
Supplemental Table S1. Primer sequences used for upstream truncated constructs.

<i>Pptca1</i> -1292-F	5'-ACCAGCAGAAATCTTGCGTT-3'
<i>Pptca1</i> -484-F	5'-GTACCGCATAGTCGTGCAAA-3'
<i>Pptca1</i> -225-F	5'-GACTTCGACTTACCAATGACTTC-3'
<i>Pptca1</i> -115-F	5'-GGATATTATCATCAAGATACCCGGA -3'
<i>Pptca1</i> -90-F	5'-AAGGTGACGTTTTTCCTCGA-3'
<i>Pptca1</i> -80-F	5'-TTTTCTCGAATACGTCACGA-3'
<i>Pptca1</i> +61-R	5'-TGTTTCGATGATTTTCTGCTAGG-3'
<i>Pptca1</i> -10-F	5'-TACATTCTCACAGCTCACCGACC-3'

F is the forward and R is the reverse primer.

Supplemental Table S2. Primer sequences used for linker-scan constructs.

LS1-F	5'-CCGCACGATGCCGTAGGGAGTG-3'
LS1-R	5'-CCGCCGAGGAAAAATGGTGCACTCT-3'
LS2-F	5'-CCGCTGCCGTAGGGAGTGACG-3'
LS2-R	5'-CCGCTATTCGAGGAAAAATGGTGAC-3'
LS3-F	5'-CCGCGTAGGGAGTGACGCACGAG-3'
LS3-R	5'-CCGCGACGTATTCGAGGAAAAATGGTG-3'
LS4-F	5'-CCGCGGAGTGACGCACGAGCTT-3'
LS4-R	5'-CCGCTCGTGACGTATTCGAGGAAAA-3'
LS5-F	5'-CCGCTGACGCACGAGCTTCATC-3'
LS5-R	5'-CCGCGGCATCGTGACGTATTCGA-3'
LS6-F	5'-CCGCGCACGAGCTTCATCATCGA-3'
LS6-R	5'-CCGCCTACGGCATCGTGACGTATTC-3'
LS7-F	5'-CCGCGAGCTTCATCATCGATCTTGACG-3'
LS7-R	5'-CCGCCTCCCTACGGCATCGTGA-3'
LS8-F	5'-CCGCTTCATCATCGATCTTGACGG-3'
LS8-R	5'-CCGCGTCACTCCCTACGGCATCG-3'
LS9-F	5'-CCGCTCATCGATCTTGACGGCAA-3'
LS9-R	5'-CCGCGTGCGTCACTCCCTACGG-3'
LS10-F	5'-CCGCCGATCTTGACGGCAAATACA-3'
LS10-R	5'-CCGCGCTCGTGCGTCACTCCC-3'
LS11-F	5'-CCGCCTTGACGGCAAATACATTCTCA-3'
LS11-R	5'-CCGCTGAAGCTCGTGCGTCACTC-3'
LS12-F	5'-CCGCACGGCAAATACATTCTCACAGC-3'
LS12-R	5'-CCGCATGATGAAGCTCGTGCGT-3'
LS13-F	5'-CCGCCAAAATACATTCTCACAGCTCACC-3'
LS13-R	5'-CCGCATCGATGATGAAGCTCGTG-3'
LS14-F	5'-CCGCATACATTCTCACAGCTCACCGAC-3'
LS14-R	5'-CCGCCAAGATCGATGATGAAGCTCG-3'
LS15-F	5'-CCGCATTCTCACAGCTCACCGAC-3'
LS15-R	5'-CCGCCCGTCAAGATCGATGATG-3'

F is the forward and R is the reverse primer.

Supplemental Table S3. Primer sequences used for one base replacement constructs around CRE1.

around CRE1 i-F	5'-CATTTCCTCGCATACGTCAC-3'
around CRE1 i-R	5'-GTGACGTATGCGAGGAAAAATG-3'
around CRE1 ii-F	5'-ACCATTTCCTCGACTACGTCAC-3'
around CRE1 ii-R	5'-GTGACGTAGTCGAGGAAAAATGGT-3'
around CRE1 iii-F	5'-ATTTTCCTCGAAGACGTCACG-3'
around CRE1 iii-R	5'-CGTGACGTCTTCGAGGAAAAAT-3'
around CRE1 iv-F	5'-CATTTCCTCGAATCCGTCAC-3'
around CRE1 iv-R	5'-GTGACGGATTTCGAGGAAAAATG-3'
around CRE1 v-F	5'-TTTTCTCGAATAAGTCACGATGC-3'
around CRE1 v-R	5'-GCATCGTGACTTATTCGAGGAAAA-3'
around CRE1 vi-F	5'-CCATTTCCTCGAATACTTCACG-3'
around CRE1 vi-R	5'-CGTGAAGTATTCGAGGAAAAATGG-3'
around CRE1 vii-F	5'-TCGAATACGGCACGATGCCGTAGGGAGTG-3'
around CRE1 vii-R	5'-CACTCCCTACGGCATCGTGCCGTATTCGA-3'
around CRE1 viii-F	5'-TTTTCTCGAATACGTAACGATGC-3'
around CRE1 viii-R	5'-GCATCGTTACGTATTCGAGGAAAA-3'
around CRE1 ix-F	5'-TCCTCGAATACGTCCCGATGCCGTAGGGA-3'
around CRE1 ix-R	5'-TCCCTACGGCATCGGGACGTATTCGAGGA-3'
around CRE1 x-F	5'-TCGAATACGTCAAGATGCCGTAG-3'
around CRE1 x-R	5'-CTACGGCATCTTGACGTATTCGA-3'
around CRE1 xi-F	5'-CTCGAATACGTCACTATGCCGTAG-3'
around CRE1 xi-R	5'-CTACGGCATAGTGACGTATTCGAG-3'
around CRE1 xii-F	5'-GTCACGCTGCCGTAGGGAGTGACGCA-3'
around CRE1 xii-R	5'-TGCGTCACTCCCTACGGCAGCGTGAC-3'

F is the forward and R is the reverse primer.

Supplemental Table S4. Primer sequences used for one base replacement constructs around p300be.

around p300be i-F	5'-ACGATGCCGTATGGAGTGACGCACGAGC-3'
around p300be i-R	5'-GCTCGTGCGTCACTCCATACGGCATCGT-3'
around p300be ii-F	5'-GTAGTGAGTGACGCACGAGCTT-3'
around p300be ii-R	5'-AAGCTCGTGCGTCACTCACTAC-3'
around p300be iii-F	5'-GTAGGTAGTGACGCACGAGCTTC-3'
around p300be iii-R	5'-GAAGCTCGTGCGTCACTACCTAC-3'
around p300be iv-F	5'-TGCCGTAGGGCGTGACGCACGAG-3'
around p300be iv-R	5'-CTCGTGCGTCACGCCCTACGGCA-3'
around p300be v-F	5'-TGCCGTAGGGATTGACGCACGAGCTTCA-3'
around p300be v-R	5'-TGAAGCTCGTGCGTCAATCCCTACGGCA-3'
around p300be vi-F	5'-ATGCCGTAGGGAGCGACGCACGAGCTT-3'
around p300be vi-R	5'-AAGCTCGTGCGTCGCTCCCTACGGCAT-3'
around p300be vii-F	5'-TAGGGAGTTACGCACGAGCTTC-3'
around p300be vii-R	5'-GAAGCTCGTGCGTAACTCCCTA-3'
around p300be viii-F	5'-ATGCCGTAGGGAGTGCCGCACGAGCTT-3'
around p300be viii-R	5'-AAGCTCGTGCGGCACTCCCTACGGCAT-3'
around p300be ix-F	5'-GTAGGGAGTGAAGCACGAGCTT-3'
around p300be ix-R	5'-AAGCTCGTGCTTCACTCCCTAC-3'
around p300be x-F	5'-TAGGGAGTGACTCACGAGCTTCAT-3'
around p300be x-R	5'-ATGAAGCTCGTGAGTCACTCCCTA-3'
around p300be xi-F	5'-GTAGGGAGTGACGAACGAGCTT-3'
around p300be xi-R	5'-AAGCTCGTTCGTCACCTCCCTAC-3'

F is the forward and R is the reverse primer.

Supplemental Table S5. Primer sequences used for substitution by NotI into CCREs.

△CCRE1-F	5'-CCGCTTTCCTCGAATACGTCACGAT-3'
△CCRE1-R	5'-CCGCCTTATGGTGCACTCTCAGTACAAT-3'
△CCRE2-F	5'-CCGCGATGCCGTAGGGAGTG-3'
△CCRE2-R	5'-CCGCTTCGAGGAAAAACGTCACC-3'
△CCRE3-F	5'-CCGCCGAGCTTCATCATCGATCTT-3'
△CCRE3-R	5'-CCGCTCCCTACGGCATCGTG-3'
△CCRE1'-F	5'-CCGCTTTCCTCGAAGCGGC-3'
△CCRE3'-R	5'-CCGCTCCCTACGGCATCGC-3'

F is the forward and R is the reverse primer.

Supplemental Table S6. Primer sequences for amplification of <i>PtbZIPs</i> .		
Primers	Target	Sequences
PtbZIP1-F PtbZIP1-R	<i>ptbZIP13</i>	5'-GCGGATCCATGGGGAAGAAT-3' 5'-CCGCTCGAGAGCCTTAGTGATGGT-3'
PtbZIP2-F PtbZIP2-R	<i>ptbZIP16</i>	5'-GGAATTCATGAACAGTTCCAACGCC-3' 5'-CCGCTCGAGCAATCCGATAACG-3'
PtbZIP3-F PtbZIP3-R	<i>ptbZIP15</i>	5'-GGAATTCATGACGGCAGCGATAGTT-3' 5'-CCCAAGCTTGAGCCAATCAACG-3'
PtbZIP4-F PtbZIP4-R	<i>ptbZIP8</i>	5'-GGAATTCATGTCTTTCTCGCTACCAACAA-3' 5'-GGAATTCAAATTCGACACCTTCACCG-3'
PtbZIP5-F PtbZIP5-R	<i>ptbZIP12</i>	5'-CGCGGATCCATGTGCCCGCAGGCCTA-3' 5'-CGGGATCCATTTCTATCTCTATTGGAAATTTG-3'
PtbZIP6-F PtbZIP6-R	<i>ptbZIP26</i>	5'-GGAATTCATGGGTGAAACCGC-3' 5'-GGAATTCTCGGTGCAATCCTCG-3'
PtbZIP7-F PtbZIP7-R	<i>ptbZIP11</i>	5'-CGCGGATCCATGACCGCACCCGACG-3' 5'-CCGCTCGAGCATATTAGTTTGCCC-3'
PtbZIP8-F PtbZIP8-R	<i>ptbZIP7</i>	5'-GGAATTCATGCGTAATCAAGGATTAGAGG-3' 5'-GGAATTCGGCGGTTCCATTGAG-3'
F is the forward and R is the reverse primer.		

Supplemental Table S7. Primer sequences used for *Pptca1* modeling constructs.

<i>Pptca1</i> -10-F	5'-TACATTCTCACAGCTCACCGACC-3'
<i>Pptca1</i> -contl0l-R	5'-TATGGTGC ACTCTCAGTACAATCTGCT-3'
<i>Pptca1</i> -a-i	5'-TCGTGACGTATTTCGAGGAAAAACG-3'
<i>Pptca1</i> -a-ii-R	5'-TACGGCATCGTGACGTATTTCGA-3'
<i>Pptca1</i> -a-iii-R	5'-CCTACGGCATCGTGACGTATTTCGA-3'
<i>Pptca1</i> -a-iv-R	5'-TCCCTACGGCATCGTGACGTATT-3'
<i>Pptca1</i> -a-v-R	5'-CCTCCCTACGGCATCGTGA-3'
<i>Pptca1</i> -a-vi-R	5'-GCCGCCTCCCTACGG-3'
<i>Pptca1</i> -a-vii-R	5'-CGGCCGCCTCCCTAC-3'
<i>Pptca1</i> -a-viii-R	5'-TGATGAAGCTCGCGGC-3'
<i>Pptca1</i> -a-ix-R	5'-AAGATCGATGATGAAGCTCG-3'
<i>Pptca1</i> -b-i and d-i-R	5'-GCGTCACTCCCTACGGCAT-3'
<i>Pptca1</i> -b-ii and d-ii-R	5'-TGAAGCTCGTGCGTCACTC-3'
<i>Pptca1</i> -b-ii and d-ii-R	5'-AGATCGATGATGAAGCTCGTG-3'
<i>Pptca1</i> -b-iv and d-iv-R	5'-TTTGCCGTCAAGATCGATGAT-3'
<i>Pptca1</i> -c-i-R	5'-TGACGTATTTCGAGGAAAAACG-3'
<i>Pptca1</i> -c-ii-R	5'-TACGGCATCGTGACGTATTTCG-3'
<i>Pptca1</i> -c-iii-R	5'-GGCCGCTCCCTACGC-3'
<i>Pptca1</i> -c-iv-R	5'-GAAGCTCGGCGGCCG-3'
<i>Pptca1</i> -c-v-R	5'-GATCGATGATGAAGCTCGGC-3'
<i>Pptca1</i> -c-vi-R	5'-TTGCCGTCAAGATCGATGATG-3'

F is the forward and R is the reverse primer.
