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Czech J. Genet. Plant Breed.

**Krška B., Polák J.,
Komínek P., Miller
R.W., Dowler W.M.,
Reighard G.L., Abbott
A.G.:**

Molecular genetic mapping in apricot

Czech J. Genet. Plant Breed., 38 (2002):
65-68

A genetic linkage map for apricot (*Prunus armeniaca* L.) has been constructed using amplified fragment length polymorphism (AFLP) markers in 80 BC1 individuals derived from a cross LE-3246 × Vestar. From 26 different primer combinations, a total of 248 AFLP markers were scored, of which, 40 were assigned to 8 linkage groups covering 315.8 cM of the apricot nuclear genome. The average interval between these markers was 7.7 cM. One gene (*PPVres1*) involved in resistance to PPV (*Plum pox virus*) was mapped. Two AFLP

markers (EAA/MCAG8 and EAG/MCAT14) were found to be closely associated with the *PPVres1* locus (4.6 cM resp. 4.7 cM). These markers are being characterized and they will be studied for utilization in apricot breeding with marker-assisted selection (MAS).

Keywords:

Prunus armeniaca L.; *Plum pox virus*; resistance; AFLP; genetic mapping

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