

Sowmiya M, Manonmani S, Selvi NR, Saraswathi R, Suresh R, Gopalakrishnan C, Raveendran M, Dhamotharan P. Identification of false smut - resistant donors in Rice (*Oryza sativa* L.) and analysis of their morpho-molecular diversity for resistance breeding. Plant Science Today (Early Access). <https://doi.org/10.14719/pst.4242>

Field photo of the screening process done at the hotspot region (Gudalur)



Resistant check (RG170 – RPHP42, RG172- IG25); Disease incidence in the Susceptible check (CO43, CO(R)50)



Disease symptoms in different accessions

Highly resistant lines



IG71



Periya chandiyar



Thillainayagam



Thulasi vasanai samba



koolavalai



RPHP163

Resistant lines



Vadakathi
sambha



Arupatham
vellai



Burma block



Karungan



Vadivel



Norungan

Moderately Resistant lines



Godavari samba



Karthigai sambha



Pamani sambha

Moderately susceptible lines



Rajamudi



Uppumulagai



Varigarudan samba
selection

False smut incidence in the resistant and susceptible check



Hundred grains of different accessions were given category wise

Highly resistant



channagi



Thulasivasanai
sambha



Periya
chandiyar



Earapalli
sambha



Thillainayagam

Resistant



Arupatham
sambha



Ghandhasala



Chinnadukkune I



karungam



Vadakathi
sambha



Periya
chandiyar



Arasambha



Mangam
sambha



Vadivel



Purple puttu



RPHP104



IG49

Moderately resistant



Kama sambha



Pamani sambha



RPHP125



Kalarkar



Karthigai sambha

Moderately susceptible



Chithan sambha



Rajamudi



IG75



Red sirumani



Uppumulagai



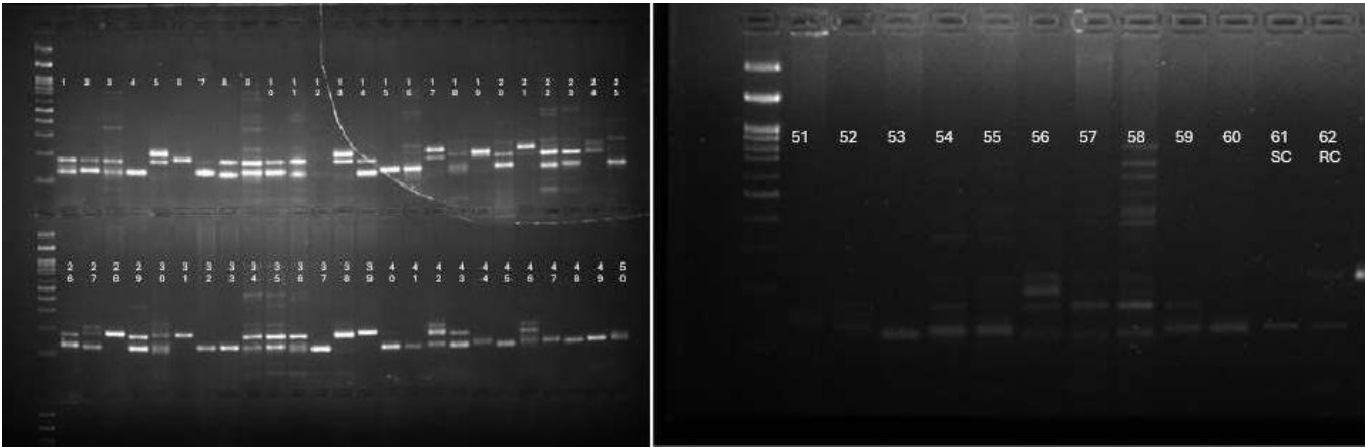
Nootripatum



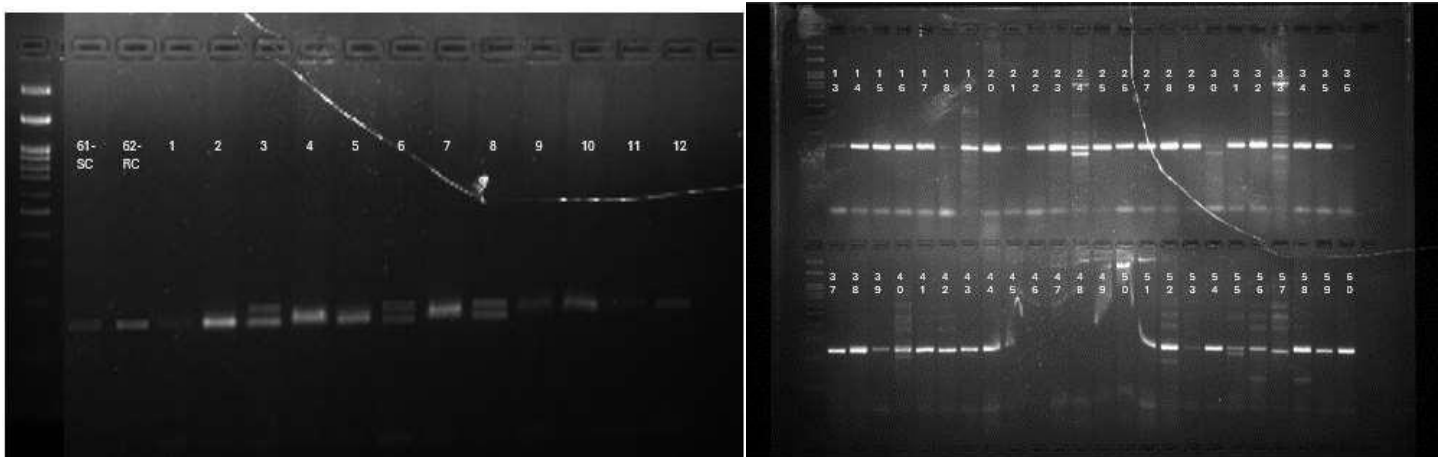
Murungankar

The gel pictures of the 41 markers (Refer Table 1 for the genotype names)

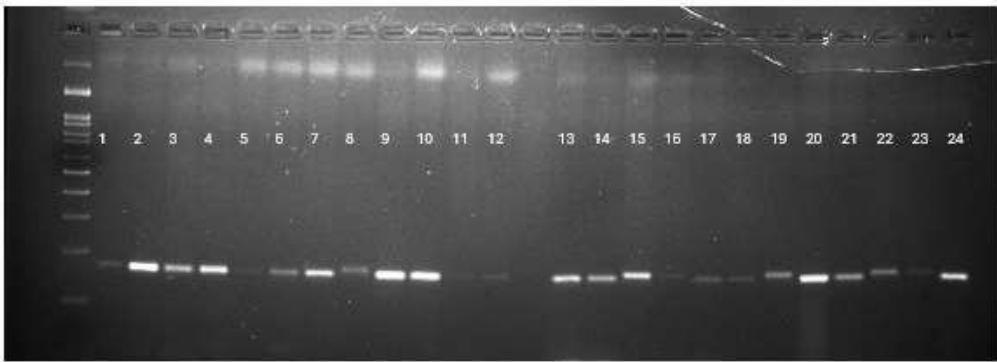
1) RM 9

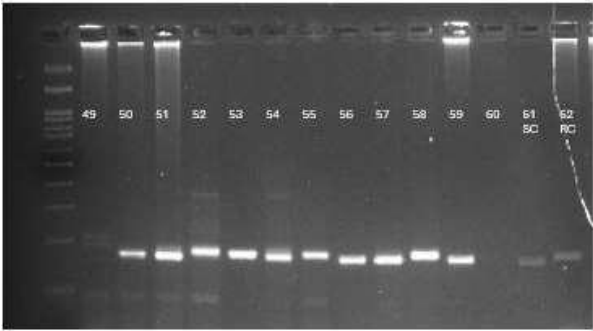
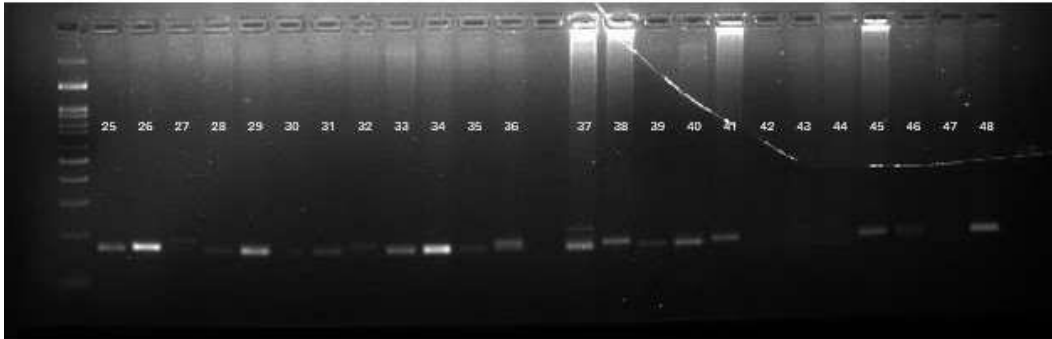


2) RM 104

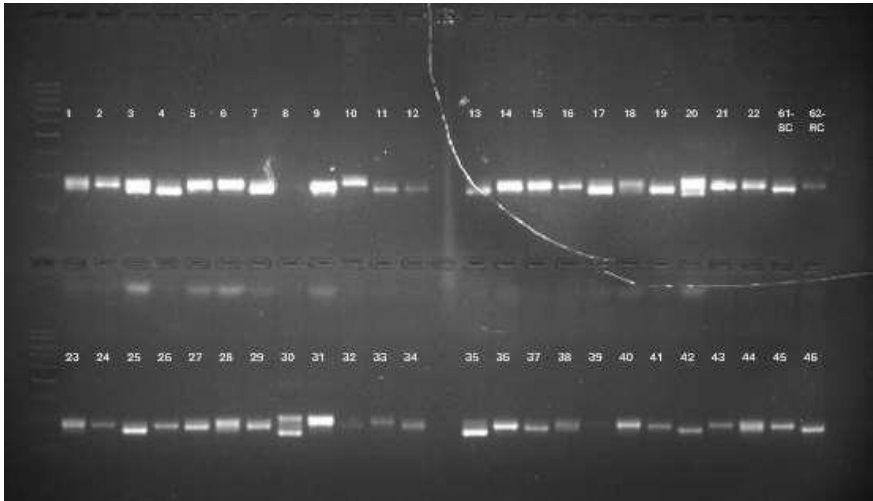


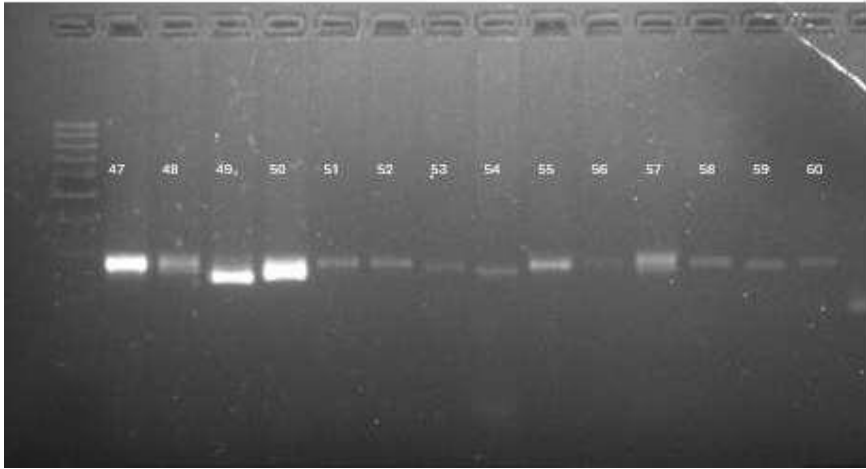
3) RM581



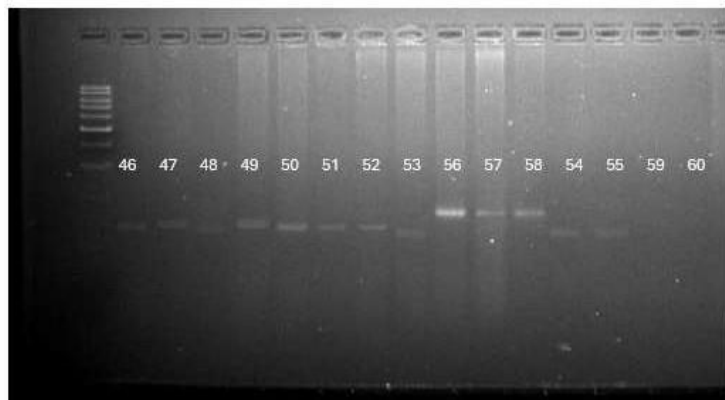
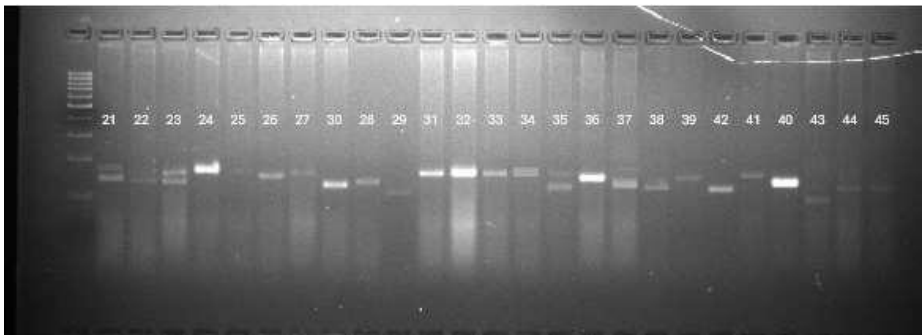
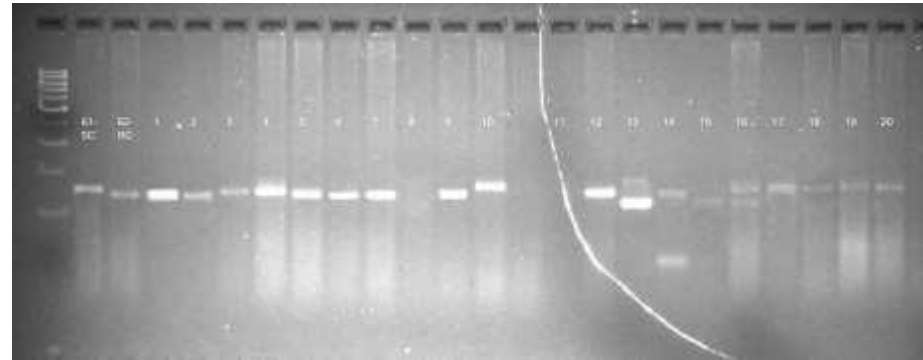


4) RM13679

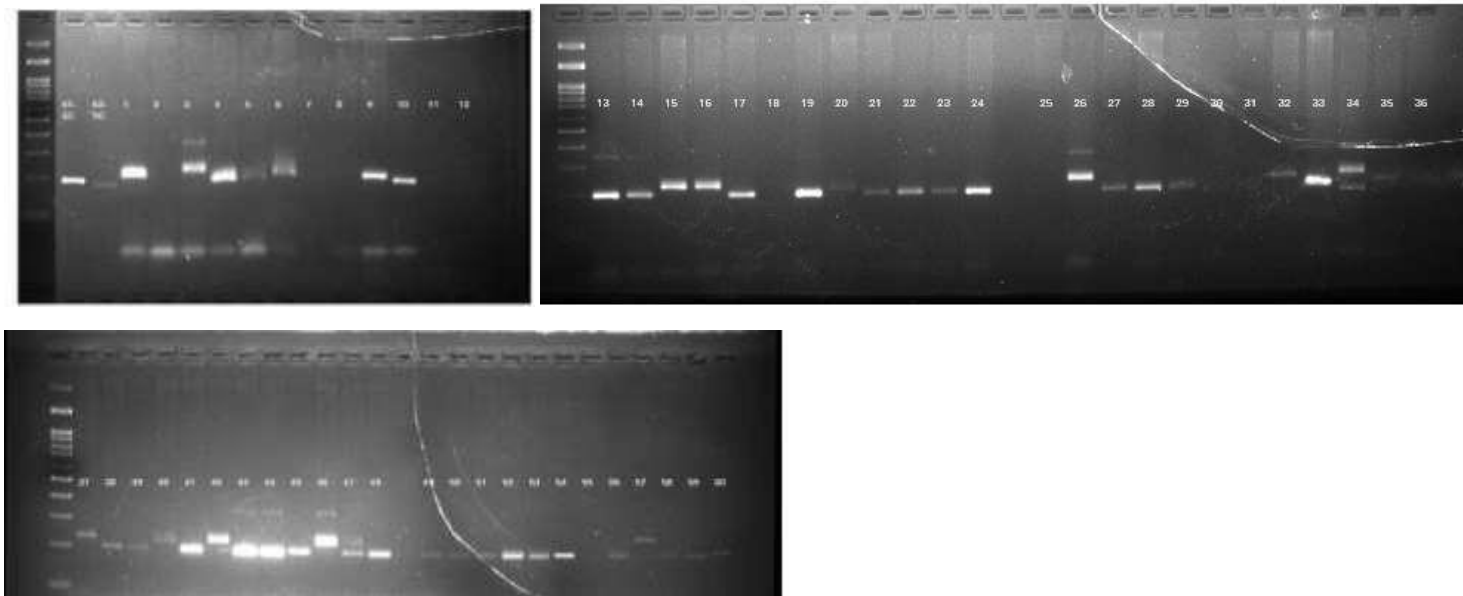




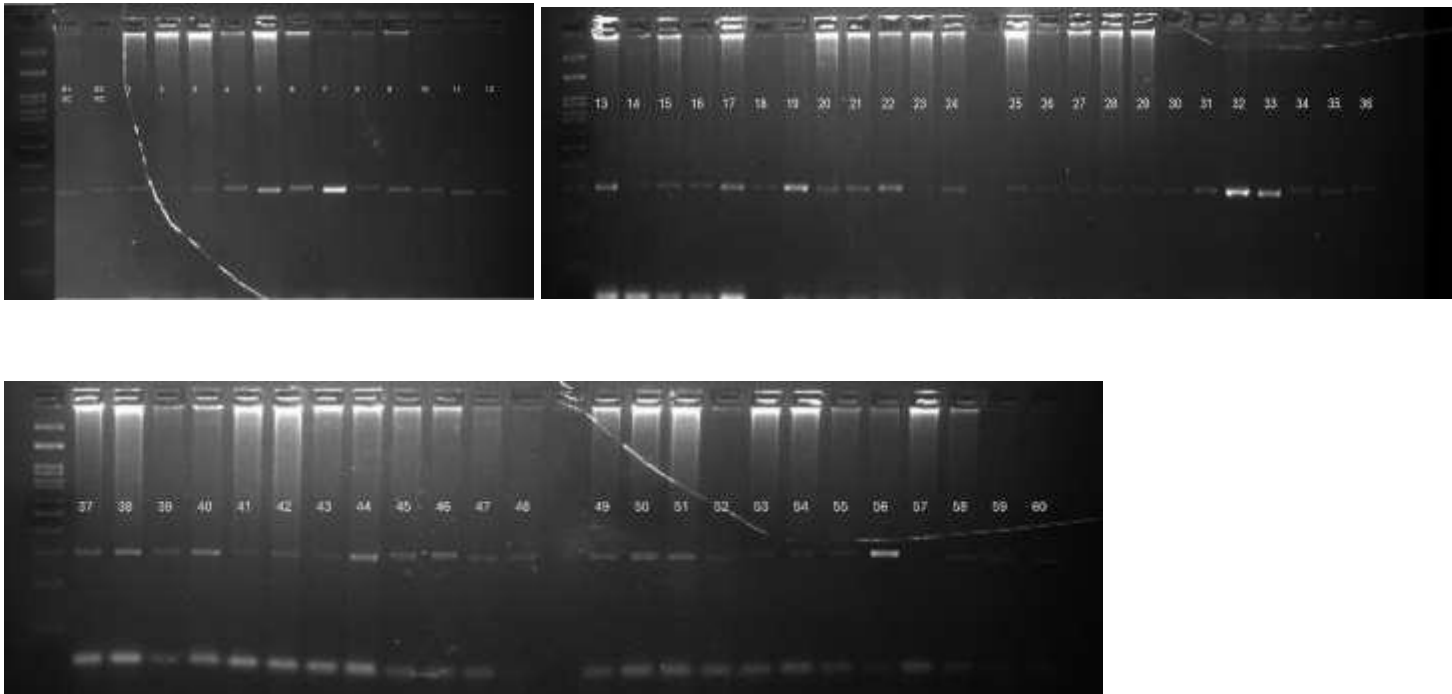
5) RM218



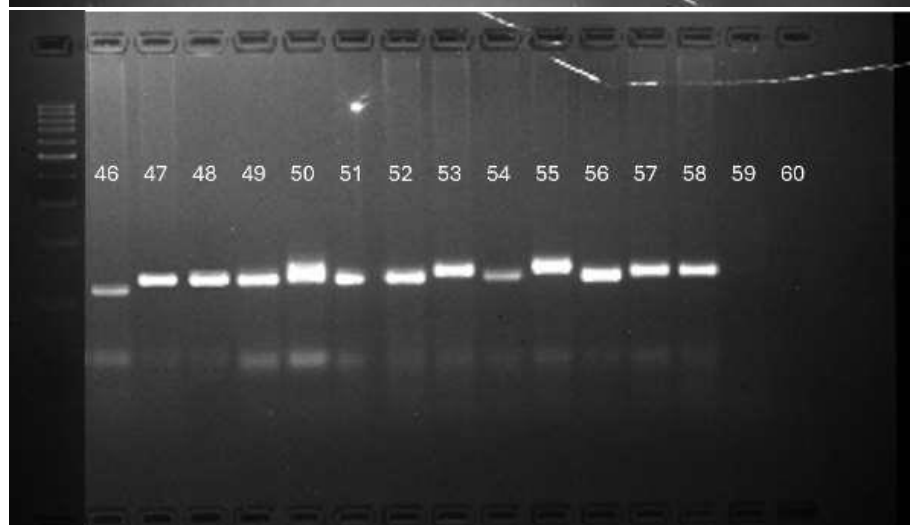
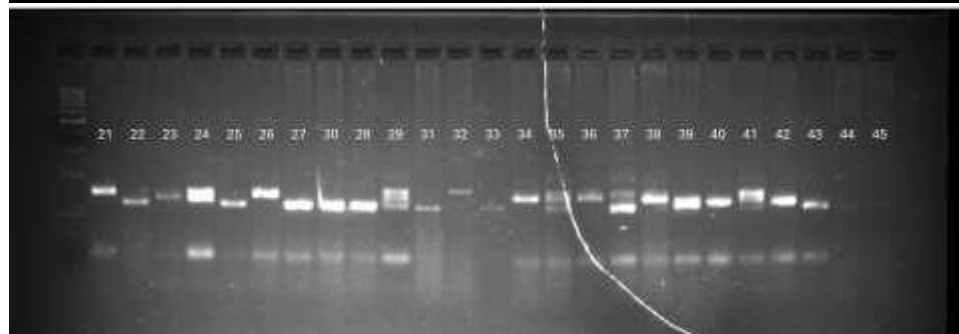
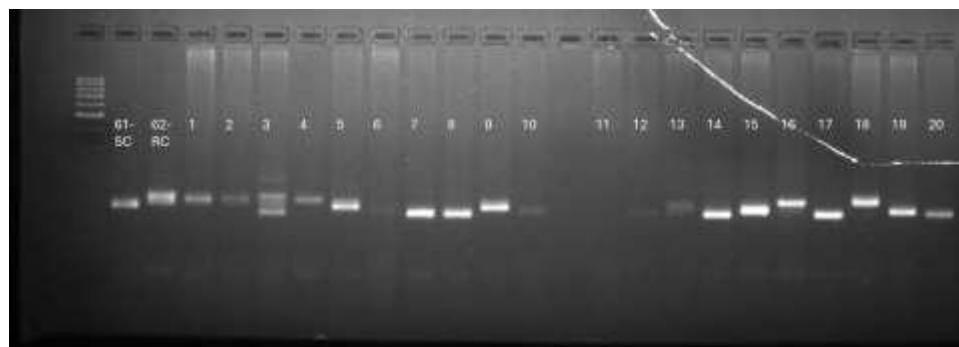
6) RM 5638



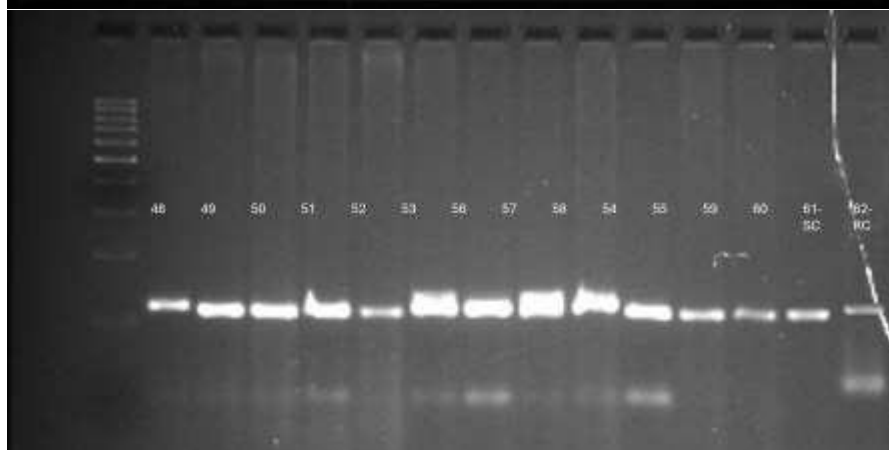
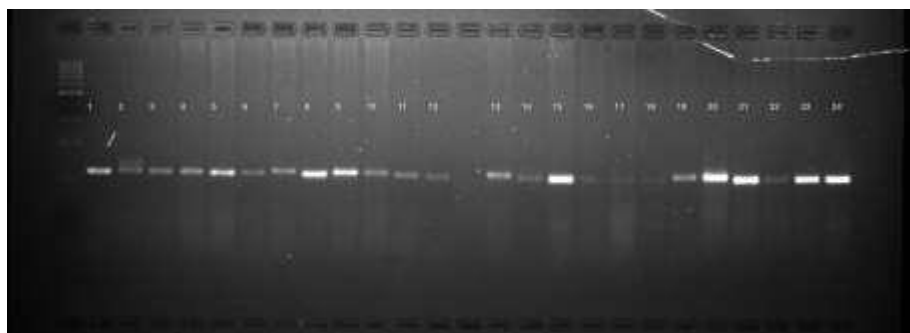
7) RM 7056



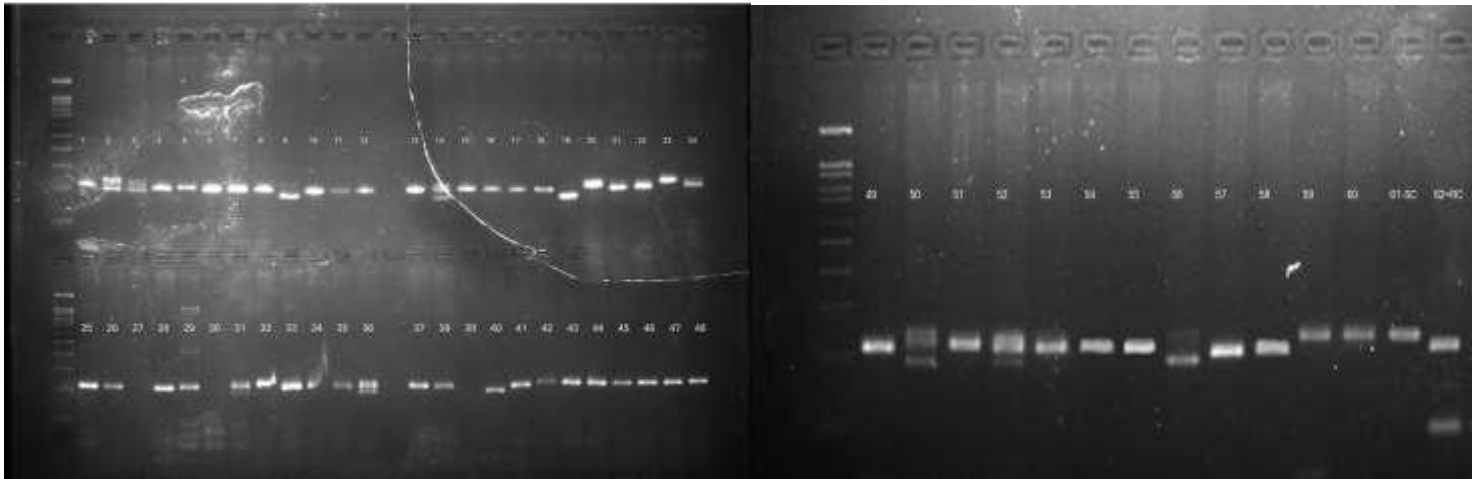
8) RM336



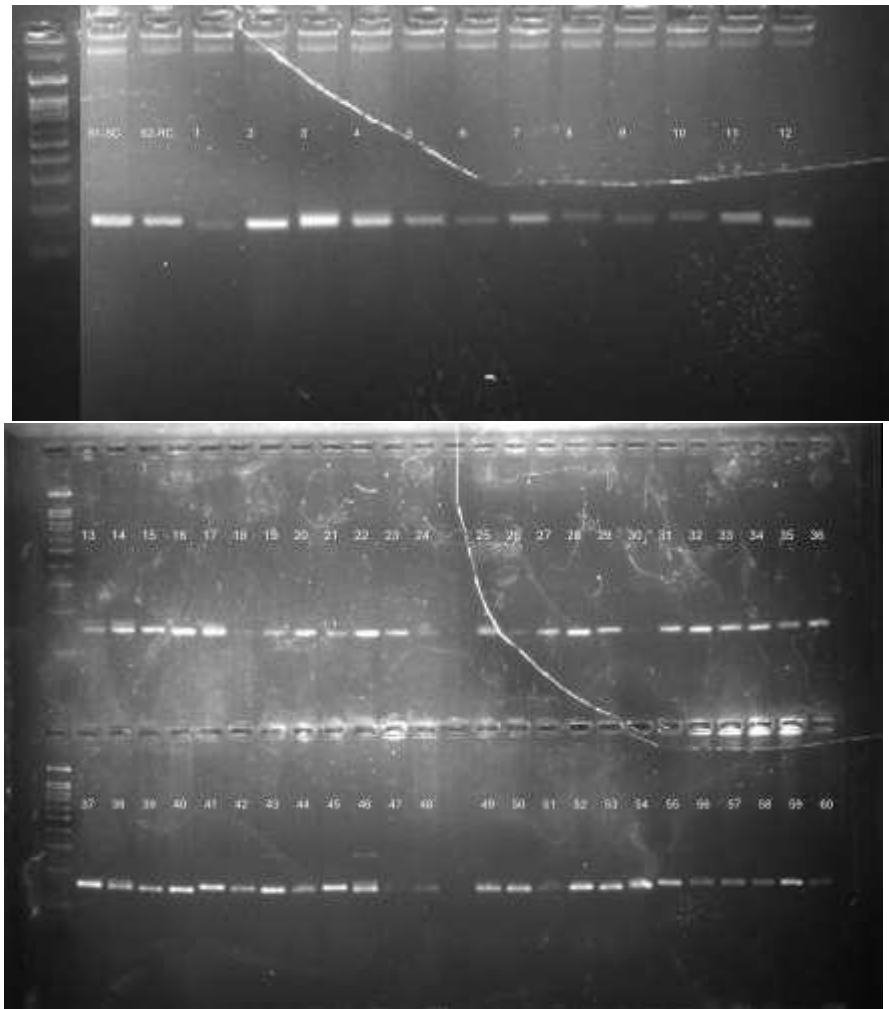
9) RM229



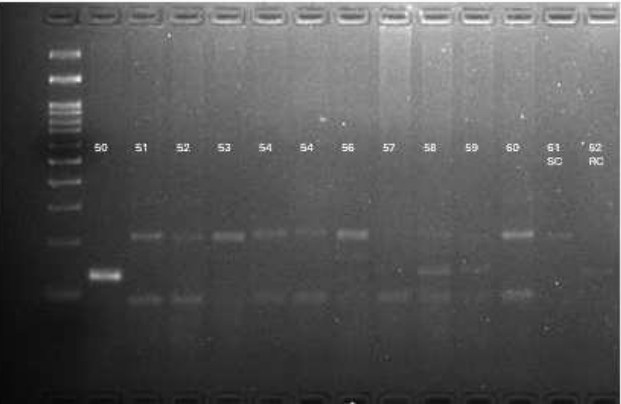
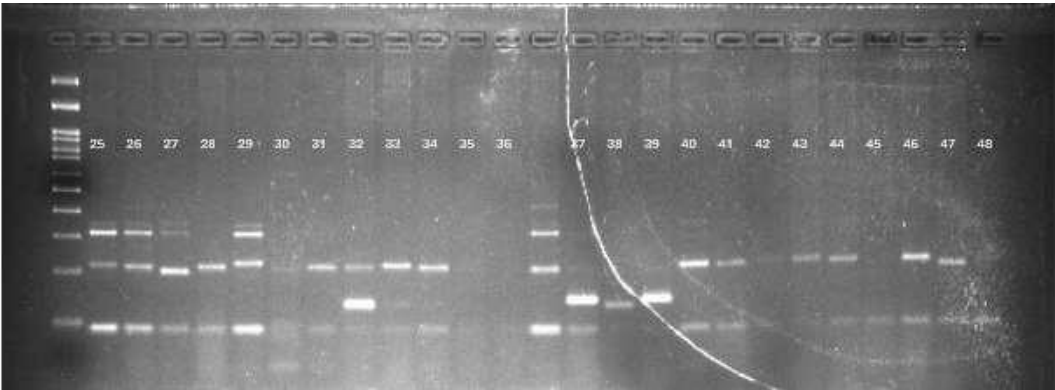
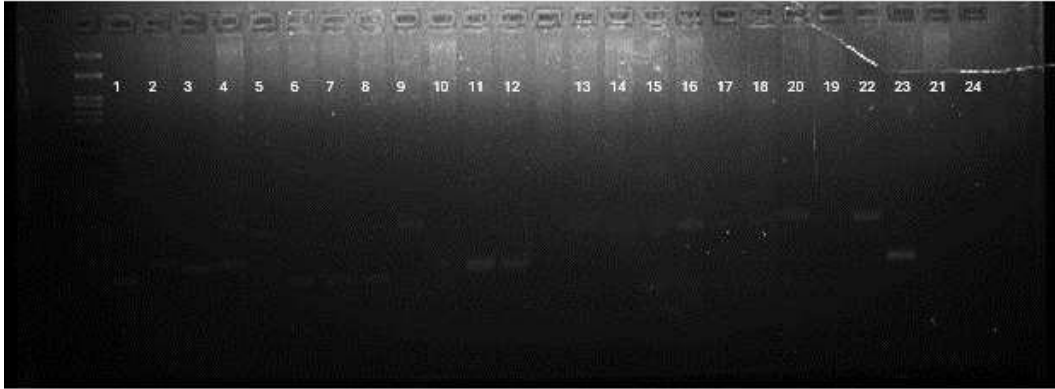
10)RM242



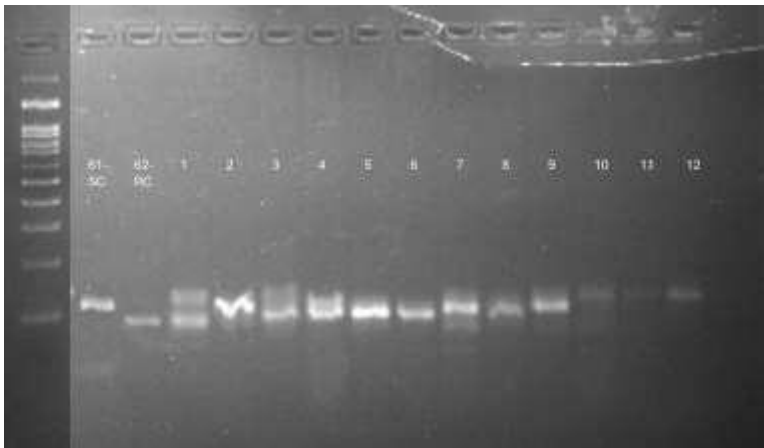
11)RM244



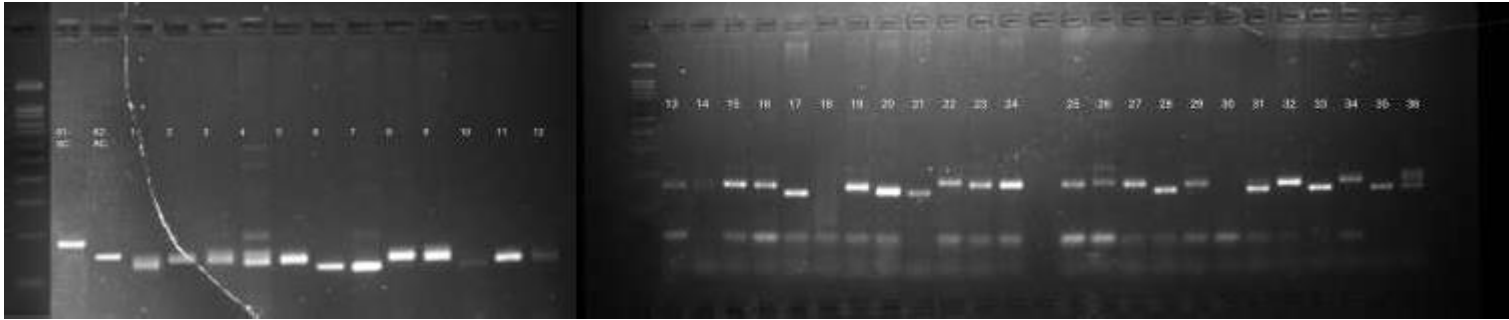
12)RM3694

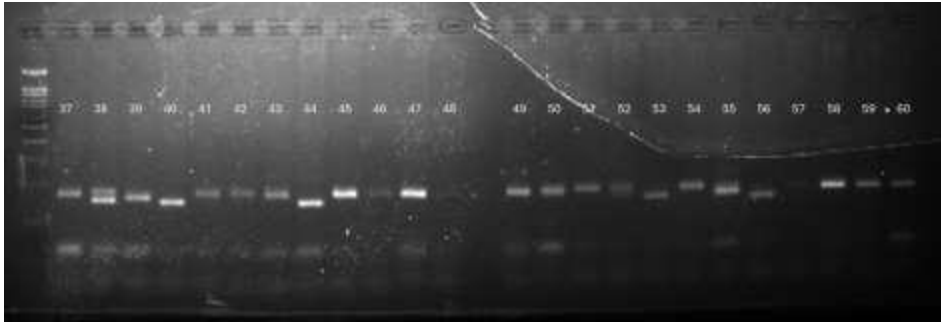


13)RM235

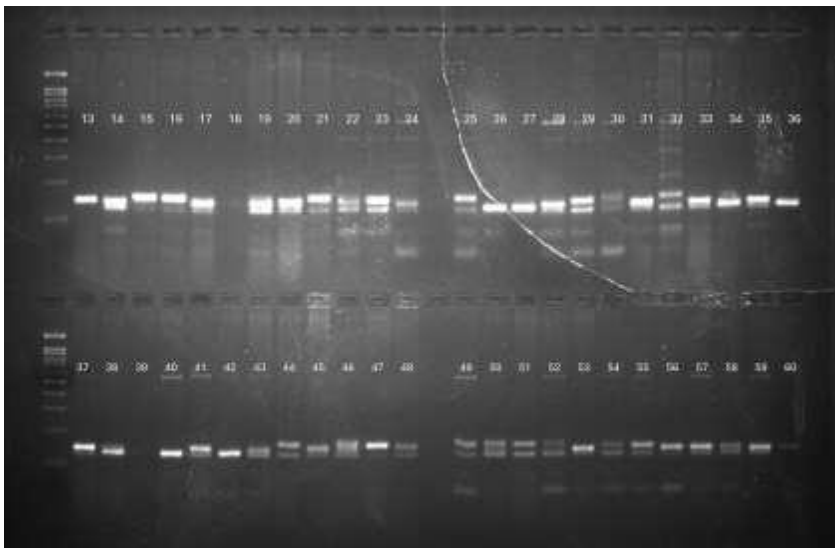
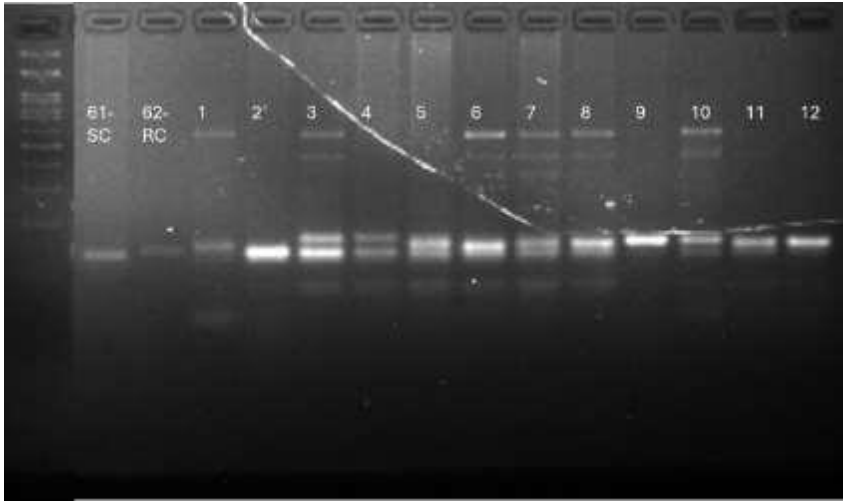


14)RM264

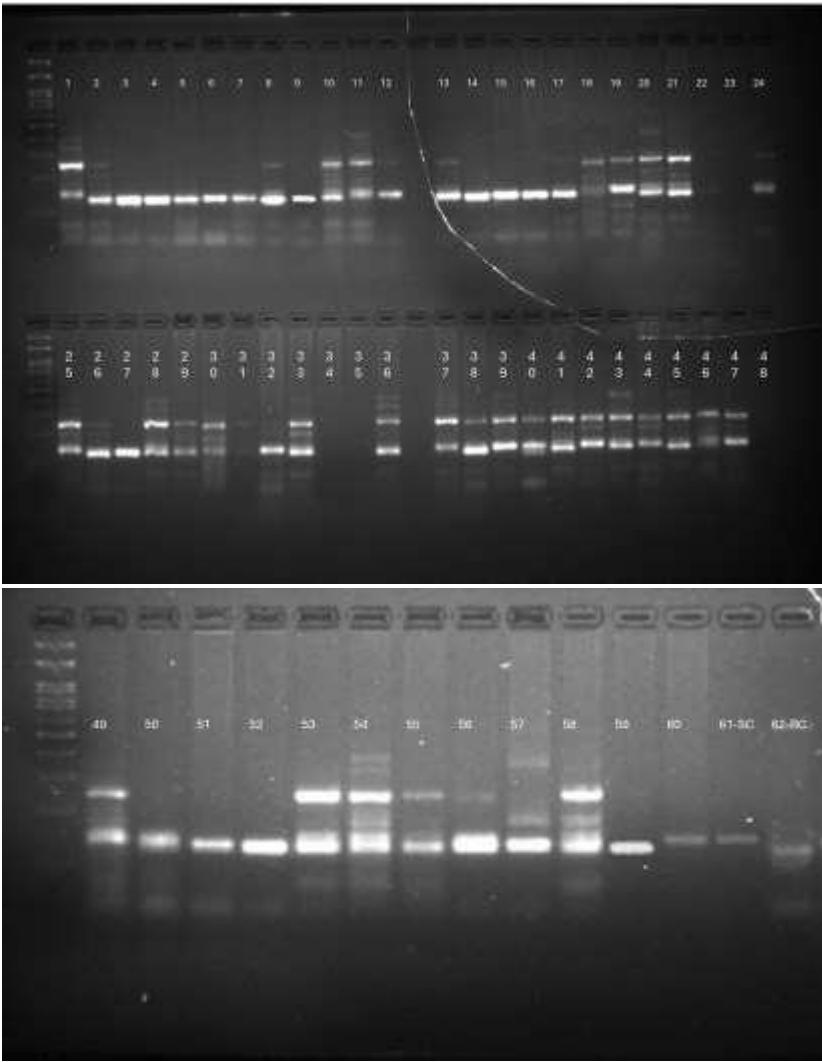




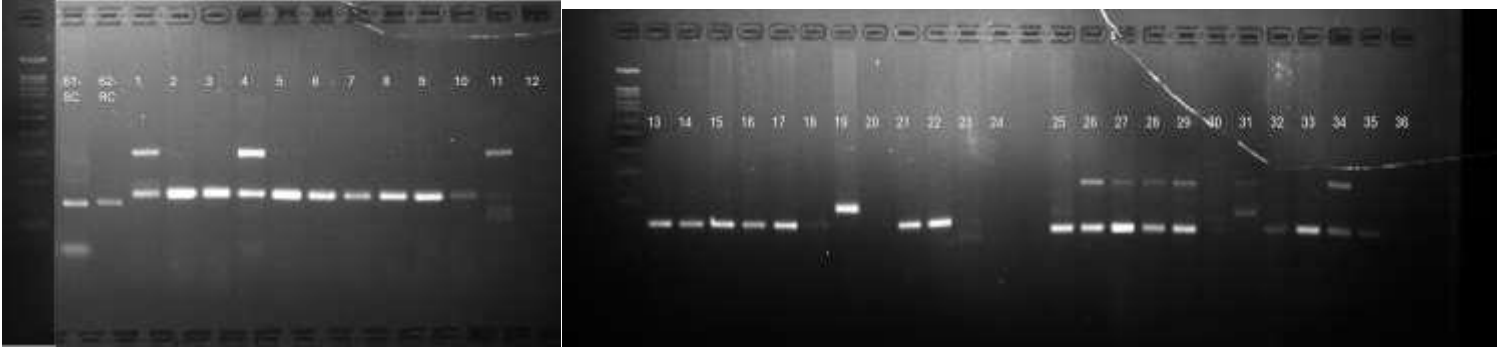
15)RM 152

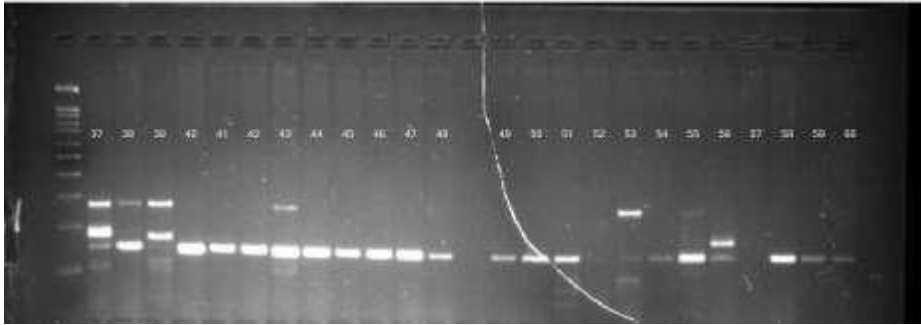


16)RM6208

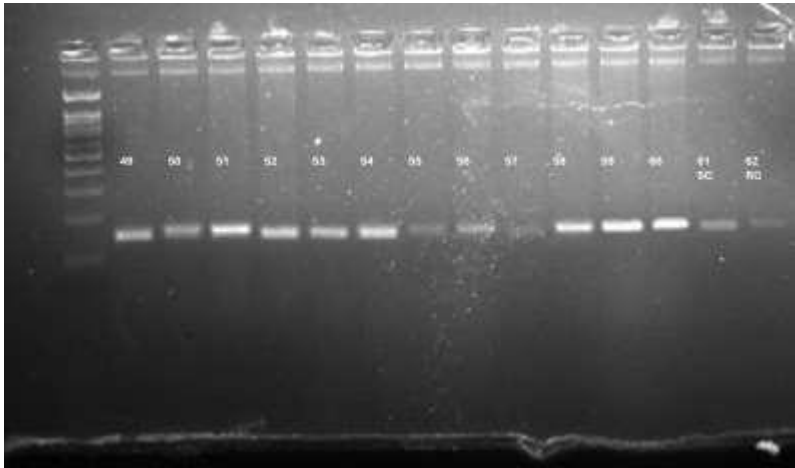
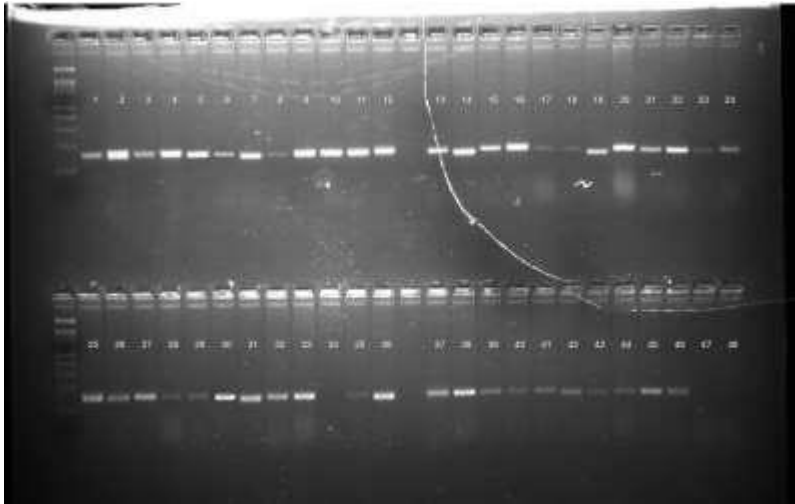


17)RM339

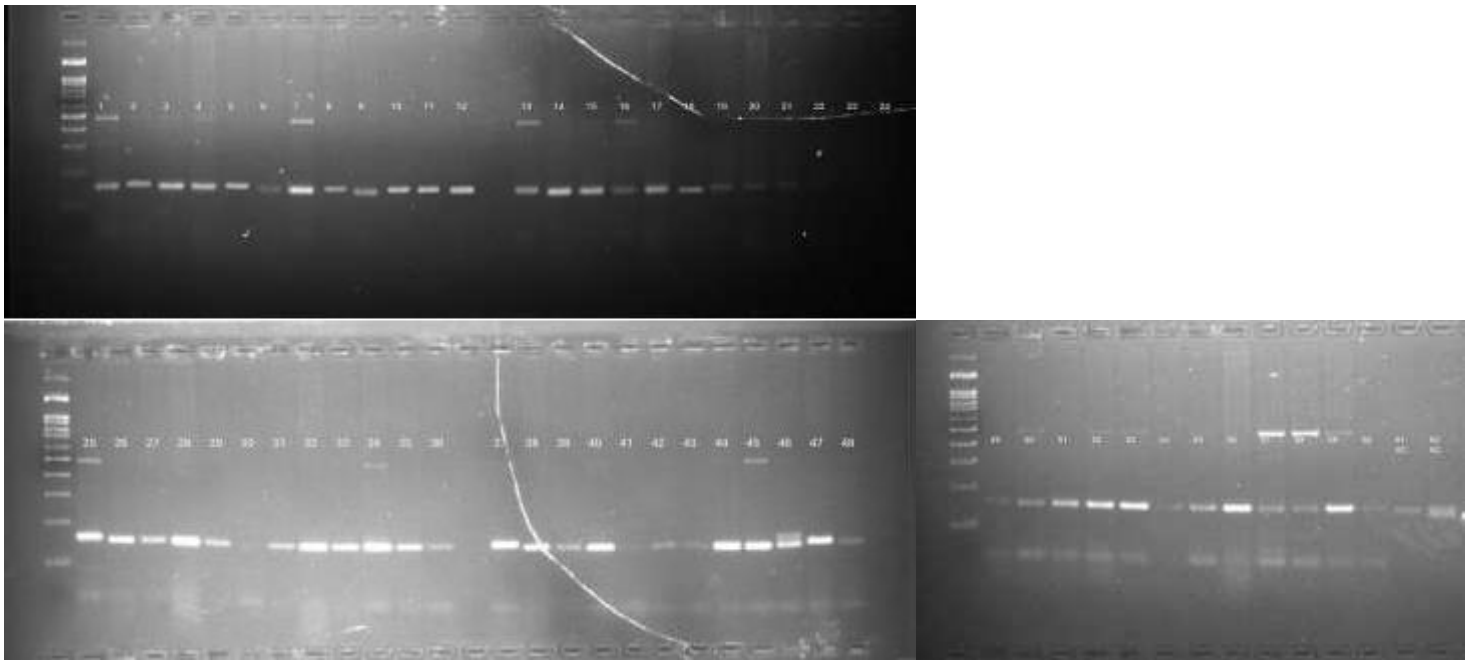




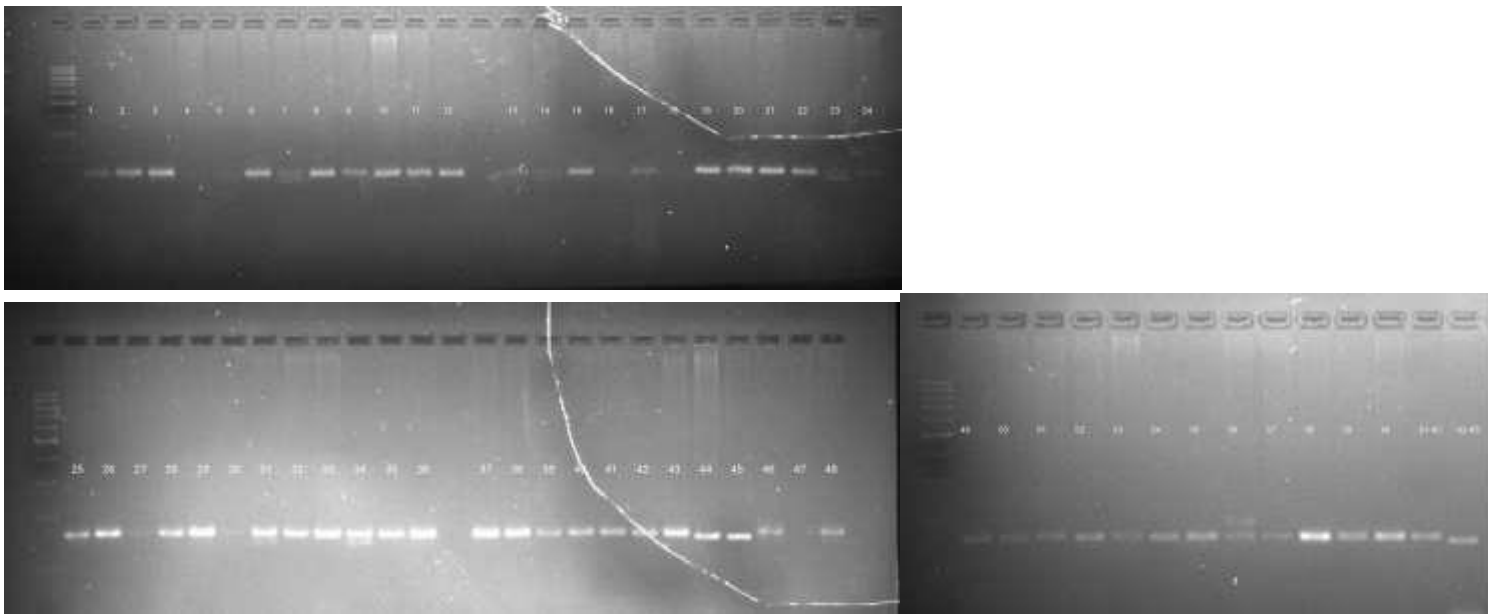
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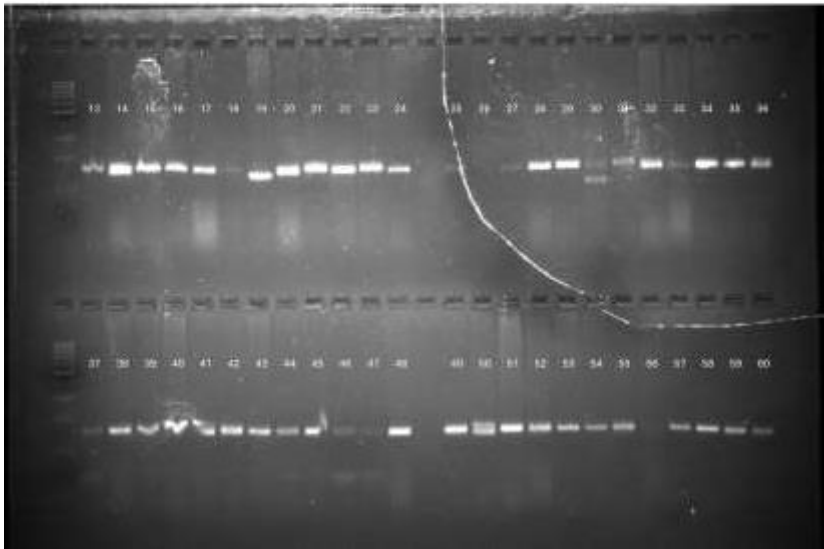
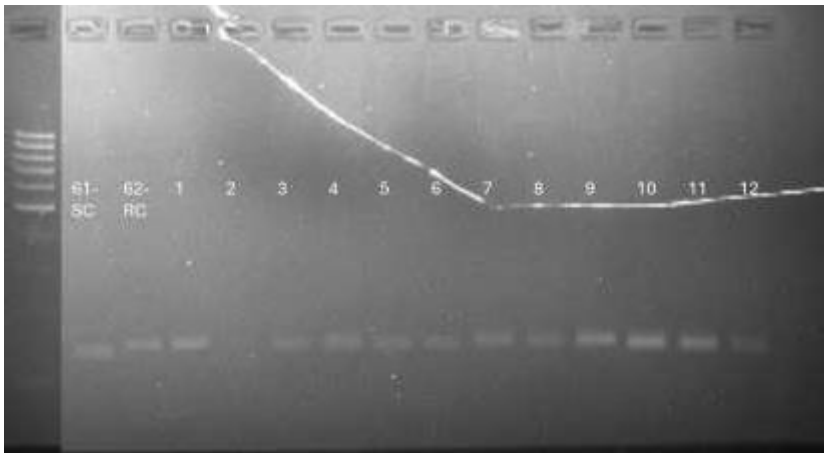
19)RM6947



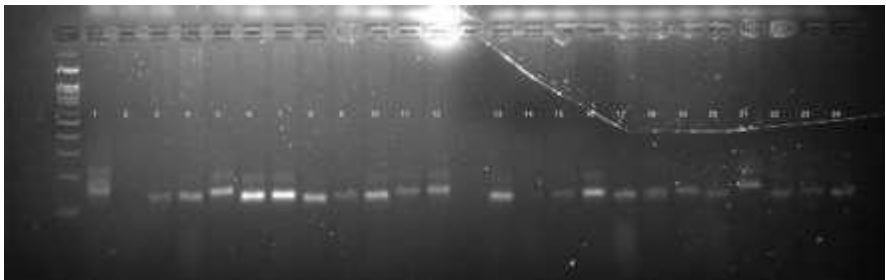
20)RM429

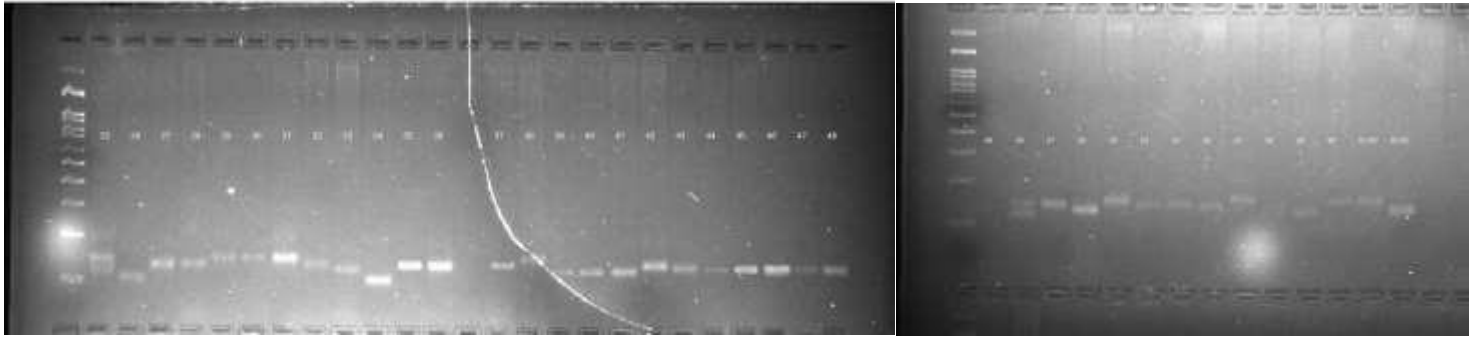


21)RM234

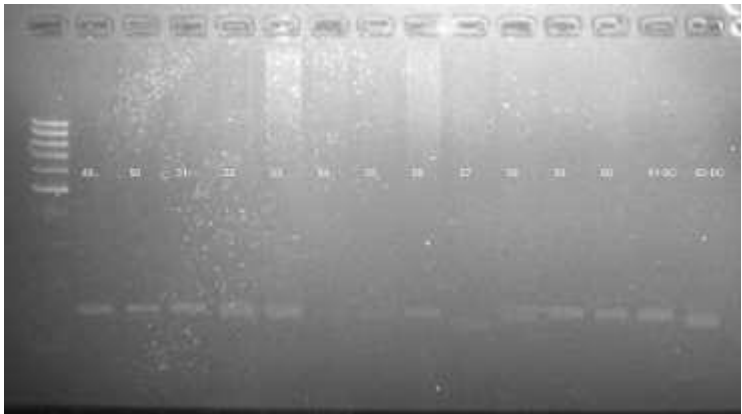
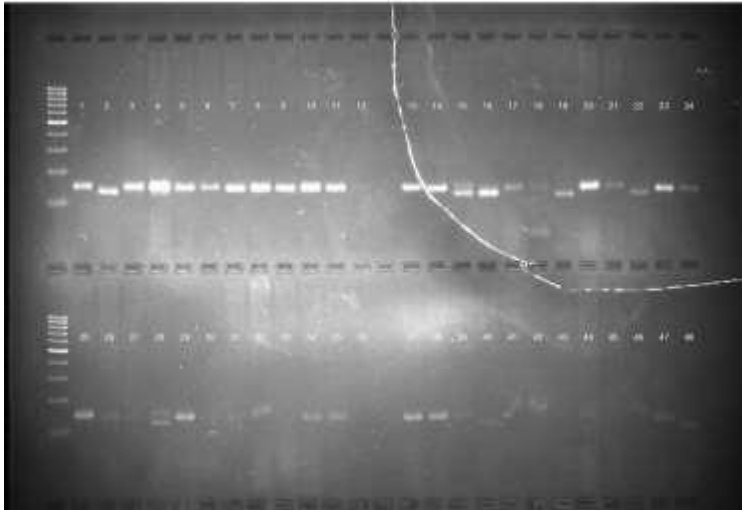


22)RM 5926

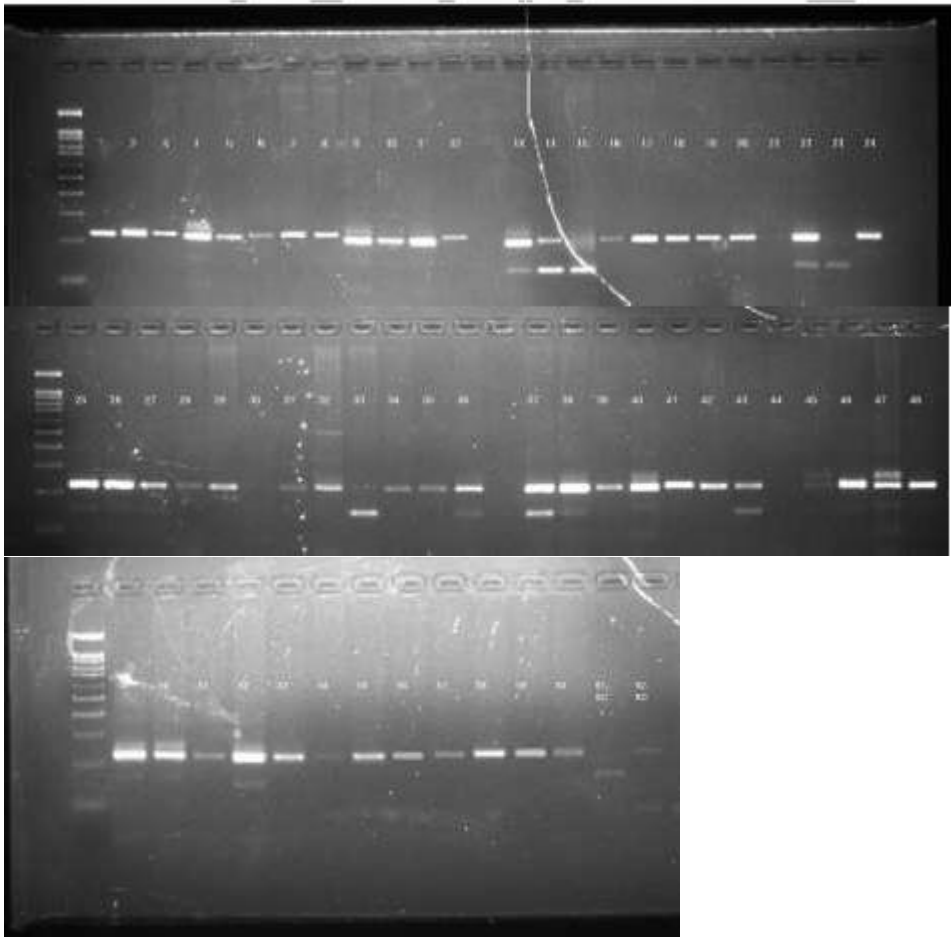




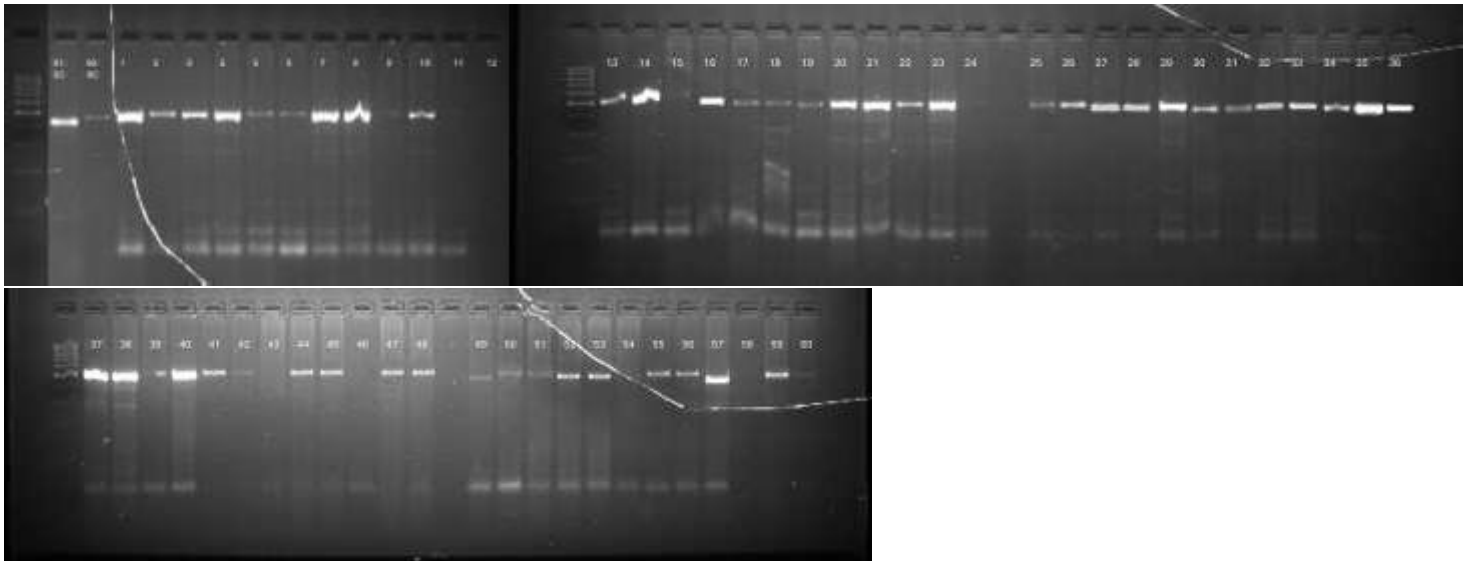
23)RM11



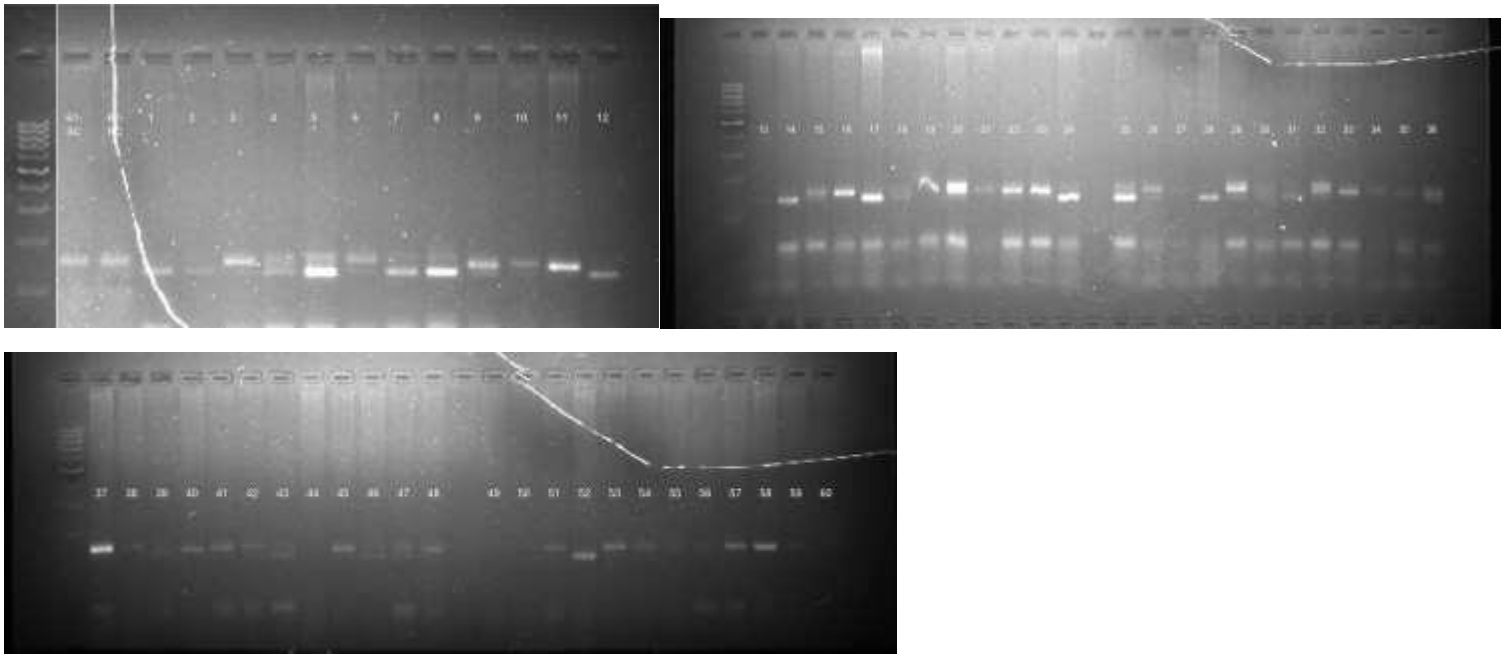
24)RM 464



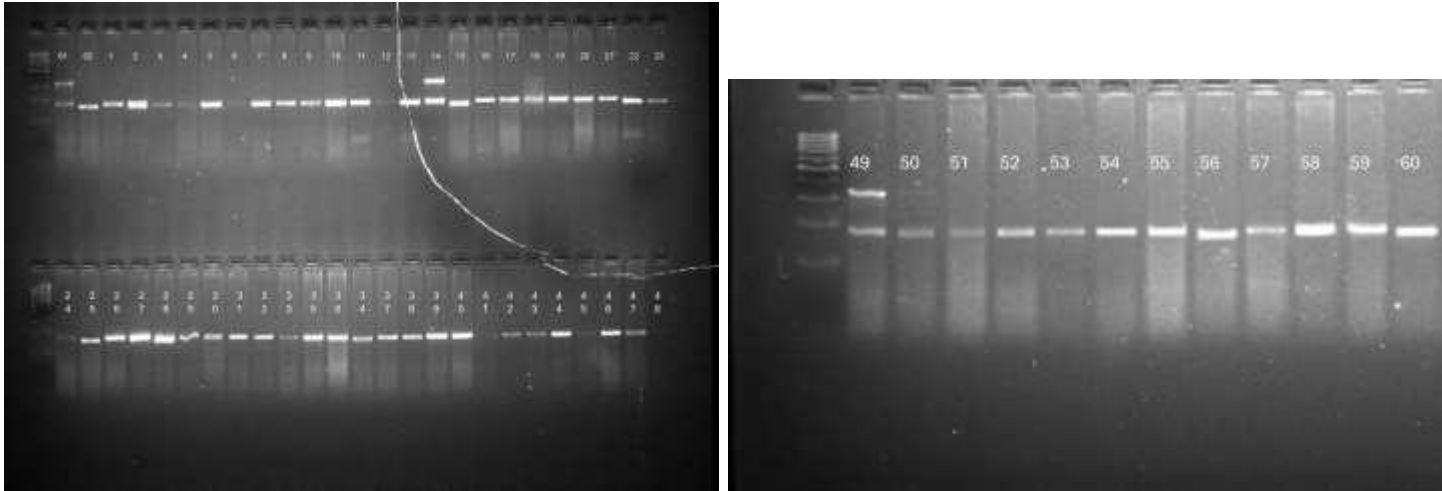
25)RM26627



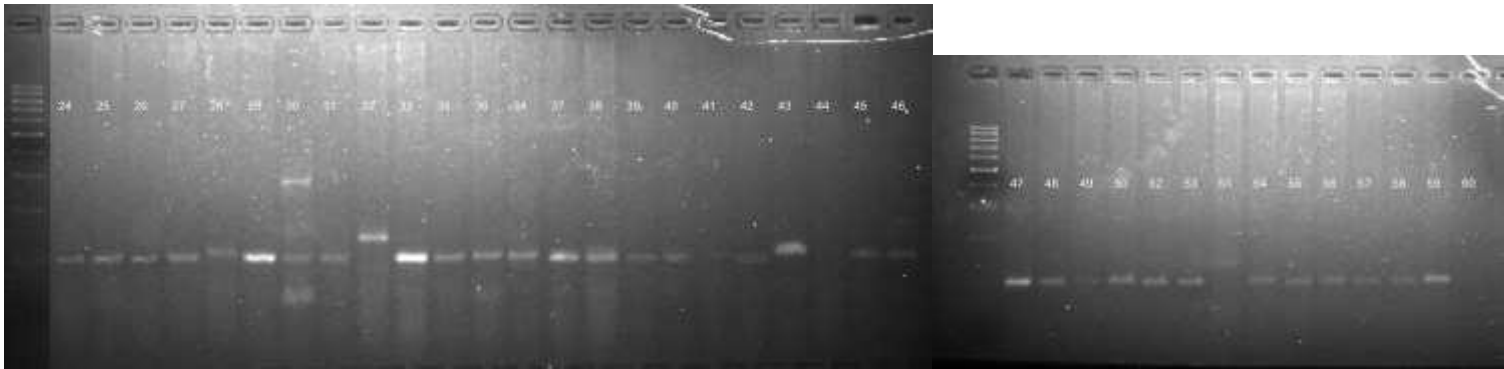
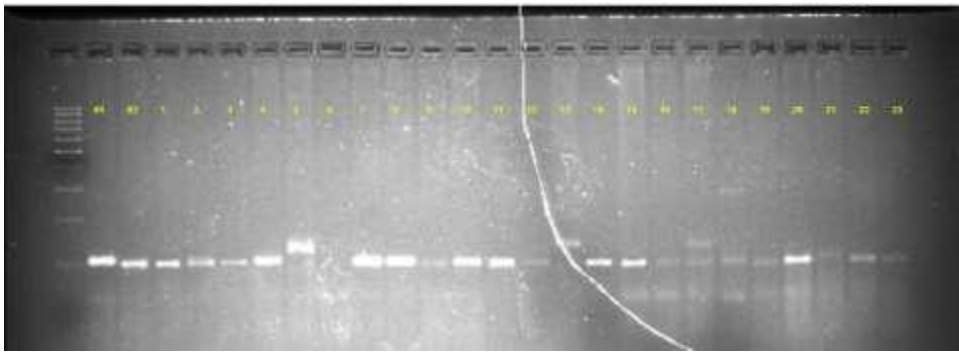
26)RM110



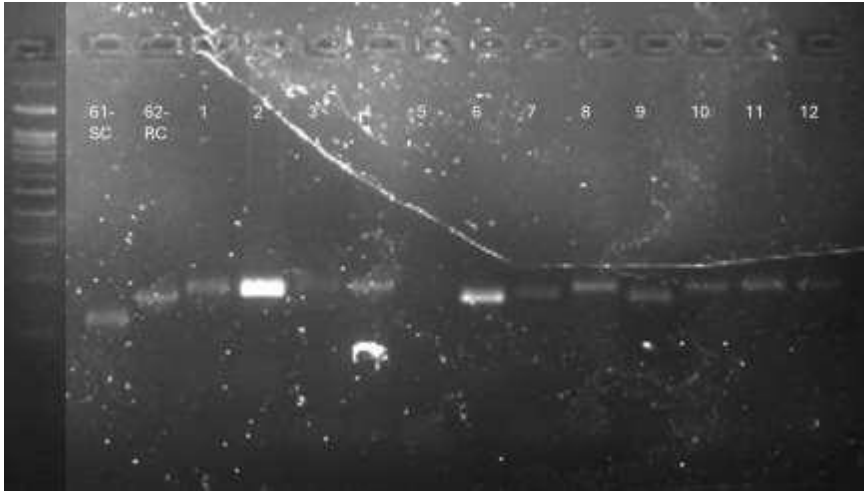
27)RM432

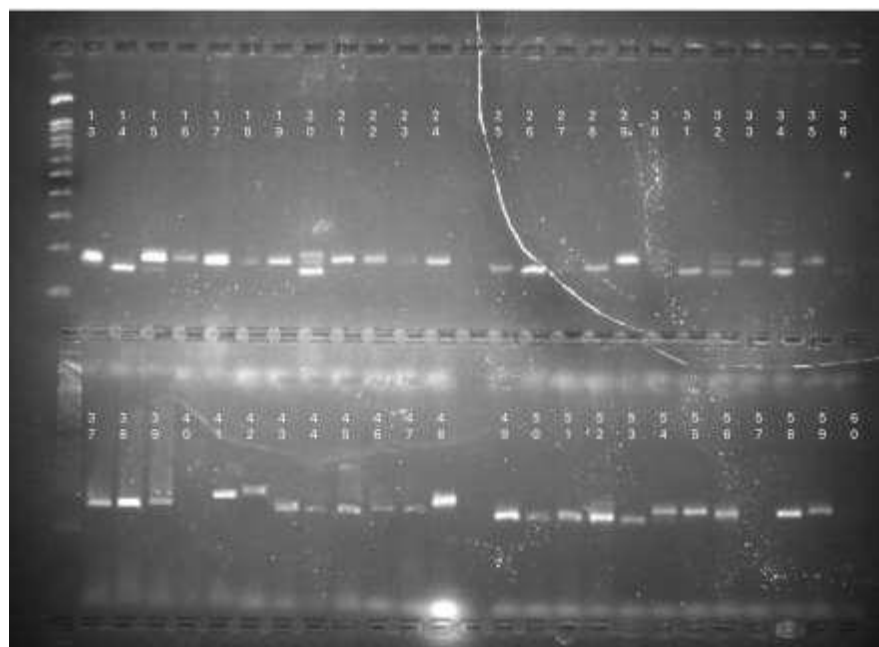


28) RM25292

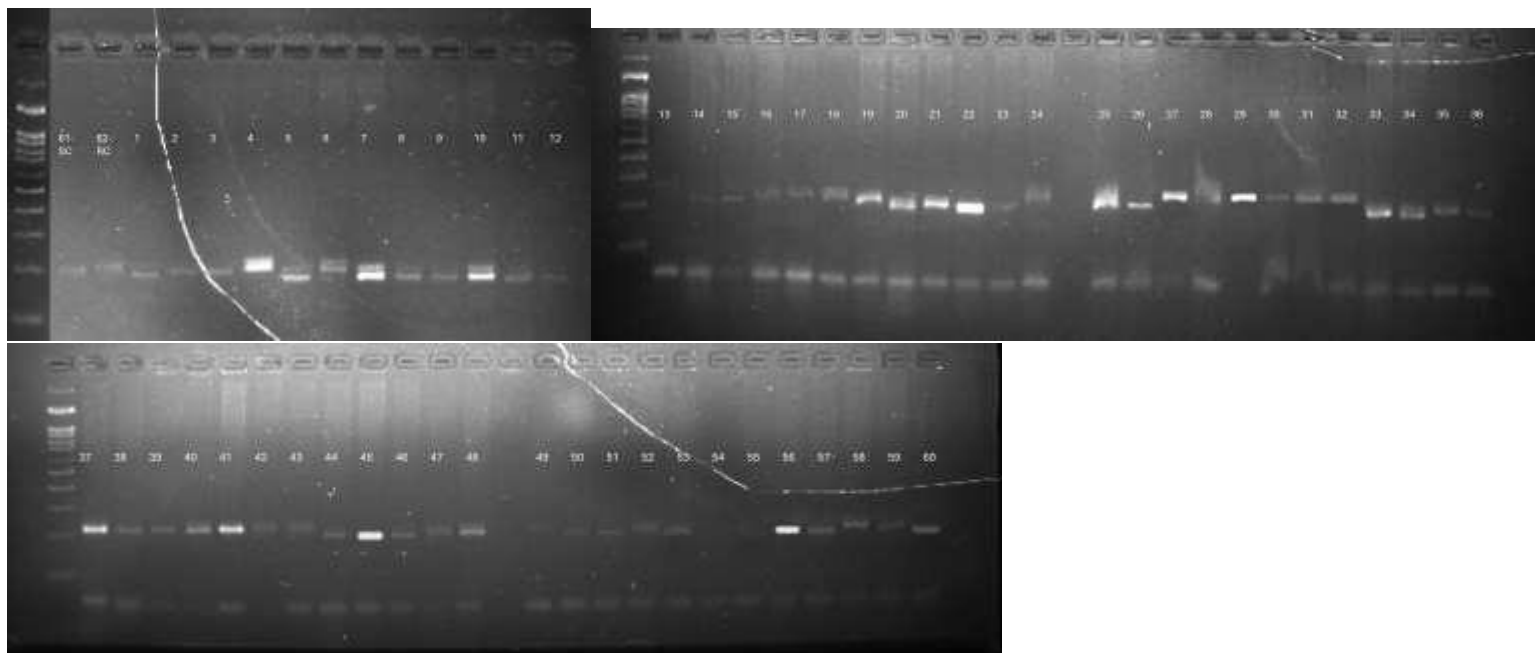


29) RM202

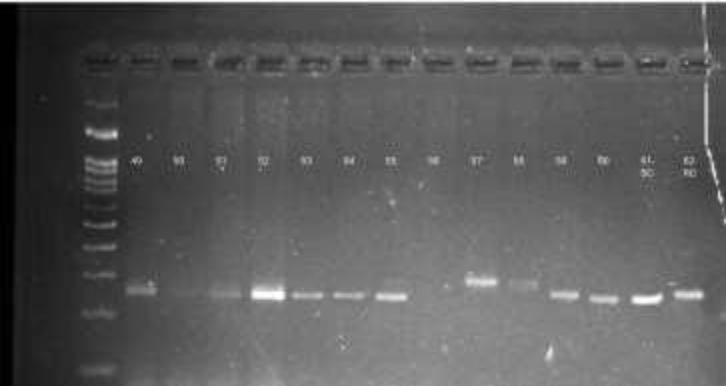
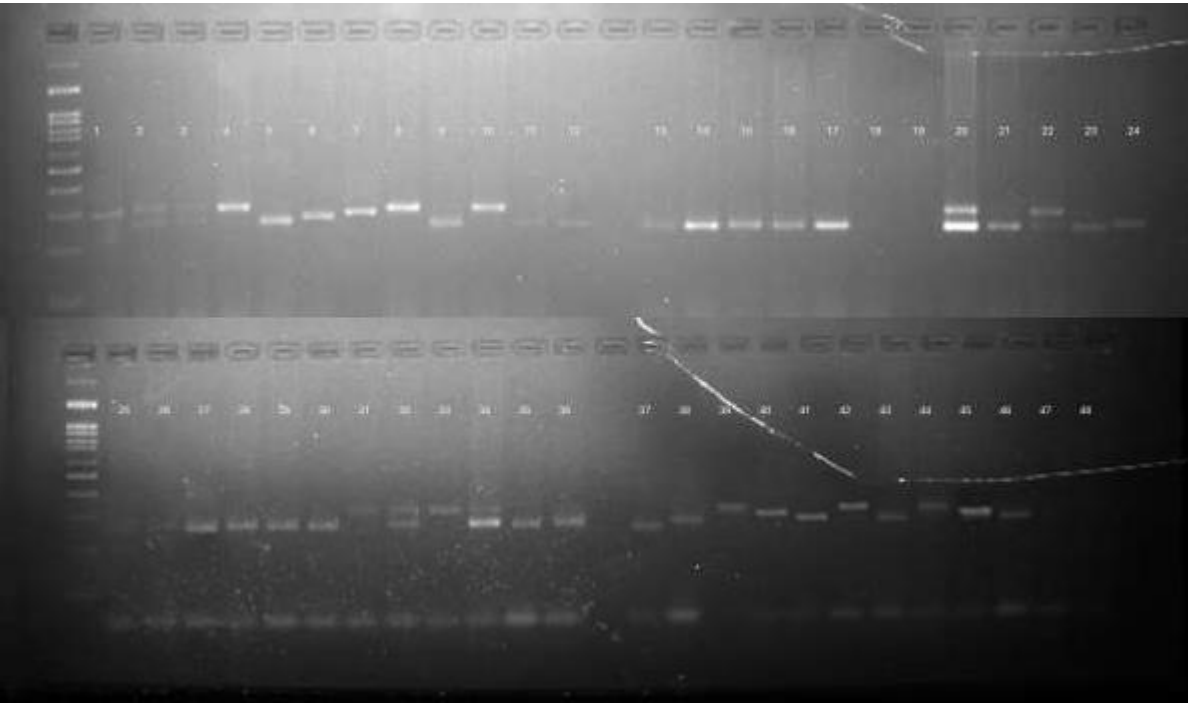




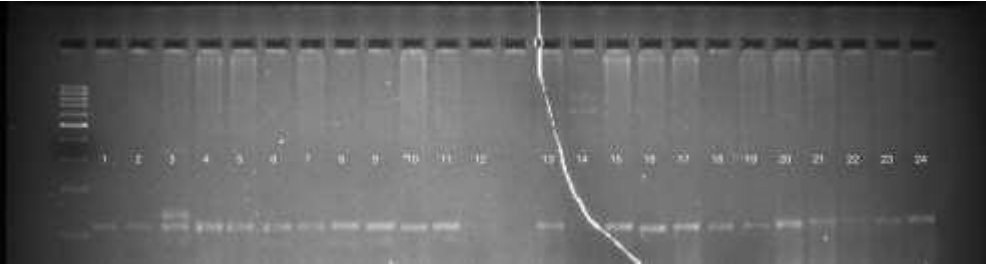
30) RM144



31)RM101

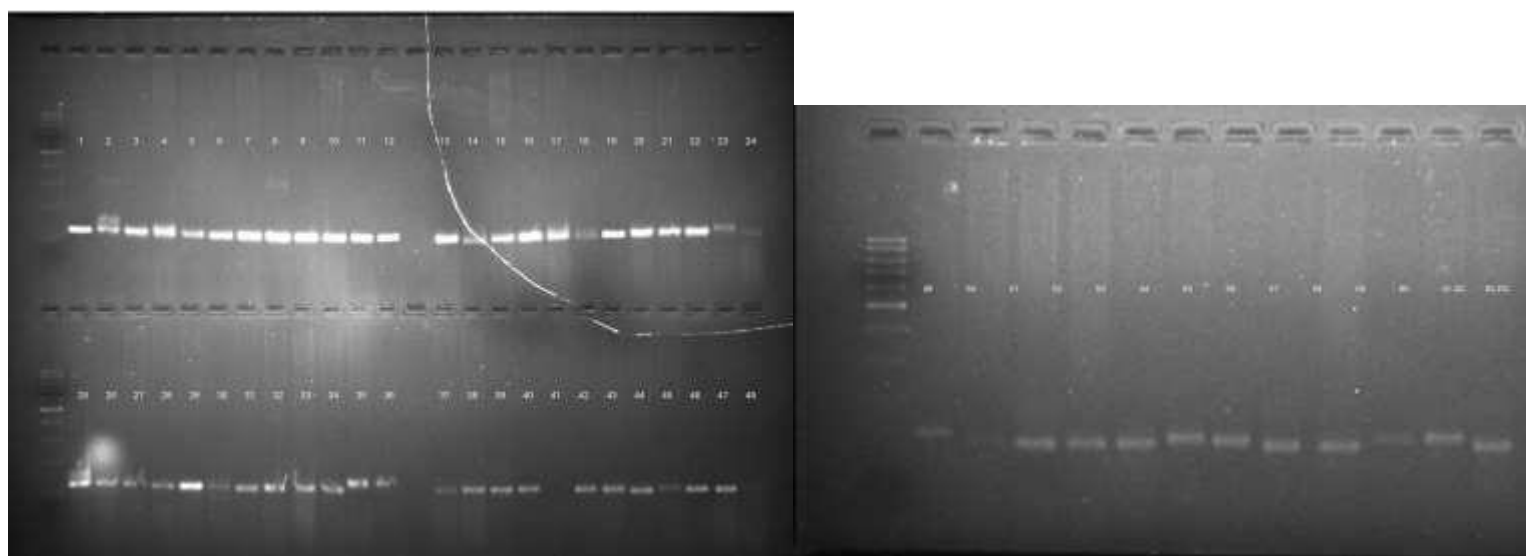


32)RM5341

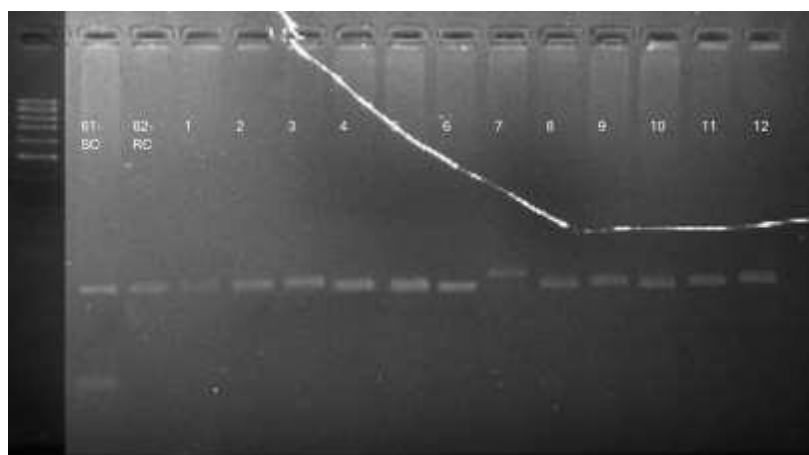


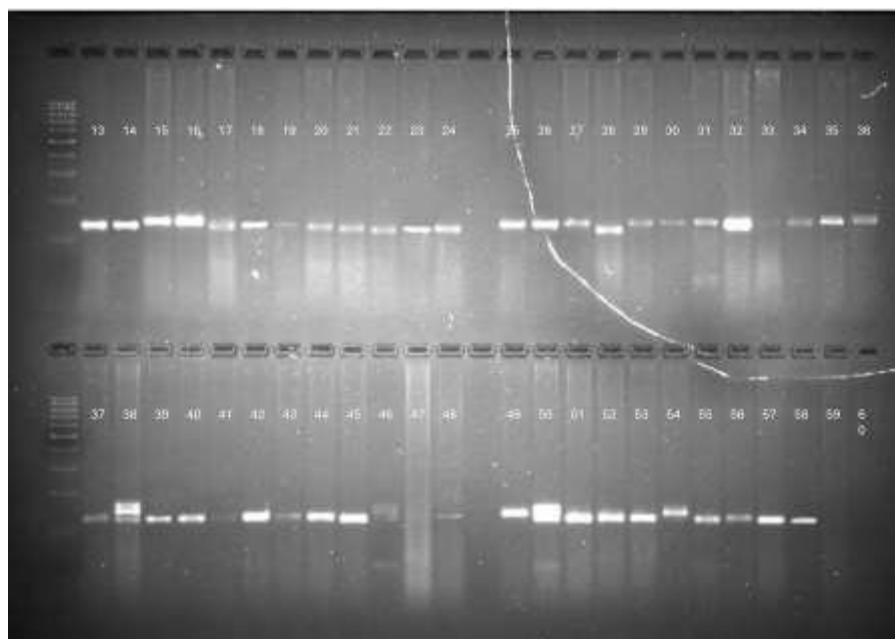


33)RM 190

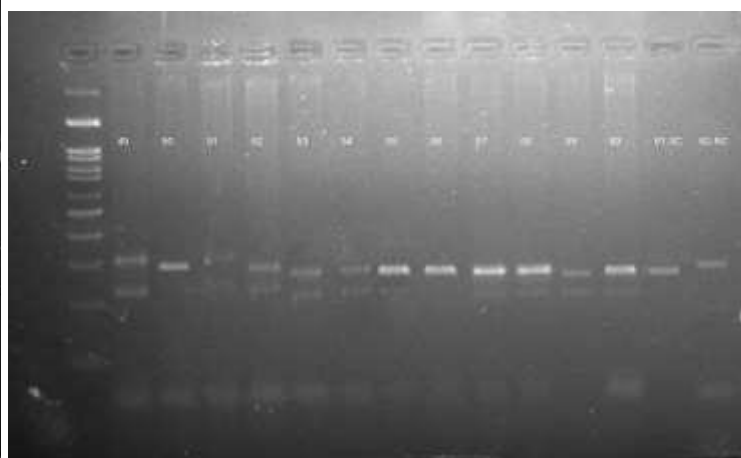
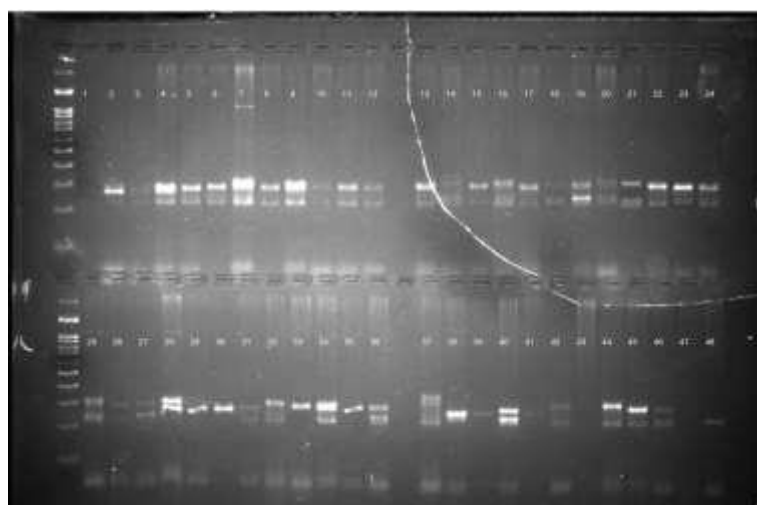


34)RM216

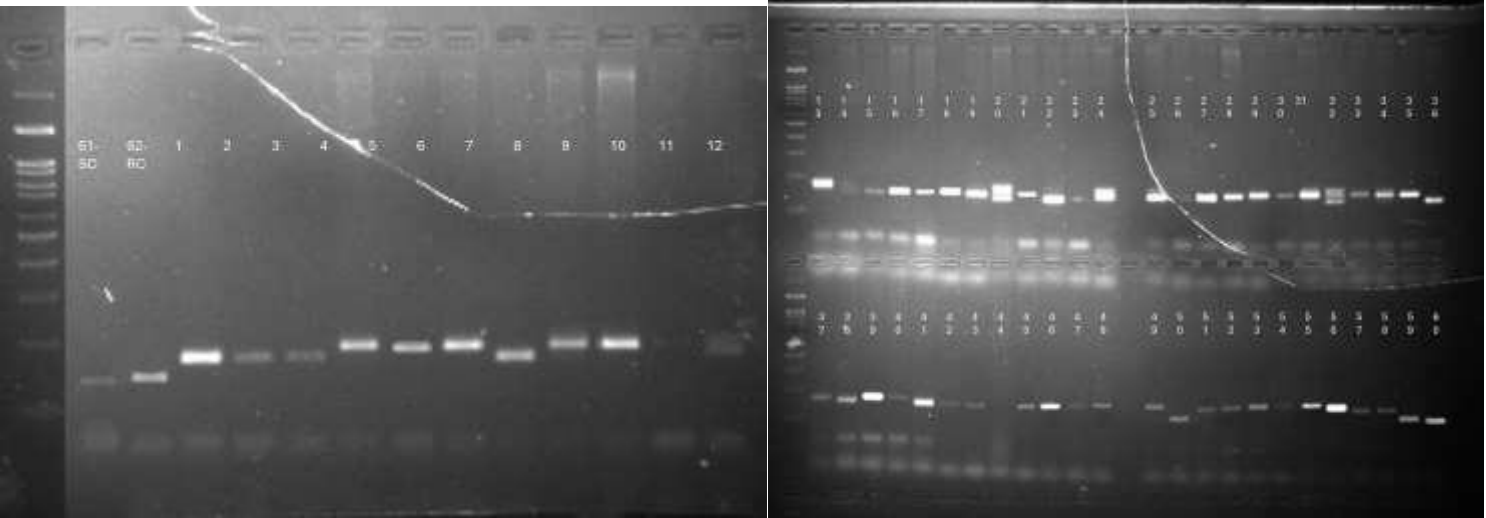




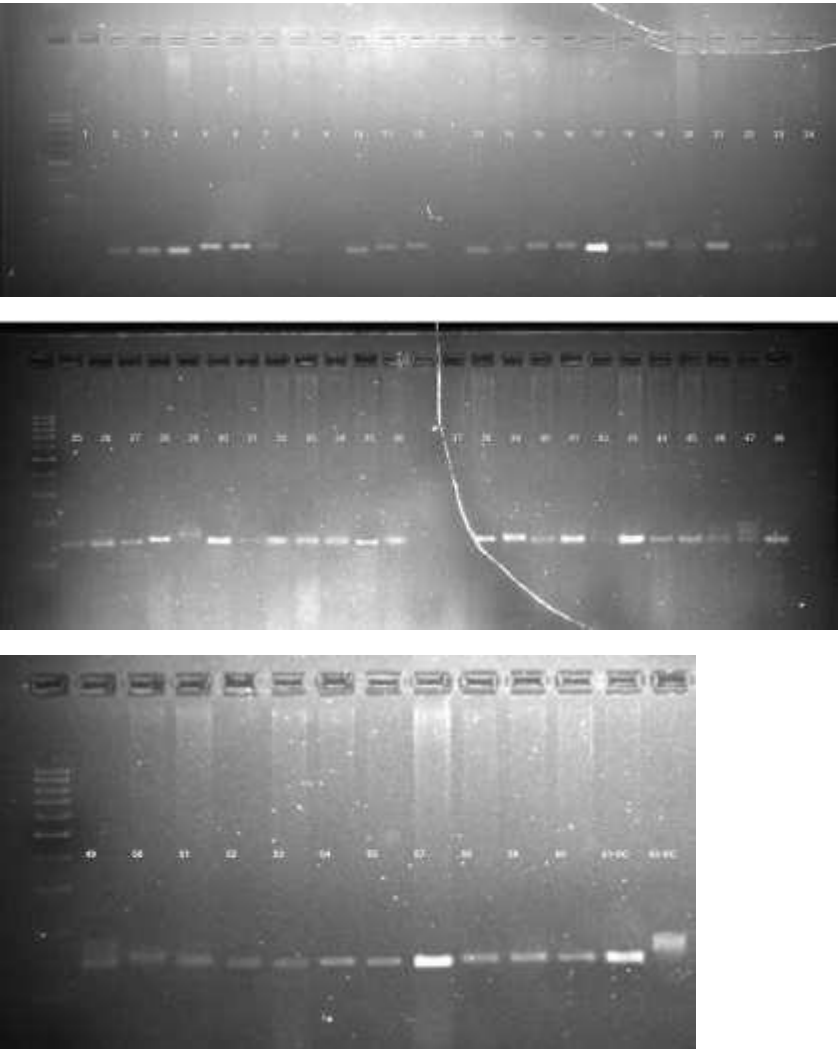
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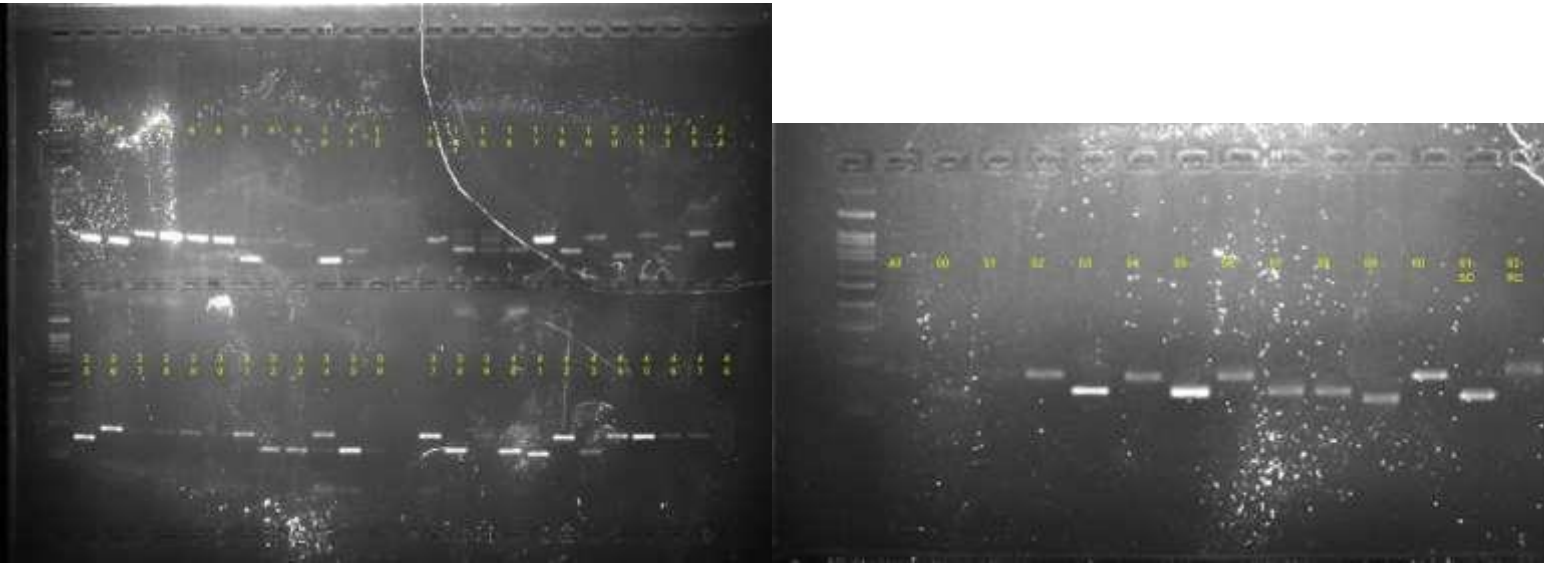
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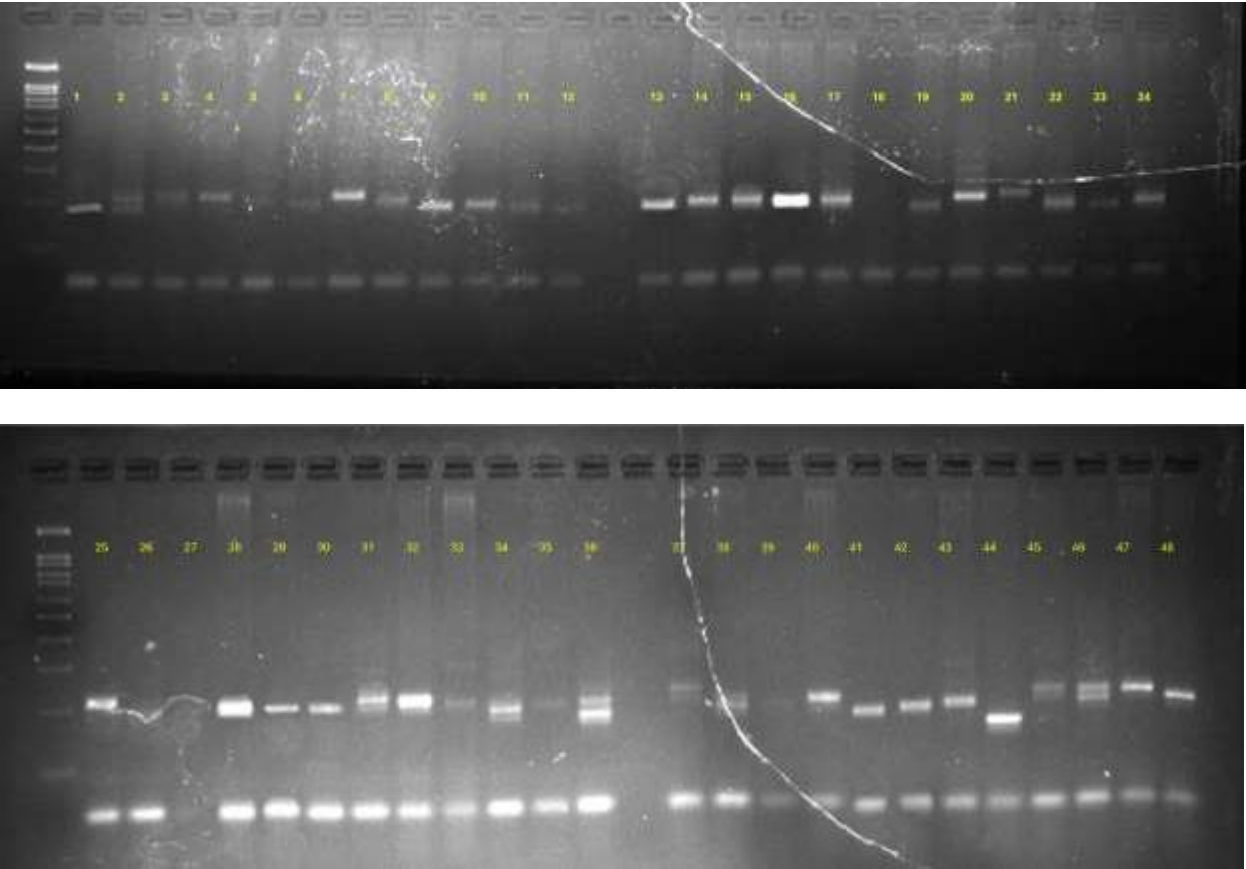
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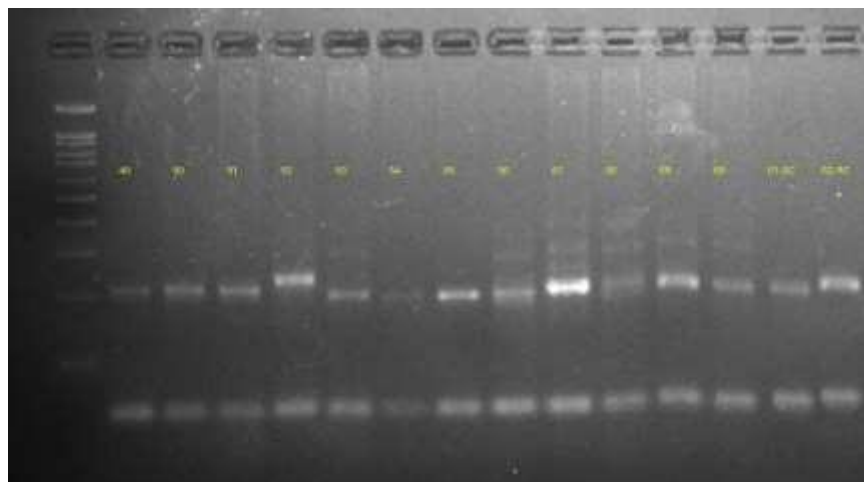


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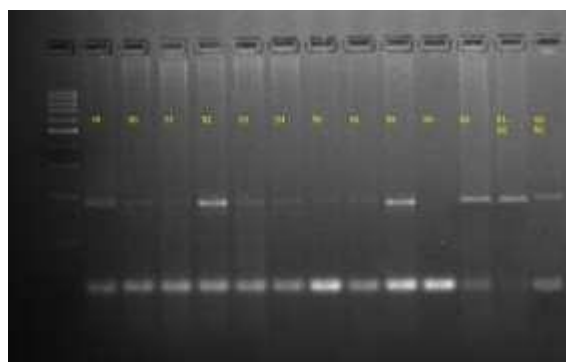
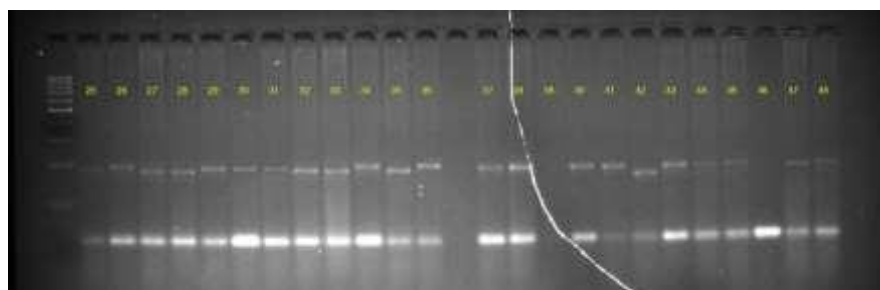
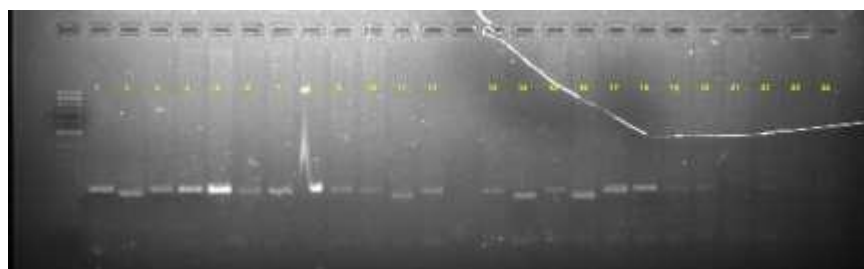


39) RM6925





40) RM18451



41)RM263

