

Additional file 6. Evolutionary relationships of 60 apple PME.

The tree is based on the alignment of protein sequences using MUSCLE and it is constructed using the neighbor-joining method and a bootstrap test with 1000 iterations using MEGA5 software. Black lines grouped PME genes of type I, including *MdPME2*, and gray are of type II according to *Arabidopsis thaliana* PME groups (Pelloux *et al.*, 2007).

