Fig. 26-4. The essential elements for P4 replication. Panel C. The minimal *ori1* sequence and the two direct repeats of *crr* are reported. The type I iterons are boxed. The arrows indicate the orientation and the number above the arrow the position of the first base of each iteron, respective to the first iteron from the left. For *ori2*, the sequence of the minimal 22 bp region is reported. Above the sequence, the five base substitution that inactivate *ori2* (D. Ghisotti, unpublished).

C

```
ori1                1          11          22                  42                                                  87          97
     AGCCCATCAACGGGTGAACAGTGGTGAACAGACGGTGAACAGTCATTACTGCGATTGTTCACCCTTTAACTTACTGTATTACTTATCTTTTTTATTAAGGTGAACAGAGGTGAACAGTAAAATA
9298 --+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+- 9421
     TCGGGTAGTTGCCCACTTGTCACCACTTGTCTGCCACTTGTCAGTAATGACGCTAACAAGTGGGAAATTGAATGACATAATGAATAGAAAAAATAATTCCACTTGTCTCCACTTGTCATTTTAT

crr-box1                1         10                                                  55         66      73          85
     AAAAAAGTTTTTTTTGATTTGATTGTTCACACTGTTCACCTTTCGTTTTTCTCTTTTAATTTCAGTGTGATAACGGGTGAATATACGGTGAAGGGTGAACAGTGGATTGTTCACCTTCGG
4471 ---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+ 4590
     TTTTTTCAAAAAAAACTAAACTAACAAGTGTGACAAGTGGAAAGCAAAAAGAGAAAATTAAAGTCACACTATTGCCCACTTATATGCCACTTCCCACTTGTCACCTAACAAGTGGAAGCC

crr-box2                1         10                                                  55         66      73          85
     AAAAAATTTTTTTTCGAAAGAACTGTTCACACTGTTCACCTTTCTGTTTTCTCCTTTTATTTCAGAGTGATAGGTGGTGAATAATGGGTGAAGGGTGAACATTCGATTCTTCACCTCCGG
4291 ---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+ 4410
     TTTTTTAAAAAAAAGCTTTCTTGACAAGTGTGACAAGTGGAAAGACAAAAGAGGAAAATAAAGTCTCACTATCCACCACTTATTACCCACTTCCCACTTGTAAGCTAAGAAGTGGAGGCC

ori2   C A GAA
     GCAAGGCTGGCCAGAGAAAGGA
6234 ------+---------+---- 6254
     CGTTCCGACCGGTCTCTTTCCT
```

Fig. 26-4. The essential elements for P4 replication. Panel C. The minimal *ori1* sequence and the two direct repeats of *crr* are reported. The type I iterons are boxed. The arrows indicate the orientation and the number above the arrow the position of the first base of each iteron, respective to the first iteron from the left. For *ori2*, the sequence of the minimal 22 bp region is reported. Above the sequence, the five base substitution that inactivate *ori2* (D. Ghisotti, unpublished).