

TABLE S1. Primers used in this study.

Oligo	Purpose	Sequence
FO1606	integrate HIS3 ORF, TATA and terminator in <i>BPHI</i>	ACGCCATTTGATCTTCAATCTAAATGGACCCGGCTTAGCGATTGGCATT
FO1832	integrate HIS3 ORF, TATA and terminator in <i>BPHI</i>	TCAATTGAGCTTACAATTTTAGCTGGTTCGTGCCACCTATCACCACAAC
FO1824	delete <i>BPHI</i> promoter and 5' coding sequence	GTTGCAAAGCTTTGTTTTCGGTATGTTAATAGGGAACAAAAGCTGG
FO1825	delete <i>BPHI</i> promoter and 5' coding sequence	CGTCTTGGAGTCTTAAGACTTTCGAAGCAGCTATAGGGCGAATTGG
FO2143	insertion of Gal4 binding sites in <i>BPHI</i> at distance 280	TCTGGGACATGATTAATTTTGAAGTGAATTCGAGCTCGTTTAAAC
FO2054	insertion of Gal4 binding sites in <i>BPHI</i> at distance 280	CCATAATGCTCCCTGCATGTTGAGATCATCGCTTCGCTGATTAATTACCC
FO2144	insertion of Gal4 binding sites in <i>BPHI</i> at distance 380	AAATATCGTAAAGATAAGCATTTCGGGAATTCGAGCTCGTTTAAAC
FO2056	insertion of Gal4 binding sites in <i>BPHI</i> at distance 380	GCCGCTGATGTCTAAGGTTAAAAGCTCATCGCTTCGCTGATTAATTACCC
FO2207	insertion of Gal4 binding sites in <i>BPHI</i> at distance 493	AGACGCATATGGCTCAGATTACATCGTTTGAATTCGAGCTCGTTTAAAC
FO2208	insertion of Gal4 binding sites in <i>BPHI</i> at distance 493	AACCGAATGCTTATCTTTACGATATTTCCATCATCGCTTCGCTGATTAATTACCC
FO2209	insertion of Gal4 binding sites in <i>BPHI</i> at distance 574	TGTCATTGAGAATTGTGCATAAAAAATTGGGAATTCGAGCTCGTTTAAAC
FO2210	insertion of Gal4 binding sites in <i>BPHI</i> at distance 574	GTACGCAAACGATGTAATCTGAGCCATATGTCATCGCTTCGCTGATTAATTACCC
FO2219	insertion of Gal4 binding sites in <i>BPHI</i> at distance 690	AGCCTGCAATGTTCAACAGCTAACAACAGAGAATTCGAGCTCGTTTAAAC
FO2220	insertion of Gal4 binding sites in <i>BPHI</i> at distance 690	CAGTATAATGAATCGAAGTAACTAGGATCGTCATCGCTTCGCTGATTAATTACCC

FO2213	insertion of Gal4 binding sites in <i>BPH1</i> at distance 799	TTGGTCAAACGCCTTTACAAATATTTTCAGGGAATTCGAGCTCGTTTAAAC
FO2214	insertion of Gal4 binding sites in <i>BPH1</i> at distance 799	TCTCAAATATTGGCTTCATTGGAACCTTACTCATCGCTTCGCTGATTAATTACCC
FO3085	insertion of Gal4 binding sites in <i>BPH1</i> at distance 1397	TATGAAGCTTTGGCTTCCCTGGAAAATGCTGAATTCGAGCTCGTTTAAAC
FO3086	insertion of Gal4 binding sites in <i>BPH1</i> at distance 1397	AGATATGAAGATACTATCATAGCTGAGGAATCATCGCTTCGCTGATTAATTACCC
FO3087	insertion of Gal4 binding sites in <i>BPH1</i> at distance 1995	TCACGGGATATGACGGTTAGCTTAATTAACGAATTCGAGCTCGTTTAAAC
FO3088	insertion of Gal4 binding sites in <i>BPH1</i> at distance 1995	AGGGTCGTTTGGTAACGAAAGTGATATCGATCATCGCTTCGCTGATTAATTACCC
FO3197	synthesize LexA binding sites to make pFA6a-kanMX-LexA-PGAL1	ATGCATAGATCTCTGCTGTATATAAAACCAGTGGTTATATGTACAGTACTGCTGTATATAAAACCAGTGGTTATATGTACAGTACGGGATCCATGCAT
FO3198	synthesize LexA binding sites to make pFA6a-kanMX-LexA-PGAL1	ATGCATGGATCCCGTACTGTACATATAACCACTGGTTTTATATACAGCAGTACTGTACATATAACCACTGGTTTTATATACAGCAGAGATCTATGCAT
FO4887	insertion of LexA binding sites in <i>BPH1</i> at distance 123	GCGGCTTAGTATATGTCTGGGACATGATTAATTTCGAACTGAATTCGAGCTCGTTTAAAC
FO4888	insertion of LexA binding sites in <i>BPH1</i> at distance 123	TATTCTTAGTCAATACCATAATGCTCCCTGCATGTTGAGAATGCATGGATCCCGTACTGTACATAT
FO2209	insertion of LexA binding sites in <i>BPH1</i> at distance 417	TGTCATTGAGAATTGTGCATAAAAAATTGGGAATTCGAGCTCGTTTAAAC
FO4345	insertion of LexA binding sites in <i>BPH1</i> at distance 417	GTACGCAAACGATGTAATCTGAGCCATATGATGCATGGATCCCGTACTGTACATAT
FO2213	insertion of LexA binding sites in <i>BPH1</i> at distance 642	TTGGTCAAACGCCTTTACAAATATTTTCAGGGAATTCGAGCTCGTTTAAAC

FO3232	insertion of LexA binding sites in <i>BPH1</i> at distance 642	TCTCAAATATTGGCTTCATTGGAACCTTACATGCATGGATCCCGTACTGTACATAT
FO4430	insertion of <i>ADHI</i> terminator between Gal4 binding sites and HIS3 TATA at <i>BPH1</i>	CAGAACGGAAGAATCGTTAGTGTCATTGAGAATTGTGCATACTTCTAAATAAGCGA ATTTCTTA
FO4431	insertion of <i>ADHI</i> terminator between Gal4 binding sites and HIS3 TATA at <i>BPH1</i>	GCGACCTTTTGGCGATCATTTGTTATTTGCCTTACTAGTTCATATTACCCTGTTATCC CTAGCGG
FO1978	insert <i>NAT-MX4</i> after 3' end of <i>HIS3</i>	TTCTATACGTGTCATTCTGAACGAGGCGCGCTCAGCTGAAGCTTCGTACGC
FO1979	insert <i>NAT-MX4</i> after 3' end of <i>HIS3</i>	ATACCACTTGCCACCTATCACCACAACCTAACTGCATAGGCCACTAGTGGATCTG
FO3654	insert <i>HIS3-NATMX4</i> in <i>YBR281C</i>	GAATATTCGACGCGCCAGCTGTTCAAATACCATGTGGCCACTTAGCGATTGGCATT ATCACATAAT
FO3655	insert <i>HIS3-NATMX4</i> in <i>YBR281C</i>	CTATTGAATACTTTAGACAAAATCTCAGTCAAATTAGACCGCATAGGCCACTAGTG GATCTG
FO3656	insertion of Gal4 binding sites and deletion of 5' end of <i>YBR281C</i>	GCATTGTGCGCCGCGAAAAGCTGTGGCACCAATATCAATAAGAATTTCGAGCTCGTT TAAAC
FO3659	insertion of Gal4 binding sites in <i>YBR281C</i> at distance 305	ATGAAATAGAACCTCCTTCTTACTAGCAATGGTTCTACGTTTCATCGCTTCGCTGA TTAATTACCC
FO3658	insertion of Gal4 binding sites in <i>YBR281C</i> at distance 606	GTCATAGACAAGGAAGGCTTAGTCCAGTTGGTAATTAATCTCATCGCTTCGCTGA TTAATTACCC
FO3657	insertion of Gal4 binding sites in <i>YBR281C</i> at distance 806	CATAGGTTTCATCATAAACACCACCGTTAAGACCAGAATGTCTCATCGCTTCGCTGA TTAATTACCC
FO201	make <i>HIS3</i> Northern probe	TGAGCAGGCAAGATAAAC
FO609	make <i>HIS3</i> Northern probe	GCCTCATCCAAAGGCGC
FO961	make <i>ACT1</i> Northern probe	TGTCACCAACTGGGACGATA
FO962	make <i>ACT1</i> Northern probe	GGCTTGGATGGAAACGTAGA
FO4212	5' RACE primer	TTCAGTGGTGTGATGGTTCGT
FO5080	primer for m3C to test looping	GGCGGCTTCTAATCCGTA
FO5234	primer for m3C to test looping	TCGTTTATCTTGCCTGCTCA
FO5267	primer for m3C control Ch V	ACGCCATTTTTACGCAGATT
FO5268	primer for m3C	AGTCTGGTGAAGAGCATGTAGC

control Ch V