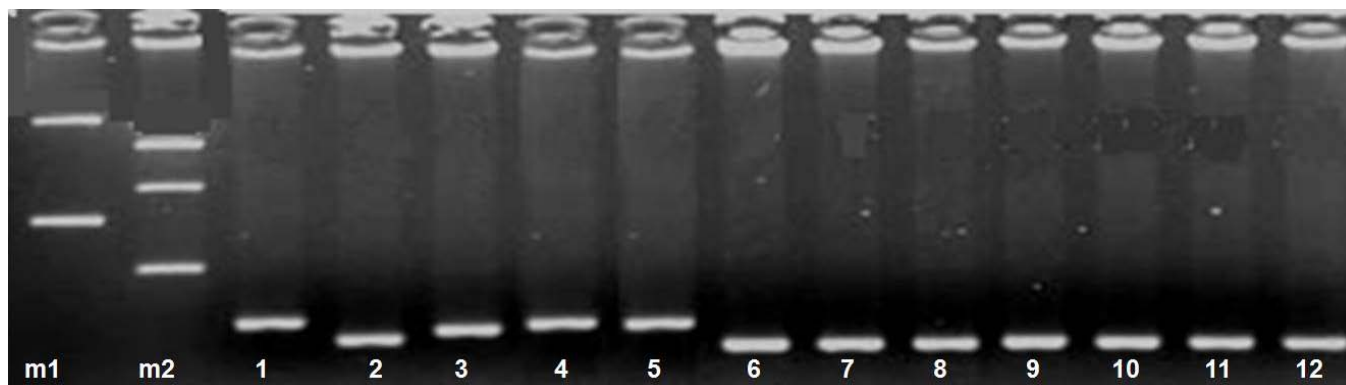
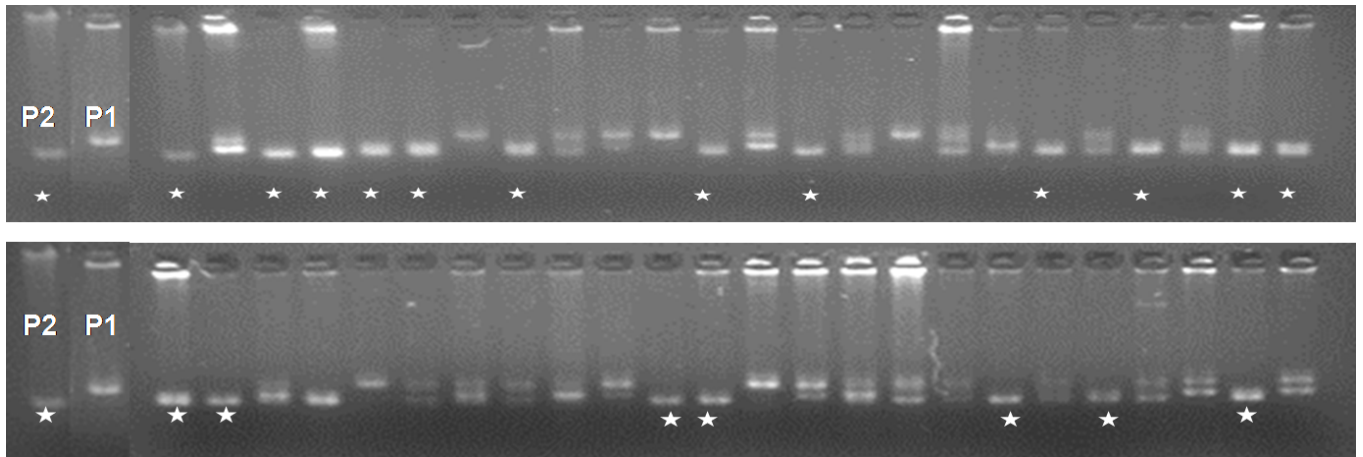


**Figure 1:** A schematic representation of simultaneous conversion of normal inbreds to Quality Protein Maize (QPM)



**Figure 2:** Parental Polymorphism Assay between Normal and QPM Inbreds. Parental polymorphism analysis using *Opaque 2* specific SSR marker *umc 1066* between normal and QPM inbred lines. Lane 1: m1 : 1kb marker, Lane 2: m2:100bp marker and Lane 3 to 14 as follow: 1- V 335, 2- CM 141, 3- CM 212, 4- V 361, 5- V 338, 6- V 351, 7- V 341, 8- V 336 (all normal inbreds) 9- CML 141, 10- DMR QPM 58, 11- CML 176 & 12- CML 161 (all QPM)



**Figure 3:** Identification of homozygous recessive individuals in BC<sub>2</sub> F<sub>2</sub> generation employing *umc 1066*. The first two lanes correspond to Donor Parent-QPM (P2) and Recurrent Parent-non QPM (P1) while rests of them are individuals of BC<sub>2</sub> F<sub>2</sub> population. The individuals indicated by \* are homozygous for recessive *opaque-2* mutant allele