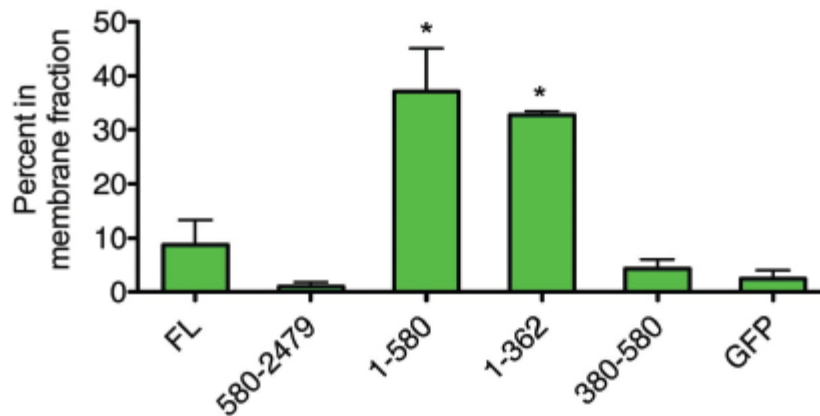
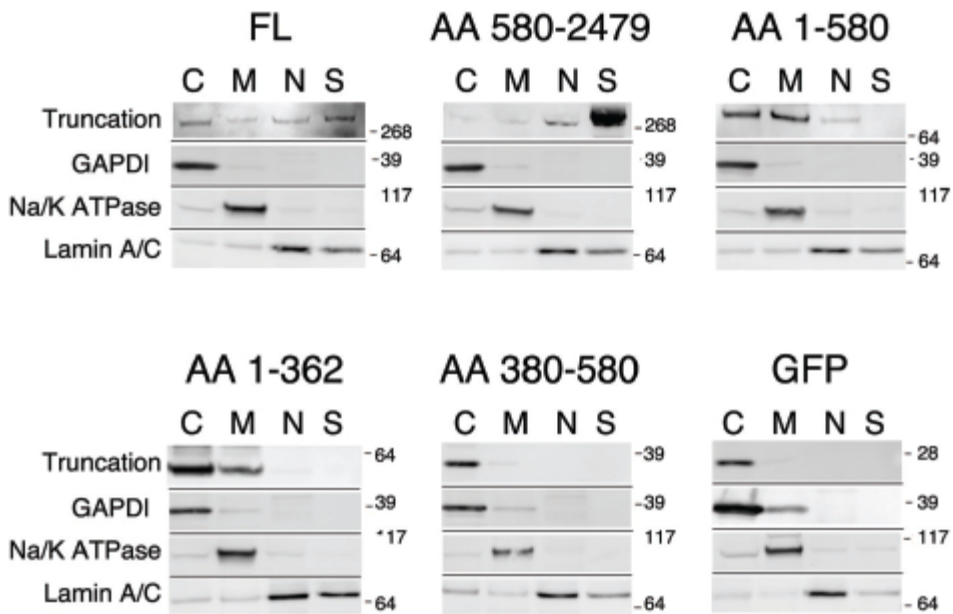


Supplemental Material



molecular weight markers are shown in kDa.

(B) Percent of each truncation present in the membrane fraction. Data are presented as mean \pm SD, n=3. Asterisks indicate statistical significance over GFP-alone.

Supplemental Figure 1.

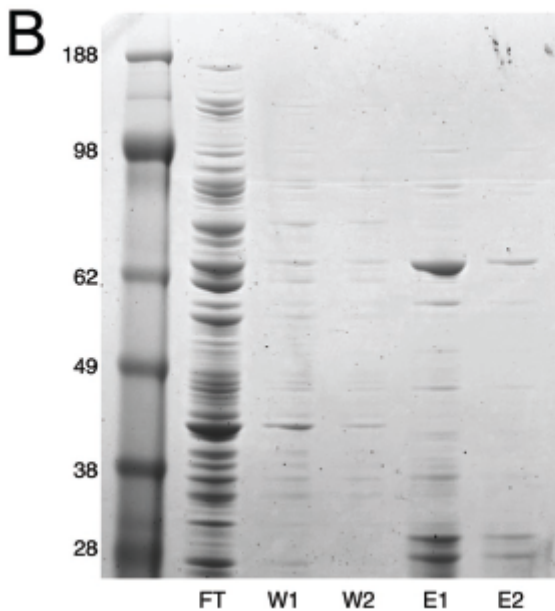
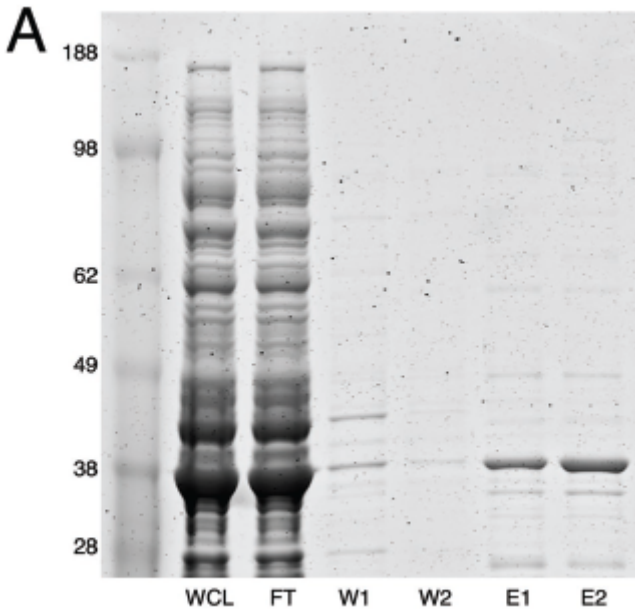
Truncation of CEP290's

C-terminus increases

CEP290 membrane

association

(A) Subcellular fractionation experiments performed on 293T cells expressing CEP290 constructs. Cells were fractionated into cytoplasmic (C), membrane (M), nuclear (N), and cytoskeletal (S) fractions and analyzed by western blotting. Relevant



Supplemental Figure 2. Expression and purification of CEP290

truncation mutants in bacterial cells

CEP290 regions M (A) and aa 1-580

(B) were expressed from pDest-527 in

E. coli BL21(DE3)pLysS by IPTG

induction and purified by nickel affinity

chromatography. WCL is the whole

bacterial cell lysate. FT is the fraction

of lysate that did not bind to the Ni-

NTA resin. W1 and W2 are the

material that washed off the resin

during the first and second washes,

respectively. E1 is the first elution

fraction. E2 is the second elution

fraction. Relevant molecular weights

are indicated in kDa

Supplemental Table 1. Primers used to generate truncation mutants

Truncation	Primer	Sequence
aa 1-2479	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGCCCCAAACATCAATTGG
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAATAGATCGGGAAGTTAACAGG
aa 580-2479	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGACGGAGAACATAAGCCAAGG
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAATAGATCGGGAAGTTAACAGG
aa 1-580	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGCCCCAAACATCAATTGG
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAAGATTCTAGATCCTCGGTAG
aa 1-362	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGCCCCAAACATCAATTGG
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAATCCCTTTCTTGGATTCCCTGC
aa 380-580	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGAAAAACACTTGCATCATTGAGGAC
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAAGATTCTAGATCCTCGGTAG
aa 1-1695	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGCCCCAAACATCAATTGG
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAATCCAGCAGATACTTCAAATCC
aa 580-1695	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGACGGAGAACATAAGCCAAGG
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAATCCAGCAGATACTTCAAATCC
aa 1-1966	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGCCCCAAACATCAATTGG
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTATGTTTTAGCTTTCTCTGCAG
aa 580-2479	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGACGGAGAACATAAGCCAAGG
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAATAGATCGGGAAGTTAACAGG
aa 580-1966	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGACGGAGAACATAAGCCAAGG
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTATGTTTTAGCTTTCTCTGCAG
aa 1695-1966	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGCAGTCCAGAGGAGTCCAC
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTATGTTTTAGCTTTCTCTGCAG
aa 1966-2479	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGACAGGCATGACCGTGGAC
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAATAGATCGGGAAGTTAACAGG
aa 1695-1903	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGCAGTCCAGAGGAGTCCAC
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTATTTCTTTTCATGGCTTAAGGTC
aa 1903-2479	Forward	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTGAAGGAGATAGAACCATGACAGGCATGACCGTGGACC
	Reverse	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAATAGATCGGGAAGTTAACAGG