



EC1

MS1

EC2

EC2

N

EC1

MS1

EC2

EC2

N



EC1

MS1

EC2

EC2

N

EC1

MS1

EC2

EC2

N



M EC1 MS1 EC2 EC2 N EC1 MS1 EC2 EC2 N M EC1 MS1 EC2 EC2 N EC1 MS1 EC2 EC2 N M



*hrpY*



*hrpS*



Annealing temp. 56 °C



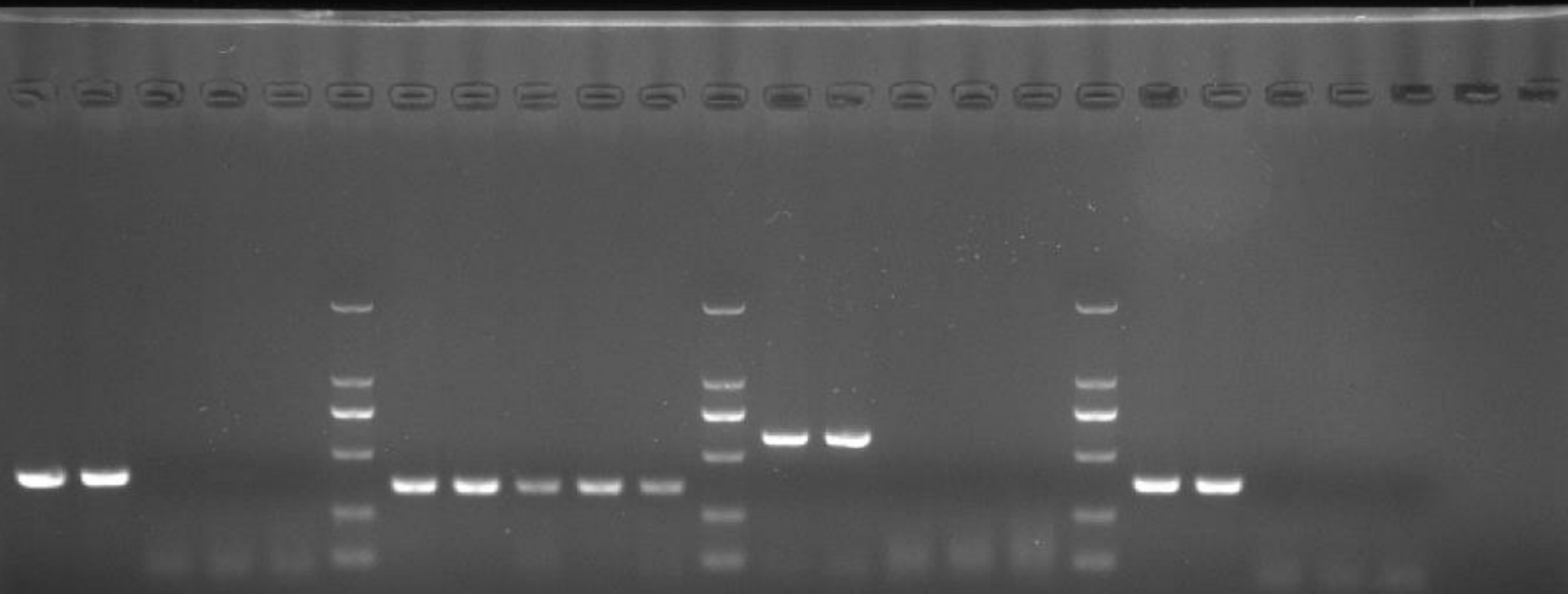
*hrpY*



*hrpS*



Annealing temp. 58 °C



EC1 MS1 EC2 EC2 N M

→

*hrpL*

M EC1 MS1 EC2 EC2 N M EC1 MS1 EC2 EC2 N

→

*virB4*

→

*virB11*

