

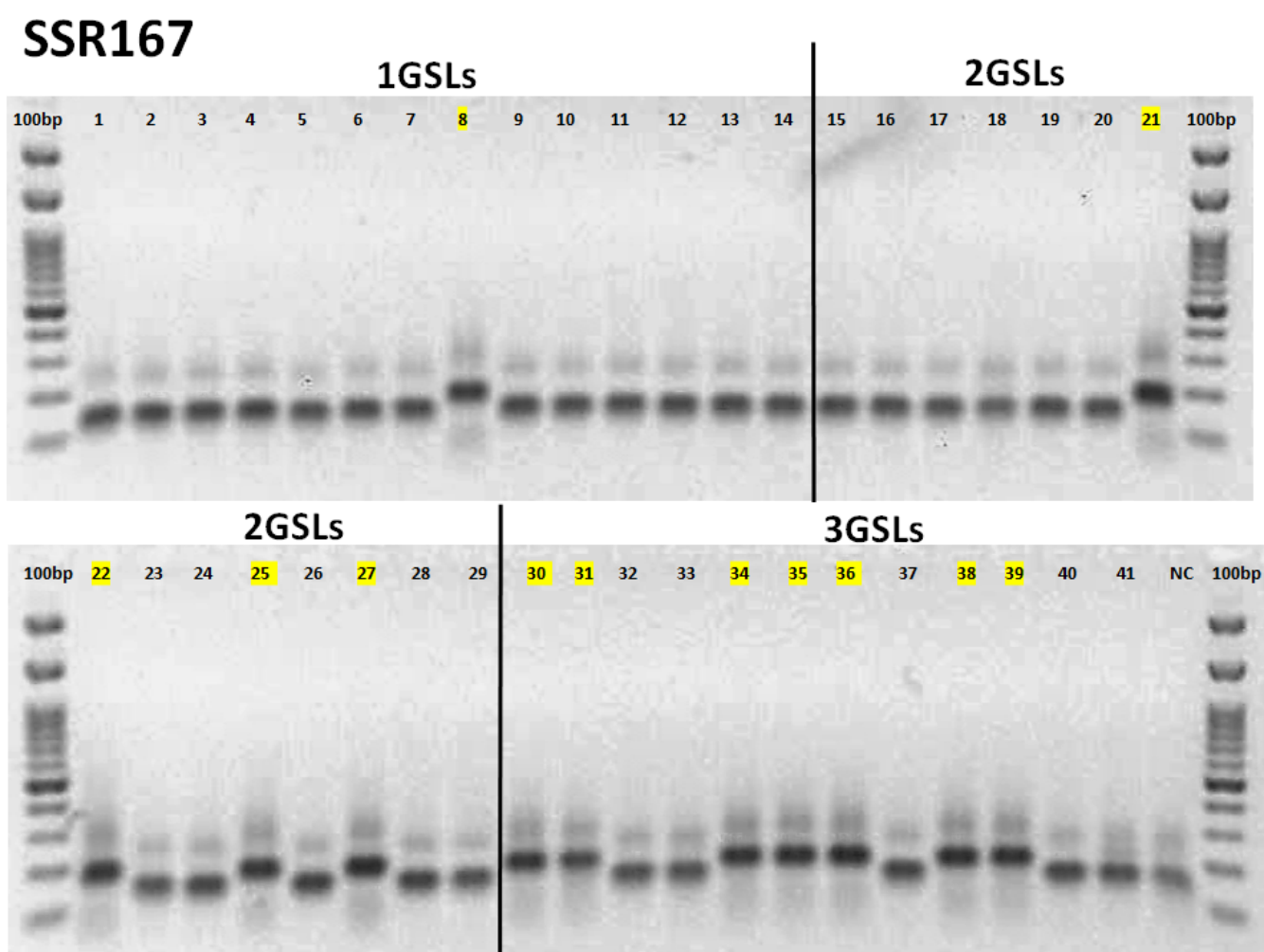


Figure S1. Banding patterns of the 40 lentil lines after electrophoresis of the PCR products for SSR167. All lines derived from family 8 are highlighted in yellow color and show a distinct band pattern from the rest of the families. Vertical lines distinguish breeding generations.

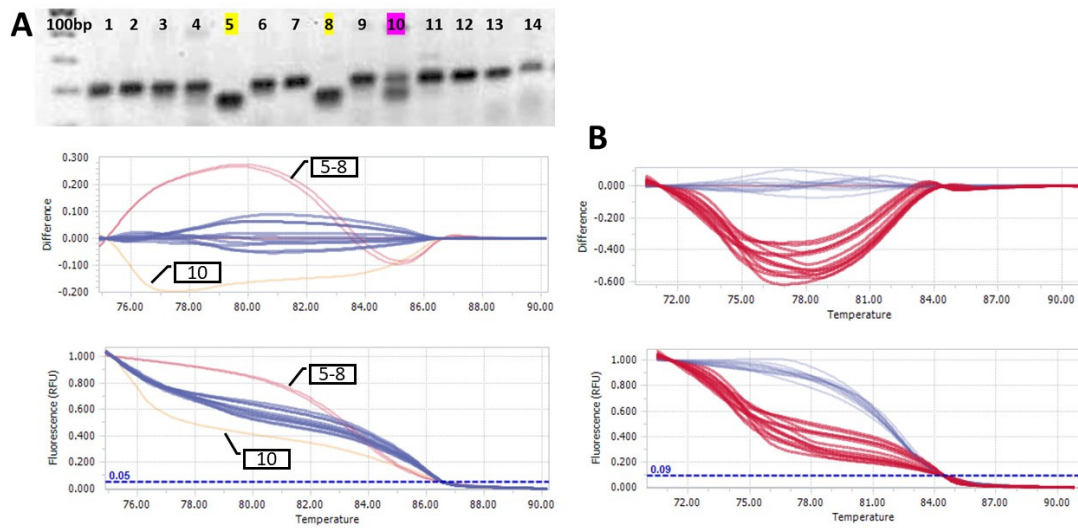


Figure S2. A. Top: Banding patterns of the 14 1GSLs after electrophoresis of the PCR products for SSR107. Samples with the one allele (1-4, 6-7, 11-14) display a slow band while samples 5 and 8 with the other allele display a fast band. One sample (10) is heterozygous for SSR107 and displays both bands. Middle: difference plot and bottom: normalized melting curves of the HRM profiles of the PCR products for SSR107. Separation of curves for lines 5-8 and 10 from the rest (blue curves) is indicated. B. Difference plot (up) and normalized melting curves (down) of the HRM profiles of the PCR products for SSR107 in samples of 2GSLs and 3GSLs. The profiles of samples derived from the family 8 are in blue while the rest are in red.