

Supplementary Table S1: List of primers used for qRT-PCR analysis of PM-responsive *Resistance (R)* genes as well as Internal control genes

Gene ID	Primer name	Primer sequence	Amplicon length (bp)	Amplicon Tm
XP_002279295.1	XP_002279295.1 F XP_002279295.1 R	5'-CTGATGCAGTCAAGGAGATACCTA-3' 5'-GGATCTTATCAGCAACAAAGTCCT-3'	237	55
XP_010660247.1	XP_010660247.1 F XP_010660247.1 R	5'-CCTCATCGATTTGTAGTCAGAGAA-3' 5'-GTTGAAGGTAGTGTGTGAAATGC-3'	242	55
XP_010661280.1	XP_010661280.1 F XP_010661280.1 R	5'-AGAGATTGGTCTTTATGCTGATCC-3' 5'-CGCTATTTCTTCTCCTTCTTTTG-3'	223	55
XP_010650651.1	XP_010650651.1 F XP_010650651.1 R	5'-TGGTCCACTGTACTTCAACAGTTT-3' 5'-AACGTCTTCTGGAGTTTCATTCTC-3'	222	55
XP_010650653.1	XP_010650653.1 F XP_010650653.1 R	5'-GCAGTCAACTCACAAGGTCAAAGT-3' 5'-AATTGCTAGGGTGTCTTTCCAG-3'	214	55
NP_001267967.1	NP_001267967.1 F NP_001267967.1 R	5'-GGAGAAACAAAGATGGATGCTAGT-3' 5'-AGAAGTATAGAGTTGCCAGGATGG-3'	223	53
XP_002281475.1	XP_002281475.1 F XP_002281475.1 R	5'-TCCCTAGATGCTCAGAAGTACTCA-3' 5'-CTAGAGATGTGGATGATGATGAGG-3'	210	53
NP_001267966.1	NP_001267966.1 F NP_001267966.1 R	5'-TCTGGCTTTACCTTTCTGTTCTCT-3' 5'-CCCTTGTAAGAGGCATAAACTTGT-3'	230	53
XP_002284403.4	XP_002284403.4 F XP_002284403.4 R	5'-GATGGCTTCAACCTACCATTAGTT-3' 5'-CTTGAACCTTCTTGGAGTAGGAGGT-3'	240	53
XP_002273790.2	XP_002273790.2 F XP_002273790.2 R	5'-AGCTGAACTTTGCTGAAGGTAGCC-3' 5'-GGGTTTGGAATGATACACGCTCAC-3'	209	53
XP_002274275.1	XP_002274275.1 F XP_002274275.1 R	5'-CTACCTACGCCCAGAACTATGCTA-3' 5'-CACTGAGTTGCTCCAAACAACCTG-3'	224	53
XP_002276867.1	XP_002276867.1 F XP_002276867.1 R	5'-GAGACCATATACCGGGTTTCCAAG-3' 5'-CATGTATCGCCGTTACCCAGTAT-3'	235	53
NP_001268153.1	NP_001268153.1 F NP_001268153.1 R	5'-TGAGACTCTACGACCCTAACCAAG-3' 5'-CCCGTAGGGCTTACTTCATTTCC-3'	205	53
XP_002281328.1	XP_002281328.1 F XP_002281328.1 R	5'-ACTGGTAATATGGATCCTGCTGAT-3' 5'-CACCTTTGTTCTCAATGTCTCAAC-3'	246	53
Vv Actin	ACT F ACT R	5'-GGTGATGATGCTCCCAGGGC-3' 5'-ACTGGGTGTTCTTCAGGGGC-3'	242	57
Vv EF1	EF1 F EF1 R	5'-TGGTGTCTGAAGCCCGGTA-3' 5'-TGGGAGGTGAAGTTGGCTGC-3'	222	57

Supplementary Table S2: List of primers used for qRT-PCR analysis of DM-responsive *Resistance (R)* genes as well as Internal control genes

Gene ID	Primer name	Primer sequence	Amplicon length (bp)	Amplicon Tm
XP_003633380.1	XP_003633380.1 F XP_003633380.1 R	5'-GATACATCAAACAGGAGCAGAATG-3' 5'-CTGTCAATTTTACGATCAGGAGTG-3'	229	55
XP_010650653.1	XP_010650653.1 F XP_010650653.1 R	5'-GATGGCCTAGACAGGTTACTCAAT-3' 5'-ACCTCCCAAGCAAGTAAATGTAAG-3'	229	55
XP_003634660.1	XP_003634660.1 F XP_003634660.1 R	5'-GTTCAGCAGTATCATCGTTTTCTG-3' 5'-CTCACTTTACAGCCAGTTTCTTCA-3'	214	55
XP_010645044.1	XP_010645044.1 F XP_010645044.1 R	5'-TGGTCCACTGTACTTCAACAGTTT-3' 5'-AACGTCTTCTGGAGTTTCATTCTC-3'	222	55
XP_002265341.1	XP_002265341.1 F XP_002265341.1 R	5'-TTACCAGGAGCCGAAGAACAACAAC-3' 5'-TAAGCACCCAAAATGTTTCCATCC-3'	240	53
XP_010654527.1	XP_010654527.1 F XP_010654527.1 R	5'-ACCTCTCTCCGAATCTCCCAATTC-3' 5'-CTGTGAGGGTTTCTGAAGTGGAT-3'	248	57
XP_002280786.1	XP_002280786.1 F XP_002280786.1 R	5'-GAGAAGAAGCGAGTTATTTTCACC-3' 5'-GGGATCACATCGTATCTCATAACA-3'	221	57
XP_019081952.1	XP_019081952.1 F XP_019081952.1 R	5'-TGTTTCTGGGCTGAGGTAGAGGAC-3' 5'-ATGCGAGATGATTTGGGTTCTGAT-3'	218	54
XP_002284403.4	XP_002284403.4 F XP_002284403.4 R	5'-GTCATGCATCAGAAAGGACTTCA-3' 5'-CAGCCATTGTTGGTGAAGAGATTG-3'	202	56
XP_002273790.2	XP_002273790.2 F XP_002273790.2 R	5'-ATCGAAACAGTGGAAGGAAATGGA-3' 5'-CAGGACTGGCCTCAAATGAAATCT-3'	205	53
XP_002276768.1	XP_002276768.1 F XP_002276768.1 R	5'-AATGGGCAGTACGAGAGAACATC-3' 5'-TTGCAAGTGATGAAGACACCCCTA-3'	230	54
XP_010662362.1	XP_010662362.1 F XP_010662362.1 R	5'-CTACTTCAGTTACTGCGGACAC-3' 5'-TTGTAGTAAGTTCTGGCATTGTCC-3'	246	55
XP_010663931.1	XP_010663931.1 F XP_010663931.1 R	5'-CTCAAGTAGTGCTACTCCAACGAA-3' 5'-TGAGTCATCCCTATCCCTTTCTAC-3'	238	55
Vv Actin	ACT F ACT R	5'-GGTGATGATGCTCCCAGGGC-3' 5'-ACTGGGTGTTCTTCAGGGGC-3'	242	57
Vv EF1	EF1 F EF1 R	5'-TGGTGTCTGAAGCCCGTA-3' 5'-TGGGAGGTGAAGTTGGCTGC-3'	222	57

Supplementary Fig. 1. Functional characterization of (a) PM-responsive and (b) DM-responsive *Resistance (R)* genes by assigning Gene Ontology (GO) terms using BLAST2GO tool

