

Supplementary Material

Proanthocyanidin synthesis in Chinese bayberry (*Myrica rubra* Sieb. et Zucc.) fruits

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MrLAR : MTVTP-----ISAGKGRVLIIVGATGFIGQFIAEASIAAGRT : 37
VvLAR : MTVSP-----VSPKGRVLIAGATGFIGQFVAEASIDAHRT : 37
CsLAR : MTVLES-----VSAAGGGVLIIVGASGFIGQFIAEASIHADRT : 38
TcLAR : MRIKGSRRPMDQSLTRGSRLKLLKPERPPSMTASTANGRVLIIVGATGFIGQFVAEASIDAGRT : 65
MtLAR : MAPSSSP-----TTPISKGRVLIIVGATGFMGKFVTEASISTAHT : 40

MrLAR : YVLVREGPGGFSKAKNVKALQDKGAILHGLIKDKQFVEKILKREIDIVISAVGGENILDQINL : 102
VvLAR : YVILAREGPRSPSKANIFKALIEDKGAIIVYGLINEQAMEKILKEHIDIVVSTVGGESILDQIAL : 102
CsLAR : YLLVRSVG---SKTN---KTLQDKGAKVIHGVVKDQAFMEKILKEHKIDIVISAIGGANILDQIAL : 98
TcLAR : YVLVRESS---KNKVKALQDRGATVLEGLAHEKESMEKLLKEHCIEIVISAVGGEEKILDQLSL : 126
MtLAR : YLLIIRGGLISSKAATIKTFCEKGAIIVYGVVNNKEFVEMILKKYEIDTVISAGAESILDQIAL : 105

MrLAR : IDAIKTVGTVKRFLPSEFGHDVDRADPVEPGLNMYRTKRRVRRLVESGIPFTYICCNSTIASWPY : 167
VvLAR : VKAMKAVGTIKRFLPSEFGHDVNRADPVEPGLNMYREKRRVRQLVEESGIPFTYICCNSTIASWPY : 167
CsLAR : VHAIKAVGTIKRFLPSEFGHDVDRADPVEPGLTMYNEKRRVRRLEECGVPTYICCNSTIASWPY : 163
TcLAR : IEAIIKAGTVKRFLPSEFGHDVDRADPVEPGLTMYKEKREVRVIEKLAIPTYICCNSTIASWPY : 191
MtLAR : VEAMKSIKTIKRFLPSEFGHDVDRADPVEPGLAMYKRLVRRVIESGVPTYICCNSTIASWPY : 170

MrLAR : YDNTHPSEVVPPLDYEFCIYGDGSKAYFVAGTDIGKFTIKTLDDIRTINKSVHFRFTCNLYNMNE : 232
VvLAR : YNNIHPSEVLPPTDYEFCIYGDGSKAYFVAGTDIGKFTIKTVDDIRTINKSVHFRFTSCNCLNINE : 232
CsLAR : YDNTHPSEVVPPLDYEFCIYGDGSKAYFVAGSDIGKFTIKTVDDIRTINKSVHFRFTSCNCLNINE : 228
TcLAR : YDNRHPSEVVPPLDYEFCIYGDGSKAYFVAGTDIGKFTIKTVDDIRTINKSVHFRFTSCNCLNINE : 256
MtLAR : YDNCPSQLEPPLDQLHYGHGSKAYFVAGTDIGKFTIKTVDDIRTINKSVHFRFTSCNCLNINE : 235

MrLAR : LASLWEKKICKTLPRVTVEEDLLAAAPNCIPQSVASETHDIFIKGCQNFETIDGPDVEVST : 297
VvLAR : LASVWEKKIGRTLPRVTVEEDLLAAAGENIIPQSVAAETHDIFIKGCQNFESIDGPDVEVTT : 297
CsLAR : LASLWEKKIGRTLPRVTVEEDLLAAAPVNIIPQSVASETHDIFIKGCQNFESIDGPDVEVCS : 293
TcLAR : LATLWEKKIGRTLPRVTVEEDLLSAPENCIPQSVASETHDIFIKGCQNFESIDGQNEIEVSS : 321
MtLAR : LASLWENKIAKIPRAIVSEEDLLGIAAPENCIPQSVASETHDIFIKGCQNFETIDGPDVEIST : 300

MrLAR : LYPDEAFRTLDECFDDYIVKIDGPKMTGDVASPSVAEPMKTGEVAAPSPVAEPMETATCA : 360
VvLAR : LYPEDSFRTVEECFGEYIVKIEEK-----QPTADSAIANTGPVVGMQRQVTATCA : 346
CsLAR : LYPEDSFRTVDECFDDFVVMNGK-----NFTDETGTGNTAQNHVVEVLEIT-MCA : 342
TcLAR : LYPNEFRLLDDCFNDFLVKMKDE-----NIKQSNEIPATKEVVEALAITATCA : 370
MtLAR : LYPGESFRSLEDCEFEVAMAADR-----IHKGENGVGTGGTKALVEPVEITATCA : 349
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Figure S2 Alignment of deduced amino acid sequences of LAR genes. Sequences are from *Morella rubra* (Mr; AIX02997.1), *Vitis vinifera* (Vv; NP_001267887.1), *Camellia sinensis* (Cs; AHJ11241.1), *Theobroma cacao* (Tc; XP_007046315) and *Medicago truncatula* (Mt; XP_003591830). Identical amino acids are indicated by a black background, conservative amino acids by a dark gray background, and similar amino acids by a light gray background. LAR characteristic amino acid motifs RFLP, ICCN, and THD motifs are boxed.