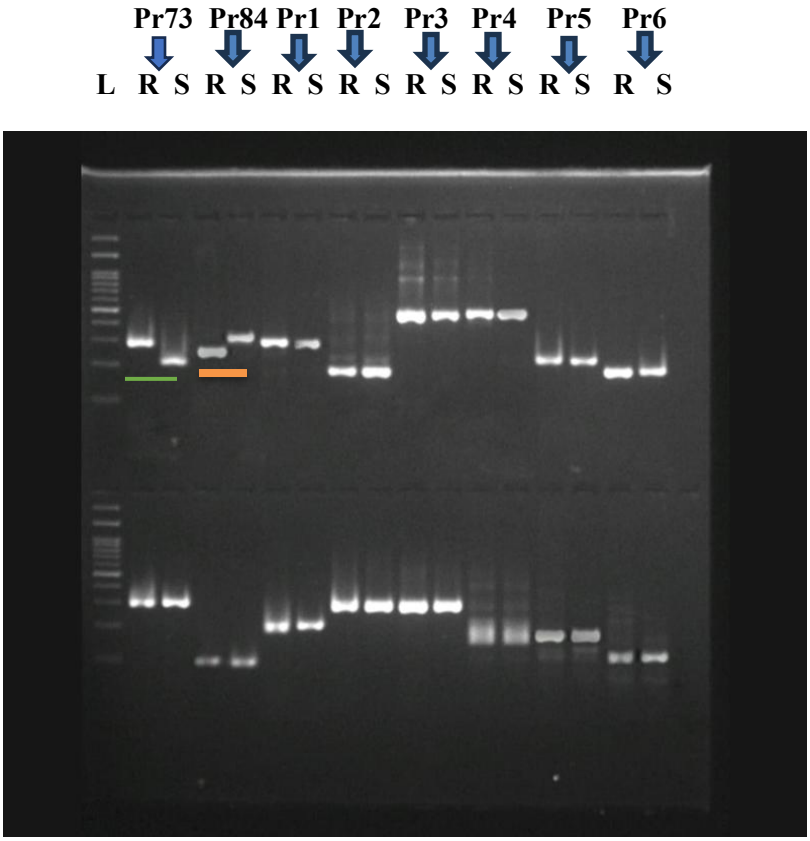
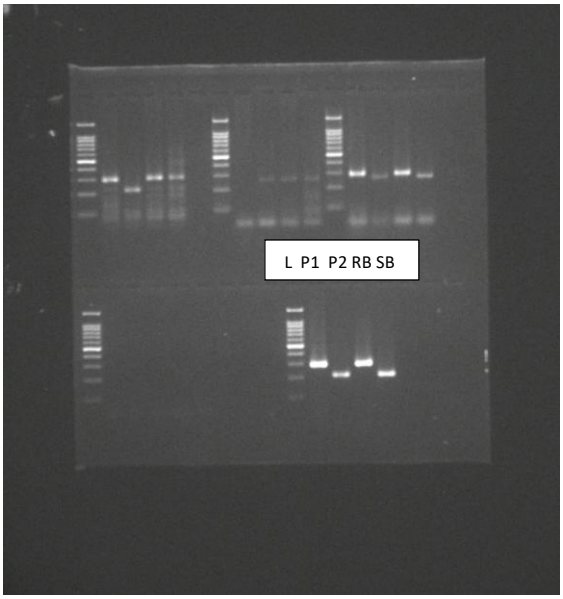
Additional Information:



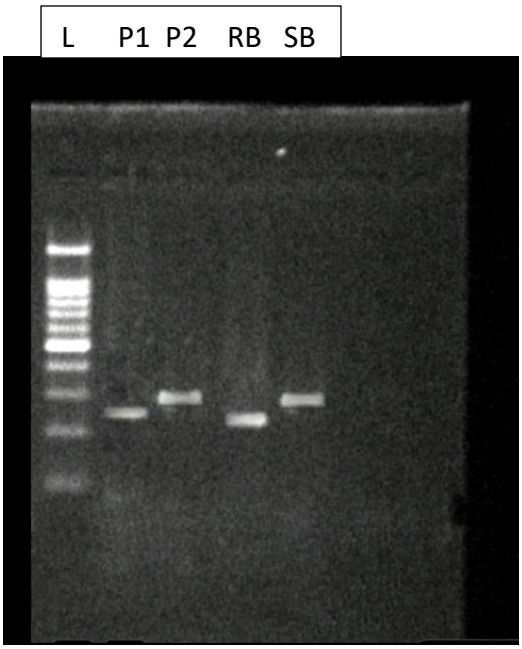
(Upper part of this gel)

Fig.2: Amplification pattern of genomic SSR primers in parental population i.e. Utkal Anushree (Resistant, R) and BCB 40 (Susceptible, S). Highlighted boxes indicate polymorphisms between the two parents. L: ladder, Pr represents the primers used according to serial number given in the Table 3 (73, 84, 1-6).



(Last portion of the Gel)

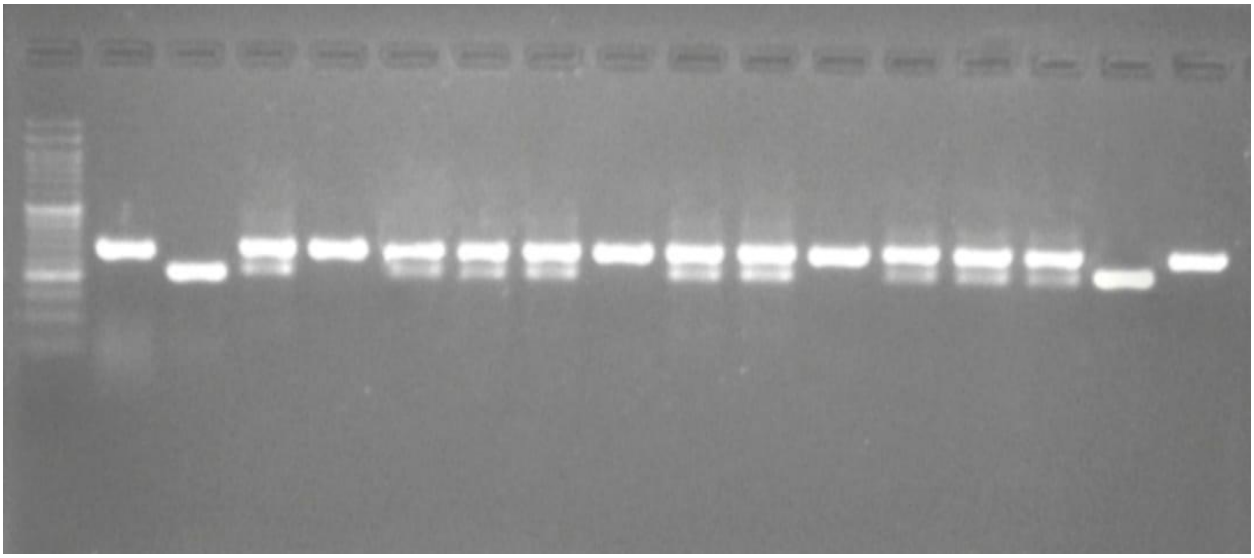
SSR marker: em135a



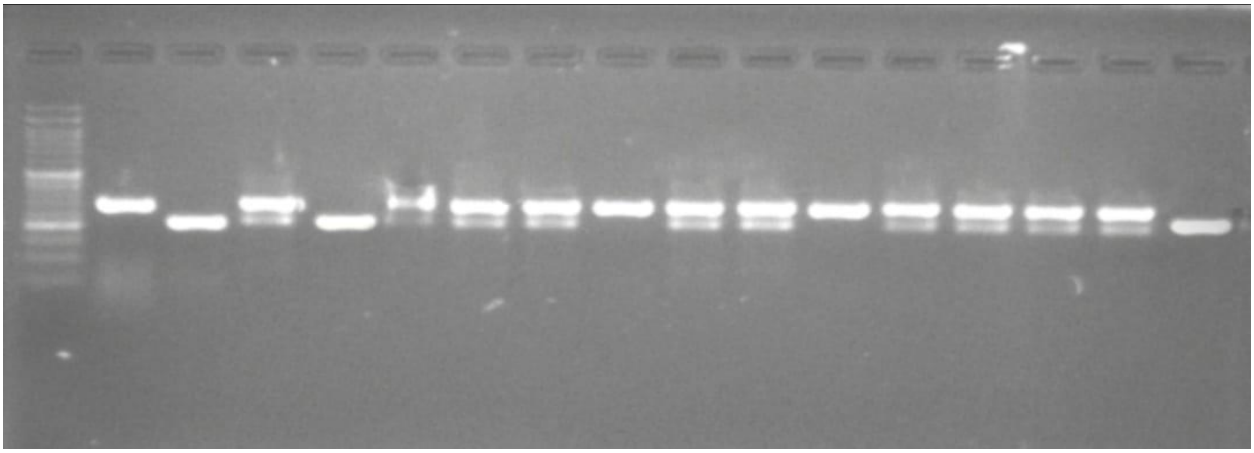
SSR marker: emb01D10

Fig. 3. Bulk segregant analysis of bacterial wilt resistance using polymorphic SSR markers emb01D10 and em135a. The polymorphic markers differentiated the resistant parent (P1, Utkal Anushree), susceptible parent (P2, BCB 40), resistant bulk (RB) and susceptible bulk (SB) of the F_2 population. L, 100 bp DNA ladder.

L P1 P2 F1 F2



L P1 P2 F1 F2



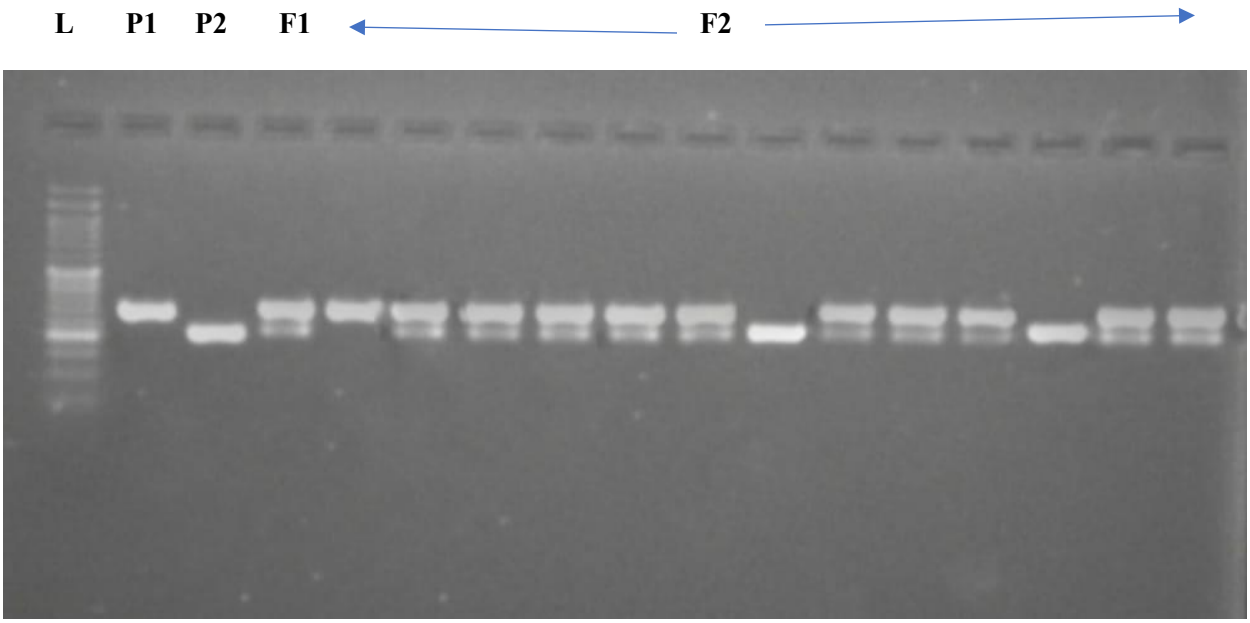


Fig. 4. Validation of the emb01D10 SSR marker in the parental lines, F_1 hybrid, and F_2 population derived from the cross Utkal Anushree × BCB 40. P1, Utkal Anushree (resistant); P2, BCB 40 (susceptible); F_1, hybrid; F_2, segregating population; L, 100 bp DNA ladder.

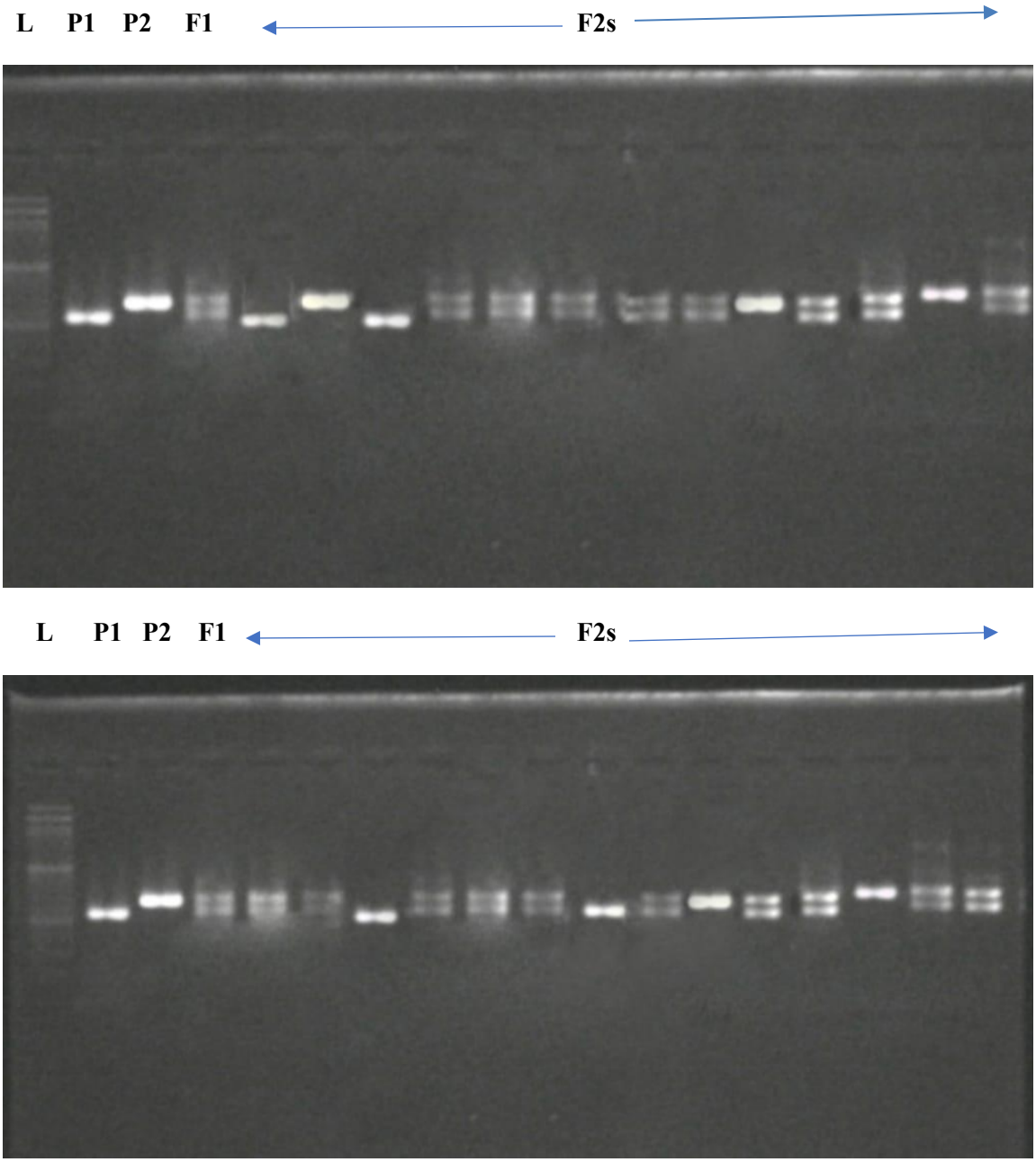


Fig. 5: Validation of the em135a SSR marker in the parental lines, F_1 hybrid and F_2 population derived from the cross Utkal Anushree × BCB 40. P1, Utkal Anushree (resistant); P2, BCB 40 (susceptible); F_1, hybrid; F_2, segregating population; L, 100 bp DNA ladder.