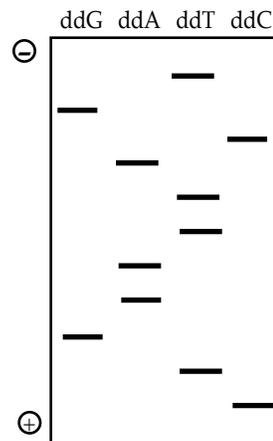


7.012 Solutions to: Applications of recombinant DNA technology



- a) 5' CTGAATTACGT 3'
- b) No, TA6's DNA sequence for gene K is different than that found on the note.
- c) See above
- d) TA1 and TA5. Their DNA samples at the gene L locus do not match the sample found on the bag.
- e) The strategy is as follows:
 You design the following two primers to PCR amplify position Z.



- f) i) 1: TA2
 2: TA5
 3: TA1
 4: TA3 or TA6
 5: TA4
 6: TA3 or TA6
- ii) Chia must have committed this crime. Only TA6 and TA3 match the sample taken from the note. TA6 is no longer a suspect due to part a.