

Table S1. The primers used in all experiments.

Primer names	Primer sequence (5'-3')	Experiments
ORF-GmMT-II-F	AGAGAGAAAAATGGCTGATACAAGT	segregation of genes
ORF-GmMT-II-R	AAATCACATCCACAATTTGAACA	
pBT3Gm1-MMP-F	TTGGCCATTACGGCCATGACTCTCCGCAAC CACC	Yeast Two-Hybrid Rotation Validation
pBT3Gm1-MMP-R	AAGGCCGAGGCGGCCCCGGGGTTGATACC ATAGAGCTTTTCG	
pPR3N-GmMT-F	TTGGCCATTACGGCCATGGCTGATACAAGT GGAG	
pPR3N-GmMT-R	AAGGCCGAGGCGGCCCAGTGCGGCAAGAG GCACATGAGCA	
nE-Gm1-MMP-F	GCTTCGAATTCTGCAGTCGACATGACTCTCC GCAACCACC	
nE-Gm1-MMP-R	GACTCTAGATCAGGTGGATCCGGGGTTGAT ACCATAGAGC	
cE-GmMT-F	GCTTCGAATTCTGCAGTCGACATGGCTGAT ACAAGTGGAG	BiFC experiments
cE-GmMT-R	GACTCTAGATCAGGTGGATCCAGTGCGGCA AGAGGCACAT	
nEYFP-F	GAAGAACGGCATCAAGGT	
nEYFP-R	CGACAGGTTTCCCGACTG	
cEYFP-F	CACTACCAGCAGAACACCC	Interaction site research
cEYFP-R	CAGCTATGACCATGATTAC	
Gm1-MMP-S-F	TTGGCCATTACGGCCATGACTCTCCGCAAC CACC	
Gm1-MMP-S-R	AAGGCCGAGGCGGCCCCTAGAATTGCAAG AGCAACCAAGAG	
Gm1-MMP-P-F	TTGGCCATTACGGCCTATTTTCTTGCCACCT CAC	
Gm1-MMP-P-R	AAGGCCGAGGCGGCCCCGGTATAGTCCGA GATCATGCCAAA	
Gm1-MMP-C-F	TTGGCCATTACGGCCTTCTTCAAAGACATG CCGC	
Gm1-MMP-C-R	AAGGCCGAGGCGGCCCCGGGGTTGATACC ATAGAGCTTTTCG	
GmMT-N-F	TTGGCCATTACGGCCATGGCTGATACAAGT GGAG	
GmMT-N-R	AAGGCCGAGGCGGCCCCGCACCTGCAAGTG GAACCACCAGT	

GmMT-C-F	TTGGCCATTACGGCCACAAGTGTCGGCATG ACAA	
GmMT-C-R	AAGGCCGAGGCGGCCAGTGCGGCAAGAG GCACATGAGCA	
qRT-GmMT-II-F	GCAGTGAGACCGGTGGTAATA	
qRT-GmMT-II-R	AGTTCCAGAAGCCGCAGTC	RT-qPCR
Actin-F	CCTCAACCCAAAGGTCAACAG	
Actin-R	GACCAGCGAGATCCAAACGAA	
pA7-GmMT-II-F	CACCATCACCATCACGCCATGATGGCTGAT ACAAGTGGAG	
pA7-GmMT-II-R	CACTAGTACGTCGACCATGGCAGTGCGGCA AGAGGCACAT	Subcellular localization
pA7-F	AAGCAATCAAGCATTCTACTTCTAT	
pA7-R	GGTAGCGGCTGAAGCACTG	