## Text S1. Construction of expression plasmids.

The original constructs harboring cDNAs encoding subunits of PP2A include pcDNA3.1/Zeo(+)-A $\alpha$ , pCA2-6XMYC-Aa, pcDNA3.1/Zeo(+)-B55 $\alpha$ -HA, pcDNA5/TO-Flag-B55 $\beta$ , pcDNA5/TO-Flag-B55 $\beta\alpha\beta$ , pcDNA5/TO-Flag-B55β2, pcDNA5/TO-Flag-B55ß2mut (RR168EE) (a kind gift from Dr. Stefan Strack, Department of Pharmacology, University of Iowa, USA), pcDNA5/TO-Flag-B558,  $pcDNA3.1/Zeo(+)-B56\gamma3-HA$ , рНМ6-Сα, pcDNA5/TO-Flag- $\alpha$ 4, and pcDNA5/TO-Flag-a4mut. pCMV5-small T wt and pCMV5-small T mut are kind gifts of Dr. Estelle Sontag, University of Newcastle, Australia. BiFC expression vectors pcDNAI/Amp YFP (1-158) and pcDNAI/Amp YFP (159-238) were kind gifts of Dr. Catherine Berlot, Weis Center for Research, Geisinger Clinic, USA. BiFC expression vectors pFLAG-CMV2-YFPN (1-154) and pCMV2-HA-YFPC (155-238) were obtained by excising cDNAs of bFos and bJun from pBiFC-bFosYC155 and pBiFC-bJunYN155 (kind gifts form Dr. Tom Kerppola, HHMI, University of Michigan, USA), respectively. For constructing BiFC expression vectors encoding YFPN- and YFPC-fused to the N-terminus of Aa, cDNA of Aa was excised from pcDNA3.1/Zeo(+)-Aa by BamHI and NotI digestion, and subcloned into BglII and NotI sites of pcDNAI/Amp YFP (1-158) and pcDNAI/Amp YFP (159-238). For constructing BiFC expression vectors encoding YFPN- and YFPC-fused to the C-terminus of Aa, cDNA of Aa was amplified by PCR, digested with EcoRI and NheI, or EcoRI and KpnI, and subcloned into EcoRI and NheI sites of pFLAG-CMV2-YFPN or EcoRI and KpnI sites of pCMV2-HA-YFPC, respectively. For constructing BiFC expression vectors encoding YFPN- and YFPC-fused to the N-terminus of B55a, cDNA of B55a was excised from pcDNA3.1/Zeo(+)-B55a-HA by BgIII and XhoI digestion, and then subcloned into BgIII and XhoI sites of pcDNAI-YFPN and pcDNAI-YFPC. For constructing BiFC expression vectors encoding YFPN- and YFPC-fused to the N-terminus of B558, cDNA of B558 was excised from pcDNA5/TO-Flag-B558 by BamHI and XhoI digestion, and then subcloned into BglII and XhoI sites of pcDNAI-YFPN and pcDNAI-YFPC. For constructing BiFC expression vectors encoding YFPN- and YFPC-fused to the of N-terminus of B56γ3, cDNA B56y3 excised from was pcDNA3.1/Zeo(+)-B56y3-HA by BamHI and XhoI, and then subcloned into BgIII and XhoI sites of pcDNAI-YFPN and pcDNAI-YFPC. For constructing BiFC expression vectors encoding YFPN- and YFPC-fused to the N-terminus of B55β2, B55β2mut (RR168EE), and B55βαβ, cDNAs of B55β2, B55β2mut (RR168EE), and B55βαβ were amplified by PCR using plasmids described earlier and a XhoI site on the 5' end and a XbaI site on the 3' end were introduced, then subcloned into XhoI and XbaI sites of pcDNAI-YFPN and pcDNAI-YFPC. For constructing BiFC

expression vectors encoding YFPN- and YFPC-fused to the N-terminus of a4 or  $\alpha$ 4mut, cDNAs of  $\alpha$ 4 or  $\alpha$ 4mut were amplified by PCR using plasmids described earlier, and a myc-epitope tag and a BgIII site on the 5' end, and a SalI site on the 3' end were introduced, and subcloned into BglII and XhoI sites of pcDNAI-YFPN and pcDNAI-YFPC. For constructing BiFC expression vectors encoding YFPN- and YFPC-fused to the C-terminus of Aa, Ca, and B558, cDNAs of Aa, Ca, and B558 were amplified by PCR using plasmids described earlier, and a EcoRI site on the 5' end, and a NheI site on the 3' end were introduced, and subcloned into EcoRI and XbaI sites of pFLAG-CMV2-YFPN. For constructing BiFC expression vectors encoding YFPN- and YFPC-fused to the C-terminus of B55β, B55β2, B55β2mut, and B55βαβ, cDNAs of B55β, B55β2, B55β2mut, and B55βαβ were amplified by PCR using plasmids described earlier, and a HindIII site on the 5' end, and a XbaI site on the 3' end were introduced, and subcloned into HindIII and XbaI sites of pFLAG-CMV2-YFPN. For constructing BiFC expression vectors encoding YFPNand YFPC-fused to the C-terminus of  $\alpha 4$  or  $\alpha 4$ mut, cDNAs of  $\alpha 4$  or  $\alpha 4$ mut were amplified by PCR using plasmids described earlier, an ApaI site on the 5' end, and a KpnI site on the 3' end were introduced, and subcloned into ApaI and KpnI sites of pCMV2-HA-YFPC. For CFP-fusion expression vector of Ca, cDNAs of Ca amplified by PCR using plasmid described earlier, a Flag-epitope tag and a BamHI site on the 5' end, and a EcoRI site on the 3' end were introduced, and subcloned into BamHI and EcoRI sites of pECFP-N1 (Clontech). For CFP-fusion expression vectors of B55β2 and B55β2mut, cDNAs of B55β2 and B55β2mut were amplified by PCR using plasmid described earlier, a Flag-epitope tag and a HindIII site on the 5' end, and a Sall site on the 3'end were introduced, and were subcloned into HindIII and Sall sites of pECFP-C1 (Clontech).