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 l | karungam | Vadakathi sambha | Periya chandiyar

Arasambha | Mangam sambha | Vadivel | Purple puttu | RPHP104 | IG49

Moderately resistant

Kama sambha | Pamani sambha | RPHP125 | Kalarkar | Karthigai sambha

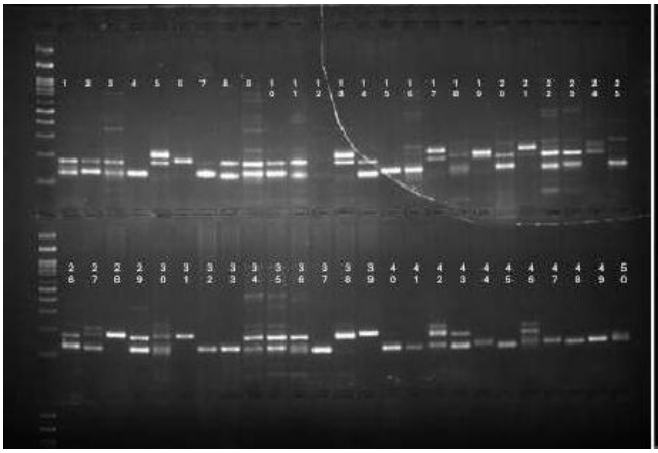
Moderately susceptible

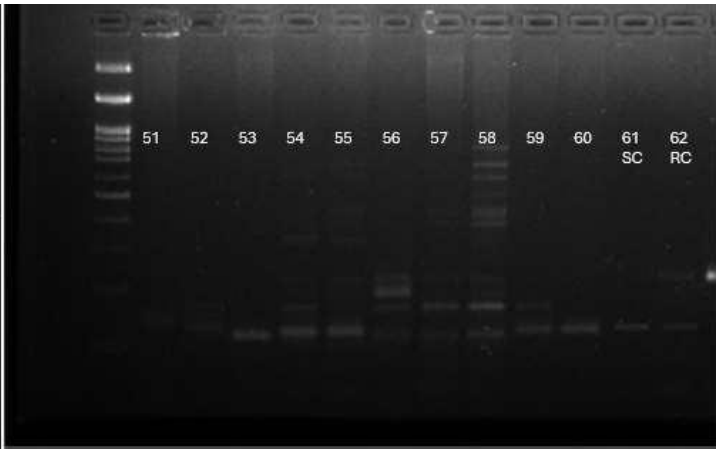
Chithan sambha | Rajamudi | IG75 | Red sirumani | Uppumulagai | Nootripatum

Murungankar

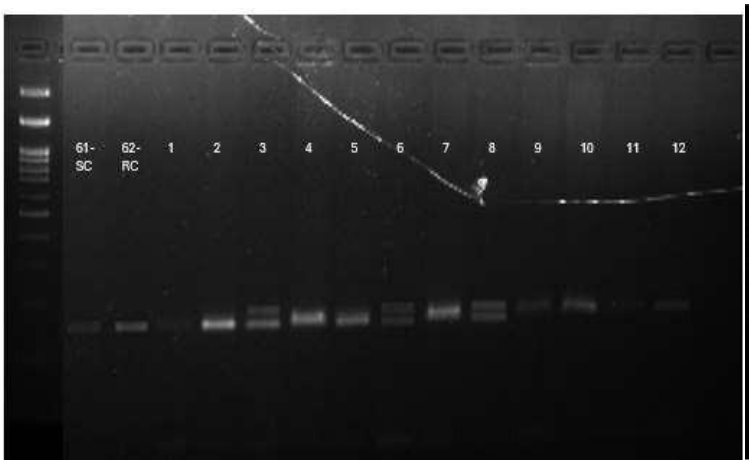
The gel pictures of the 41 markers (Refer Table 1 for the genotype names)

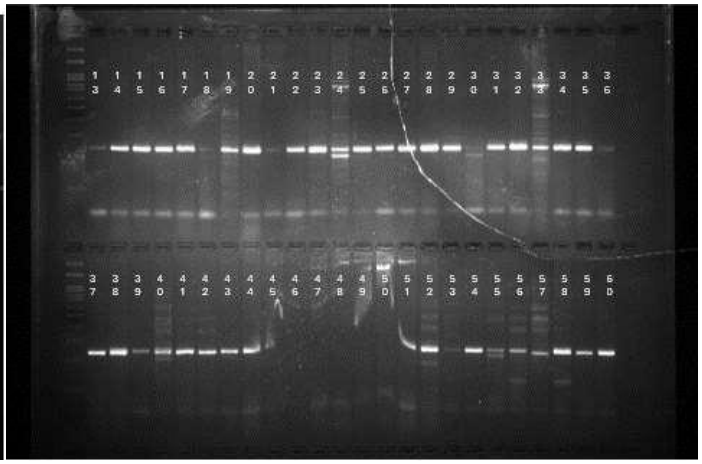
1) RM 9





2) RM 104





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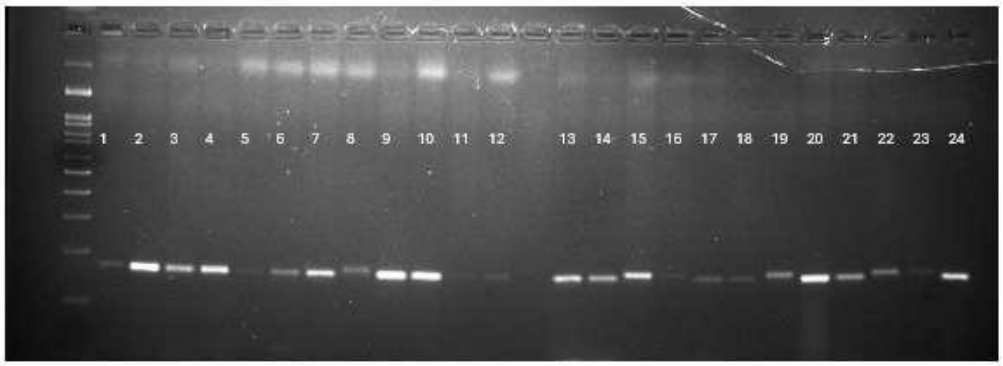

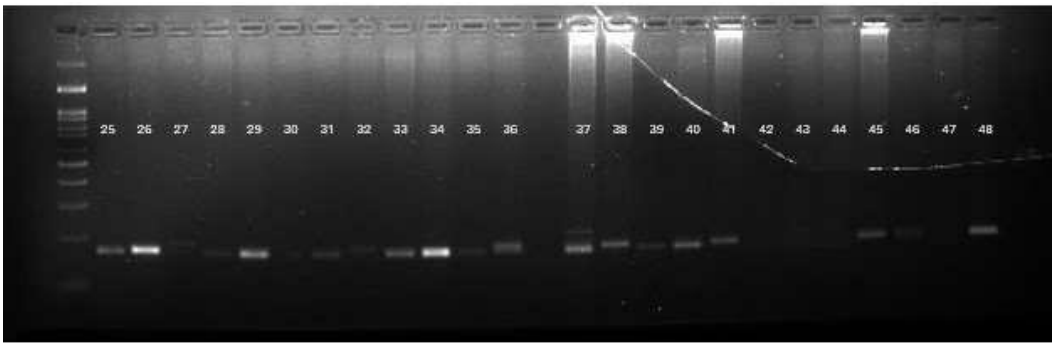
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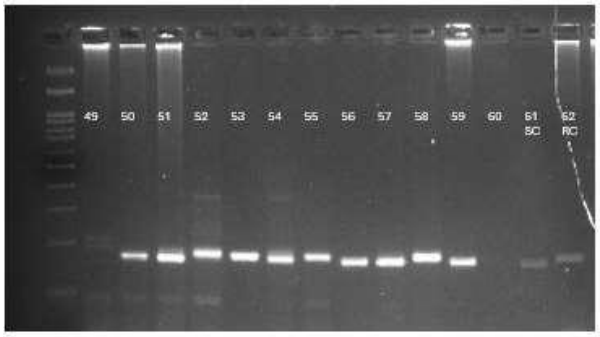
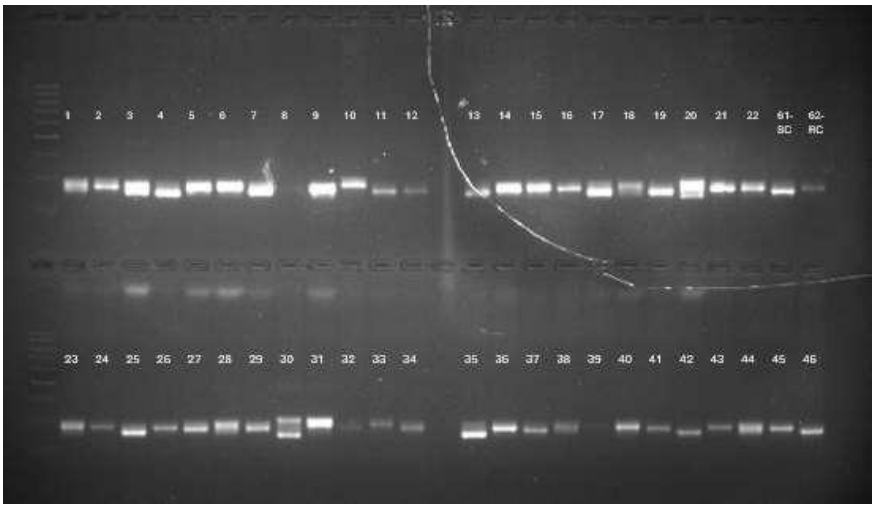

49 50 51 52 53 54 55 56 57 58 59 60 61 SC 62 RC

4) RM13679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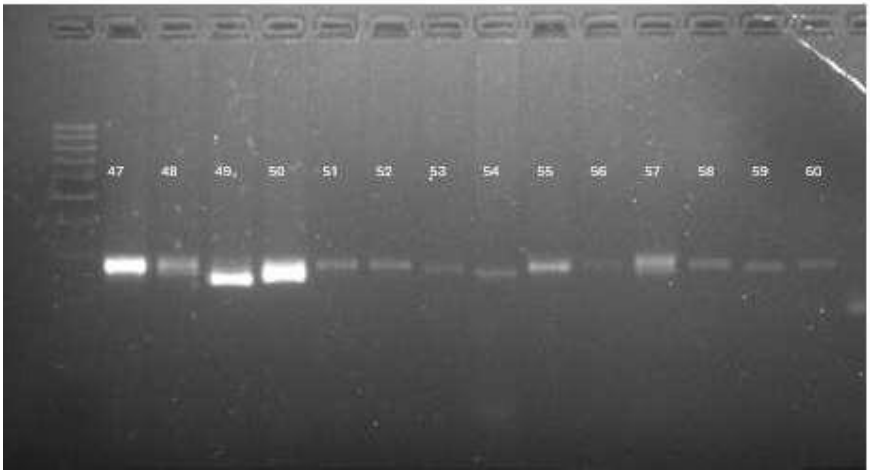
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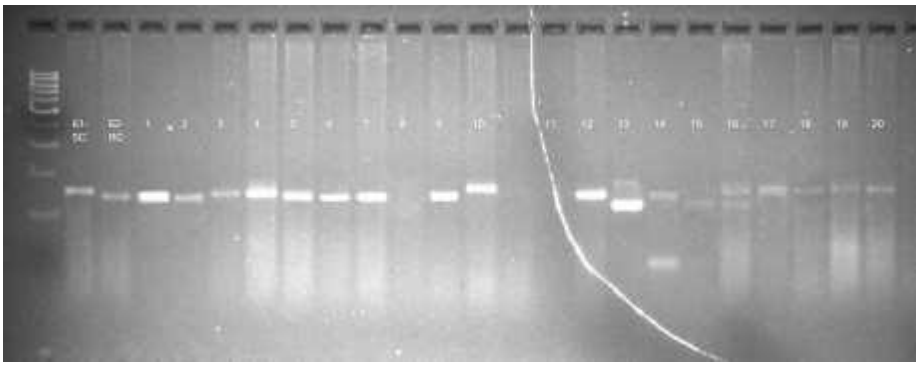
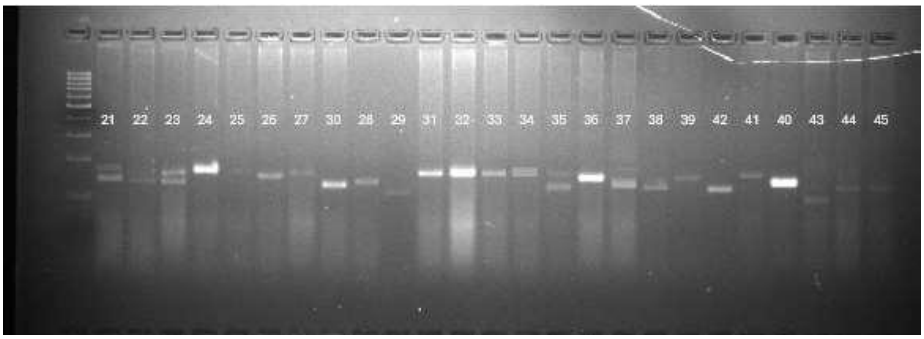
5) RM218

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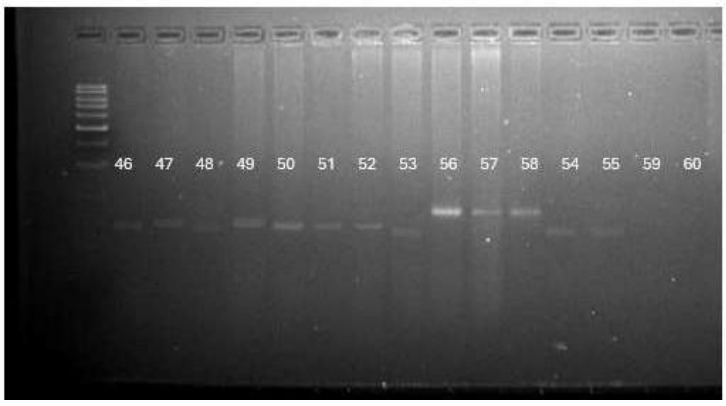
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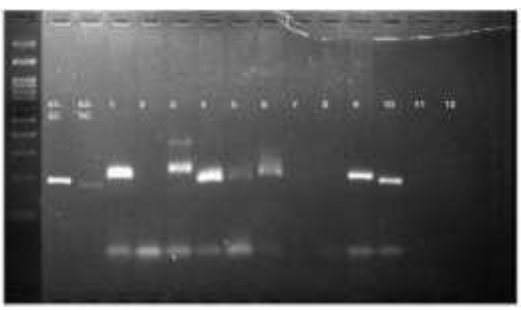
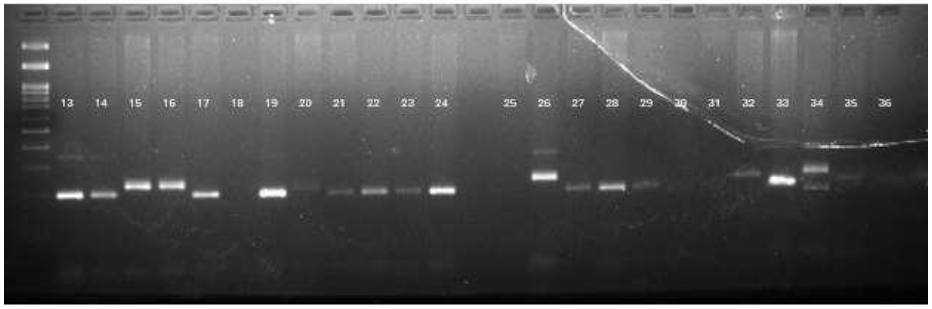
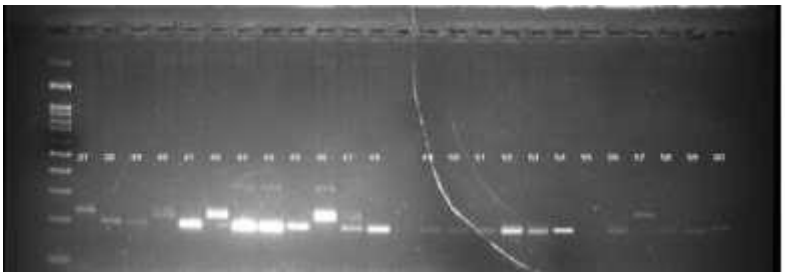
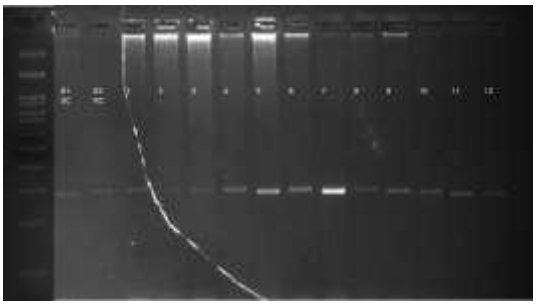
6) RM 5638

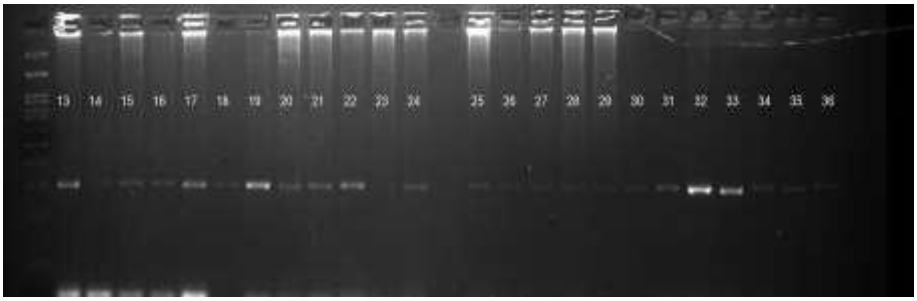


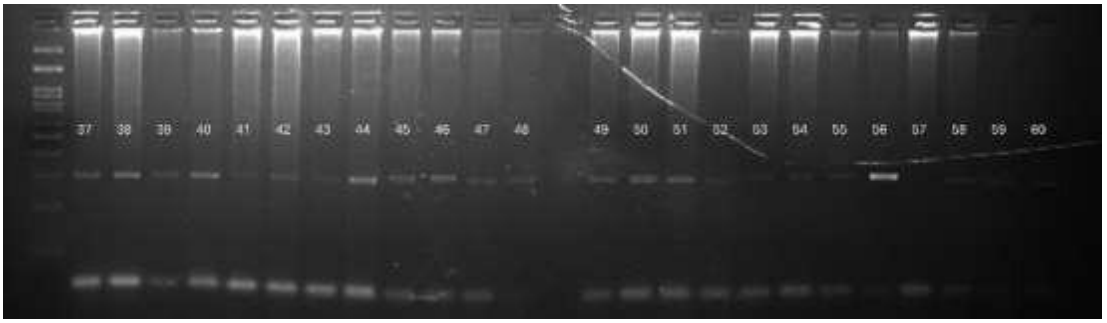




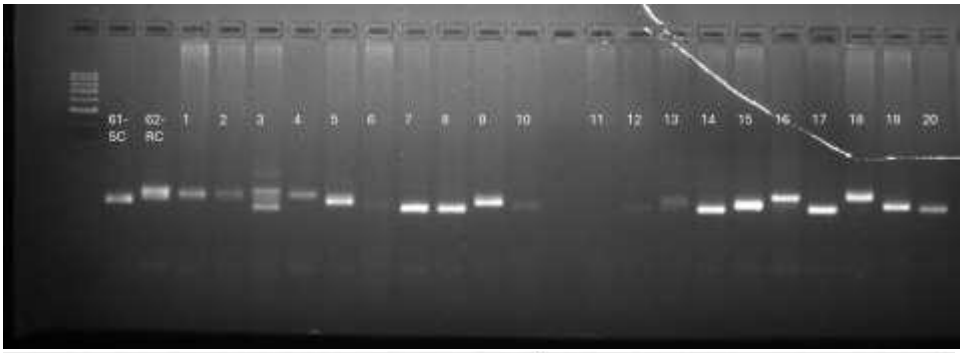
7) RM 7056







8) RM336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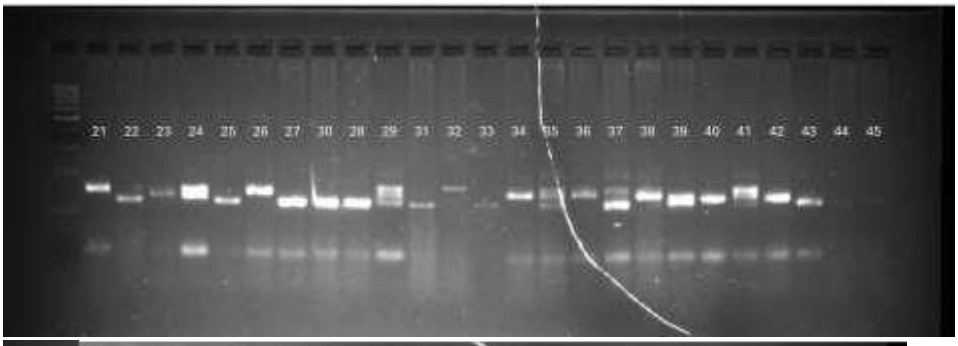
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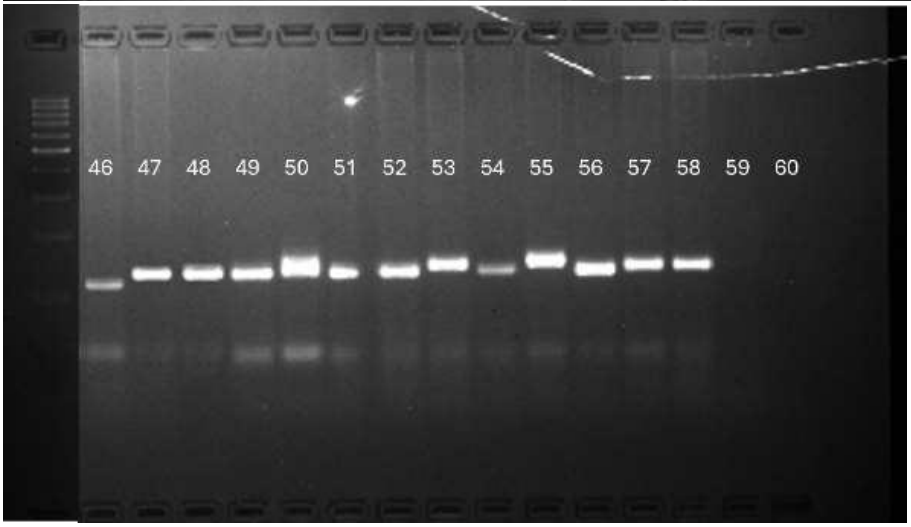
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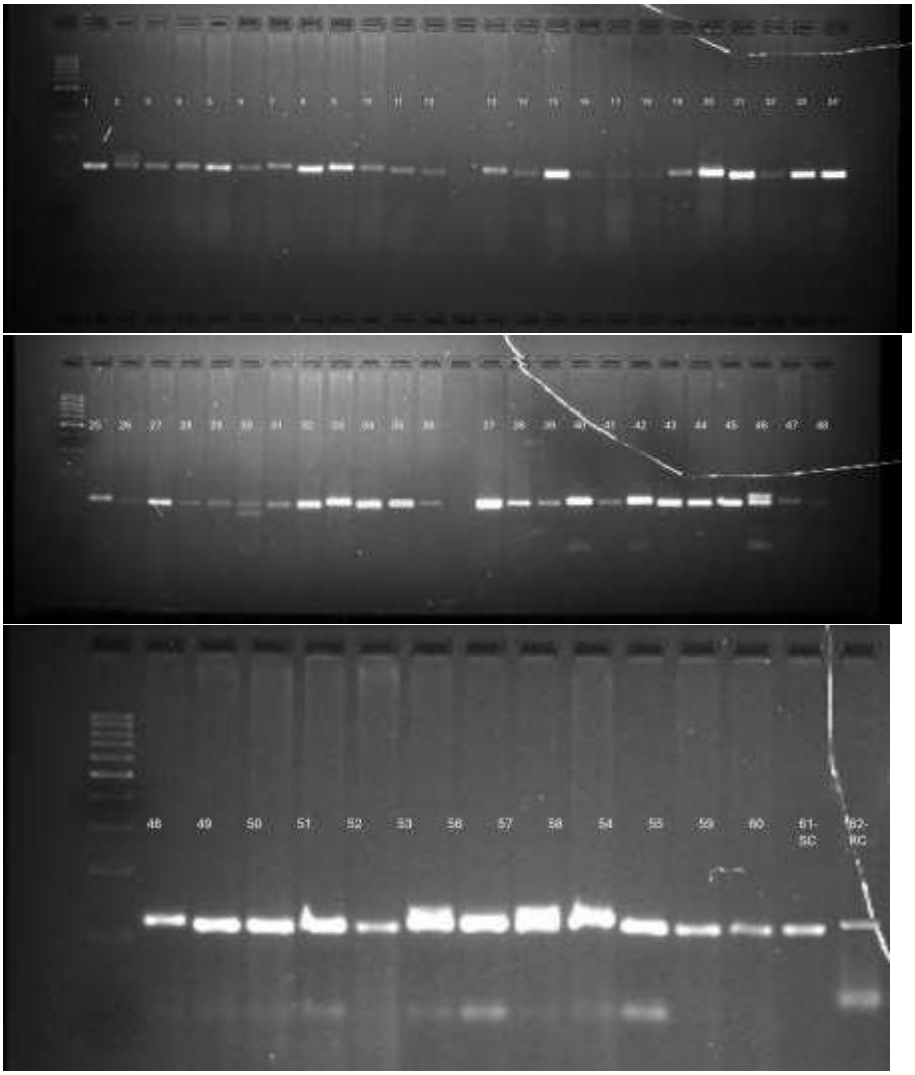
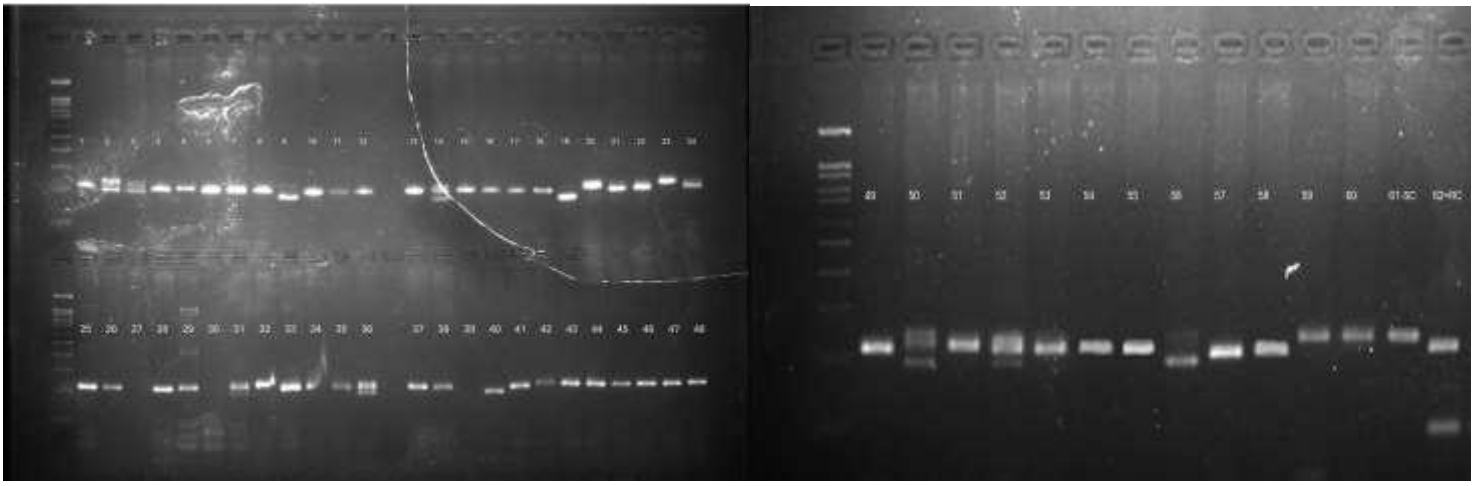
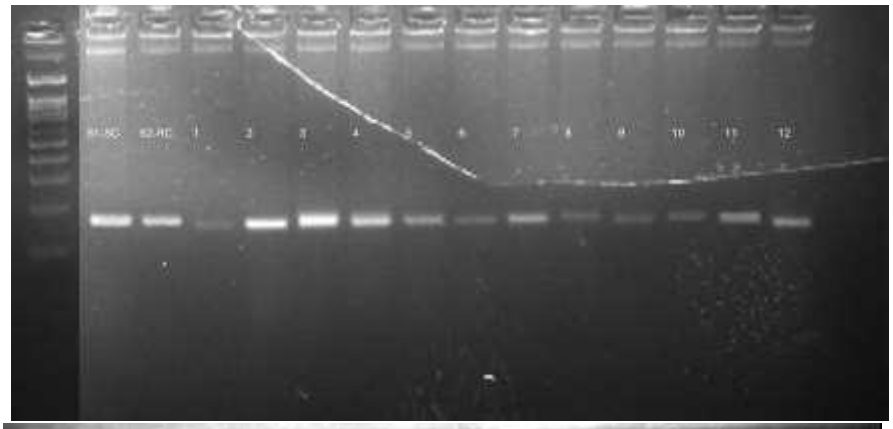
9) RM229

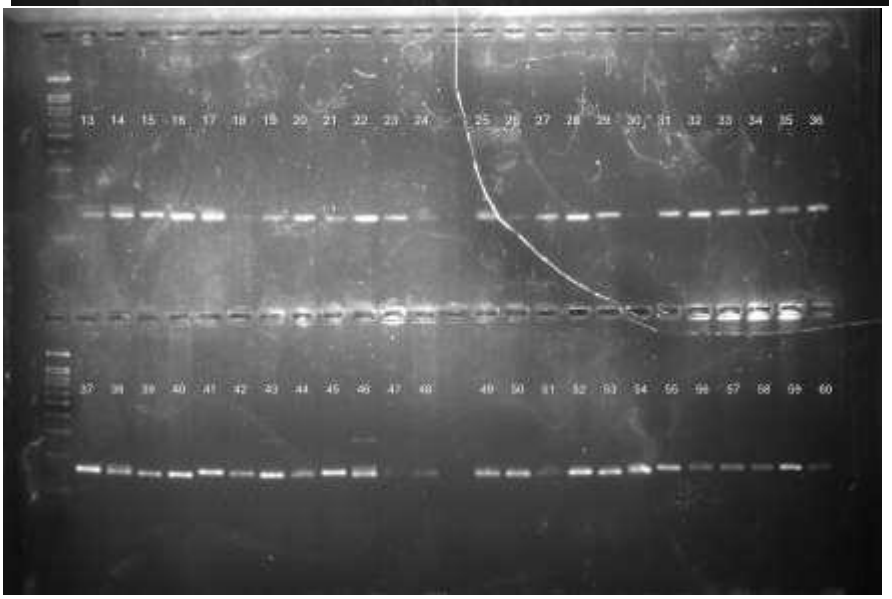


10) RM242



11) RM244





12) RM3694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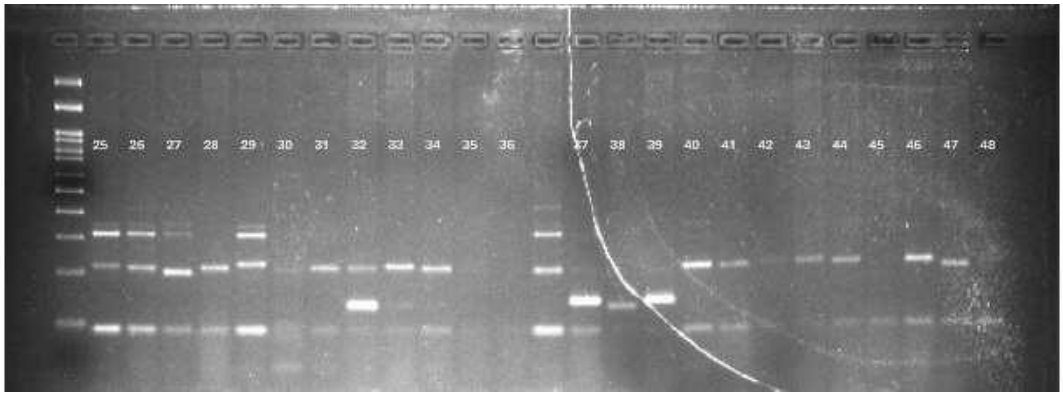
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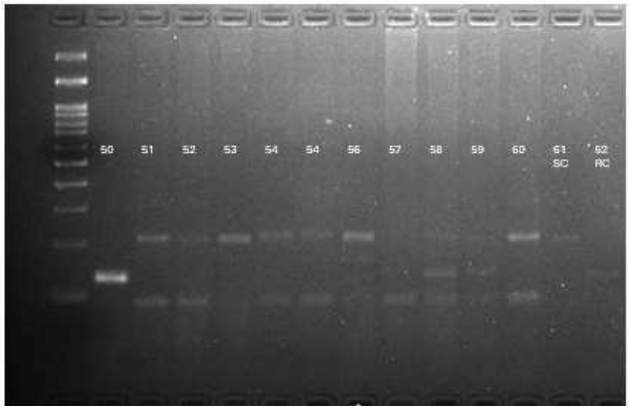
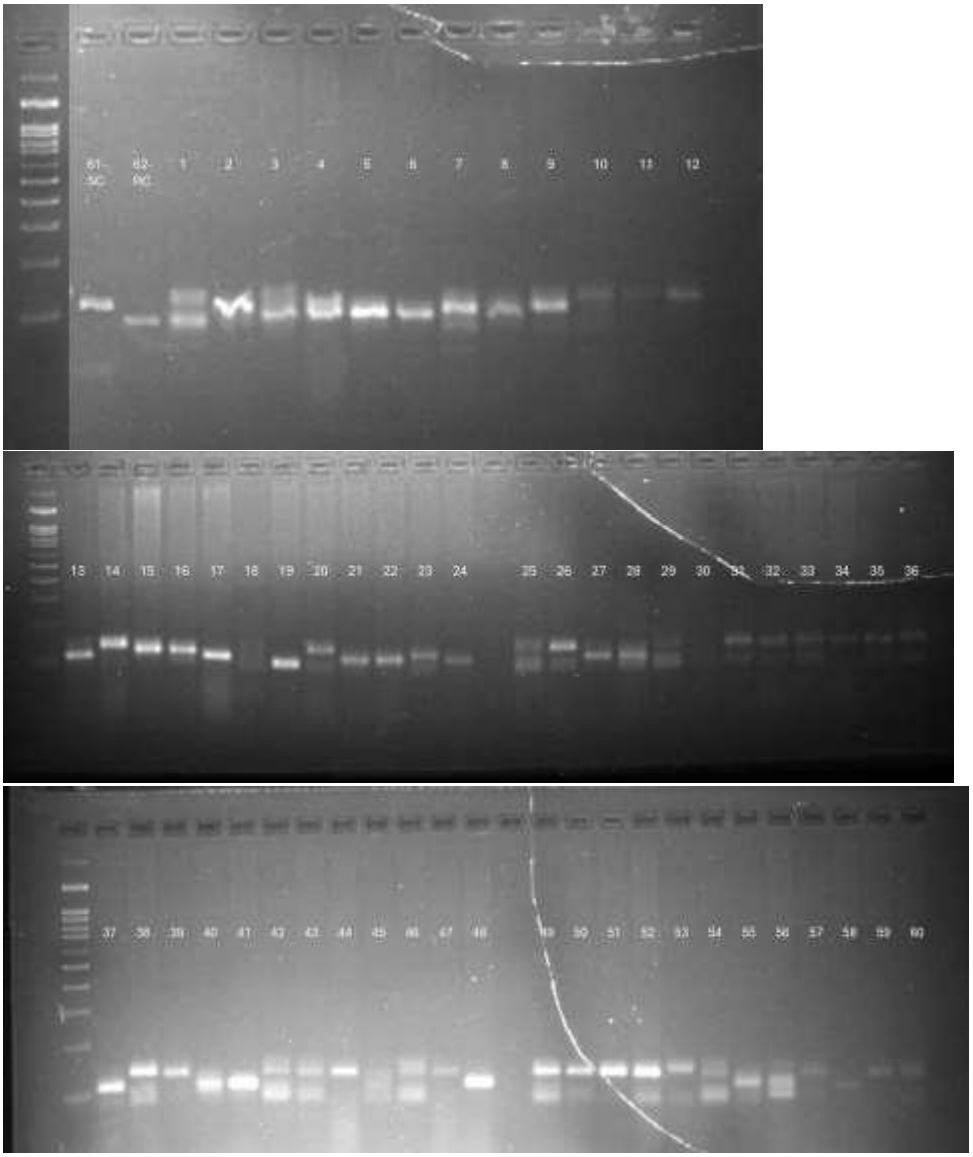
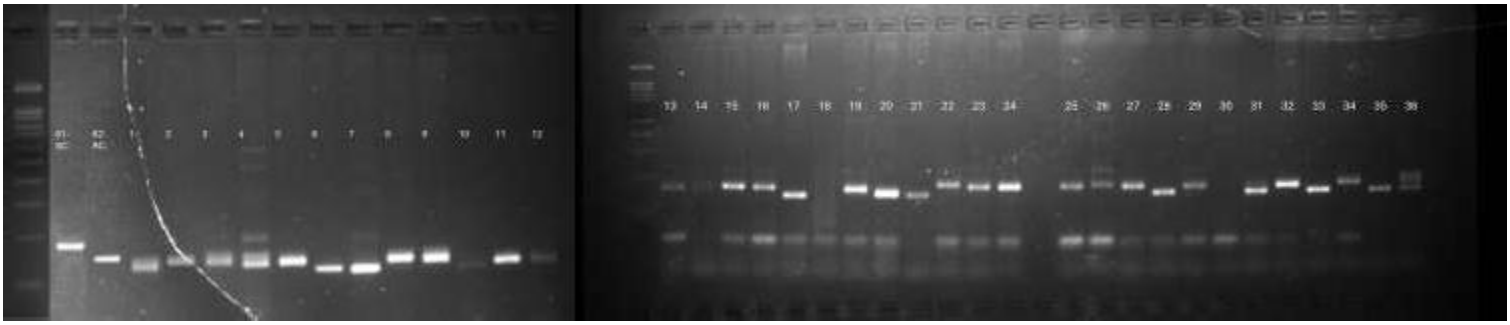
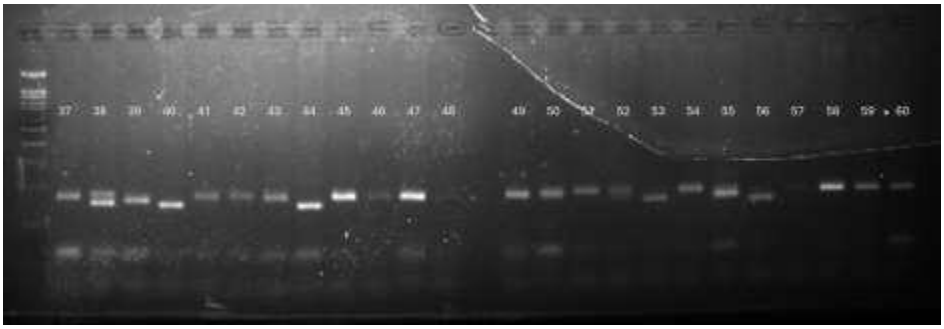

50 51 52 53 54 54 56 57 58 59 60 61 SC 62 RC

13) RM235

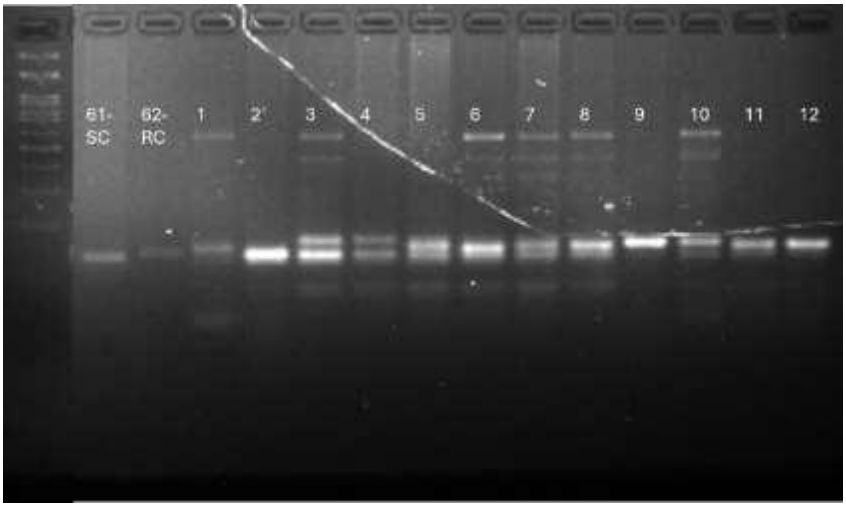


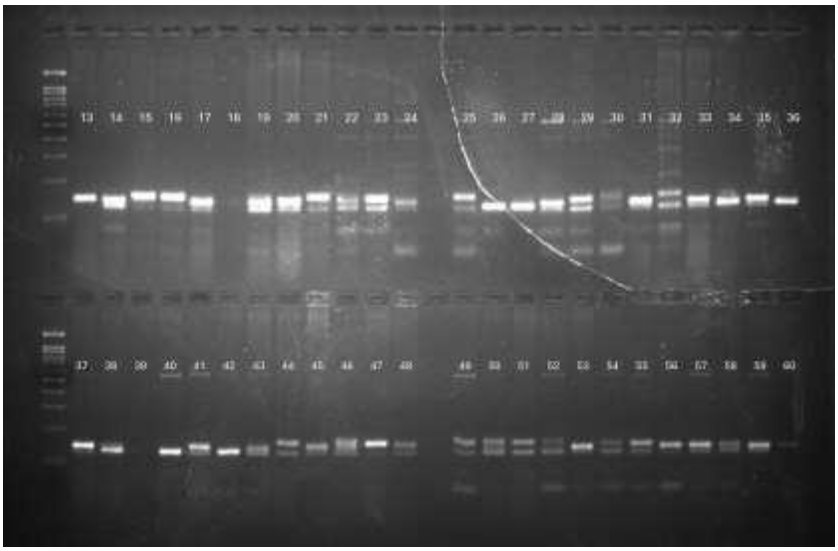
14) RM264



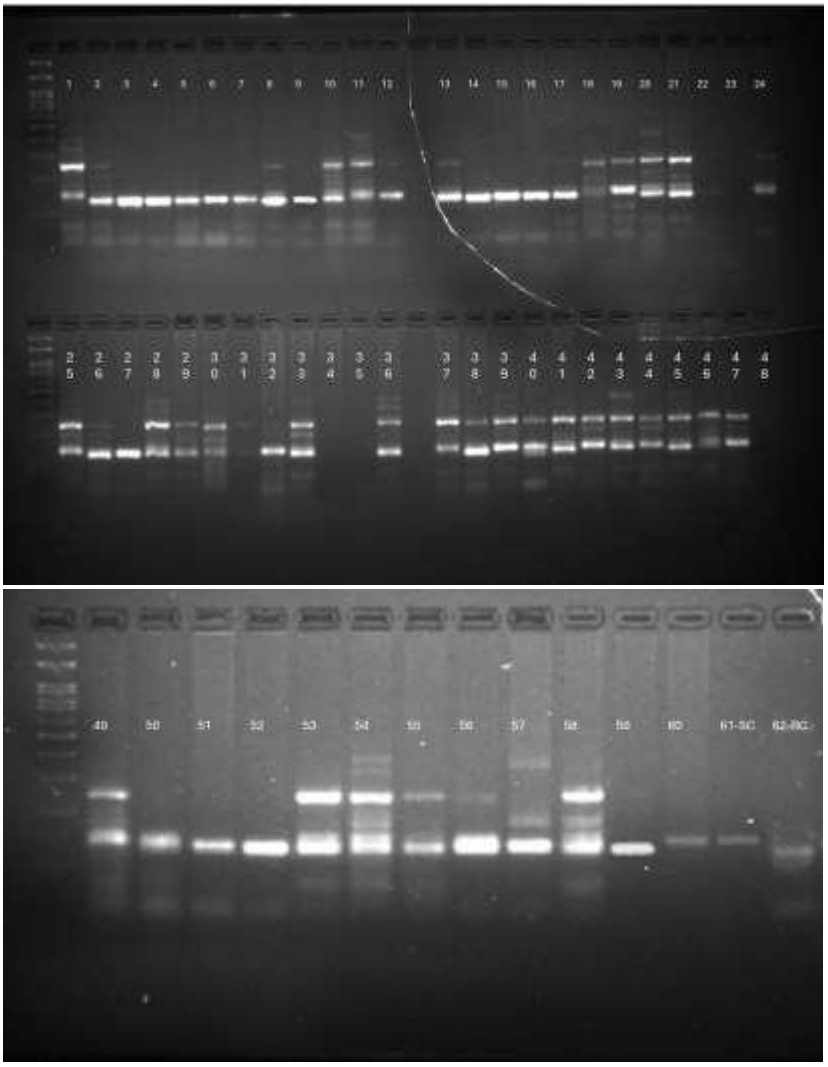


15) RM 152

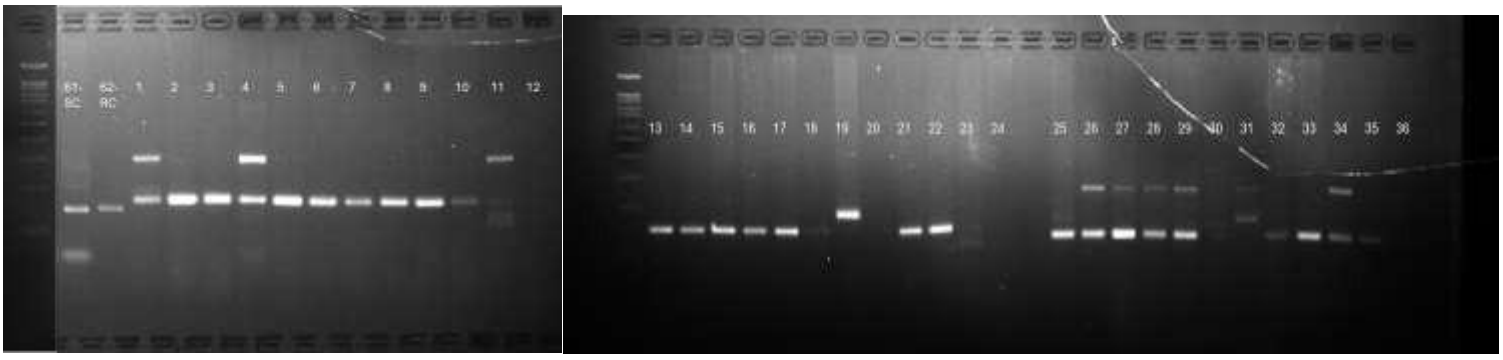


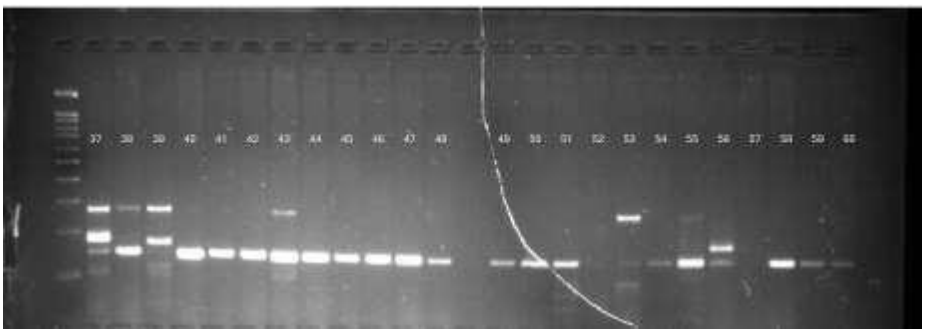


16) RM6208



17) RM339





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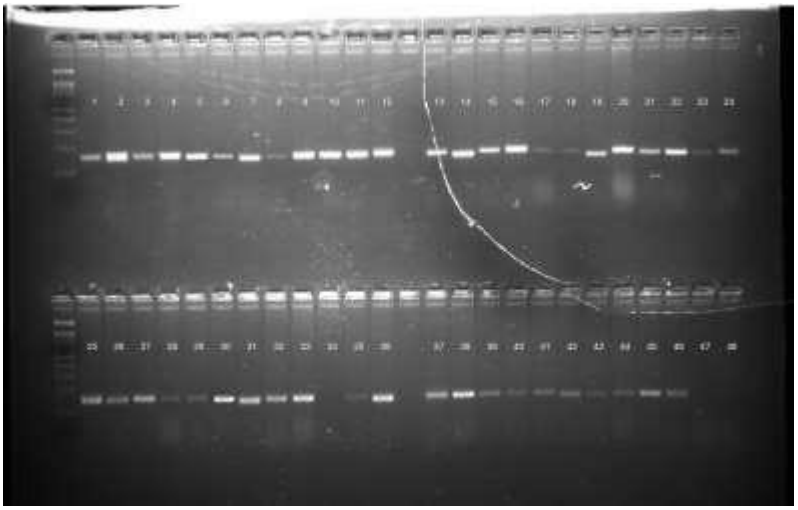
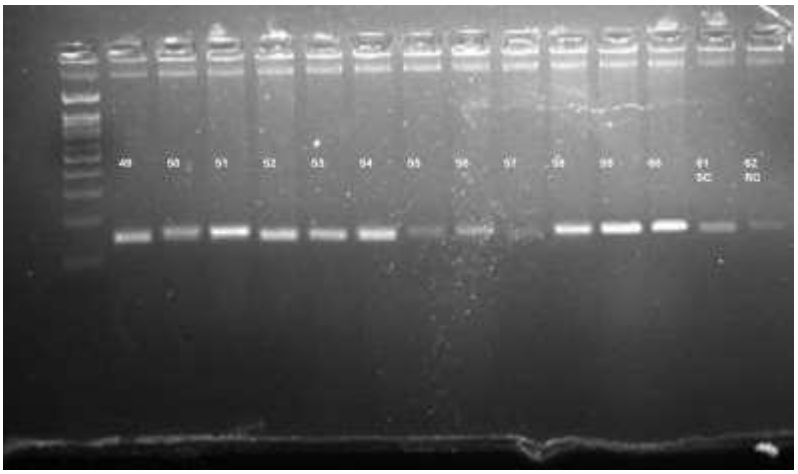
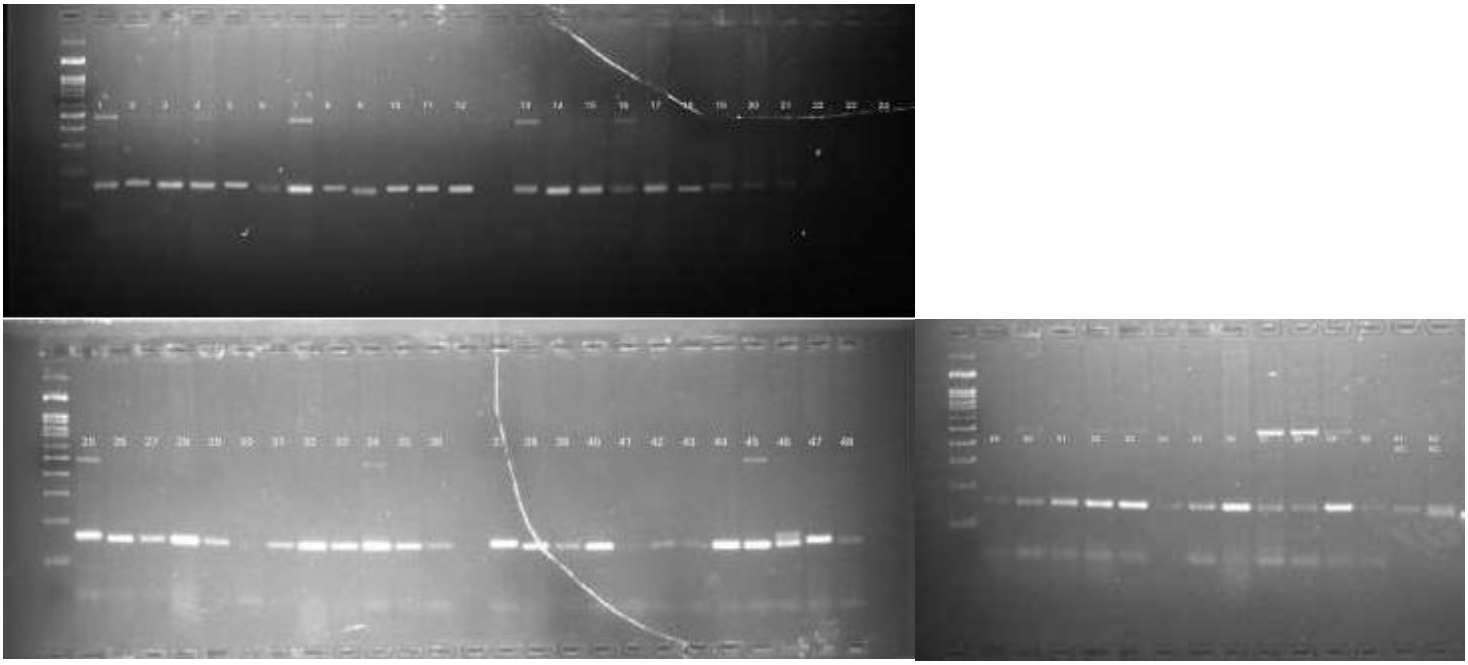
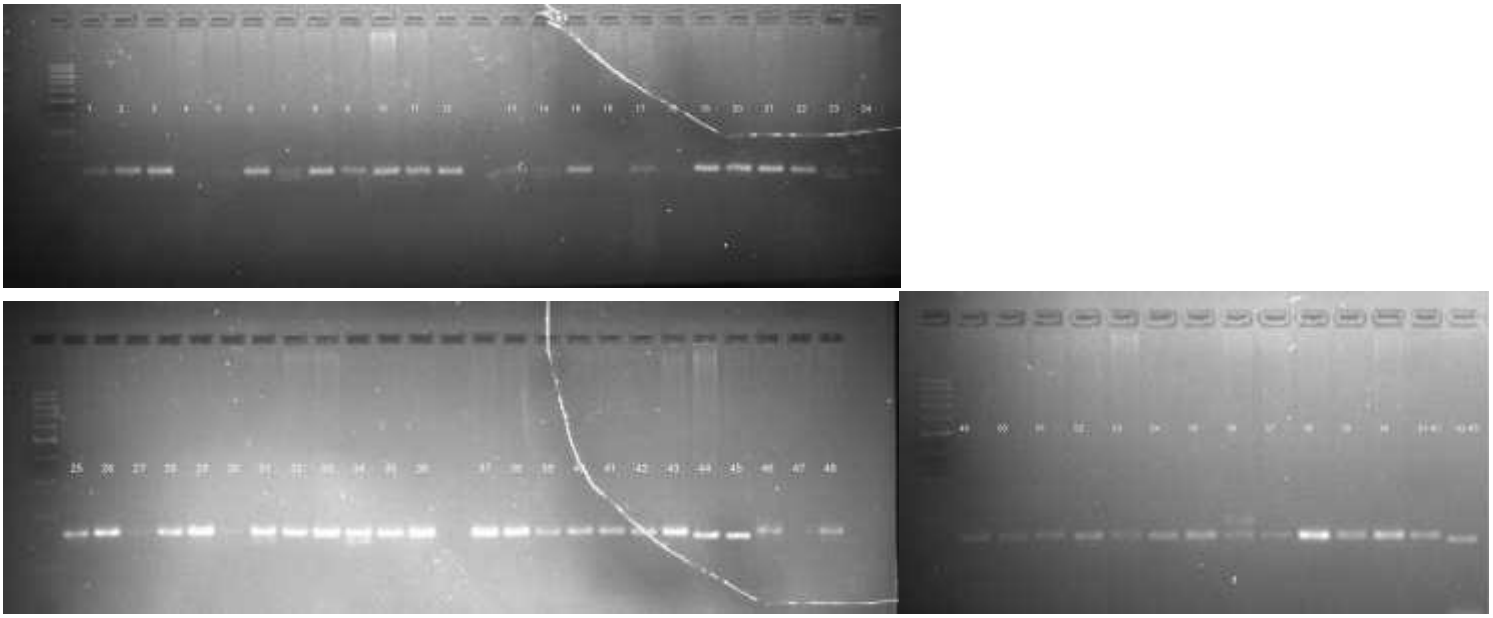




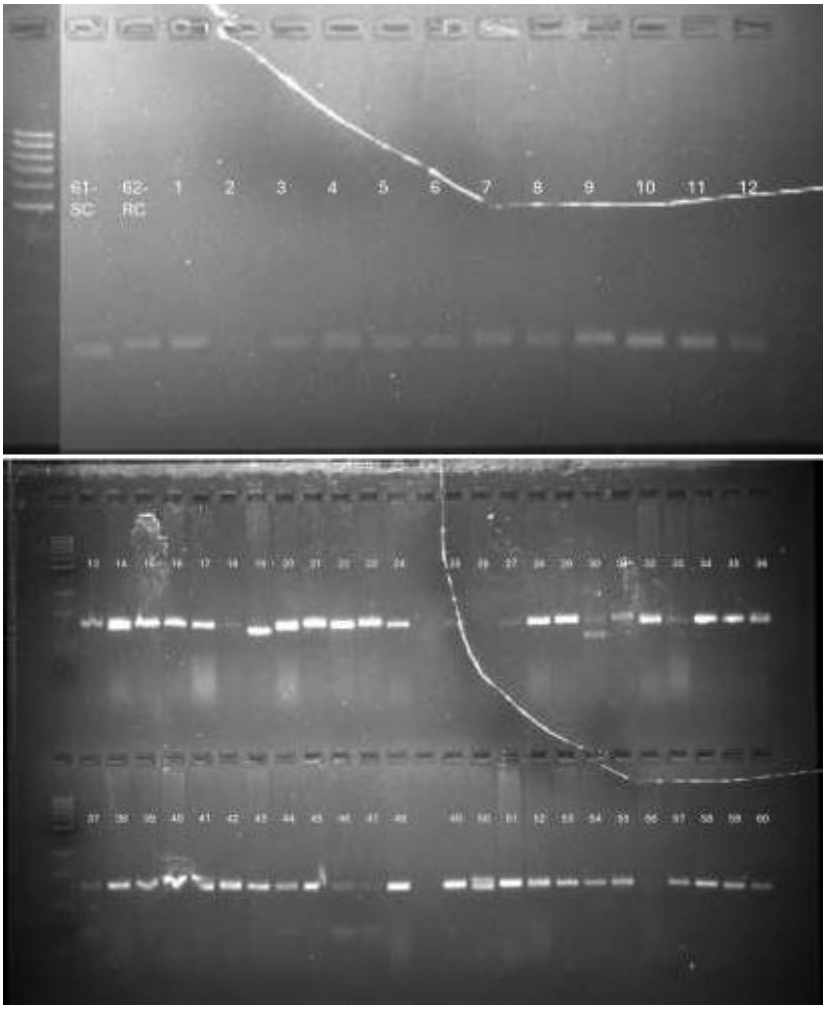
19) RM6947



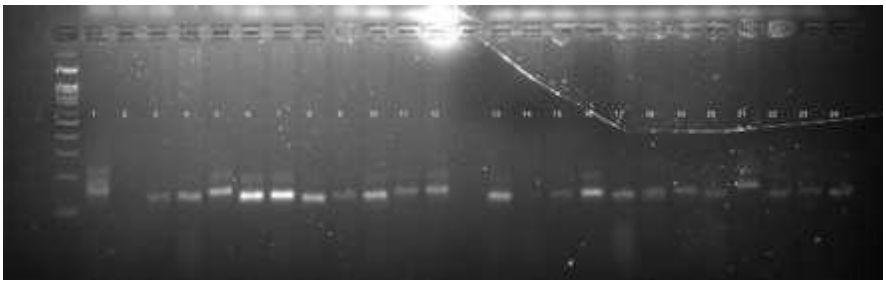
20) RM429

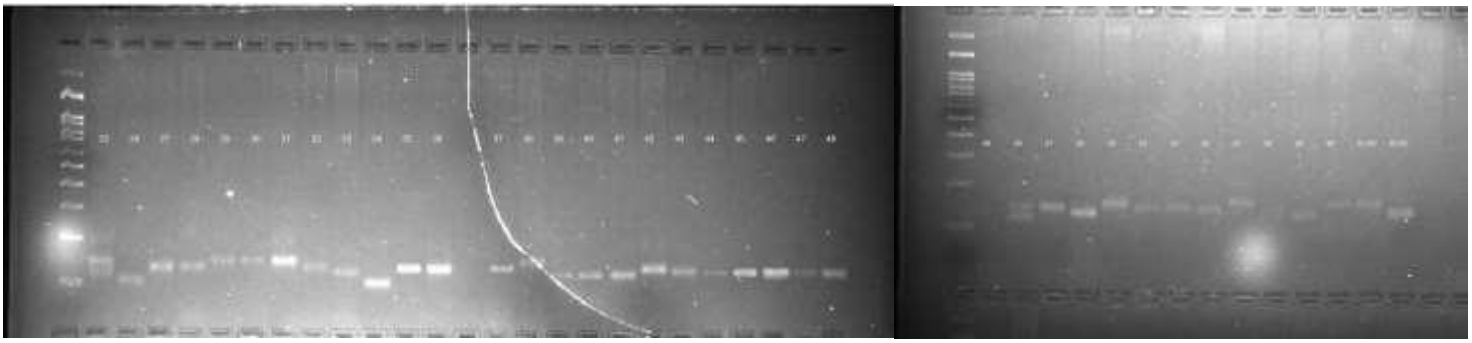


21) RM234

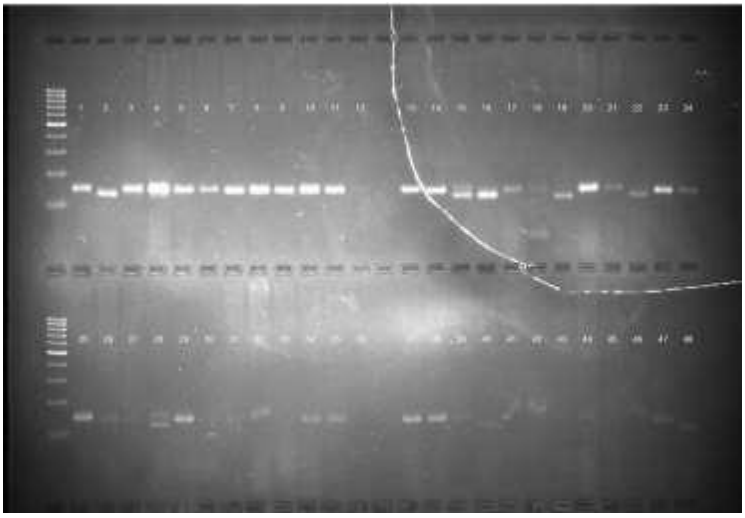


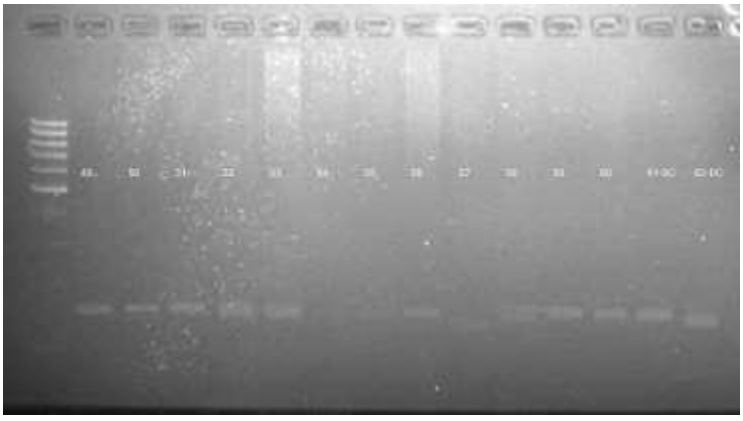
22) RM 5926





23) RM11





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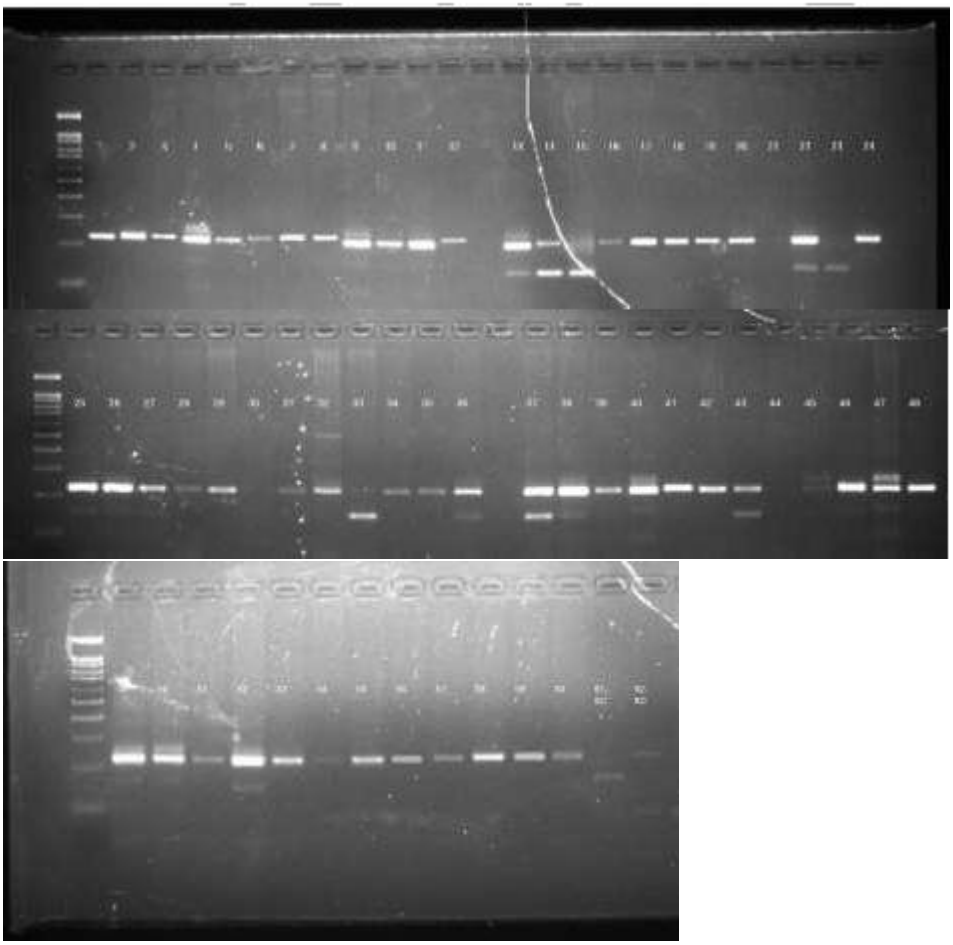

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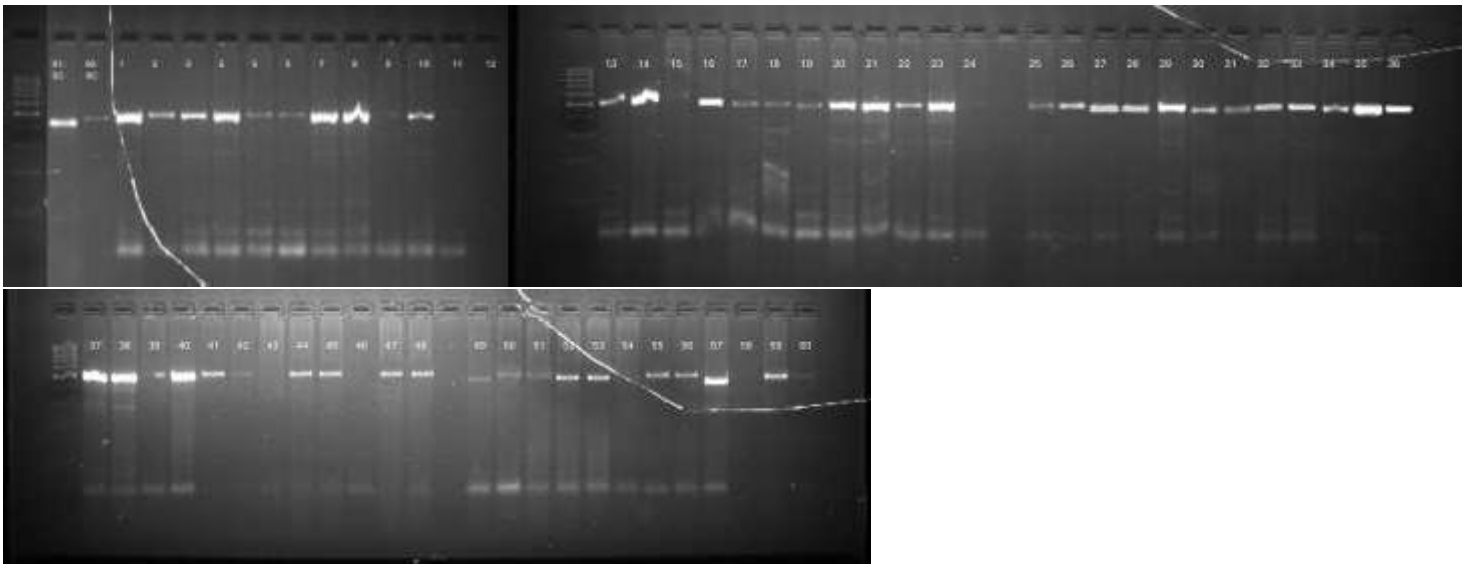

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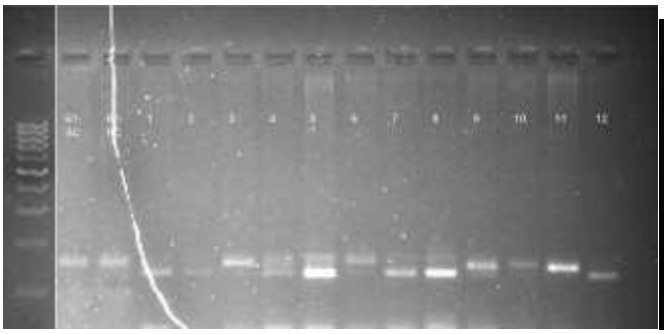
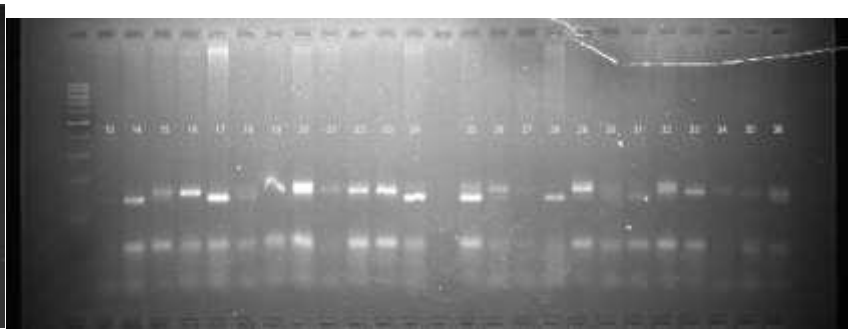
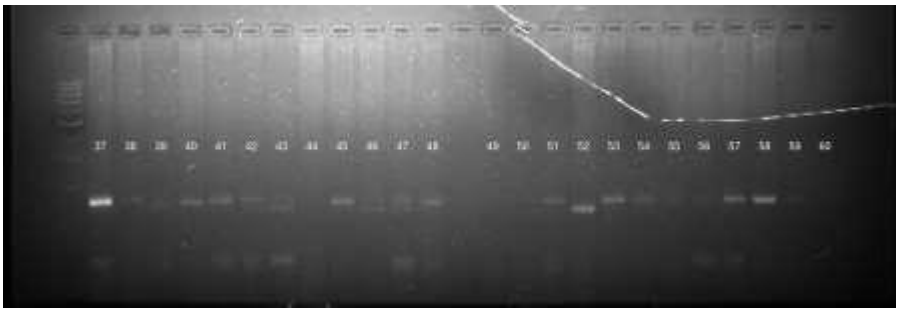
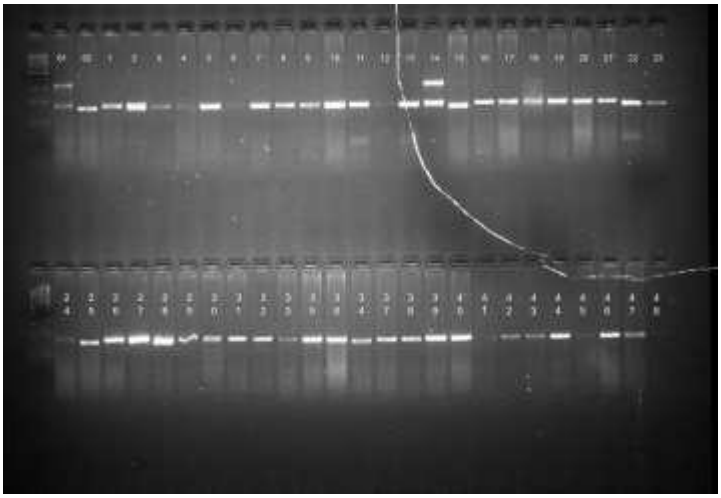
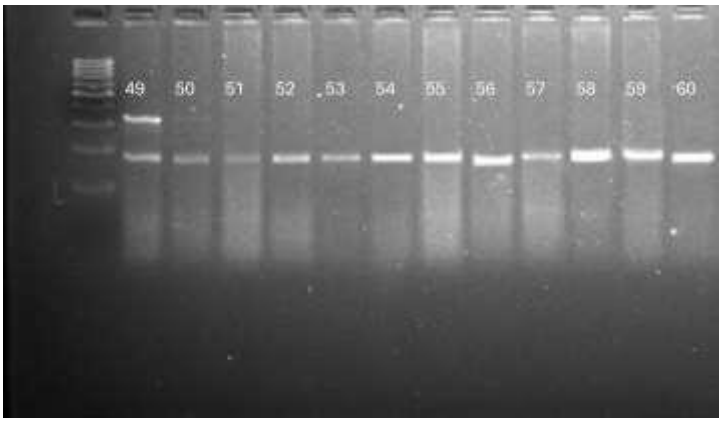




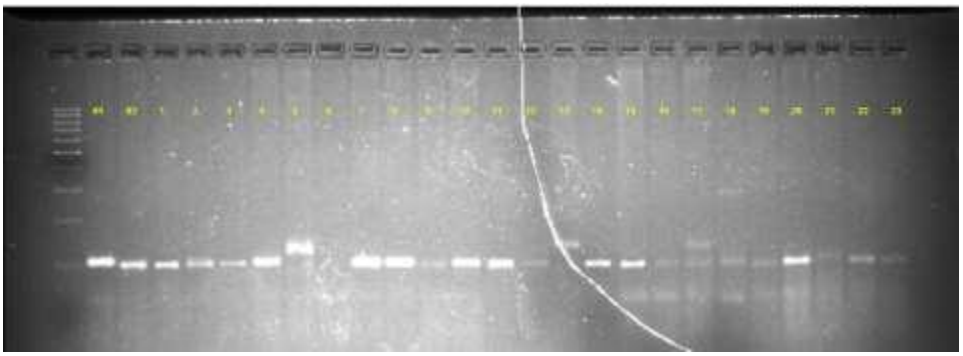


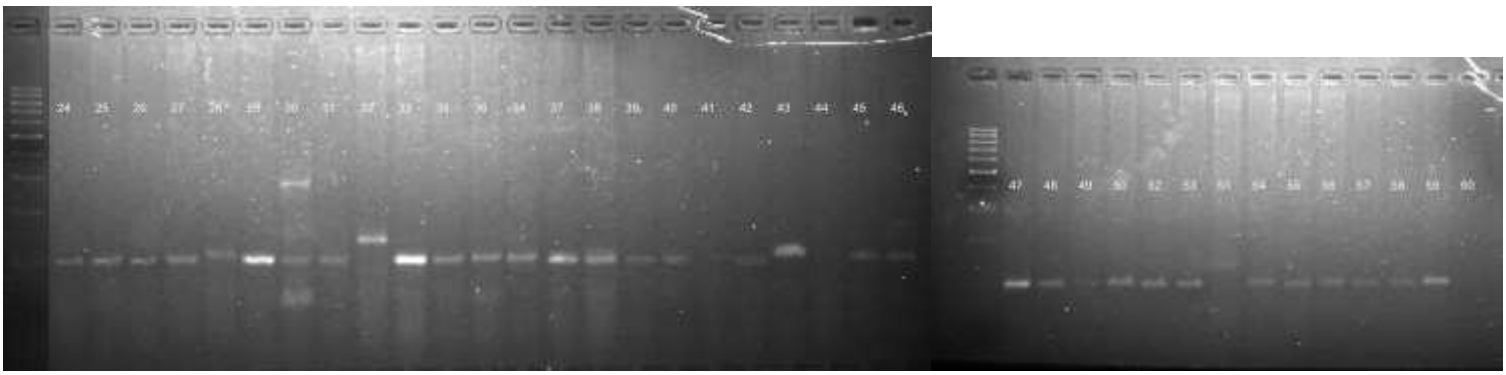
27) RM432





28) RM25292





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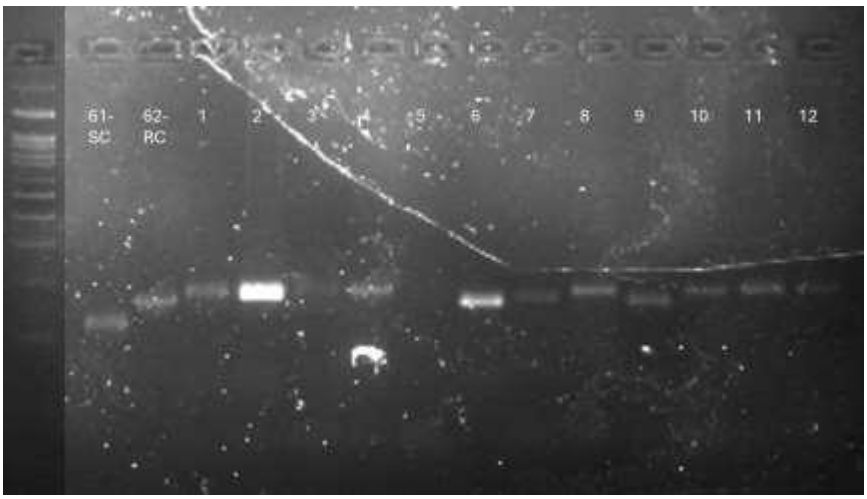

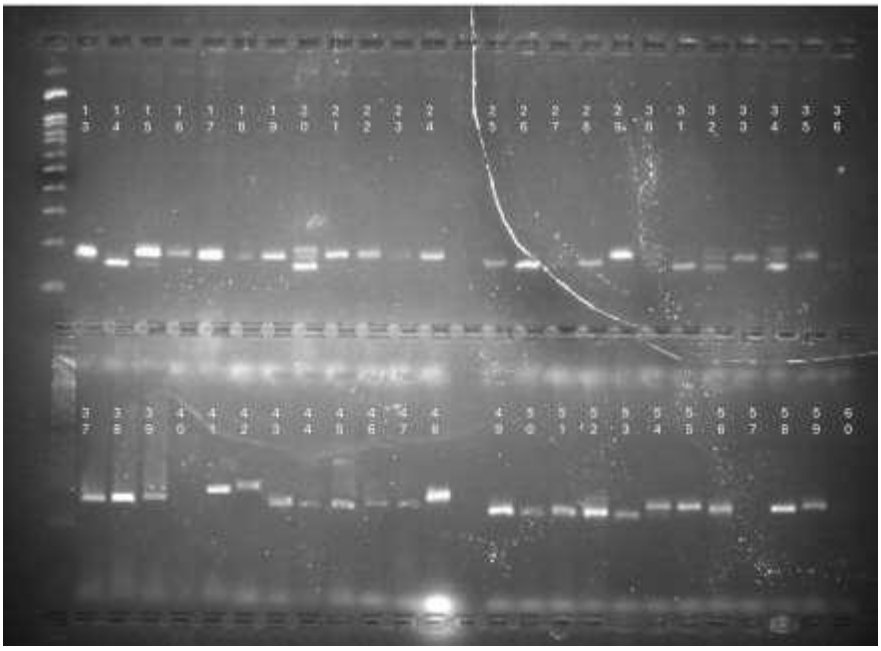

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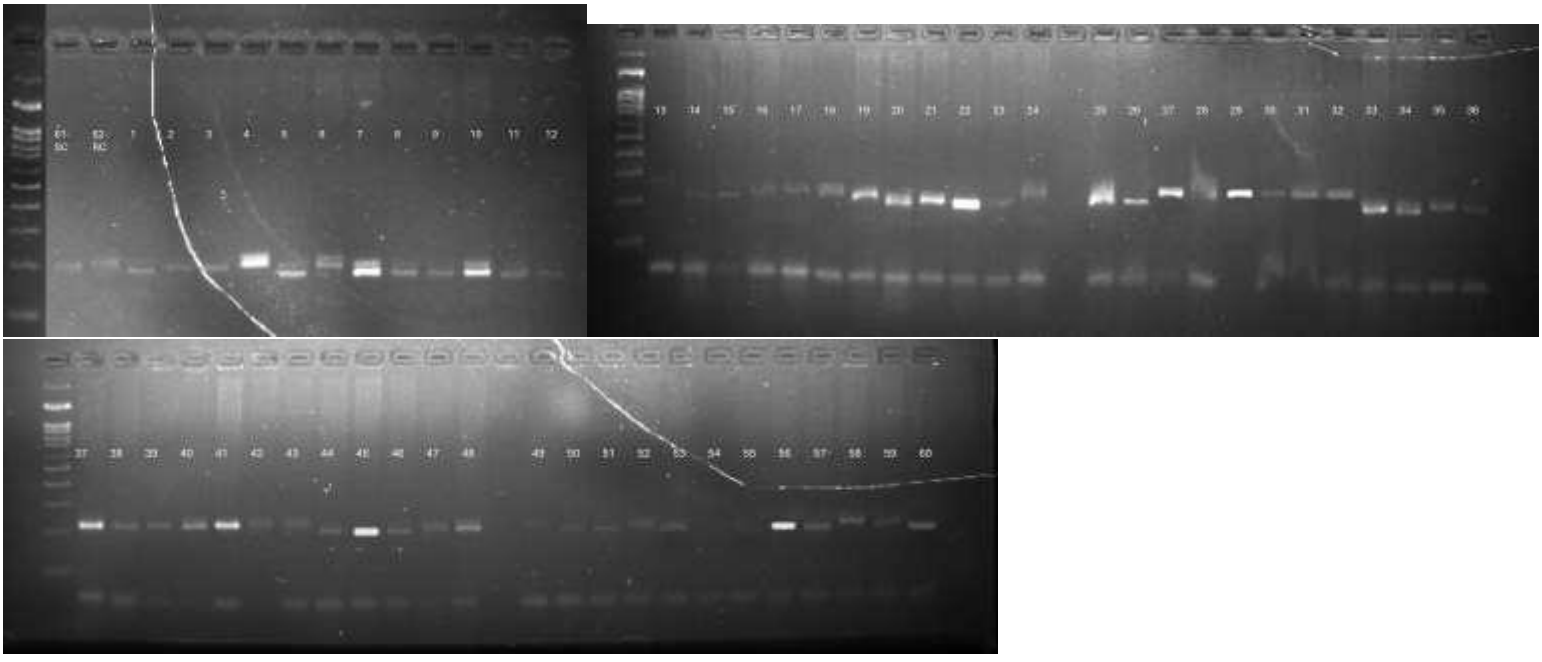
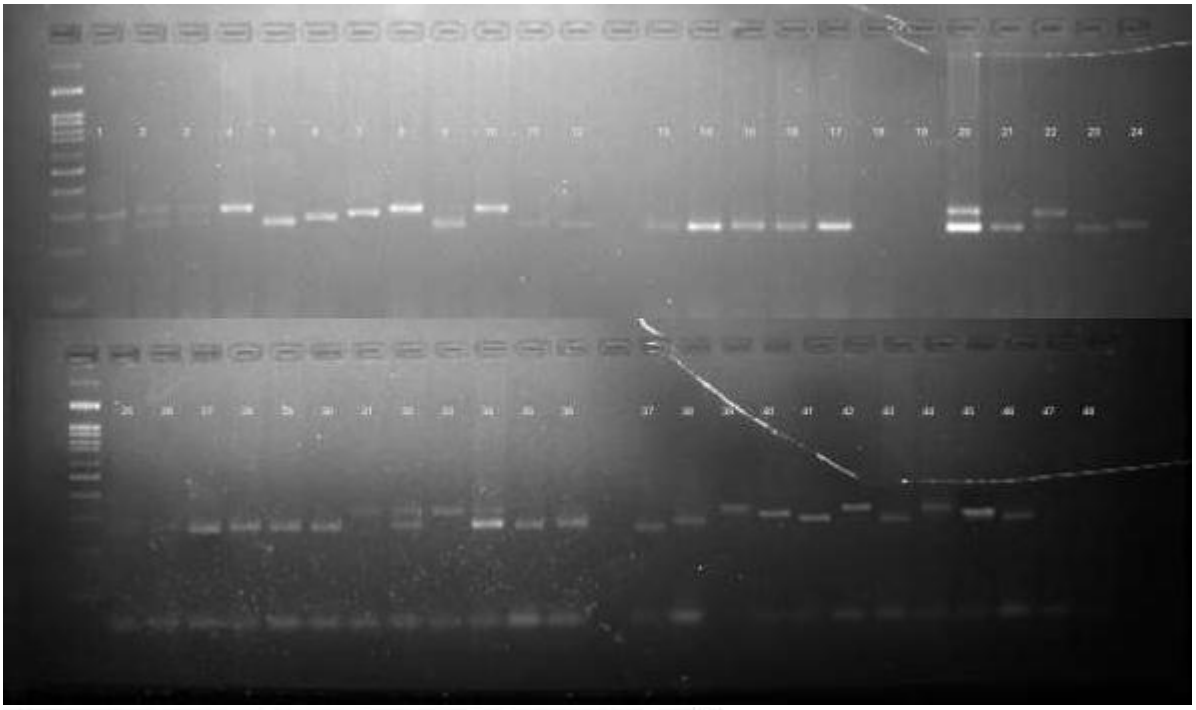
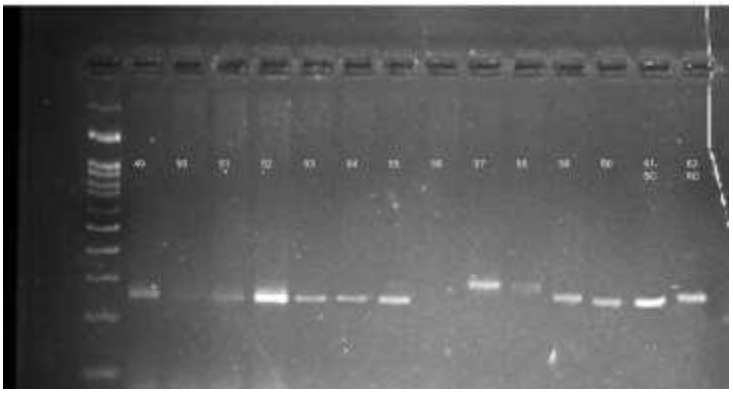
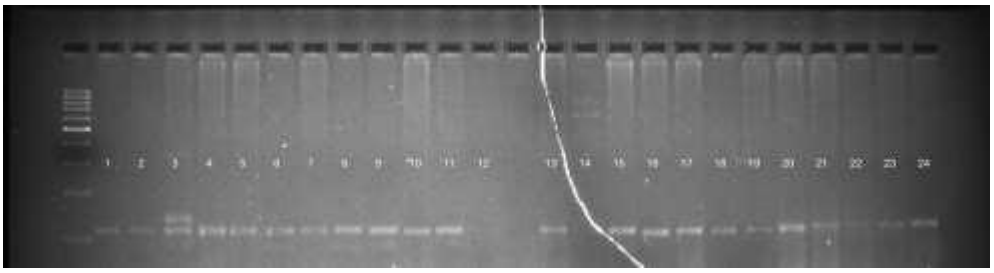


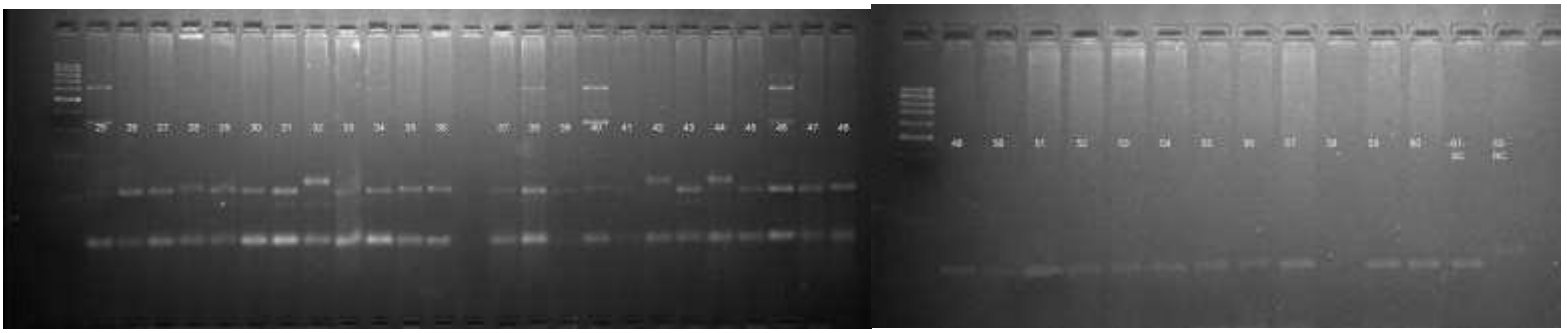
31) RM101



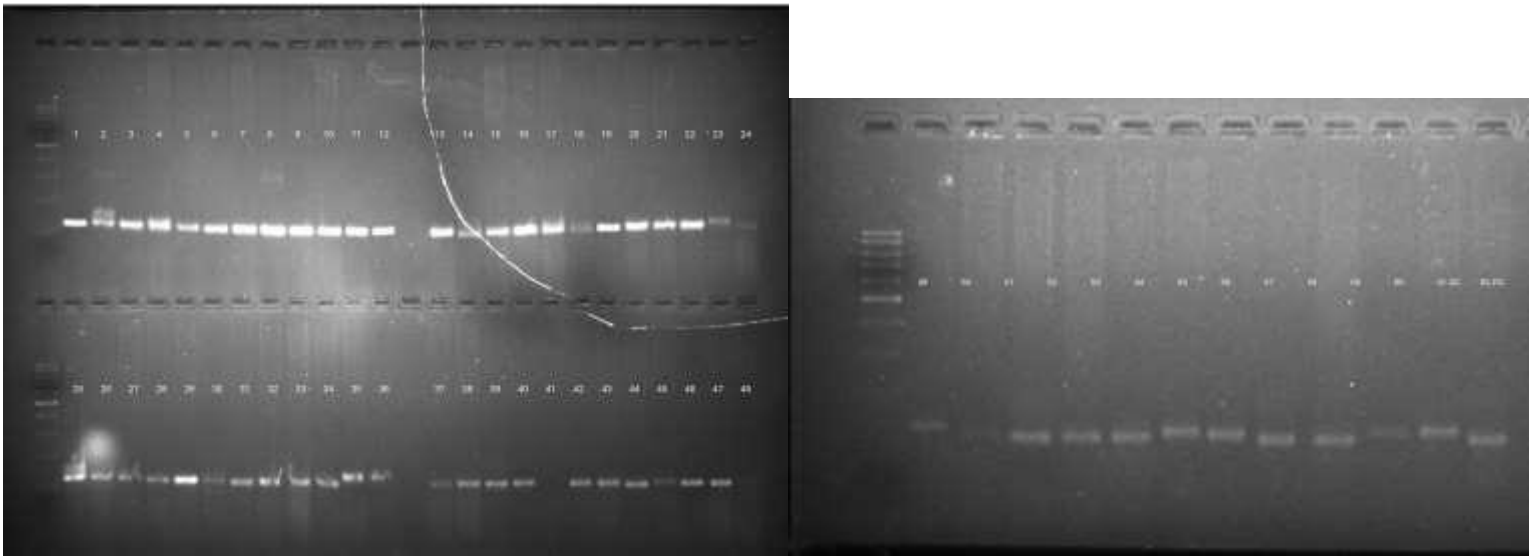


32) RM5341

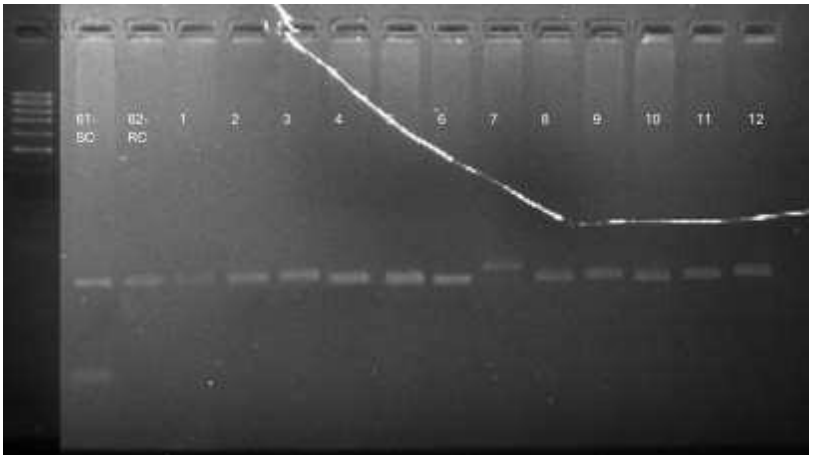


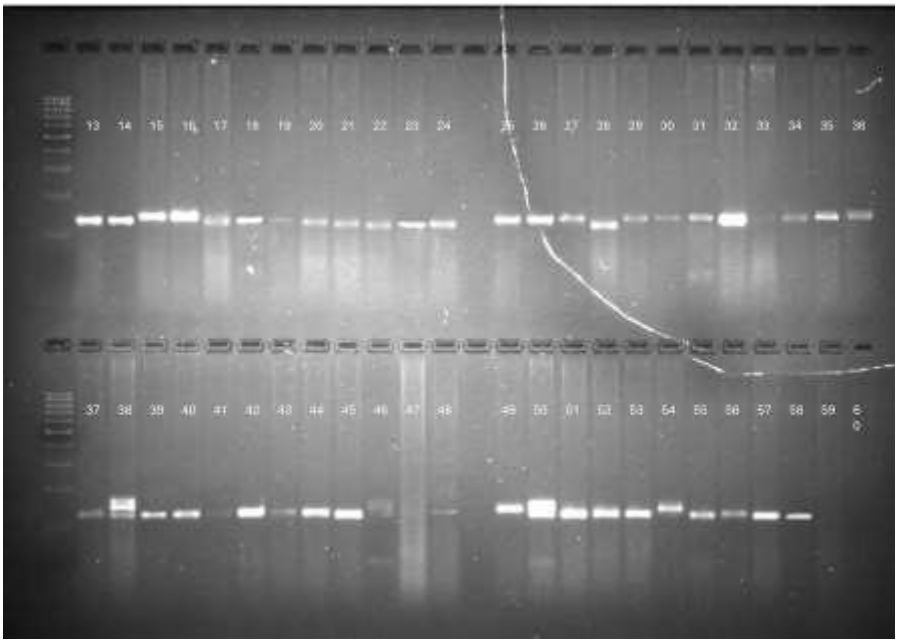


33) RM 190

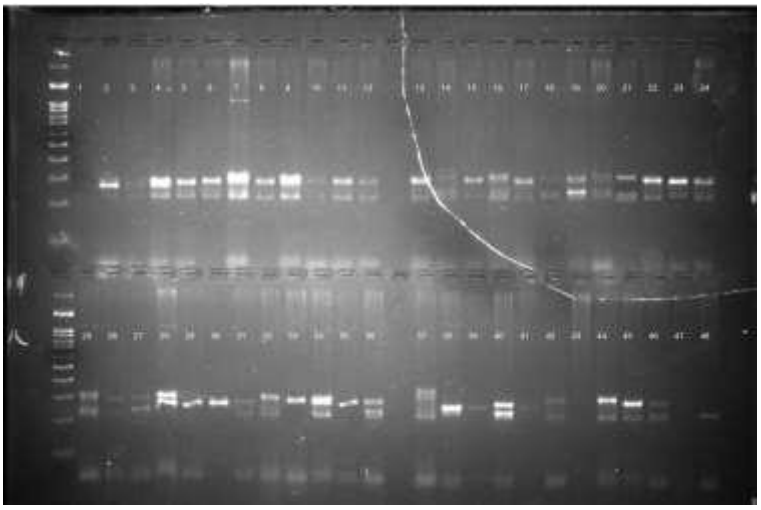


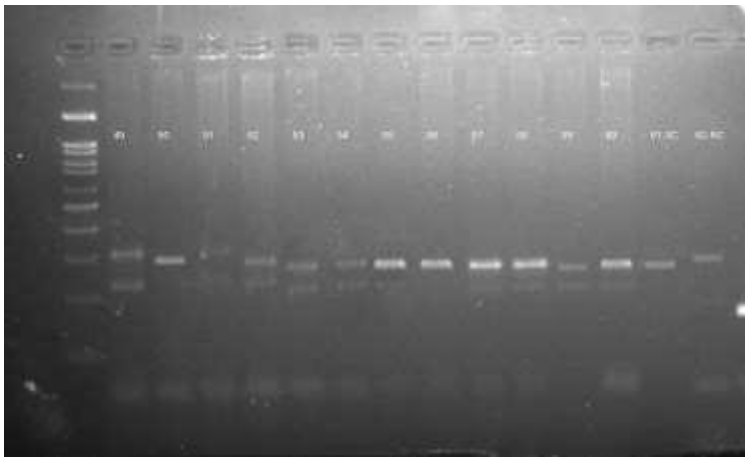
34) RM216



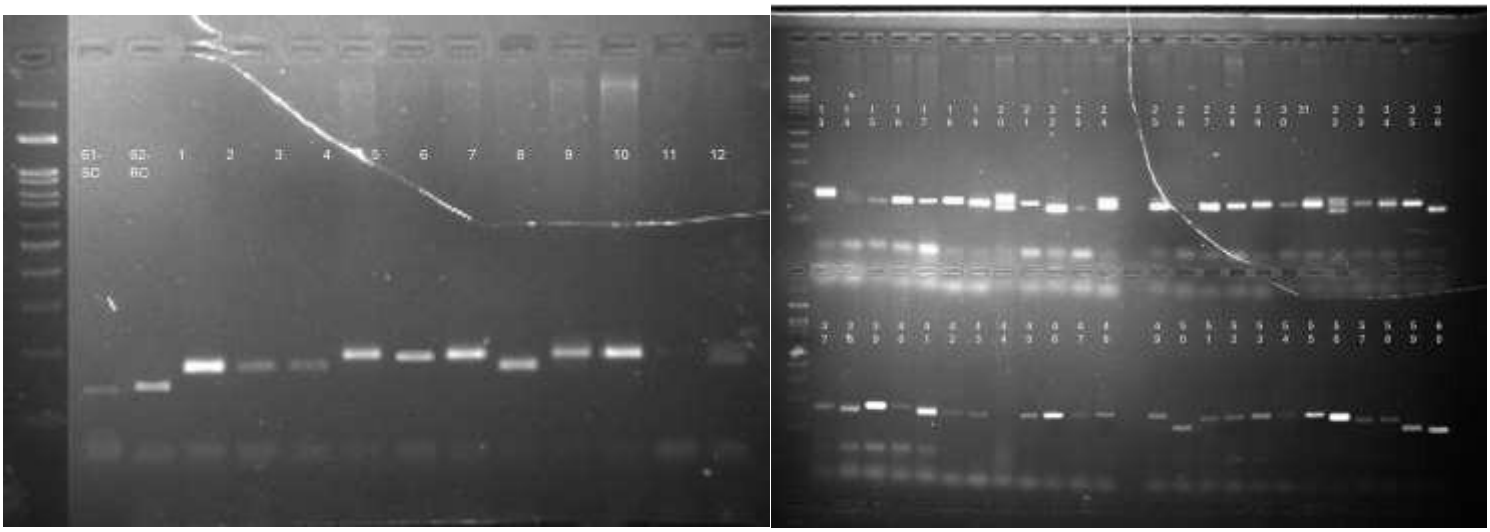


35) RM4589

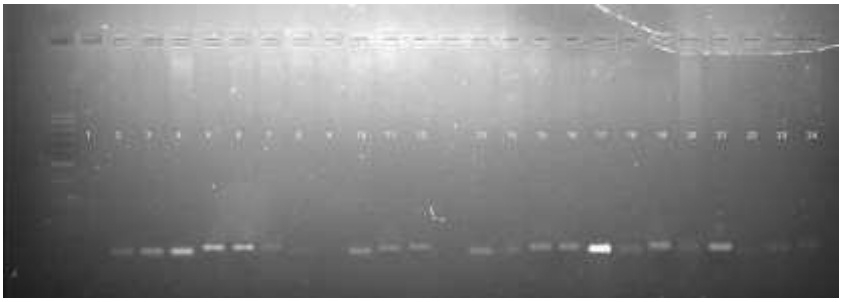


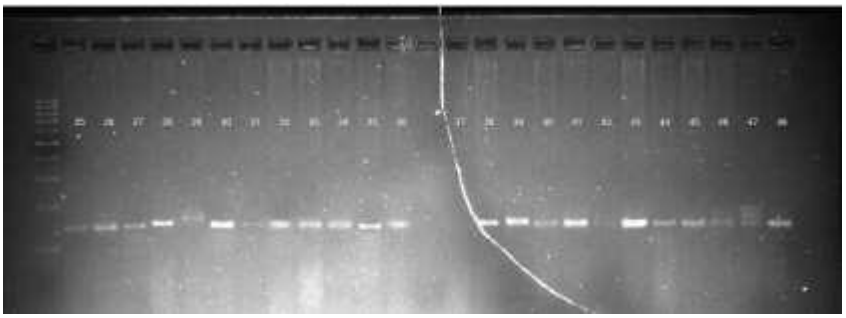


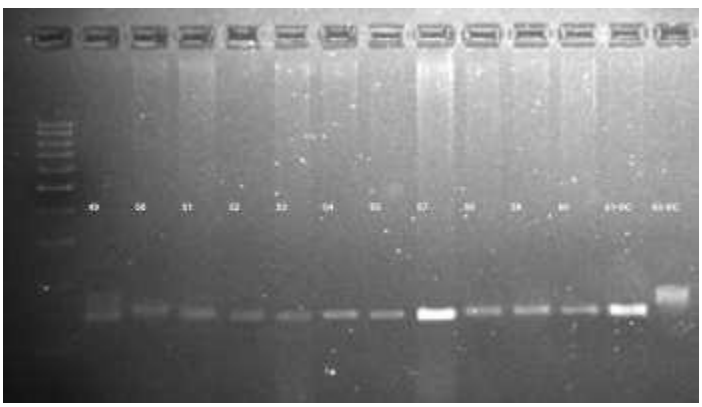
36) RM5609



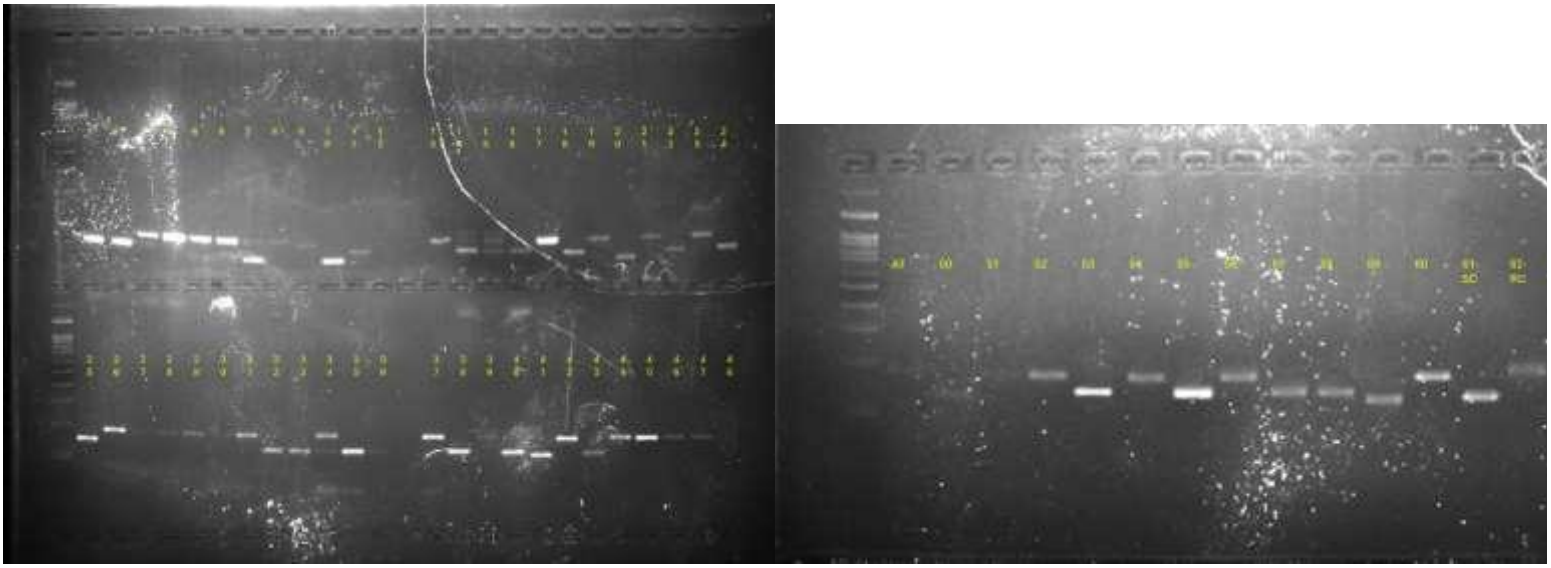
37) RM211



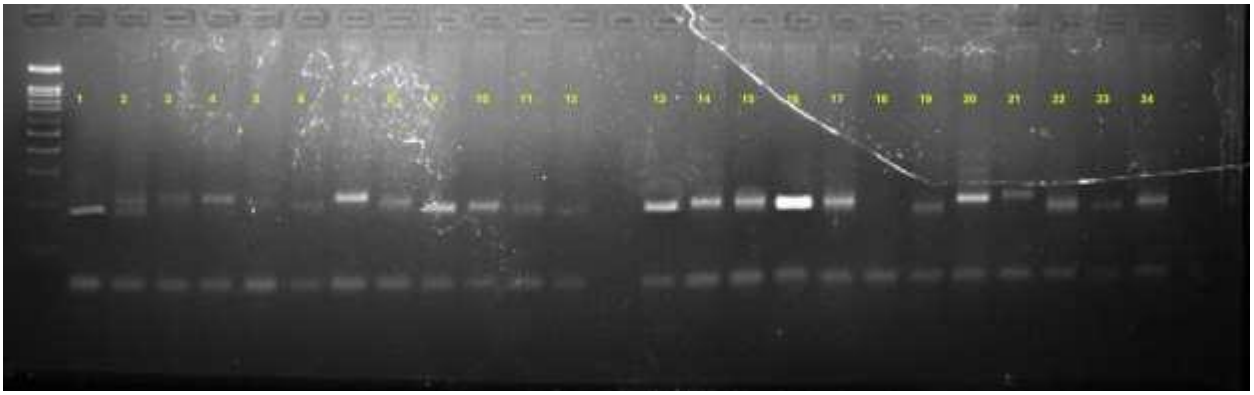


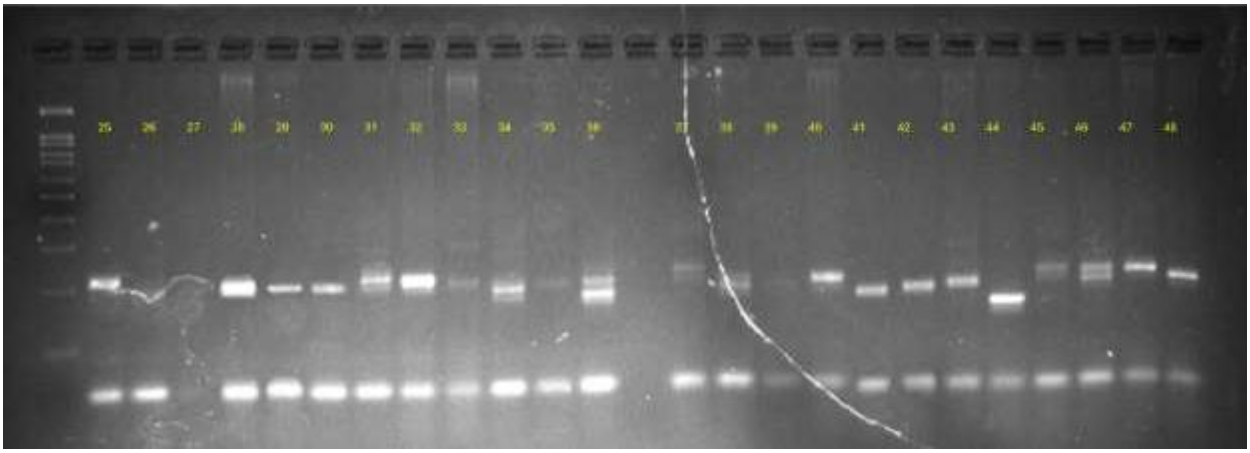


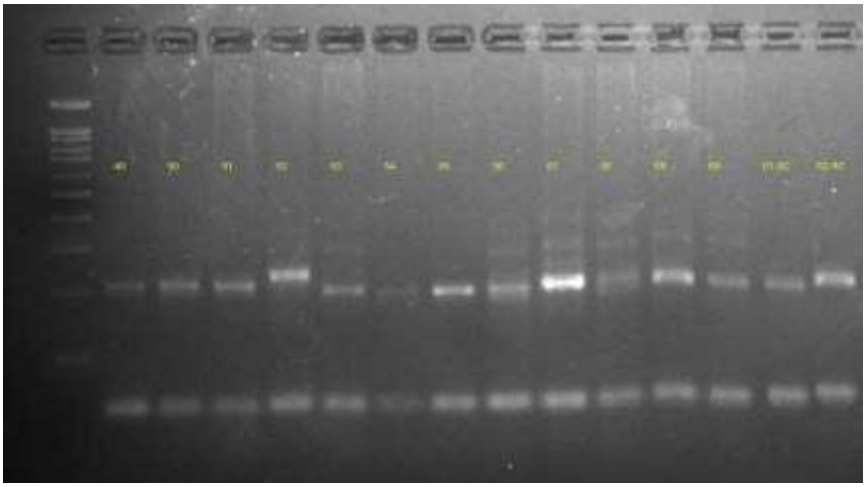
38) RM6085



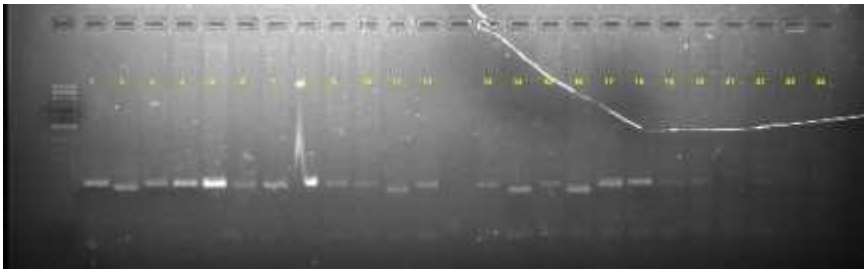
39) RM6925

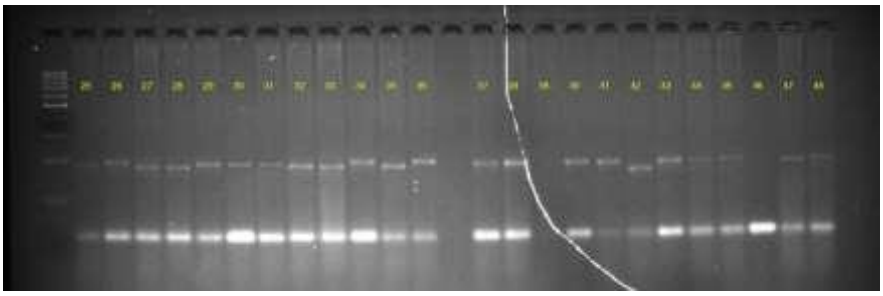


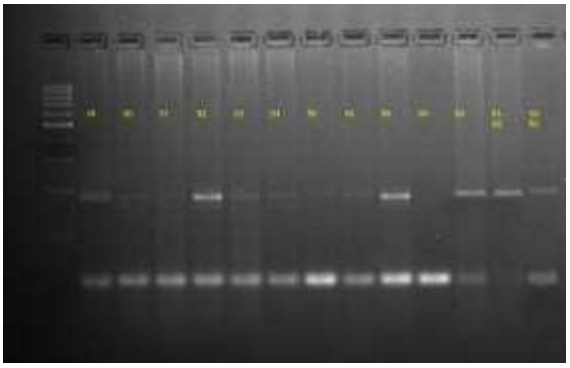




40) RM18451







41) RM263