Supplementary Table S1. Primers used in this study.

Primer name	Sequence (5′→3′)	Application
MhADH-F	ATGCTTTCATTCTCAGCCACCG	Full-length CDS amplification
MhADH-R	CTATCGACGACCGTTGATATAGAC	Full-length CDS amplification
MhCYP76AD1-F	ATGGACCAAACTACACTAGCAATGC	Full-length CDS amplification
MhCYP76AD1-R	TTATCGGTATTTTAACACAGG	Full-length CDS amplification
MhDODA1-F	ATGGCAGGTGAGAGATT	Full-length CDS amplification
MhDODA1-R	TCAGTTAGAAGTGAACT	Full-length CDS amplification
MhDODA2-F	ATGTCCGTTATCGGTTTCTCA	Full-length CDS amplification
MhDODA2-R	TTAATCAAGCGAAGTGAACTTGTA	Full-length CDS amplification
MhSDODA-F	ATGAAAGGAACATACTATATAAA	Full-length CDS amplification
MhSDODA-R	TTAATCAGTTTTTTCAGTGGTGGG	Full-length CDS amplification
MhcDOPA5GT-F	ATGACCGCCATTAAAATGAACA	Full-length CDS amplification
MhcDOPA5GT-R	TTATTGACGAGAAGGTTCCAA	Full-length CDS amplification
pEAQ-F	CGTTGTCAGATCGTGCTTCGG	pEAQ-HT vector linearization (In-Fusion)
pEAQ-R	CCGCTCACCAAACATAGAAATGCAC	pEAQ-HT vector linearization (In-Fusion)
pEAQ-MhADH-F	CAAATTCGCGACCGGTATGCTTTCATTCTCAGCCACCG	In-Fusion assembly into pEAQ-HT
pEAQ-MhADH-R	AGTTAAAGGCCTCGAGCTATCGACGACCGTTGATATAGAC	In-Fusion assembly into pEAQ-HT
pEAQ-MhCYP76AD1-F	CAAATTCGCGACCGGTATGGACCAAACTACACTAGCAATGC	In-Fusion assembly into pEAQ-HT
pEAQ-MhCYP76AD1-R	AGTTAAAGGCCTCGAGTTATCGGTATTTTAACACAGG	In-Fusion assembly into pEAQ-HT
pEAQ-MhDODA1-F	CAAATTCGCGACCGGTATGGCAGGTGAGAGATT	In-Fusion assembly into pEAQ-HT
pEAQ-MhDODA1-R	AGTTAAAGGCCTCGAGTCAGTTAGAAGTGAACT	In-Fusion assembly into pEAQ-HT
pEAQ-MhDODA2-F	CAAATTCGCGACCGGTTGTCCGTTATCGGTTTCTCAAAACC	In-Fusion assembly into pEAQ-HT
pEAQ-MhDODA2-R	AGTTAAAGGCCTCGAGTTAATCAAGCGAAGTGAACTTGTA	In-Fusion assembly into pEAQ-HT
pEAQ-MhSDODA-F	CAAATTCGCGACCGGTATGAAAGGAACATACTATATAAA	In-Fusion assembly into pEAQ-HT
pEAQ-MhSDODA-R	AGTTAAAGGCCTCGAGTTAATCAGTTTTTTCAGTGGTGG	In-Fusion assembly into pEAQ-HT
pEAQ-MhcDOPA5GT-F	CAAATTCGCGACCGGTAAATGACCGCCATT	In-Fusion assembly into pEAQ-HT
pEAQ-MhcDOPA5GT-R	AGTTAAAGGCCTCGAGCAAGCTTATTGACG	In-Fusion assembly into pEAQ-HT
MhADH-qF	CACAACACCAGCAGAGCC	qRT-PCR (*MhADH*)
MhADH-qR	GAGCGTGAATAAGCCAAA	qRT-PCR (*MhADH*)
MhCYP76AD1-qF	AAACCACATCGCTCATTC	qRT-PCR (*MhCYP76AD1*)
MhCYP76AD1-qR	TATCAACCGCTTCACCTT	qRT-PCR (*MhCYP76AD1*)
MhDODA1-qF	CTACGACTTCTATGGCTTCC	qRT-PCR (*MhDODA1*)
MhDODA1-qR	TTTCCAGTGAGGTGCTTT	qRT-PCR (*MhDODA1*)
MhDODA2-qF	ATGTCCGTTATCGGTTTC	qRT-PCR (*MhDODA2*)
MhDODA2-qR	GTTTCCCAATGTCCAGAG	qRT-PCR (*MhDODA2*)
MhSDODA-qF	CACTATAATGTTGGGAAAG	qRT-PCR (*MhSDODA*)
MhSDODA-qR	TGAAGTTGTAGGTGGAAT	qRT-PCR (*MhSDODA*)
MhcDOPA5GT-qF	GTCTTCCACCTGGCATTG	qRT-PCR (*MhcDOPA5GT*)
MhcDOPA5GT-qR	CACAGAGGAGGACGCACA	qRT-PCR (*MhcDOPA5GT*)
β-actin770-qF	CTCACCTGCTCGCTCTATCG	qRT-PCR reference gene (*M. himalaica*)
β-actin770-qR	CCAGCCTTGACCATTCCAGT	qRT-PCR reference gene (*M. himalaica*)
NtACTIN-qF	TGGTCGTACCACCGGTATTGTGTT	qRT-PCR reference gene (*N. benthamiana*)
NtACTIN-qR	TCACTTGCCCATCAGGAAGCTCAT	qRT-PCR reference gene (*N. benthamiana*)
tdTomato-F	CAACATTACAATTTACTA	Genomic PCR confirmation of *MhSDODA* overexpression lines
tdTomato-R	TGGTGATTTTTGCGGACT	Genomic PCR confirmation of *MhSDODA* overexpression lines