

Appendix for: The nucleoporin ELYS regulates nuclear size by controlling NPC number and nuclear import capacity
Predrag Jevtić, Andria C. Schibler, Chase C. Wesley, Gianluca Pegoraro, Tom Misteli, Daniel L. Levy

Table of Contents

Table S1	Pg 2
Table S2	Pg 3

Table S1: Gene knockdowns that reduced nuclear size in MCF-10AT1k.cl2 cells.

Gene	max. z-score	SEM	Gene	median z-score	SEM
SMARCC2	-3.48	0.8355	SEC13	-2.65	0.2245
RAI1	-3.26	0.2055	SHPRH	-2.53	0.3855
ITGAX	-3.23	0.3475	FZR1	-2.37	0.3525
RAC1	-3.07	0.1270	SMARCC2	-2.29	0.2225
SEC13	-2.97	0.2000	RAC1	-1.98	0.2825
SHPRH	-2.70	0.8340	AHCTF1	-1.97	0.1560
AHCTF1	-2.47	0.2415	NCAPD2	-1.94	0.3815
FZR1	-2.42	0.0930	ATXN7L3	-1.82	0.4360
ATXN7L3	-2.32	0.0665	ITGAX	-1.75	0.1370
CMTM5	-2.24	0.3475	SUN3	-1.75	0.3610
HAT1	-2.13	0.1345	WDR61	-1.67	0.1330
NCAPD2	-1.98	0.1145	RAI1	-1.63	0.4070
TADA3	-1.97	0.2560	UBE2E1	-1.62	0.0735
SUPT16H	-1.90	0.2460	CREBBP	-1.61	0.3660
WDR61	-1.88	0.0195	BMI1	-1.58	0.5715
BMI1	-1.82	0.2505	HAT1	-1.57	0.2110
SUN3	-1.76	0.2490	CMTM5	-1.55	0.1830
CREBBP	-1.70	0.7185	TADA3	-1.54	0.2760
UBE2E1	-1.67	0.0090	SUPT16H	-1.51	0.2575

Z-scores were calculated for three different siRNA oligo sequences for each gene and two biological replicates.

Table S2: Function of hits that reduced nuclear size in MCF-10AT1k.cl2 cells.

Gene	Function
<i>SMARCC2</i>	Component of the SWI/SNF chromatin remodeling complex
<i>RAI1</i>	Circadian clock transcriptional regulator
<i>ITGAX</i>	Receptor for fibrinogen
<i>RAC1</i>	Small GTPase associated with the plasma membrane
<i>SEC13</i>	Component of the Nuclear Pore Complex
<i>SHPRH</i>	E3 Ubiquitin Ligase
<i>AHCTF1</i>	Factor required for Nuclear Pore Assembly
<i>FZR1</i>	Component of the Anaphase Promoting Complex/Cyclosome
<i>ATXN7L3</i>	Component of SAGA (histone acetyltransferase complex)
<i>CMTM5</i>	Transmembrane domain containing protein
<i>HAT1</i>	Lysine Acetyltransferase
<i>NCAPD2</i>	Component of the Condensin Complex
<i>TADA3</i>	Component of the PCAF complex
<i>SUPT16H</i>	Component of the FACT complex
<i>WDR61</i>	Component of the PAF1 complex
<i>BMI1</i>	Component of the PRC-1 like complex
<i>SUN3</i>	Component of the LINC complex
<i>CREBBP</i>	Lysine Acetyltransferase
<i>UBE2E1</i>	E2 ubiquitin conjugating enzyme