

Supplementary Information

Table S1. Oligonucleotide primers used for normalized cDNA construction, PCR detection and gene expression analysis ($N = A, C, G, \text{ or } T$; $K = A, G, \text{ or } C$).

Primer name	Primer sequence (5' to 3')
SMART oligo IV	AAGCAGTGGTATCAACGCAGAGTGGCCATTACGGCCrGrGrG
CDS-3M adapter	AAGCAGTGGTATCAACGCAGAGTGGCCGAGGCGGCC(T)20 KN
CapM primer	AAGCAGTGGTATCAACGCAGAGT
M13	TGTA AACGACGGCCAGT CAGGAAACAGCTATGACC
<i>AsMDAS-box1</i>	GCTGCAGAGTAGTCATCAAGAGT GACTGTGCAAGGTATCCATTTGT
<i>AsMDAS-box2</i>	GGTCGCCCTCATCATCTTCT GCCGGCTGTATCCCACCATT
<i>AsMDAS-box5</i>	GCTCAAGTACGAAGGAGATTATTG CACGACTTAATCCAGTTTCAAGAG
<i>AsMDAS-box6</i>	GCCCTCGTCATCTTCTCCAACC GCCGGCTGTATCCCACCATT
<i>18S rRNA</i>	GGCCTTCGGGATCGGAGTAAT CTAAGAACGGCCATGCACCAC
<i>AsKNOX</i>	CCGCCGACGACCTCCACAC GATCCCCACTTTTCGCCTTTA

Figure S1. Alignment of *MADS-box* amino acid sequences between *A. sisalana* and *A. tequilana*.

MADS-box_1.pro	MMGRGRVELKRI ENKI NRAVTFKDRNGLNKKAYELSVLDCDAEVALVI FSNRSKLYEFCSSTSSNMKTLERYQKCSYGAP	79
AEX92976.pro	MMGRGRVELKRI ENKI NRQVTFKRRNGLNKKAYELSVLDCDAEVALVI FSNRGLYEFCSSTSSNMKTLERYQKCSYGAP	79
MADS-box_2.pro	MMGRGRVELKRI ENKI NSQVSFAKRRNSLLKAYELSVNDCDAEVALI FSSRGRLF EFCSSTSSNDKTLVYGNSSNNTL	79
AEX92975.pro	MMGRGRVELKRI ENKI NRQVSFAKRRNGLNKKAYELSVLDCDAEVALI FSSRGRLF EFCSSTSSNFKTLERYGNSSNNTL	79
MADS-box_6.pro	MMGRGI EI KKI ENPTNRQVTSKRRSGI WAKAKEATVLCDAEVS LVMFSSAGKFS EYCDPSTDTKKSFDRYCCATG. . I	78
AEX92972.pro	MMGRGI EI KKI ENPTNRQVTSKRRSGI WAKAKEATVLCDAEVS LVMFSSAGKFS EYCDPSTDTKKI FDRYCCATG. . I	78
MADS-box_5.pro	MA REKI NI RKI DNTTARQVTSKRRRGLFKKAEELSI LCDAEVGLI FSAATGKLF EFSS. . STKEI I EDHSNHSKKI L	77
AEX92969.pro	MA REKI NI RKI DNTTARQVTSKRRRGLFKKAEELSI LCDAEVGLI FSAATGKLF EFSS. . STKEI I ERHSNHSKKI L	77
MADS-box_1.pro	DNSVQI RENQMLCSSHQEYLLKARVEALCRSQRNLLGNDLGPLSSKELEQLERQDSSIKQI RSTRTCQYWLDCIADLQR	159
AEX92976.pro	DNSVQI RENQMLCSSHQEYLLKARVEALCRSQRNLLGNDLGPLSSKELEQLERQDSSIKQI RSTRTCQYWLDCIADLQR	159
MADS-box_2.pro	KANASSKET. . . CNSNEEYLLKARFELLQLSQRNLLGEDLGLSSNELEQLSQLEMSIKQI RSKTKQNLGQLCDLKR	156
AEX92975.pro	KANASSKET. . . CNSYEEYLLKARFELLQLSQRNLLGEDLGLSSNELEQLSQLEMSIKQI RSKTKQNLGQLCDLKR	156
MADS-box_6.pro	NLVTAYEK. NCNTLNH LKEI NYNLRKEI RQRMGEEIDGNDVKDLRGLGCNIDEAKLVRHRKYHVI TTCTETYYK	153
AEX92972.pro	NLVTAYEK. NCNTLNH LKEI NYNLRKEI RQRMGEEIDGNDVKDLRGLGCNIDEAKLVRHRKYHVI TTCTETYYK	153
MADS-box_5.pro	SPEQPSLDLN. . . LCNDNYARLSKQVDETSRQLEKWRGEDLGLTI EELCNLESTLETGLSDVLRGRKSEI MEQI NGLCQ	154
AEX92969.pro	SPEQPSLDLN. . . LCNSNYARLSKQVDETSRQLRQLEKWRGEDLGLTI EELCNLESTLETGLSRVLRGRKSEI MEQI NGLCQ	154
MADS-box_1.pro	REQMLCEANRSIRKRCVQLEETSQANGCVWEANPN. AMVEYSRCPN. CPQGDEFHFPLECCPTLQ. NGVQ. . PDQN	230
AEX92976.pro	REQMLCEANRSIRKRCVQLEETSQANGCVWEANPN. AMVEYSRCPN. CPQGDEFHFPLECCPTLQ. NGVQ. . PDQN	230
MADS-box_2.pro	EEQMLQDANRAIRSKLQEI GPE. NPLGLSVQNGGGGGGGGCAETSAHCNRCPCPEGFFQPLGRDPSSG. TGF SRVSMH	234
AEX92975.pro	EEQMLQDANRAIRSKLQEI GPE. NPLGLSVQNGGGGGGGGCAETSAHCNRCPCPEGFFQPLGRDPSSG. TGF SRVSMH	234
MADS-box_6.pro	KFKNSQEAHRNLRLEENKDEHPAVYGFVDEDPN. YECALALAN. GGSQNYAFRVXPSQPNLHGNYG. . . SQD	223
AEX92972.pro	KFKNSQEAHRNLRLEENKDEHPAVYGFVDEDPN. YECALALAN. GGSQNYAFRVXPSQPNLHGNYG. . . SQD	223
MADS-box_5.pro	KGLQLVEENTRI RQCVDVNSQVGVQVVTGLENGSH. EECSSDSVTNASNSDAPCDYHSDSDTS. LKLC. . LPVN	225
AEX92969.pro	KGLQLVEENTRI RQCVDVNSQVGVQVVTGLENGSH. EECSSDSVTNASNSDAPCDYHSDSDTS. LKLC. . LPVN	225
MADS-box_1.pro	AGPSVSAFNLG. . . VL	243
AEX92976.pro	AGPSVSAFNLG. . . VL	243
MADS-box_2.pro	LNSAVTNQNVNSFRHWM	251
AEX92975.pro	LNSAVTNQNVNSFRHWM	251
MADS-box_6.pro	LRLA.	227
AEX92972.pro	LRLA.	227
MADS-box_5.pro	LTNTF.	230
AEX92969.pro	LTNTF.	230