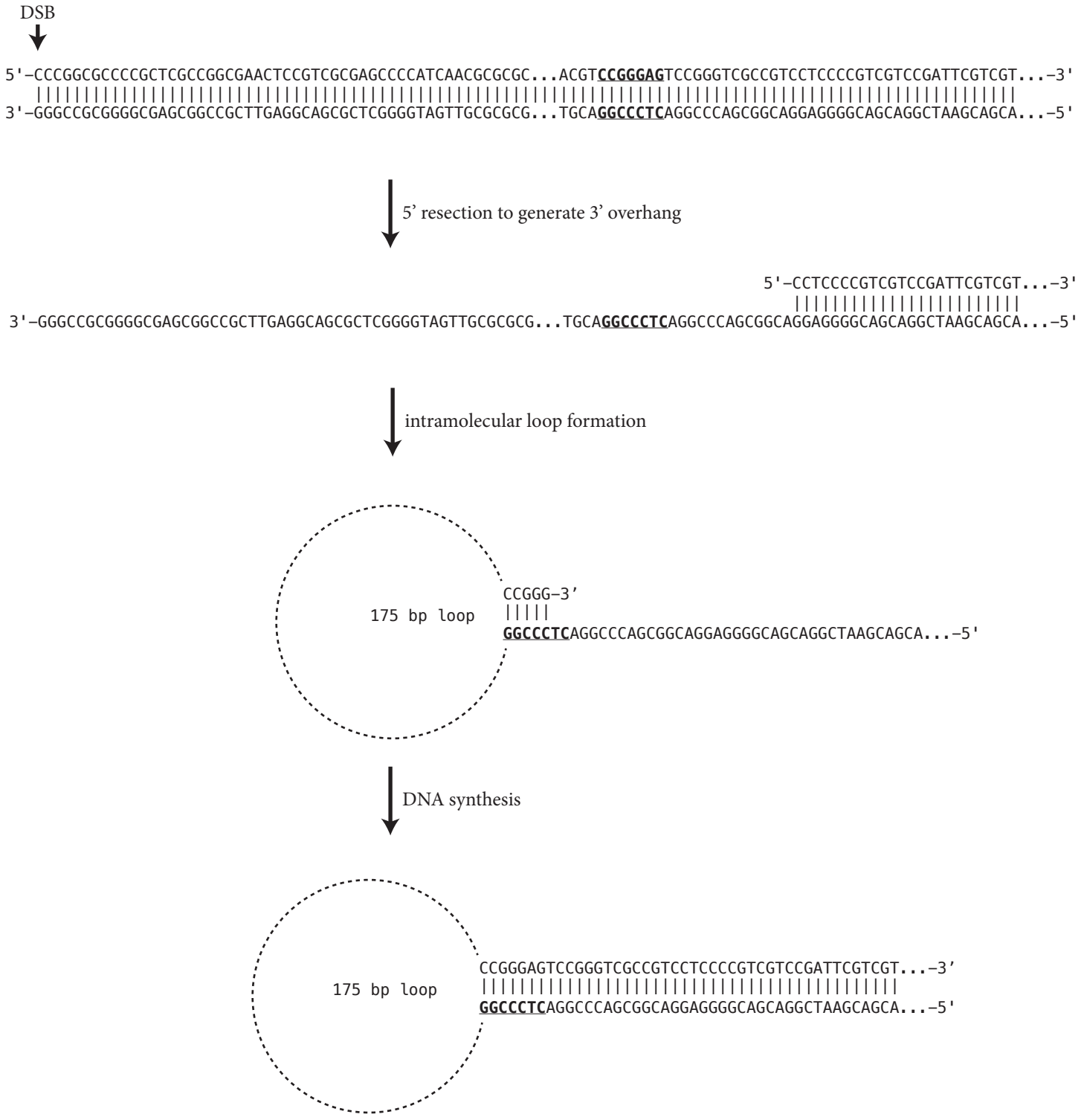
S12 Fig.

A. **Isolate 303 (*cdc73*)**

```
                                KX377639.1 (nat) 1,213+:
GCGCGTTGATGGGGCTCGCGACGGAGTTCGCCCGCGAGCGGGGCG:CCGGG:
GCGCGTTGATGGGGCTCGCGACGGAGTTCGCCCGCGAGCGGGGCG:CCGGG:AGTCCGGGTCGCCGTCCTCCCCGTCGTCCGATTCG
                                              :CCGGG:AGTCCGGGTCGCCGTCCTCCCCGTCGTCCGATTCG
                                              :KX377639.1 (nat) 1,033-
```

B. **Potential inversion formation mechanism**



S12 Fig.

C. **Isolate 321 (*tel1 cdc73*)**

Mapped junction sequence (note that *CAN1* region is in the opposite orientation in sGCR strains)

```
                                ChrV 32544+:
ATGGCTCTTGGAACGGATTTTCTGGGGTTTGCAG:CTTCAC:
ATGGCTCTTGGAACGGATTTTCTGGGGTTTGCAG:CTTCAC:ATTTCAAGGTACTGAACTAGTTGGTATCACTGCTGGTG
                                  :CTTCAC:ATTTCAAGGTACTGAACTAGTTGGTATCACTGCTGGTG
                                  :ChrV 32,585-
```

D. **Potential inversion formation mechanism**

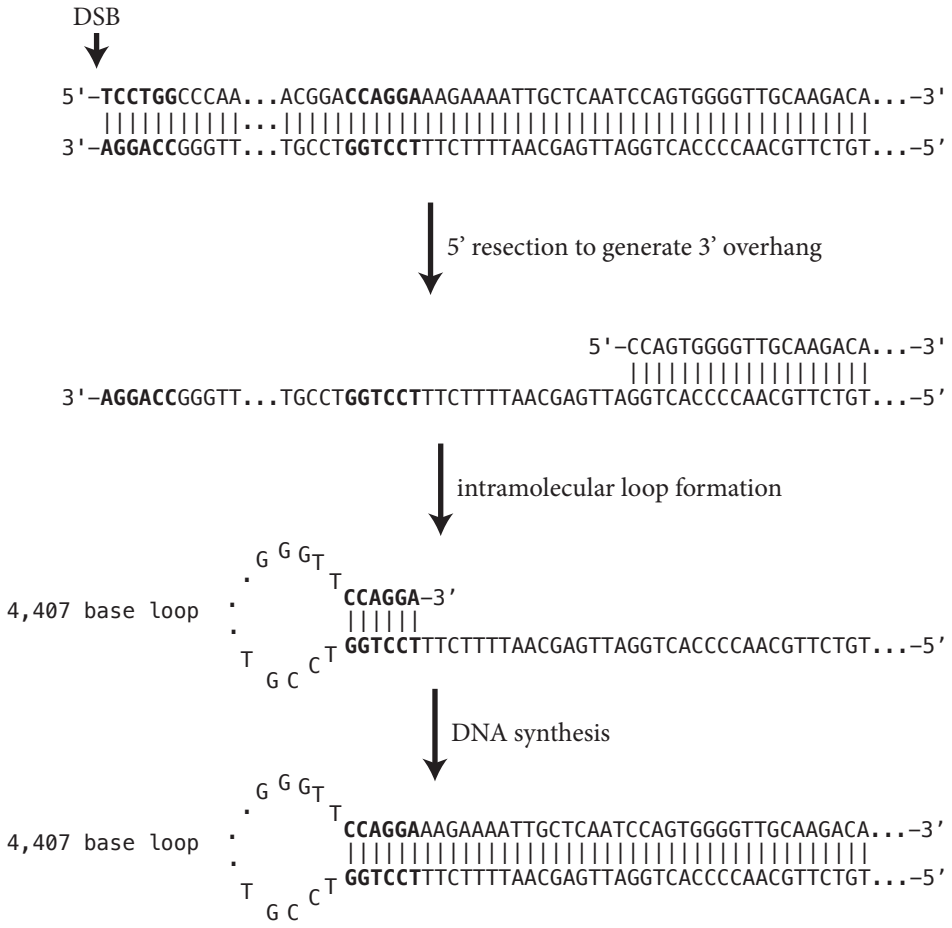
S12 Fig.

E. **Isolate 322 (*tel1 cdc73*)**

Mapped junction sequence

```
                                        ChrV 44,727–:
CTATCTTGTCTTGCAACCCCACTGGATTGAGCAATTTTCTT:TCCTGG:
CTATCTTGTCTTGCAACCCCACTGGATTGAGCAATTTTCTT:TCCTGG:CCCAATTCGAAAAATTCACTATCAGAACCTGGTTGCA
                                         :TCCTGG:CCCAATTCGAAAAATTCACTATCAGAACCTGGTTGCA
                                         :ChrV 40,308+
```

F. **Potential inversion formation mechanism**



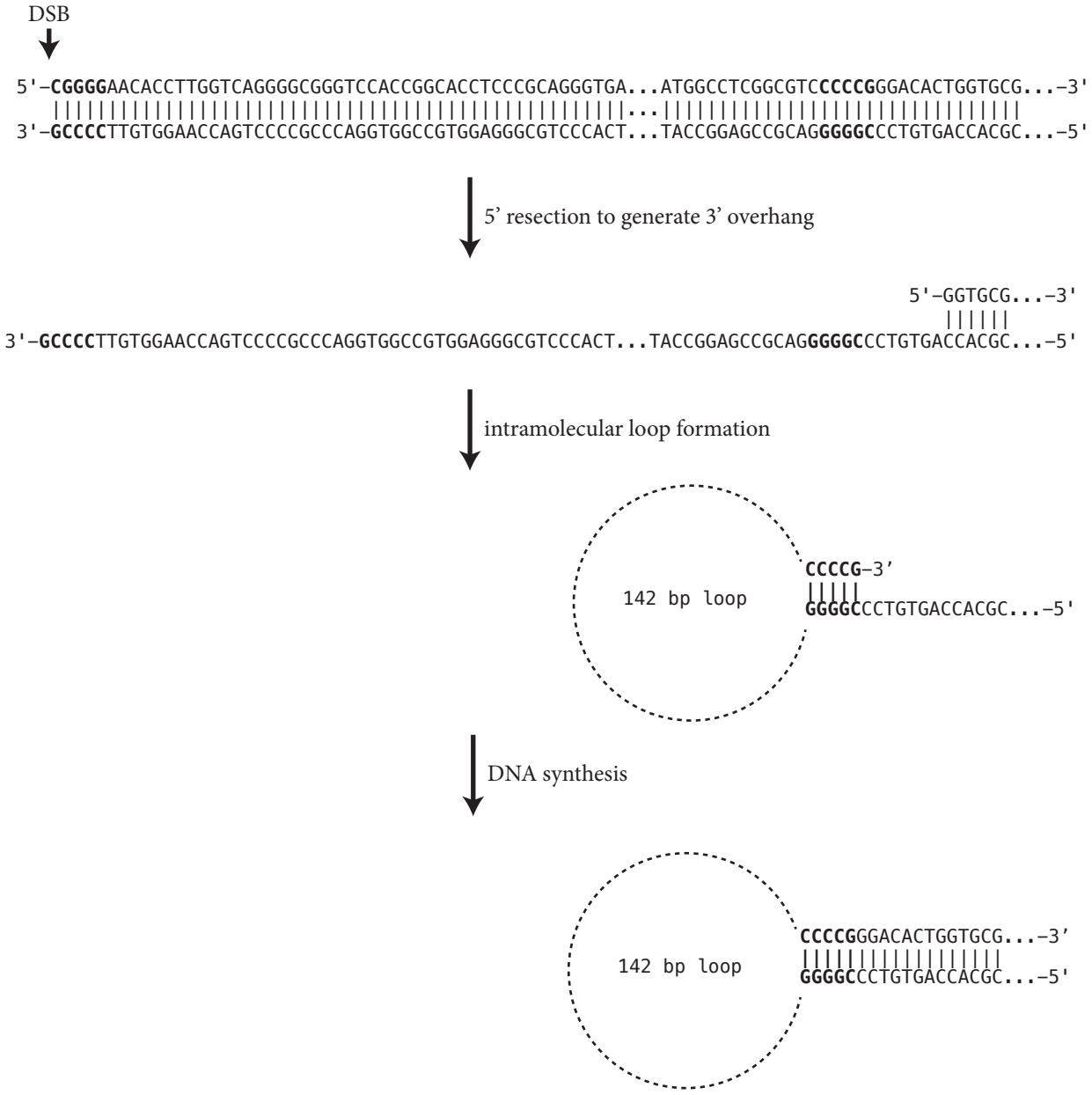
S12 Fig.

G. Isolate 327 (*tel1 cdc73*)

Mapped junction sequence in *NAT* marker

```
                                  KX377639.1 977–:
TGCGGGGGGTGCGGGTGGACCCGCCCCTGACCAAGGTGTT:CCCCG:
TGCGGGGGGTGCGGGTGGACCCGCCCCTGACCAAGGTGTT:CCCCG:GGACACTGGTGCGGTACCGGTAAGCCGTGTCGTCAAGAGTGGTACC
                                         :CCCCG:GGACACTGGTGCGGTACCGGTAAGCCGTGTCGTCAAGAGTGGTACC
                                         :KX377639.1 847–
```

H. Potential inversion formation mechanism



S12 Fig.

I. Isolate 349 (*yku80 cdc73*)

Mapped junction sequence in *NAT* marker

```
                  :KX377639.1 1219-
                  :GAGGTGCC:CGGCGCCCCGCTCGCGGGCGAACTCCGTCGCGAGCCCCATCAACGCGCGCC
                   |||||||| ||||||||||||||||||||||||||||||||||||||||||||||||||
GCTTCACCCTGCGG:GAGGTGCC:CGGCGCCCCGCTCGCGGGCGAACTCCGTCGCGAGCCCCATCAACGCGCGCC
|||||||||||||| ||||||||
GCTTCACCCTGCGG:GAGGTGCC:
       KX377639.1 944+:
```

J. Potential inversion formation mechanism