

Additional file 10. List of primers used for RT-qPCR and cloning.

S10.A Primers used for the RT-qPCR. For each selected gene, the expression pattern obtained by microarray analysis is specified (up or down in mealy fruits compared to non-mealy). Three housekeeping genes (HK) were used to calculate the normalisation factor.

S10.B Primers used for *MdPME2* cloning.

S10.A

Application	Expression profil	MDP number	Gene annotation	Size	Sequence (5' → 3')
RT PCR	Down	MDP0000222620	AtPME2	104	F: TTGAAAGTTGTGCTGCCATC R: GACGTGCCGAAGAAAAAGAC
RT PCR	Down	MDP0000322658	UDP-glucuronosyl	100	F: TTGAATCAGCTTGTCTGAGTTGT R: GGAATCATAAGCTTCCCAGATTT
RT PCR	Down	MDP0000393227	FQR1	184	F: GCATAAGTTCCCGCACCATA R: CCGCTGGAATTTTCTACAGC
RT PCR	Down	MDP0000671440	GDH1	102	F: GCAAACGCTTGAGATCTTCG R: AGCACAGCTGATGACATGGA
RT PCR	Up	MDP0000303194	CRK10	150	F: TGTTGATCTTCCAGTACCCTCA R: CCATGCAGCAGATATTTGACA
RT PCR	HK	MDP0000271281	porin, putative	155	F: CGCCCAAAATTATTGAAGCA R: ATCCCAGCCATTGATTTTT
RT PCR	HK	MDP0000217860	drought-responsive family protein	193	F: ACGCAAGAGGAAGACAAGGA R: GGGTGGCATGCTAACAAAAT
RT PCR / sqPCR	HK	MDP0000645828	GADPH	165	F: ATCAATGAAGGACTGGAGAGG R: GTCAGGTCAACAACGGAAAC

S10.B

Application	MDP number	Gene annotation	Sequence (5' → 3')
sq PCR	MDP0000222620	AtPME2	F: TCACGATGCTGTGGAGGAC R: TGAAAGTTGTGCTGCCATCG
sq PCR	MDP0000245813		F: CCACGAGGCTGTGAGGAT R: TGAAAGTTGTGCTGCCATCG
3' RACE PCR1	MdPME2 MdPME2	PME PME	F6: CGATGGCAGCACAACCTTTCA F5: AGAATGGCCAAAATCAAAGAGT
nested PCR	MdPME2 MdPME2	PME PME	F1: CACCAGAATGGCCAAAATCAAAGAG R: CAGCGCAAGAGAAAATGGAA