

C

MOTIF	SPECIES
←	
380 P <u>EE</u> PKPK 386	Mus musculus
376 P <u>EE</u> PKPK 382	Homo sapiens
376 P <u>EE</u> PKPK 382	Pan troglodytes
376 P <u>EE</u> PKPK 382	Macaca mulatta
379 P <u>EE</u> PKPK 385	Rattus norvegicus
374 P <u>EE</u> PKPK 380	Sus scrofa
374 P <u>EE</u> PKPK 380	Bos taurus
374 P <u>EE</u> PKPK 380	Ovis aries
304 P <u>EE</u> SKPK 310	Xenopus tropicalis
326 P <u>ED</u> SKPK 332	Salmo salar
306 P <u>ED</u> SKPK 312	Danio rerio

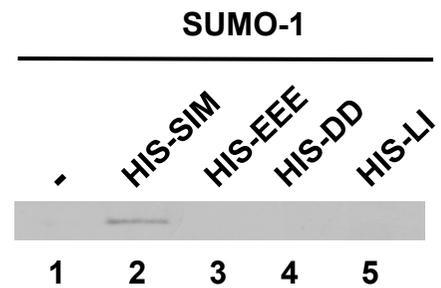
Supplemental Figure 1

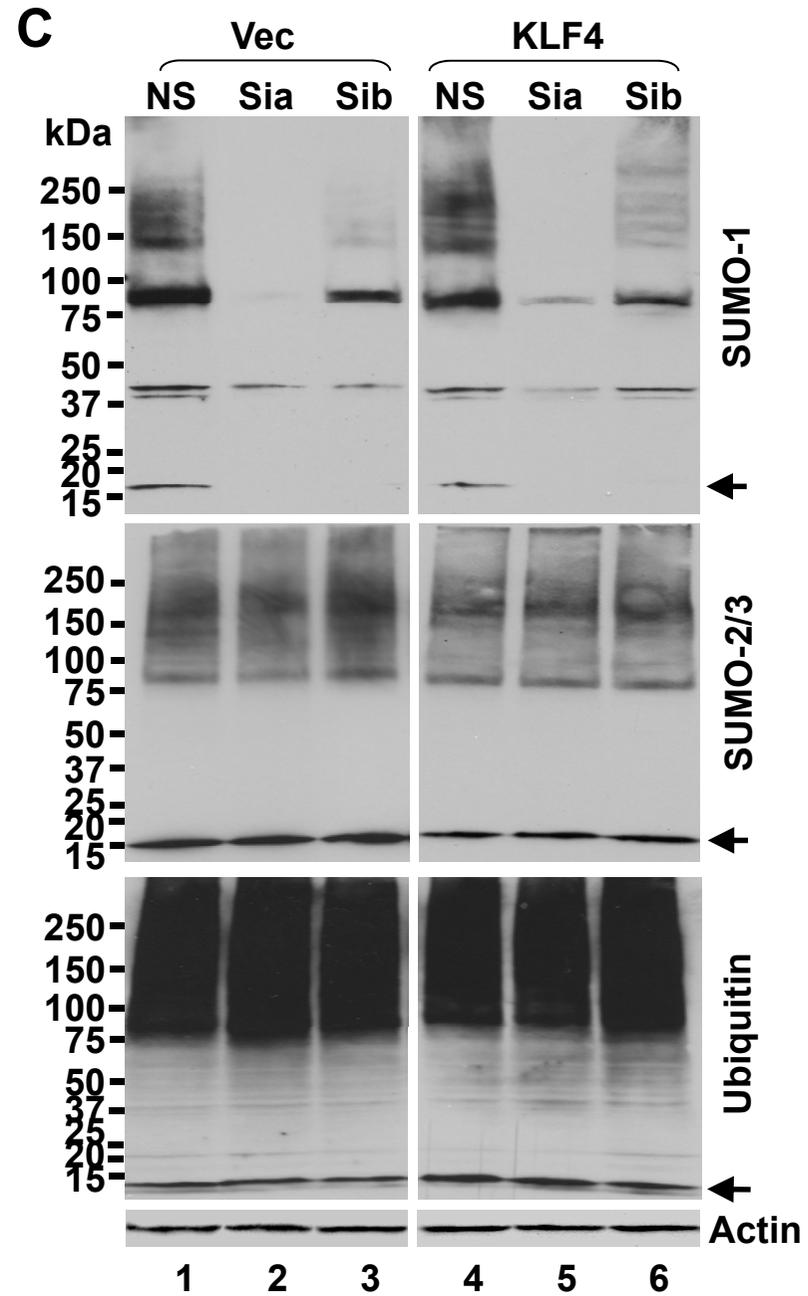
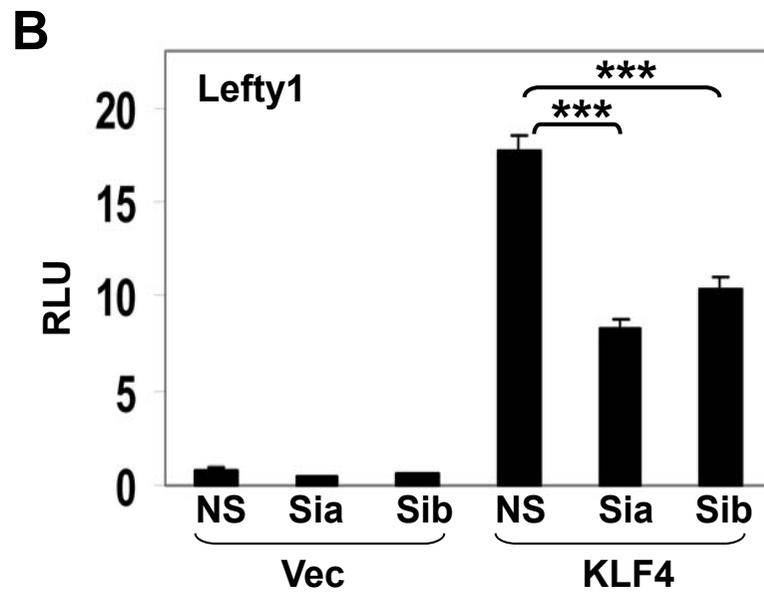
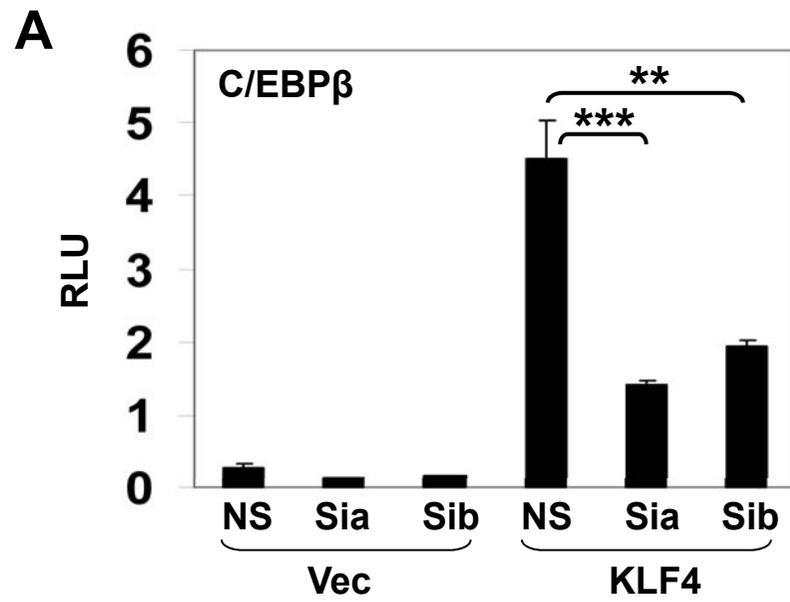
KLF4 SIM		RETEEFNDLLDLDFILSNS	
TDG SIM1		PDILTFNLDIVIIGINPGL	
TDG SIM2		KGIERNTDVQEVQYT	
Sizn1 SIM2		DCNVIEIDDSPQDDS	
Sizn1 SIM3		PQDDSDVDVILVEPED	
RanBP2 SIM		DDVLIYEL	
Daxx SIM		DPEEIVLSDSD	
PML SIM	AS	GAGEAEERVVVISSEDSDA	A
CENP-E SIM		EEFETSENMAII	
CoREST1 SIM		RERESEDELEEANGNNPIDIEVDQN	
CoREST1 SIM	RERESE	DELEEANGNNPIDIEVDQN	

A

HIS-SIM (H)₆ P R E T E E F N D L L D L D F I L S N S
HIS-EEE (H)₆ P R A T A A F N D L L D L D F I L S N S
HIS-DD (H)₆ P R E T E E F N D L L A L A F I L S N S
HIS-LI (H)₆ P R E T E E F N D L A D L D F A L S N S

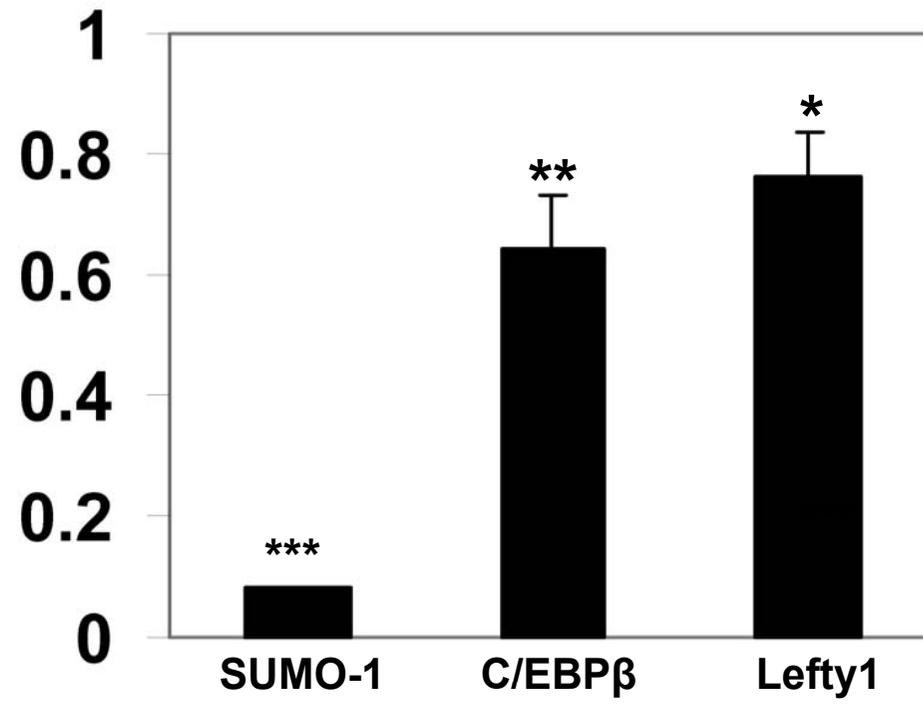
B





Supplemental Figure 4

**Relative mRNA Levels
SUMO-1 siRNA/Non-specific siRNA**



A

KLF4: RETEEFNLLDLDFILSNS
VP16: DALDDFDLML
AH: ELQELQELQALLQQQ
PPAR α : EADDLESPLSEEFLQEMGNIQEISQSIGEE
Pho4: DSLALDDLDRAFELVEGMDMDWMMP
AvrXa10: VMWEQDAAPFAGAADDFFPAFNEEELAWLMELLPQ
v-Myb: TDEDPEKEKRIKELELLLMSTENEL

B

v-Myb: TDEDPEKEKRIKELELLLMSTENEL

VP16: DALDDFDLDMML

AH: ELQELQELQALLQQQ

AH: ELQELQELQALLQQQ

TDG SIM2: KGIERNTDVQEVQYT

VP16: LMDLDFDDLAD

TDG SIM2: KGIERNTDVQEVQYT

PPAR α : EADDLESPLSEEF LQEMGNIQEISQSIGEE

TDG SIM2: KGIERNTDVQEVQYT

Pho4: DSLALDDLDRAFELVEGMDMDWMMP

TDG SIM2: KGIERNTDVQEVQYT

AvrXa10: EQDAAPFAGAADDFFAFNEEELAWLMELLPQ

TDG SIM2: KGIERNTDVQEVQYT

v-Myb: TDEDPEKEKR I KELE LLLMSTENEL

TDG SIM2: KGIERNTDVQEVQYT

v-Myb: TDEDPEKEKR I KELE LLLMSTENEL

Hannich *et al.* K-X₃₋₅-I/V-I/L-I/L-X₃₋₅-D/E/Q/N-D/E-D/E

v-Myb: TDEDPEKEKRIKELELLLMSTENEL

CoREST1 SIM: RERESEDELEEANGNNPIDI EVDQN