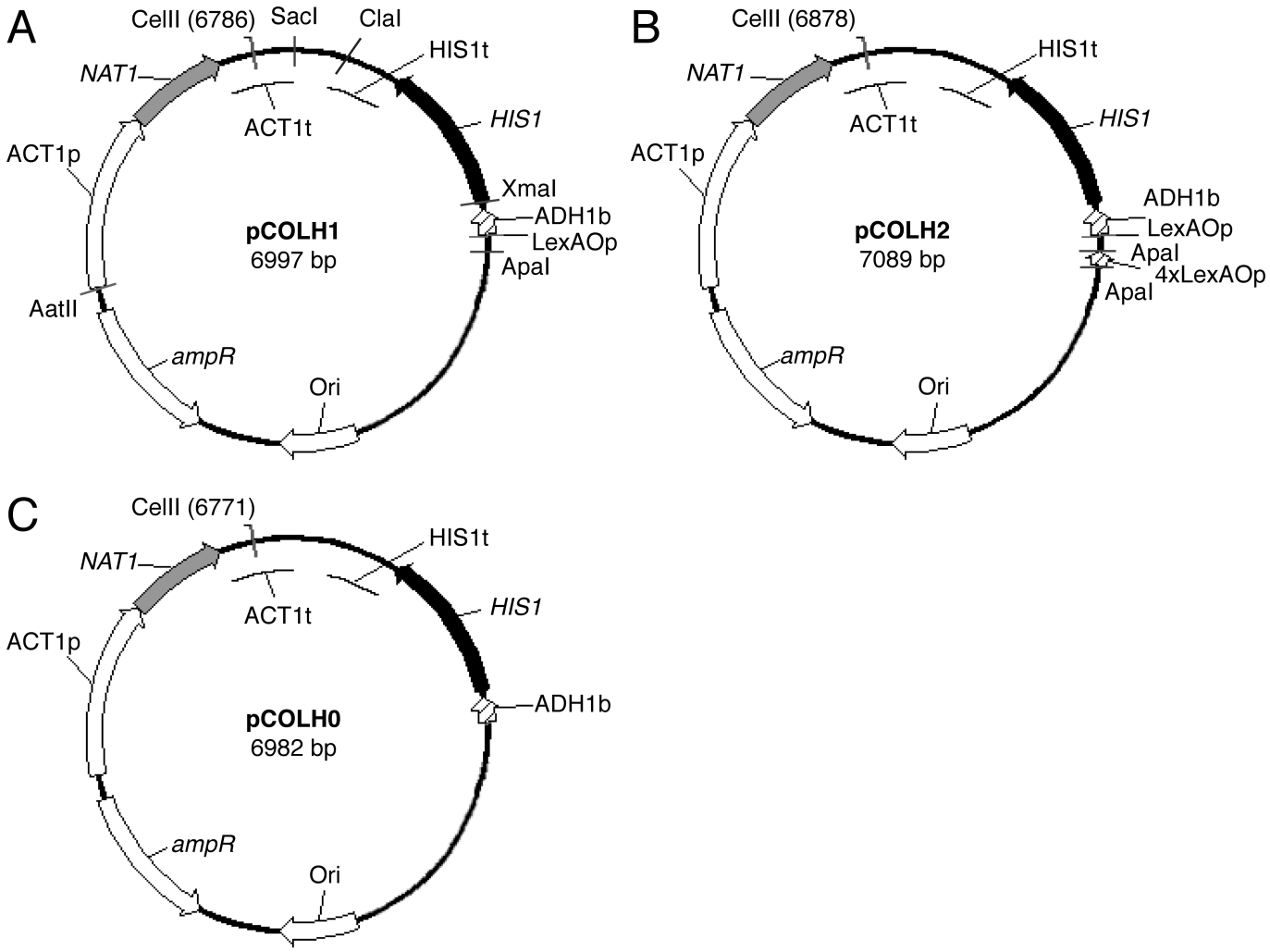
Supplementary Table 1. Primers

Primer name	Restriction site	Sequence
a) Construction of pCOLH0, pCOLH1, pCOLH2 and pC2H-HIS1		
HIS1-F	XmaI	CCCGGGAACGTCATGGATTTAGTCAATCAT
HIS1-R	ClaI	AGTCATCGATCTAGAAAACCGTACCAGGTG
NAT1-F	AatII	ATCGGACGTCCAGAGCTATTAAGATCACCAG
NAT1-R	NarI	ATCGGGCGCCCCTTCTAGAATTTTATGATG
HIS1IS-F	SacI	AAGAGCTCATAGTCAGTAGCTAAACTG
HIS1IS-R	SacI	AAGAGCTCCTAGCCTATAGGTACCACTG
b) Construction of pC2H-LACZ		
MPA-F	AatII	ATCGGACGTCTAGATGTTTATGATACTAAGG
MPA-R	NarI	ATCGGGCGCCTCTAGAACTCAGTATATCTTC
RPS1-F	PacI	ATCGTTAATTAACATGGCTGTCGGTAAAAAC
RPS1-R	MluNI	ATCGTGGCCATTAAACAGATTCTAAAACAAC
HIS1TLac-F	SacI	ATCGGAGCTCAAGAAGTGATAGTTTCTCATAAAT
HIS1TLac-R	SacI	ATCGGAGCTCCTAGAAAACCGTACCAGGTG
4xLexA-F	ApaI	GGGCCCTTGCGAATATTTGTTCGTATTTGCGAATATTTGT TCGTATTTGCGAATATTTGTTCGTATTTGCGAATATTTGTT CGTATGGGCCC
4xLexA-R	ApaI	GGGCCCATACGAACAAATATTCGCAAATACGAACAAATA TTCGCAAATACGAACAAATATTCGCAAATACGAACAAAT ATTCGCAAGGGCCC
c) Construction of pC2HB		
MCSB-F	BspEI, SalI	CTCCGGAAGATCTGGTGCTGGTGGTGTTGGTATCCGTATG ATGTGCCTGACTACGCAGGTGCTGGTGGTGTTGGTGCTA GCAGGCCTTTCGAAAGGCGCGCCGTCGACC
MCSB-R	BspEI, SalI	CCGGGGTCGACGGCGCGCCTTTCGAAAGGCCTGCTAGCA CCAACACCACCAGCACCTGCGTAGTCAGGCACATCATAC GGATAACCAACACCACCAGCACCAGATCTTCCGGAGACG T
LexA-F	AccIII	ATCGTCCGGAATGGGTGCTCCTCCAAAAAAGAAGAGAAA GGTAGCTAGAGAATTAACAAAACGACAAAGCG
LexA-R	BglII	ATCGAGATCTCATTTCGCGGTACAAACC
MET3P-F	AatII	GACGTCTTCCAATTAGAGGTTGTGGA
MET3P-R	BspEI	TCCGGAGTTTTCTGGGGAGGGTATTTAC
ACT1TB-F	SalI	ATCGGTCGACGGATCCGAGTGAAATTCTGG
ACT1TB-R	DraIII	ATCGCACGAAGTGTGAAGGGGGAGATTTTCAC
BIS-F	PvuI	ACTGTACGTAAATCACCTTGTTCTTGGCCGTG
BIS-R	SnaBI	ACTGCGATCGACCAGATCAAAATGCTAGAAC
NotIB	AseI	TTCCATTAATGCGGCCGCATTAATGGAA
NewMCSB-F	AscI, BsaJI	AAGGCGCGCCACGCGTAGTACTTAACCGCGGAAAA
NewMCSB-R	AscI, BsaJI	TTTTCCGCGGTTAAGTACTACGCGTGGCGCGCCTT
d) Construction of pC2HP		
MCSP-F1	AatII	CTCCGGAATGGGTGCTCCTCCAAAAAAGAAGAGAAAGGT AGCTCCGCGGGCTAGCGGTGCTGGTGGTGTTGGTGACTA CAAAGACCATGACGGTG
MCSP-F2	SgrAI	ATTATAAAGATCATGACATCGATTACAAGGATGACGATG ACAAGGGAGCAGGAGGCGTCGGAAGGCCTGAAGACGGG ATCGTTCGAACG
MCSP-R1	SgrAI	CCGGCGTTCGAACGATCCCGTCTTCAGGCCTTCCGACGCC TCCTGCTCCCTTGTCATCGTCATCCTTGTAATCGATGTCA TGATCTTTATAATCACCGTCATGGTCTTTGTAGTC

MCSP-R2	AatII	ACCAACACCACCAGCACCGCTAGCCCGCGGAGCTACCTT TCTCTTCTTTTTTGGAGGAGCACCCATTCCGGAGACGT
MET3P-F	AatII	GACGTCTTCCAATTAGAGGTTGTGGA
MET3P-R	BspEI	TCCGGAGTTTTCTGGGGAGGGTATTTAC
ACT1TP-F	SgrAI	ATCGCGCCGGTGTGAAGGGGGAGATTTTCAC
ACT1TP-R	BstBI	ATCGTTCGAAGAGTGAAATTCTGGAAATCTGG
PIS-F	PflMI	CCAAATATTGGTAACAGAGGTAAACAACTCTGG
PIS-R	ApaI	GGGCCCTTGAAGAATTGGAAGAAGTTGGC
NotIP		GCGGCCGC
VP16P-F	SacII	ATTACCGCGGTCTCCAGGGCCCGG
VP16P-R	NheI	ATTAGCTAGCACCACCGTATTCATC
NewMCSP-F	StuI, EcoRI	AAAGGCCTCCCGGGAGGCGCGCCACGCGTAGTACTTAAG ATATCCC
NewMCSP-R	StuI, EcoRI	GGGATATCTTAAGTACTACGCGTGGCGCGCCTCCCGGGA GGCCTTT
e) Cloning of bait and prey genes of interest		
INO4-F	NheI	GCTAGCATGTCGTCCGATAGTAGTTCACC
INO4-R	StuI	AGGCCTTTATTTTGCGATATCACTACCATCG
INO2-F	NheI	GCTAGCATGTCTTCCACTGTTACCC
INO2-R	StuI	AGGCCTCTACCTATTTTCTATTAATTTC
KIS1-F	NheI	ACTGGCTAGCCTCAGTCCAAAATCTAC
KIS1-R	SalI	ACTGGTCGACTCACAGTTGCTGCTCTTG
SNF4-F	StuI	ACTGAGGCCTACTGACATAGCACCACC
SNF4-R	BstBI	ACTGTTCGAACTAATCTTCTCCAAATAATATG
CEK1-F	NheI	GCTAGCATGATGAATATAGATCAACATC
CEK1-R	StuI	AGGCCTTTATAATGGCTTCATAATCTC
CEK2-F	StuI	AAGGAGGCCTATGAAGAAATCTACTGGCCCCAC
CEK2-R	SalI	AAGGGTCGACTTACGACATGACTATTTCG
CPH1-F	StuI	AGGCCTATGTCAATTACTAAAACATACAATGG
CPH1-R	StuI	AGGCCTCTATGTTTGTGACTGTTTTACTTC
VP16Cterm-F	StuI	GGAGGCCTTCTCCAGGGCCCGGTTTCAC
VP16Cterm-R	AscI	AGGCGCGCCATTAACCACCGTATTCATCAATACC
CPH1Nterm-F	XmaI	TCCCCCCGGGATGTCAATTACTAAAACATACAATGG
CPH1Nterm-R	NheI	AAGGAGCTAGCTGTTTGTGACTGTTTTACTTCTTC
HST7-F	StuI	AAGGAGGCCTATGACAAGAACAACTCGTATAG
HST7-R	BstBI	AAGGTTCGAATTACACTTTGCATTTTCTGATC
HST7-Y2H-F	XmaI	CCCGGGCATGACAAGAACAACTCGTATAG
HST7-Y2H-R	XmaI	CCCGGGCTTACACTTTGCATTTTCTGATC
CEK1-Y2H-F	XmaI	CCCGGGCATGATGAATATAGATCAACATC
CEK1-Y2H-R	XmaI	CCCGGGCTTATAATGGCTTCATAATCTC



Supplementary Figure 1. (A) Plasmid pCOLH1 contains reporter gene *HIS1* with upstream a basal *ADH1* promoter and one LexAOp sequence. **(B)** Plasmid pCOLH2 contains reporter gene *HIS1* with upstream a basal *ADH1* promoter and five LexAOp sequences. **(C)** Plasmid pCOLH0 contains reporter gene *HIS1* with upstream a basal *ADH1* promoter and no LexAOp sequences. All three plasmids integrate at the *ACT1* terminator and *NAT1* is used for selective growth on nourseothricin. ADH1b: *ADH1* basal promoter; p: promoter; t: terminator; Ori: origin of replication.