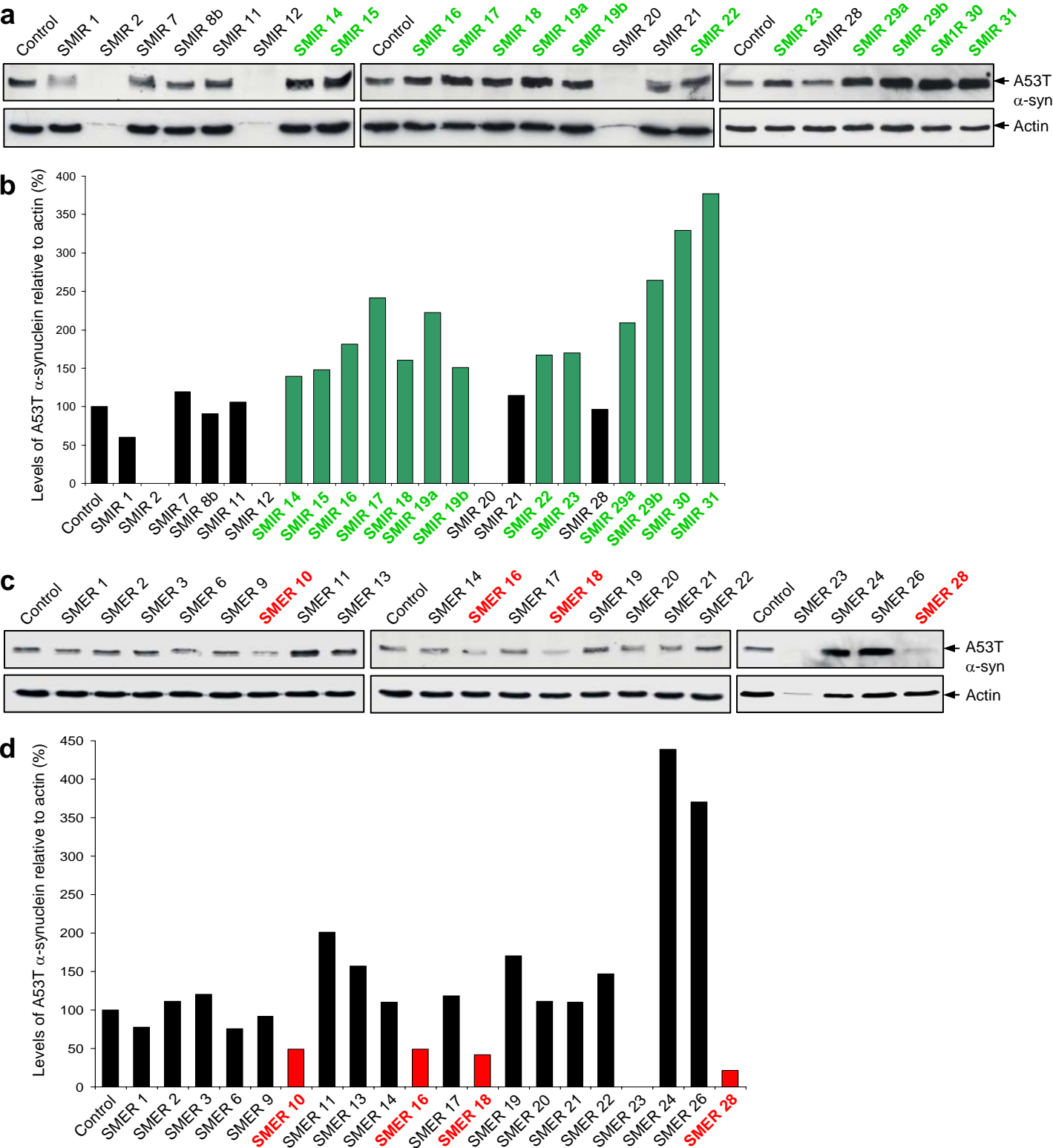


Supplementary Figure 2



**Supplementary Figure 2. Screen for the autophagy-inhibitory SMIRs and the autophagy-inducing SMERs in mammalian cell line.**  
(a,b) A stable inducible PC12 cell line expressing A53T  $\alpha$ -synuclein mutant was induced with 1  $\mu$ g ml<sup>-1</sup> doxycycline for 48 h, and expression of the transgene was switched off for 24 h, with DMSO (control), or 1:400 dilution of 5 mg ml<sup>-1</sup> SMIRs 1, 2, 7, 8b, 11, 12, 14-18, 19a, 19b, 20-23, 28, 29a, 29b, 30, 31, added in the switch-off period. The levels of A53T  $\alpha$ -synuclein ( $\alpha$ -syn) was analysed by immunoblotting with antibody against HA (a) and densitometry analysis relative to actin (b).  
(c,d) A stable inducible PC12 cell line expressing A53T  $\alpha$ -synuclein mutant was induced with 1  $\mu$ g ml<sup>-1</sup> doxycycline for 48 h, and expression of the transgene was switched off for 24 h, with DMSO (control), or 1:400 dilution of 5 mg ml<sup>-1</sup> SMERs 1-3, 6, 9-11, 13, 14, 16-24, 26, 28, added in the switch-off period. The levels of A53T  $\alpha$ -synuclein ( $\alpha$ -syn) was analysed by immunoblotting with antibody against HA (c) and densitometry analysis relative to actin (d).