| | Lambda/*Hin*dIII size marker | | Crime Scene | | Suspect 1 | | Suspect 2 | | Suspect 3 | | Suspect 4*** | | Suspect 5*** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band | Distance (mm) | Actual size (bp) | Distance (mm) | Approx. size (bp) | Distance (mm) | Approx. size (bp) | Distance (mm) | Approx. size (bp) | Distance (mm) | Approx. size (bp) | Distance (mm) | Approx. size (bp) | Distance (mm) | Approx. size (bp) |
| 1 | 11.0 | 23,130 | 19.0 | 3,679 | 21.0 | 2,817** | 21.0 | 2,817** | 19.0 | 3,679 | 21.0 | 2,817** | 21.0 | 2,817** |
| 2 | 13.0 | 9,416 | 20.5 | 2,817** | 23.5 | 1,191 | 25.0 | 1,700 | 20.5 | 2,817** | 29.5 | 1,093 | 24.0 | 1,986 |
| 3 | 15.0 | 6,557 | 32.0 | 820 | 30.5 | 949 | 28.5 | 1,159 | 32.0 | 820 | | | 29.5 | 1,093 |
| 4 | 18.0 | 4,361* | | | | | | | | | | | | |
| 5 | 23.0 | 2,322 | | | | | | | | | | | | |
| 6 | 24.0 | 2,027 | | | | | | | | | | | | |

*This fragment may appear faint if the markers were not heated to 65 °C. Lamba *Hin*dIII digestion also generates bands of 564 and 125 bp that are usually too faint to see on a gel.

**The measured migration distance for these bands varies depending upon the thickness of the bands. The 2,817 bp bands in plasmids S4 and S5 are especially intense because they are actually two individual bands (2,817 bp and 2,838 bp) that are too close to be visibly separated.

***S4 and S5 DNA lanes may also contain a very faint band of 468 bp.



## APPENDIX C