF1	IRF1	3.481110046	0.636756149	3.815790117	6.30E-08	1.06E-06
MA0495.1_MAFF	MAFF	3.456113682	0.196664527	3.723414266	8.12E-08	1.31E-06
MA0088.2_ZNF143	ZNF143	3.209394001	0.021869299	3.466484314	8.92E-07	1.38E-05
MA0707.1_MNX1	MNX1	3.123045702	0.095445762	3.620005498	1.97E-06	2.93E-05
MA0093.2_USF1	USF1	3.016164204	0.155857851	3.196250674	5.11E-06	7.31E-05
MA0843.1_TEF	TEF	2.99423699	0.45011733	3.304157778	6.19E-06	8.53E-05
MA0669.1_NEUROG2	NEUROG2	2.82926127	0.190993349	3.259652276	2.48E-05	0.000330237
MA0842.1_NRL	NRL	2.806778393	0.112200176	3.294644101	2.98E-05	0.000383216
MA0783.1_PKNOX2	PKNOX2	2.779574475	0.565878051	3.235775117	3.71E-05	0.000461632
MA0664.1_MLX1PL	MLX1PL	2.742802399	0.287593046	3.228125518	4.97E-05	0.000586762
MA0639.1_DBP	DBP	2.741528692	0.272985397	3.179249698	5.02E-05	0.000586762
MA0740.1_KLF14	KLF14	2.703844772	0.006850557	3.024336899	6.74E-05	0.000764967
MA0464.2_BHLHE40	BHLHE40	2.665764699	0.032413148	3.276767037	9.04E-05	0.000996783
MA0496.1_MAFK	MAFK	2.629347568	0.044675822	2.718141903	0.000119186	0.001277944
MA0144.2_STAT3	STAT3	2.584176131	0.079675392	2.817016235	0.000167019	0.001742411
MA0470.1_E2F4	E2F4	2.546531687	0.411600081	3.159482076	0.00022018	0.002236563
MA0106.3_TP53	TP53	2.53741503	0.781302891	3.043200901	0.000235263	0.002328499
MA0140.2_GATA1::TAL1	GATA1::TAL1	2.482593539	0.380038668	3.085776405	0.000348514	0.003363157
MA0153.2_HNF1B	HNF1B	2.442348236	0.185257692	2.626607767	0.000462292	0.00435231
MA0662.1_MIXL1	MIXL1	2.387354791	0.194198804	2.99019063	0.000674564	0.006199567
MA0667.1_MYP6	MYP6	2.38027268	0.13397129	2.625139401	0.000707716	0.006352982
MA0668.1_NEUROD2	NEUROD2	2.357410453	0.316491808	2.820583003	0.00082538	0.007240833
MA0025.1_NFIL3	NFIL3	2.342037987	0.68492268	2.673029088	0.000914465	0.00784408
MA0073.1_RREB1	RREB1	2.332212613	0.189599934	2.709955934	0.000976	0.008189913
MA0745.1_SNAI2	SNAI2	2.288901674	0.046952212	2.325702753	0.001295854	0.010361119
MA0710.1_NOTO	NOTO	2.2880999	0.521683956	2.976927133	0.001302599	0.013861119
MA0137.3_STAT1	STAT1	2.284287437	0.083483608	2.618042884	0.001335122	0.010361119
MA0634.1_ALX3	ALX3	2.283479014	0.058153621	2.8284046	0.001342114	0.010361119
MA0037.2_GATA3	GATA3	2.262445176	0.059302465	2.651830949	0.001536381	0.011404676
MA0766.1_GATA5	GATA5	2.262445176	0.059302465	2.651830949	0.001536381	0.011404676
MA0163.1_PLAG1	PLAG1	2.233971357	0.1725478	2.579377024	0.001840834	0.013406831
MA0666.1_MSX1	MSX1	2.223639488	0.174948716	2.504036932	0.001964406	0.013786557
MA0708.1_MSX2	MSX2	2.223639488	0.174948716	2.504036932	0.001964406	0.013786557
MA0036.2_GATA2	GATA2	2.219754183	0.141939664	2.57912267	0.002012817	0.013874063
MA0048.2_NHLH1	NHLH1	2.199771644	0.49930078	2.816697241	0.002279597	0.01543727
MA0139.1_CTCF	CTCF	2.179272024	0.024897094	2.215454754	0.002586609	0.01721433
MA0525.2_TP63	TP63	2.166658745	0.40705733	2.588324754	0.002794023	0.018279543
MA0119.1_NFIC::TLX1	NFIC::TLX1	2.156060838	0.043983426	2.429454321	0.002979871	0.019170505
MA0823.1_HEY1	HEY1	2.145642542	0.035885644	2.315959209	0.003173521	0.020081625
MA0527.1_ZBTB33	ZBTB33	2.121977153	0.106428285	2.438756656	0.003656809	0.022766588
MA0861.1_TP73	TP73	2.103991443	0.502359539	2.500972983	0.004067958	0.024924313
MA0831.1_TFE3	TFE3	2.079914601	0.157529161	2.376729082	0.004684131	0.028251164
MA0820.1_FIGLA	FIGLA	2.064366059	0.075917451	2.393049767	0.005125821	0.030439488
MA0141.3_ESRRB	ESRRB	2.055787184	0.143667774	2.316321879	0.00538535	0.031496139
MA0763.1_ETV3	ETV3	2.046213262	0.346786945	2.828734645	0.005688967	0.032775243
MA0057.1_MZF1(var.2)	MZF1(var.2)	2.036242727	0.332551571	2.31152391	0.006021519	0.034180978
MA0759.1_ELK3	ELK3	2.023235765	0.3646221	2.65596194	0.006481681	0.036259841
MA0692.1_TFEB	TFEB	2.019404261	0.187099823	2.358250959	0.006623147	0.036521923
MA0647.1_GRHL1	GRHL1	1.993197353	0.158939991	2.210546543	0.007667599	0.041685818
MA0862.1_GMEB2	GMEB2	1.975268992	0.53332262	2.25098666	0.008464906	0.0453813
MA0754.1_CUX1	CUX1	1.95357102	0.446095855	2.350523039	0.009528568	0.050383936
MA0105.4_NFKB1	NFKB1	1.947599487	0.450222838	2.334276134	0.009841505	0.051335416
MA0160.1_NR4A2	NR4A2	1.935930357	0.175266655	2.23543077	0.010479581	0.05393491
MA0644.1_ESX1	ESX1	1.920116546	0.658525051	2.527451241	0.011402963	0.057915049
MA0028.2_ELK1	ELK1	1.908904576	0.576133951	2.573006083	0.012100712	0.060660711
MA0761.1_ETV1	ETV1	1.89980918	0.589379693	2.598242444	0.012694273	0.062820375
MA0875.1_BARX1	BARX1	1.868159381	0.445086137	2.491696868	0.01496539	0.073122031
MA0081.1_SPIB	SPIB	1.861686584	0.115576004	1.957679903	0.015471651	0.073851841
MA0597.1_THAP1	THAP1	1.861362288	0.38396557	2.300156253	0.015497407	0.073851841
MA0755.1_CUX2	CUX2	1.857820502	0.298601667	2.230760688	0.015781163	0.074286939
MA0526.1_USF2	USF2	1.839486985	0.12564933	1.9801541	0.017324152	0.080567743
MA0782.1_PKNOX1	PKNOX1	1.834989266	0.483757941	2.084711056	0.017722301	0.081438194
MA0660.1_MEF2B	MEF2B	1.816686841	0.088270151	2.225855137	0.019408595	0.088137853
MA0610.1_DMRT3	DMRT3	1.807910207	0.03527888	2.127607791	0.020292818	0.091081717
MA0046.2_HNF1A	HNF1A	1.802460614	0.120525909	2.099172117	0.020847684	0.092496621
MA0653.1_IRF9	IRF9	1.78971289	0.359677226	2.173575024	0.022197419	0.09736595
MA0630.1_SHOX	SHOX	1.77793367	0.080560439	2.116789193	0.023511353	0.098645461
MA0702.1_LMX1A	LMX1A	1.77793367	0.080560439	2.116789193	0.023511353	0.098645461
MA0703.1_LMX1B	LMX1B	1.77793367	0.080560439	2.116789193	0.023511353	0.098645461
MA0721.1_UNCX	UNCX	1.77793367	0.080560439	2.116789193	0.023511353	0.098645461

MA0824.1_ID4	ID4	1.771030784	0.219383946	2.083859037	0.024312213	0.100908757
MA0663.1_MLX	MLX	1.765478304	0.201561741	2.219871957	0.024973406	0.101567786
MA0714.1_PITX3	PITX3	1.765280424	0.321980425	2.216000538	0.024997253	0.101567786
MA0830.1_TCF4	TCF4	1.74707966	0.175072321	2.167151744	0.027276409	0.109673894
MA0636.1_BHLHE41	BHLHE41	1.726530552	0.011856692	2.103464129	0.030062185	0.119628902
MA0697.1_ZIC3	ZIC3	1.722353768	0.250689294	2.004518834	0.030657261	0.12075207
MA0481.1_FOXP1	FOXP1	1.715669943	0.161988917	2.084680736	0.031630464	0.122903086
MA0902.1_HOXB2	HOXB2	1.71376972	0.199415302	2.112424527	0.031911915	0.122903086
MA0259.1_ARNT::HIF1A	ARNT::HIF1A	1.712116079	0.066710169	2.417190417	0.032158579	0.122903086
MA0797.1_TGIF2	TGIF2	1.70929679	0.192630426	1.845526867	0.032582866	0.123303786
MA0818.1_BHLHE22	BHLHE22	1.705536774	0.206782234	2.022262495	0.033156142	0.124255057
MA0825.1_MNT	MNT	1.689439988	0.230456163	2.018573414	0.035708382	0.132533034
MA0719.1_RHOXF1	RHOXF1	1.677321532	0.007961122	1.752303571	0.037738061	0.138732299
MA0659.1_MAFG	MAFG	1.662268731	0.073721475	1.960318871	0.040394194	0.145419409
MA0652.1_IRF8	IRF8	1.659383319	0.027704318	1.940378873	0.040920914	0.145419409
MA0778.1_NFKB2	NFKB2	1.658615503	0.353790462	1.999096085	0.041062045	0.145419409
MA0077.1_SOX9	SOX9	1.65860472	0.231994128	1.839023343	0.041064003	0.145419409
MA0122.2_NKX3-2	NKX3-2	1.648813182	0.014484017	1.885940259	0.042900046	0.150540163
MA0522.2_TCF3	TCF3	1.621945918	0.049396111	1.874579628	0.048294554	0.167943224
MA0658.1_LHX6	LHX6	1.594690882	0.013036269	1.95504662	0.054332064	0.18724076
MA0600.2_RFX2	RFX2	1.592625136	0.036832616	1.736996217	0.054814005	0.18724076
MA0775.1_MEIS3	MEIS3	1.58497886	0.290554512	1.946398714	0.056628649	0.191742619
MA0888.1_EVX2	EVX2	1.571426395	0.206016087	1.882593345	0.05996623	0.19974202
MA0863.1_MTF1	MTF1	1.571189	0.000716482	1.85474069	0.060026099	0.19974202
MA0472.2_EGR2	EGR2	1.555885673	0.070428358	1.742161894	0.063989893	0.209259002
MA0642.1_EN2	EN2	1.554644965	0.160596305	2.189350261	0.064320385	0.209259002
MA0497.1_MEF2C	MEF2C	1.552407597	0.209198276	1.770604531	0.064919871	0.209259002
MA0718.1_RAX	RAX	1.55190704	0.307032721	2.020979092	0.065054612	0.209259002
MA0027.2_EN1	EN1	1.546606644	0.085455001	1.755468817	0.066495375	0.210387007
MA0068.2_PAX4	PAX4	1.546606644	0.085455001	1.755468817	0.066495375	0.210387007
MA0855.1_RXRB	RXRB	1.54233739	0.17600491	1.945470769	0.067674586	0.212377155
MA0734.1_GLI2	GLI2	1.532636318	0.26485361	1.86085313	0.070417144	0.219201754
MA0871.1_TFEC	TFEC	1.529596518	0.305181387	1.87824416	0.071294747	0.220158179
MA0155.1_INSM1	INSM1	1.526148104	0.210140292	1.783703969	0.072300973	0.220581072
MA0765.1_ETV5	ETV5	1.525217046	0.323383323	1.914584527	0.072574601	0.220581072
MA0903.1_HOXB3	HOXB3	1.513027521	0.244708767	1.834327278	0.076234414	0.229894404
MA0798.1_RFX3	RFX3	1.493908093	0.469845676	2.03748818	0.082271083	0.246175488
MA0502.1_NFYB	NFYB	1.443468673	0.07659961	1.564027529	0.100025544	0.296998924
MA0737.1_GLIS3	GLIS3	1.424309965	0.305103048	1.884028472	0.107501382	0.316759797
MA0091.1_TAL1::TCF3	TAL1::TCF3	1.416678445	0.10641364	1.537678056	0.110596197	0.323410091
MA0649.1_HEY2	HEY2	1.409360709	0.000793822	1.427727913	0.113627396	0.329775752
MA0773.1_MEF2D	MEF2D	1.407308441	0.185837359	1.714861953	0.114488775	0.329796025
MA0733.1_EGR4	EGR4	1.400817244	0.239208757	1.637039072	0.117246021	0.335236771
MA0794.1_PROX1	PROX1	1.390553403	0.059271126	1.437446002	0.121708188	0.345436476
MA0822.1_HES7	HES7	1.377991618	0.071867125	1.685067646	0.127342314	0.358789292
MA0052.3_MEF2A	MEF2A	1.373428408	0.143452085	1.650511534	0.129436634	0.362047396
MA0779.1_PAX1	PAX1	1.359975178	0.410126327	1.755130548	0.135760673	0.377004458
MA0768.1_LEF1	LEF1	1.351506724	0.11832921	1.617946683	0.139857156	0.38560616
MA0017.2_NR2F1	NR2F1	1.347807404	0.440748938	1.836331356	0.141674939	0.387847705
MA0628.1_POU6F1	POU6F1	1.336071563	0.420048745	1.753025226	0.147556471	0.401104211
MA0906.1_HOXC12	HOXC12	1.320733518	0.036427971	1.453338602	0.155508742	0.419764856
MA0748.1_YY2	YY2	1.302287122	0.171630234	1.464664357	0.165475837	0.442024557
MA0889.1_GBX1	GBX1	1.299108712	0.15776162	1.804774557	0.167238081	0.442024557
MA0803.1_TBX15	TBX15	1.297055526	0.178289718	1.593858952	0.168411462	0.442024557
MA0030.1_FOXF2	FOXF2	1.295804329	0.147862159	1.497294356	0.169084275	0.442024557
MA0839.1_CREB3L1	CREB3L1	1.295097627	0.005849593	1.544817246	0.169480918	0.442024557
MA0844.1_XBP1	XBP1	1.286993651	0.196268392	1.674807594	0.174076943	0.45096443
MA0876.1_BSX	BSX	1.278398866	0.382031345	1.506112168	0.179046099	0.46017032
MA0865.1_E2F8	E2F8	1.276742795	0.048248496	1.486440128	0.180014814	0.46017032
MA0079.3_SP1	SP1	1.26926453	0.012619692	1.496685987	0.184434554	0.463586307
MA0756.1_ONECUT2	ONECUT2	1.265699663	0.070864753	1.566300759	0.186567603	0.463586307
MA0528.1_ZNF263	ZNF263	1.265250297	0.014012887	1.359970594	0.186837683	0.463586307
MA0900.1_HOXA2	HOXA2	1.264500336	0.187989072	1.570481855	0.187289028	0.463586307
MA0635.1_BARHL2	BARHL2	1.262773148	0.048508708	1.504110223	0.188331341	0.463586307
MA0084.1_SRY	SRY	1.262399875	0.142840654	1.616693238	0.188557125	0.463586307
MA0513.1_SMAD2::SMAD3::SMAD4	SMAD2::SMAD3::SMAD4	1.24900782	0.069634935	1.49609844	0.196780629	0.479022306
MA0161.1_NFIC	NFIC	1.247032382	0.165090232	1.515993046	0.19801394	0.479022306
MA0813.1_TFAP2B(var.3)	TFAP2B(var.3)	1.24616284	0.271260775	1.648839202	0.198558469	0.479022306
MA0744.1_SCRT2	SCRT2	1.228089299	0.002618433	1.464431556	0.21010561	0.502710556
MA0672.1_NKX2-3	NKX2-3	1.226744687	0.067382588	1.333286731	0.210982151	0.502710556
MA0162.2_EGR1	EGR1	1.224712721	0.169377892	1.556785767	0.212311361	0.502774144
MA0479.1_FOXB1	FOXB1	1.213908637	0.021185816	1.253854827	0.219471602	0.51656121
MA0791.1_POU4F3	POU4F3	1.206202197	0.092214625	1.308264193	0.224674227	0.523881353
MA0764.1_ETV4	ETV4	1.203655288	0.071961513	1.508831912	0.226411069	0.523881353
MA0523.1_TCF7L2	TCF7L2	1.203301038	0.020132758	1.408284338	0.226653331	0.523881353
MA0051.1_IRF2	IRF2	1.198621716	0.14859947	1.431470002	0.229869086	0.528151591
MA0892.1_GSX1	GSX1	1.190631831	0.33470314	1.556716642	0.235427259	0.533632674
MA0156.2_FEV	FEV	1.188180042	0.230061639	1.654353421	0.237149839	0.533632674
MA0475.2_FLI1	FLI1	1.187642276	0.322939086	1.526292736	0.237528728	0.533632674
MA0886.1_EMX2	EMX2	1.18561108	0.366599277	1.606208993	0.238963286	0.533632674
MA0058.3_MAX	MAX	1.1853233	0.28077314	1.47838602	0.239166976	0.533632674
MA0805.1_TBX1	TBX1	1.18298274	0.084465501	1.414606536	0.240827686	0.543249924
MA0648.1_GSC	GSC	1.175629814	0.168572212	1.419027579	0.246091894	0.542808406
MA0694.1_ZBTB7B	ZBTB7B	1.17251316	0.160156672	1.467921882	0.248344699	0.544665079
MA0593.1_FOXP2	FOXP2	1.16659635	0.181436032	1.40577419	0.252656611	0.548368506
MA0873.1_HOXD12	HOXD12	1.165360823	0.01126845	1.478615751	0.253562795	0.548368506
MA0868.1_SOX8	SOX8	1.164364161	0.386918803	1.372384018	0.25429524	0.548368506
MA0901.1_HOXB13	HOXB13	1.142011921	0.291363665	1.524451553	0.27106066	0.578979149
MA0738.1_HIC2	HIC2	1.141450274	0.0049578	1.166525745	0.271490223	0.578979149
MA0700.1_LHX2	LHX2	1.139470063	0.081530523	1.573248985	0.273007959	0.579016881
MA0673.1_NKX2-8	NKX2-8	1.129919916	0.123195135	1.346946523	0.280397792	0.591440152
MA0059.1_MAX::MYC	MAX::MYC	1.125647282	0.370297854	1.531505334	0.283741302	0.595239905
MA0767.1_GCM2	GCM2	1.112575163	0.08335472	1.397027304	0.294112663	0.609640507
MA0070.1_PBX1	PBX1	1.111623247	0.153725252	1.360544723	0.294876195	0.609640507
MA0894.1_HESX1	HESX1	1.11104074	0.095871892	1.553941623	0.295343976	0.609640507
MA0893.1_GSX2	GSX2	1.097690764	0.1469186	1.404985244	0.306178425	0.628642937
MA0595.1_SREBF1	SREBF1	1.093045898	0.35889993	1.451698719	0.309998694	0.633119027
MA0774.1_MEIS2	MEIS2	1.087959381	0.332767464	1.436062141	0.314211804	0.638346086

MA0665.1_MSC	MSC	1.085549537	0.02223647	1.298624374	0.316218576	0.63905953
MA0786.1_POU3F1	POU3F1	1.077504855	0.055486483	1.30882108	0.322967124	0.648508954
MA0698.1_ZBTB18	ZBTB18	1.075980391	0.262810322	1.372361126	0.324254477	0.648508954
MA0024.3_E2F1	E2F1	1.073821825	0.06233017	1.301614896	0.326018905	0.6488802141
MA0688.1_TBX2	TBX2	1.059476447	0.109199769	1.277962056	0.338361793	0.66816237
MA0138.2_REST	REST	1.057030828	0.027321525	1.25698148	0.340478397	0.66816237
MA0638.1_CREB3	CREB3	1.056423388	0.344468904	1.259318772	0.341005147	0.66816237
MA0812.1_TFAP2B(var.2)	TFAP2B(var.2)	1.027511277	0.106070258	1.39830447	0.366537516	0.713644961
MA0511.2_RUNX2	RUNX2	1.024882962	0.147567634	1.249140323	0.368902019	0.713644961
MA0828.1_SREBF2(var.2)	SREBF2(var.2)	1.023874754	0.130080047	1.24724317	0.369810888	0.713644961
MA0498.2_MEI51	MEI51	1.021878969	0.170330038	1.209557559	0.371613049	0.713644961
MA0914.1_ISL2	ISL2	1.018230086	0.128504322	1.232927185	0.374918231	0.716427906
MA0802.1_TBR1	TBR1	1.014409567	0.280454413	1.221808739	0.378393001	0.719505904
MA0071.1_RORA	RORA	1.01104808	0.009363743	1.242458447	0.381462076	0.721786085
MA0154.3_EBF1	EBF1	1.006464782	0.06295864	1.220074505	0.385664219	0.72309736
MA0072.1_RORA(var.2)	RORA(var.2)	1.003145157	0.194369633	1.223388251	0.388720243	0.72309736
MA0474.2_ERG	ERG	1.003063114	0.360754856	1.355231591	0.388795902	0.72309736
MA0732.1_EGR3	EGR3	1.000288228	0.146581442	1.293037969	0.391358588	0.72309736
MA0758.1_E2F7	E2F7	1.000111941	0.098553055	1.157991297	0.391521627	0.72309736
MA0815.1_TFAP2C(var.3)	TFAP2C(var.3)	0.992196417	0.279386998	1.365324006	0.398872002	0.732852069
MA0872.1_TFAP2A(var.3)	TFAP2A(var.3)	0.990343839	0.287749783	1.325985674	0.400600484	0.732852069
MA0784.1_POU1F1	POU1F1	0.987461105	0.132125116	1.371429902	0.403296097	0.734303271
MA0661.1_MEOX1	MEOX1	0.971005644	0.016661882	1.144102572	0.418820658	0.758049713
MA0131.2_HINFP	HINFP	0.969485768	0.03046079	1.183321956	0.420265903	0.758049713
MA0060.2_NFYA	NFYA	0.967280804	0.167461711	1.199321379	0.422365895	0.758294118
MA0777.1_MYBL2	MYBL2	0.956528726	0.237231575	1.283589874	0.432666064	0.771103028
MA0752.1_ZNF410	ZNF410	0.955660544	0.265894956	1.237830707	0.433495744	0.771103028
MA0148.3_FOXA1	FOXA1	0.952641901	0.099047333	1.176218925	0.436403727	0.772714855
MA0711.1_OTX1	OTX1	0.949847877	0.161352431	1.215498928	0.439101267	0.773941047
MA0706.1_MEOX2	MEOX2	0.941138587	0.323643577	1.113202374	0.447545378	0.782734896
MA0469.2_E2F3	E2F3	0.938406857	0.02479194	1.134751088	0.450204689	0.782734896
MA0887.1_EVX1	EVX1	0.938084707	0.056450564	1.103434106	0.450518628	0.782734896
MA0650.1_HOXA13	HOXA13	0.936358751	0.011775748	1.097605526	0.452201766	0.782734896
MA0014.2_PAX5	PAX5	0.916715773	0.001795899	1.067572192	0.471489292	0.806021491
MA0641.1_ELF4	ELF4	0.91435048	0.053696462	1.056326475	0.473827135	0.806021491
MA0806.1_TBX4	TBX4	0.914040571	0.109756154	1.096569747	0.474133677	0.806021491
MA0807.1_TBX5	TBX5	0.914040571	0.109756154	1.096569747	0.474133677	0.806021491
MA0130.1_ZNF354C	ZNF354C	0.912058354	0.274665934	1.098320104	0.476095596	0.806021491
MA0103.2_ZEB1	ZEB1	0.895350565	0.113524366	1.108336524	0.492712378	0.827656392
MA0799.1_RFX4	RFX4	0.891473965	0.0822678	1.002683789	0.496586774	0.827656392
MA0712.1_OTX2	OTX2	0.889675302	0.187549772	1.114073631	0.498386633	0.827656392
MA0101.1_REL	REL	0.888488094	0.1798241	1.051828326	0.49957538	0.827656392
MA0690.1_TBX21	TBX21	0.888467807	0.260117605	1.02284299	0.499595698	0.827656392
MA0891.1_GSC2	GSC2	0.882001333	0.032257354	1.058698535	0.506080641	0.834816784
MA0729.1_RARA	RARA	0.877244147	0.220488598	1.14561295	0.510861641	0.839117419
MA0895.1_HMBOX1	HMBOX1	0.865705522	0.18772159	1.038688229	0.522490122	0.854851301
MA0800.1_EOMES	EOMES	0.862480974	0.208916121	1.046160073	0.525747044	0.856279996
MA0750.1_ZBTB7A	ZBTB7A	0.855020546	0.033890936	1.046843178	0.533292868	0.864920366
MA0646.1_GCM1	GCM1	0.849671006	0.103951022	1.027382252	0.538711616	0.870053071
MA0792.1_POU5F1B	POU5F1B	0.846785376	0.026350285	1.036790986	0.541636985	0.871132818
MA0780.1_PAX3	PAX3	0.834662958	0.006643015	0.994319146	0.553941165	0.879986331
MA0076.2_ELK4	ELK4	0.831664354	0.139717722	1.086953797	0.556987621	0.879986331
MA0115.1_NR1H2::RXRA	NR1H2::RXRA	0.82828932	0.159489505	1.010237176	0.560417491	0.879986331
MA0730.1_RARA(var.2)	RARA(var.2)	0.823164858	0.019680502	0.897190826	0.565626691	0.879986331
MA0080.4_SPI1	SPI1	0.821850039	0.034865599	1.004678479	0.566963456	0.879986331
MA0506.1_NRF1	NRF1	0.820435804	0.011000752	0.995809372	0.568401359	0.879986331
MA0821.1_HESS	HESS	0.817416462	0.086791588	0.993510539	0.571471368	0.879986331
MA0890.1_GBX2	GBX2	0.816896385	0.077222831	1.074579534	0.572000184	0.879986331
MA0598.2_EHF	EHF	0.816842886	0.059821889	1.099992413	0.572055191	0.879986331
MA0524.2_TFAP2C	TFAP2C	0.813814516	0.204901281	1.11368267	0.575133812	0.879986331
MA0484.1_HNF4G	HNF4G	0.811511063	0.052379354	0.927717465	0.577475861	0.879986331
MA0866.1_SOX21	SOX21	0.806932166	0.148823953	0.970743395	0.582130924	0.879986331
MA0845.1_FOXB1	FOXB1	0.806153431	0.139179166	1.126034044	0.582922507	0.879986331
MA0517.1_STAT1::STAT2	STAT1::STAT2	0.798770445	0.106129731	1.030150504	0.590424974	0.879986331
MA0724.1_VENTX	VENTX	0.798534329	0.273597149	1.066566458	0.590664826	0.879986331
MA0018.2_CREB1	CREB1	0.794918537	0.165533477	1.054715978	0.594337013	0.879986331
MA0699.1_LBX2	LBX2	0.794609878	0.114636295	0.957351556	0.59465041	0.879986331
MA0826.1_OLIG1	OLIG1	0.793525214	0.032669736	0.975522999	0.595751619	0.879986331
MA0817.1_BHLHE23	BHLHE23	0.789764492	0.084991952	1.012186244	0.599568361	0.879986331
MA0785.1_POU2F1	POU2F1	0.784382529	0.16608468	0.895187186	0.605026339	0.879986331
MA0618.1_LBX1	LBX1	0.780761614	0.134005634	0.944154608	0.608695208	0.879986331
MA0654.1_ISX	ISX	0.780761614	0.134005634	0.944154608	0.608695208	0.879986331
MA0675.1_NKX6-2	NKX6-2	0.780761614	0.134005634	0.944154608	0.608695208	0.879986331
MA0701.1_LHX9	LHX9	0.780761614	0.134005634	0.944154608	0.608695208	0.879986331
MA0716.1_PRRX1	PRRX1	0.780761614	0.134005634	0.944154608	0.608695208	0.879986331
MA0717.1_RAX2	RAX2	0.780761614	0.134005634	0.944154608	0.608695208	0.879986331
MA0882.1_DLX6	DLX6	0.780761614	0.134005634	0.944154608	0.608695208	0.879986331
MA0743.1_SCRT1	SCRT1	0.775695135	0.050757368	0.927359621	0.61382383	0.884089546
MA0069.1_Pax6	Pax6	0.760660026	0.134935613	0.930118501	0.629001752	0.894918848
MA0003.3_TFAP2A	TFAP2A	0.758101589	0.097660275	0.89552114	0.631577215	0.894918848
MA0753.1_ZNF740	ZNF740	0.758054102	0.02048379	0.922158842	0.631624996	0.894918848
MA0152.1_NFATC2	NFATC2	0.756765994	0.163714917	0.976671694	0.632920807	0.894918848
MA0471.1_E2F6	E2F6	0.756751993	0.047558994	0.925351906	0.632934833	0.894918848
MA0640.1_ELF3	ELF3	0.751084756	0.026903426	0.894581602	0.638628124	0.898330231
MA0670.1_NFIA	NFIA	0.749715134	0.23844105	0.864661089	0.640002107	0.898330231
MA0687.1_SPIC	SPIC	0.746475828	0.159717676	0.975032436	0.643248563	0.899615743
MA0827.1_OLIG3	OLIG3	0.7422257	0.08406405	0.869109838	0.647469739	0.902520251
MA0689.1_TBX20	TBX20	0.735210887	0.204698119	0.874768838	0.654500981	0.90580949
MA0159.1_RARA::RXRA	RARA::RXRA	0.734993795	0.029707795	0.992531	0.654717222	0.90580949
MA0098.3_ETS1	ETS1	0.732295031	0.021581817	0.906704188	0.657403364	0.906277494
MA0158.1_HOXA5	HOXA5	0.72752236	0.237877332	0.864802324	0.662144162	0.907529625
MA0789.1_POU3F4	POU3F4	0.726664523	0.229384367	0.86336161	0.663013871	0.907529625
MA0793.1_POU6F2	POU6F2	0.71766611	0.030103369	0.839317177	0.671893293	0.910272219
MA0083.3_SRF	SRF	0.717137776	0.237210012	0.837870435	0.672414283	0.910272219
MA0637.1_CENPB	CENPB	0.716640579	0.06660836	1.010254135	0.672904296	0.910272219
MA0149.1_EWSR1-FL11	EWSR1-FL11	0.715070949	0.054106366	0.866850861	0.674450401	0.910272219
MA0596.1_SREBF2	SREBF2	0.700584261	0.027072152	0.962791105	0.688642154	0.914003832
MA0801.1_MGA	MGA	0.696080604	0.171629073	0.788929756	0.693023646	0.914003832

Supplementary Table 3: Oligonucleotide and siRNA sequences

ATAC-seq

Name	Sequence
Ad1_noMX	AATGATACGGCGACCACCGAGATCTACACTCGTCGGCAGCGTCAGATGT*G
Ad2.1	CAAGCAGAAGACGGCATAACGAGATTCGCCCTTAGTCTCGTGGGCTCGGAGATG*T
Ad2.2	CAAGCAGAAGACGGCATAACGAGATCTAGTACGGTCTCGTGGGCTCGGAGATG*T
Ad2.3	CAAGCAGAAGACGGCATAACGAGATTTCTGCCCTGCTCGTGGGCTCGGAGATG*T
Ad2.4	CAAGCAGAAGACGGCATAACGAGATGCTCAGGAGTCTCGTGGGCTCGGAGATG*T

ChIP-qPCR

Region	fw primer	bw primer
CDC20 -41	GGTTGCGACGGTTGGATTTT	CTTTAACACGCCTGGCTTACG
CDC20 -428	GGCTCTCCTTCCCCTTCTAG	TCCGAGAACCTGCAGAAGTT
CDC20 +120	GGTGGCCCTGATTTTGTGG	CTGGAGGAAAGGAGGCGAC
CDC20 +1827	TCCACCACCATGATGTTCCGG	CACTGGCCAAATGTCGTCCA
CDC20 +4020	GAGTCTGACCATGAGCCCAG	CTCAGGGTCTCATCTGCTGC
CDC20 +4113	ATGGCGCTGTTTTGAGTTGG	ACTGAGGTGATGGGTTGGTC
CDC20 enhancer 1	CCTGCAGAGTGAGCCATGTG	GAGCTGGCTGTGTCCTTTGA
CDC20 enhancer 2	AAATACTCTTGGCCACGCAC	AGTCTACCATGCTGCCTAG
CDC20 TES	ACCTTTGGCCAGAAGCTAC	CAAAGGGTCTCGTGGCCTT
CDC6 promoter	CTGTGGCCATTTCGGATT	CCCCTGAACAAACTGCACA
DLG5 enhancer	TGAGTGCCTCGAGGAAGTG	TCTACTTCCTTACCGCTGC
GAPDHS (CR)	GGCAGCAAGAGTCACTCCA	TGTCTTTGAAGCACACAGGTT
IRF6 enhancer	TCCTTGACCCTGATTGAGCC	TCCAGACATTGACGCAGGTA
KIF23 promoter	CCTAACGTCCCAGCTCTT	GCCTCGTACTCACGCTGAC
MINK1 enhancer	TCACACATCCTCTGGCATA	AGAAGGAAGCGAAGAAACC
NCAPH promoter	CTGCCTCACACTCCTCAGTT	CAACGGTAACCACATCGCTT
RRM1 promoter	CAGTCTGTGAAGCCTACCCC	GCGCAACAATCCAAATCCCC
SYNPO enhancer	CACGAGTCCCCTGTACCTG	AGCCTGTGCTACACACAGCA
TOP2A promoter	GGTGCCTTTTGAAGCCTCTC	TCCACCTATGAACGGCTGAG

RT-qPCR primers

Gene	fw primer	bw primer
AMOTL2	AGGCTGCAGAGAGACAATGAG	CTCAGAGAGCCGCTGGATT
AURKA	GCAGATTTTGGGTGGTCACT	TCCGACCTTCAATCATTCA
CDC20	CTGTCTGAGTGCCGTGGAT	TCCTTGTAAATGGGGAGACCA
DLG5	ACCAGAAGGAGATCGGTGAC	ATCTCGGATGACCCGTTGT
IRF6	TTTGTCTGGAAACATTCCTTAGC	CCCCAAAGCATAAGTAGATCTCAA
MINK1	AGAAGCGGGGTGAGAAAGA	CGTTCAATGATGGAGCTTGG
ΔNp63	GAAAACAATGCCAGACTCAA	TGCGCGTGGTCTGTGTTA
p53	AGGCCTTGGAACTCAAGGAT	CCCTTTTGGACTTCAGGTTG
p63	CCCCACCTCTGAACAAATGA	GGGTTGATAAGCTGGCTCACA
SYNPO	AGGGAGGACCTAGCAGACG	GTCAGCTGGGCTGCAATC
TOP2A	TCTGGTCTGAAGATGATGCT	TTAGTTAACCATTCCTTTTCGATCA
TAZ	GTATCCCAGCCAAATCTCGT	TTCTGCTGGCTCAGGGTACT
YAP	GACATCTTCTGGTCAGAGATACTTCTT	GGGGCTGTGACGTTTCATC

guide RNAs

Region	fw primer	bw primer
cdc20_Enhancer1_sgRNA_a	CACCGGATAGCAAACCTGATTTCTGG	AAACCCAGAAATCAGTTTGCTATCC
cdc20_Enhancer1_sgRNA_b	CACCGGGCTGGTGCACGGATCTGCA	AAACTGCAGATCCGTGCACCAGCCC
cdc20_Enhancer2_sgRNA_c	CACCGTTACCCACATTATCAATGGT	AAACACCATTGATAATGTGGGTAAC
cdc20_Enhancer2_sgRNA_d	CACCGGGACGTGTAAGGGAGCTCTG	AAACCAGAGCTCCCTTACACGTCCC
cdc20_Enhancer2_sgRNA_e	CACCGAGTGAGTAATCCATGGCATG	AAACCATGCCATGGATTACTCACTC
sgRNA_control	CACCGAATCTCGCTTATATAACGAG	AAACCTCGTTATATAAGCGAGATTC

siRNAs

Gene	Name/ sequence	Reference
ctrl	Cat#4390843	Thermo Fisher Scientific
YAP	UCUCUGACCAGAAGAUGUC	Azzolin Cell 2014; 158:157–70.
TAZ	ACGUUGACUUAGGAACUUU	Azzolin Cell 2014; 158:157–70.

Supplementary Table 4: Antibodies used in the study

Mouse monoclonal anti- β -Actin	Santa Cruz Biotechnology	Cat# sc-47778; RRID: AB_626632
Rabbit polyclonal anti-LIN9	Bethyl	A300-BL2981
Anti-mouse HRP conjugated	GE Healthcare	Cat# NXA931; RRID: AB_772209
HRP Protein A	BD Biosciences	Cat# 610438; RRID: N/A
IgG from rabbit serum	Sigma	Cat# I5006; RRID: AB_1163659
IgG from mouse serum	Sigma	Cat#I5381;RRID:AB_1163670
Mouse monoclonal anti CDK7	Cell Signaling	Cat#2916; RRID:AB_2077142
Mouse monoclonal anti Pol II 8WG16	Santa Cruz Biotechnology	Cat#:sc-56767; RRID:AB_785522
Mouse monoclonal anti Pol II CTD4H8 (Ser5)	Santa Cruz Biotechnology	Cat# sc-47701; RRID:AB_677353
Mouse monoclonal anti-CDC20	Santa Cruz Biotechnology	Cat# sc-13162; RRID: AB_628089
Mouse monoclonal anti-p53 (DO-1)	Santa Cruz Biotechnology	Cat# sc-126; RRID:AB_628082
Mouse monoclonal anti-p63 (D2K8X)	Cell Signaling	Cat#: 13109; RRID:AB_2637091
Mouse monoclonal anti-YAP	Santa Cruz Biotechnology	Cat# sc-101199;RRID: AB_1131430
Rabbit polyclonal anti-YAP	Novus Biologicals	NB110-58358 ; RRID:AB_922796
Rabbit polyclonal anti acetyl Histone H4 (K5,8,12,16)	Merck	Cat#06-598 RRID:AB_310550
Rabbit monoclonal anti B-MYB (phospho T487)	Abcam	Cat# ab76009, RRID:AB_1309969
Rabbit polyclonal anti CDK7	Bethyl	Cat# A300-405A; RRID:AB_2275973
Rabbit polyclonal anti Histone H3 (K27 acetyl)	Merck	Cat# 07-360; RRID: AB_310550
Rabbit polyclonal anti Phospho-Chk1 (Ser345)	Cell Signaling	Cat#2341 ;RRID:AB_330023
Rabbit polyclonal anti RNA Pol II- phospho ser2	Abcam	Cat#ab5095; RRID:AB_304749
Rabbit polyclonal anti RNA Pol II- phospho ser5	Abcam	Cat# ab5131; RRID:AB_449369
GAPDH	Cell Signaling	Cat# 2118, RRID:AB_561053
Histone H2B	Abcam	Cat# ab1790, RRID:AB_302612