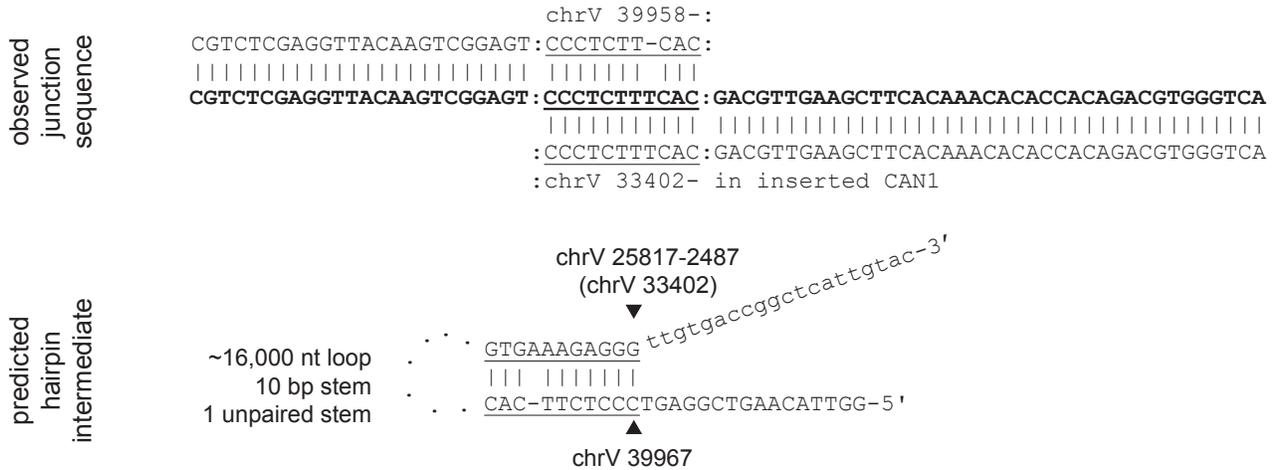


Figure 2 - figure supplement 1 (page 1 of 32)

A. chrV L 25,817-2,487_39,967 hairpin



B. chrV L 25,817-1,749_25,817-1,737 hairpin

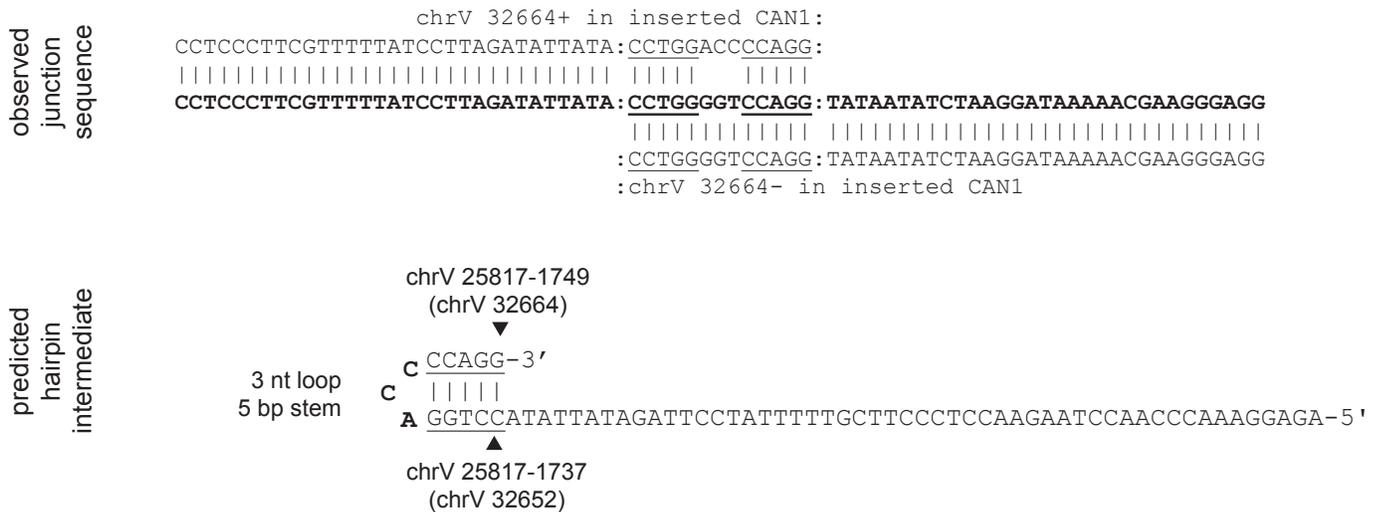
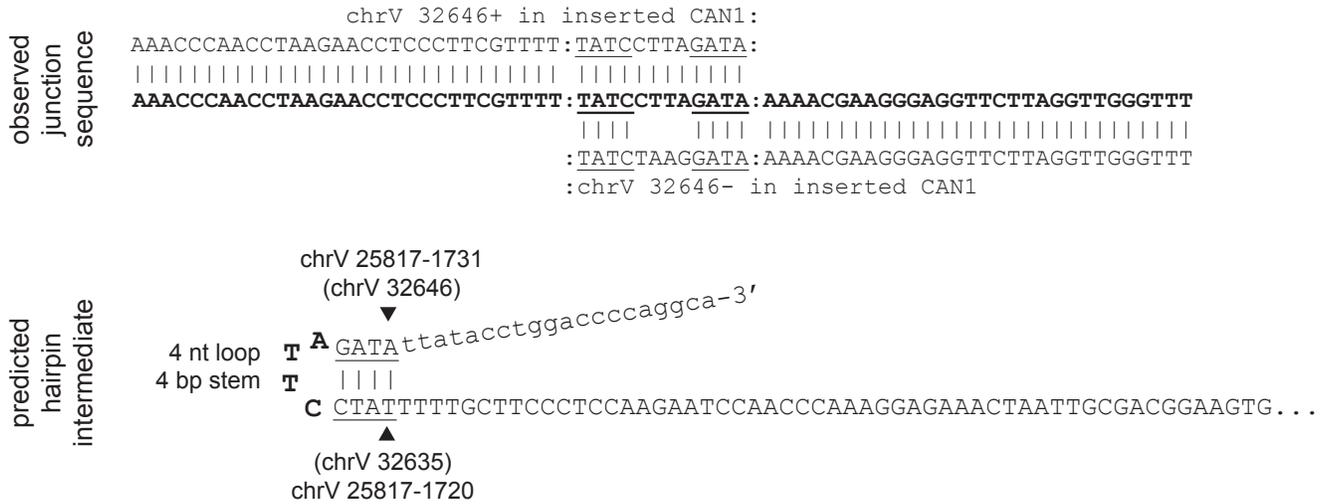


Figure 2 - figure supplement 1 (page 2 of 32)

C. chrV L 25,817-1,731_25,817_-1,720 hairpin



D. chrV L 25,817-1,529_25,817-1,505 hairpin

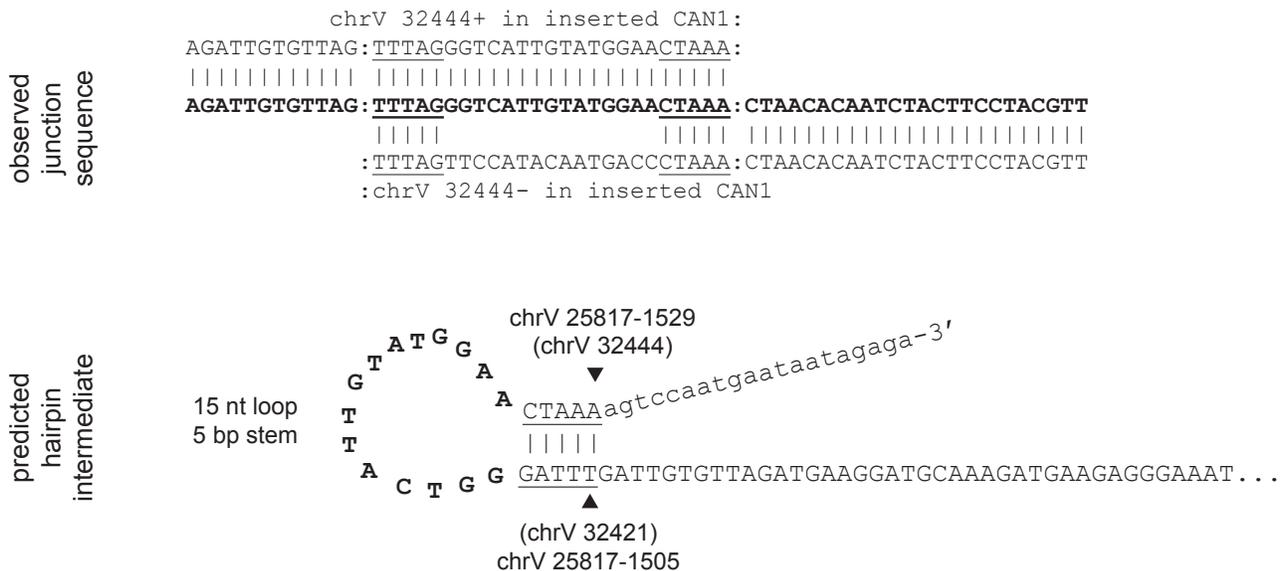
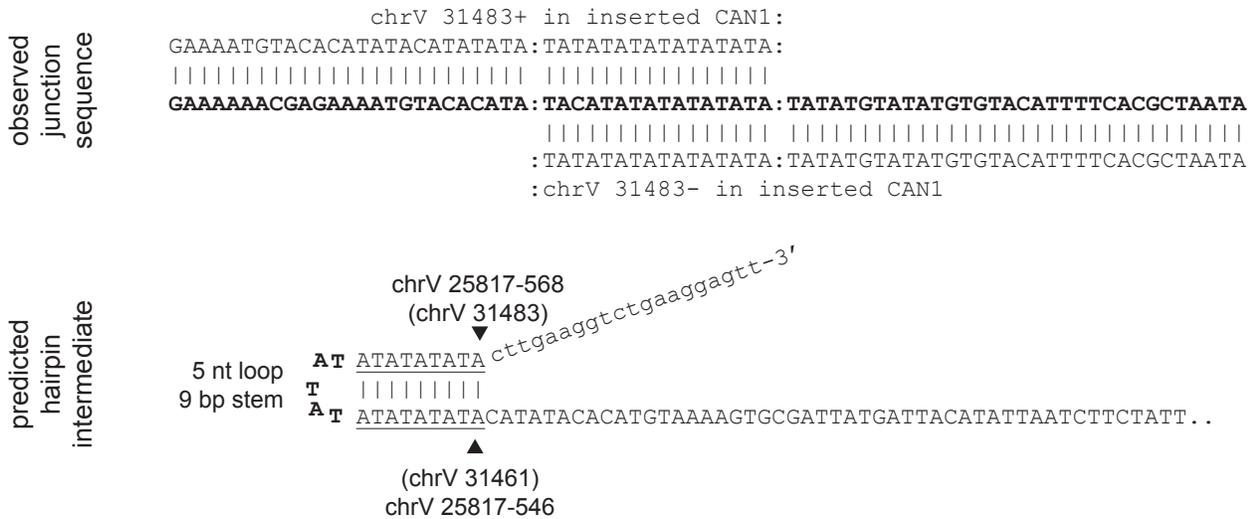


Figure 2 - figure supplement 1 (page 4 of 32)

G. chrV L 25,817-568_25,817-546 hairpin



H. chrV L 25,817-43_25,817-20 hairpin

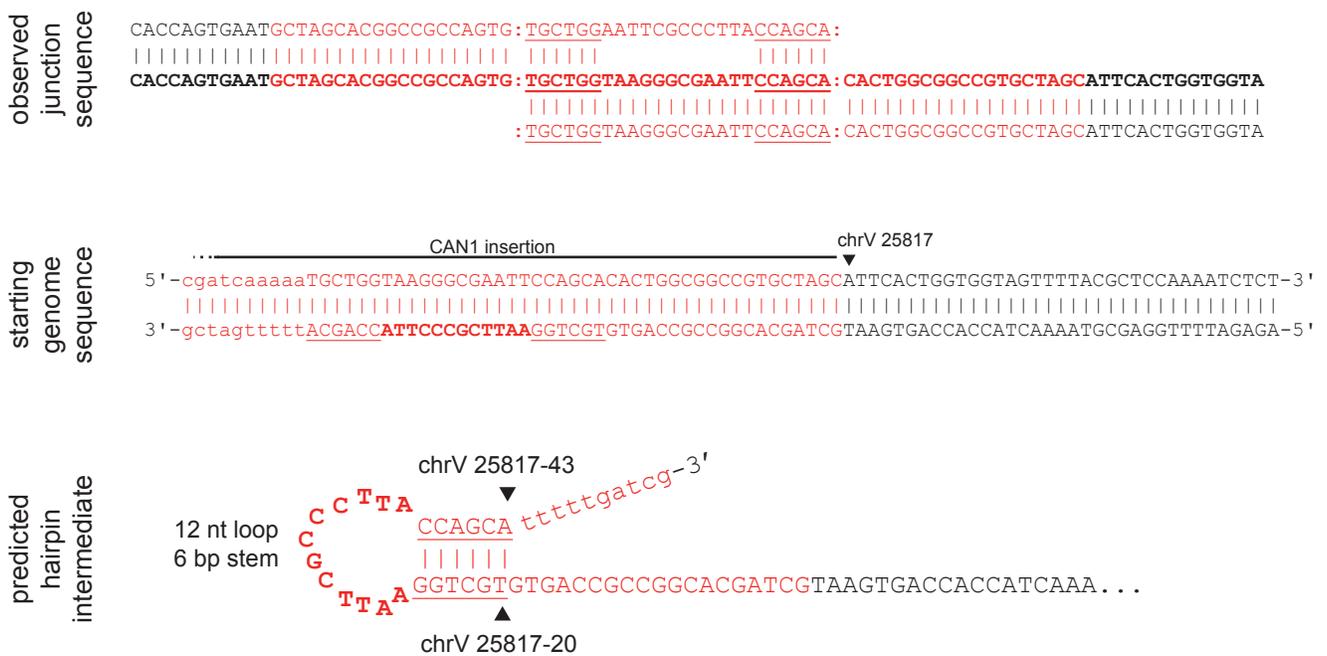
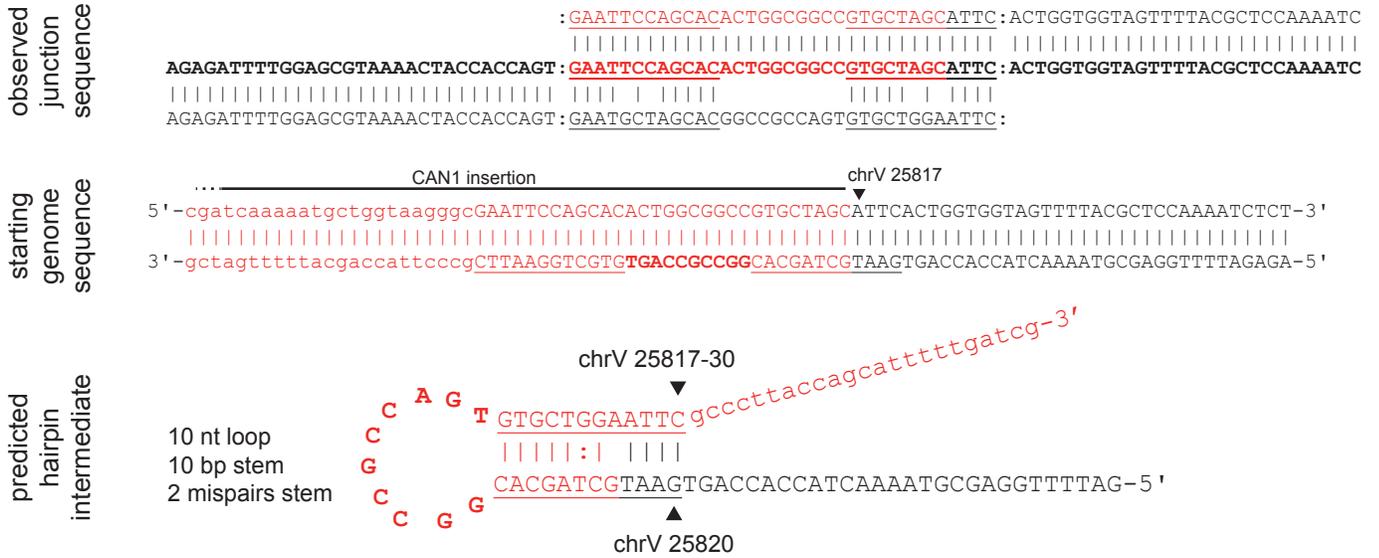


Figure 2 - figure supplement 1 (page 5 of 32)

I. chrV L 25,817-30_25,820 hairpin

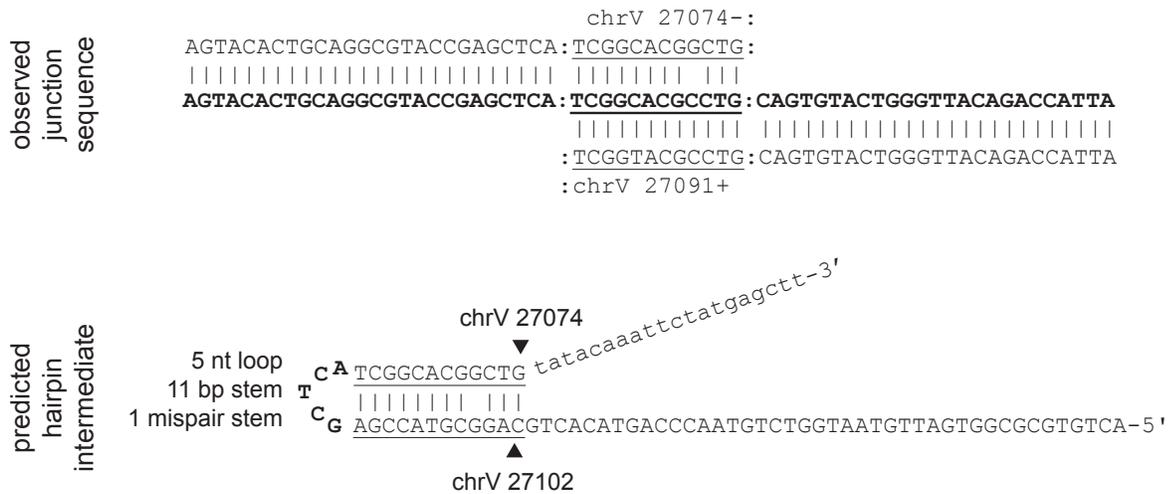


J. chrV L 25,817-25_25,817-14 hairpin



Figure 2 - figure supplement 1 (page 8 of 32)

O. chrV L 27,074_27,102 hairpin



P. chrV L 27,348_27,361 hairpin

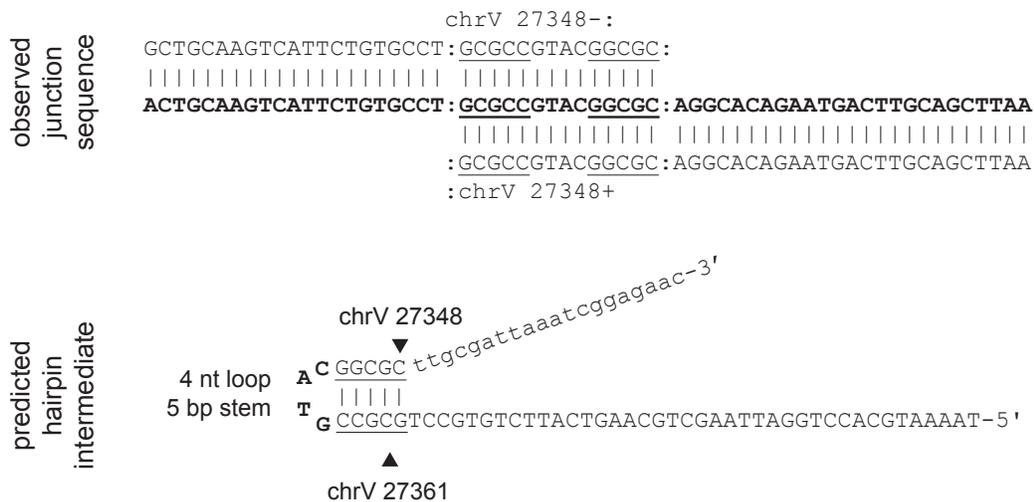
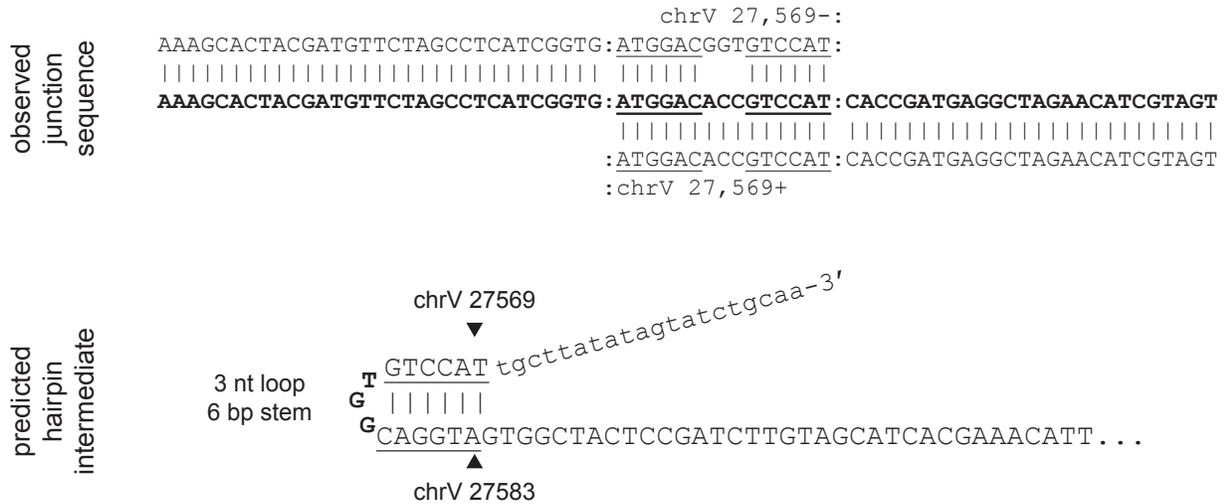


Figure 2 - figure supplement 1 (page 9 of 32)

Q. chrV L 27,569_27,583 hairpin

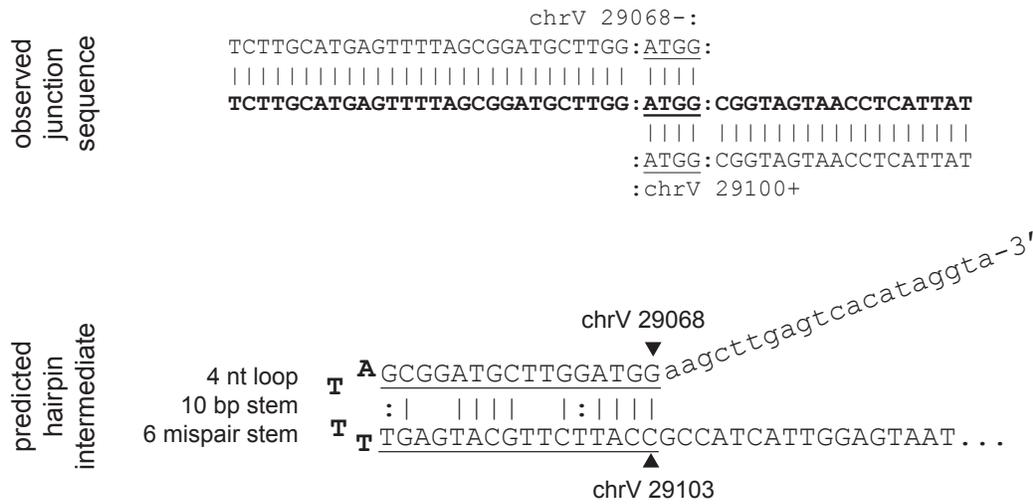


R. chrV L 28,829_28,849 hairpin



Figure 2 - figure supplement 1 (page 10 of 32)

S. chrV L 29,068_29,103 hairpin



T. chrV L 29,418_29,435 hairpin

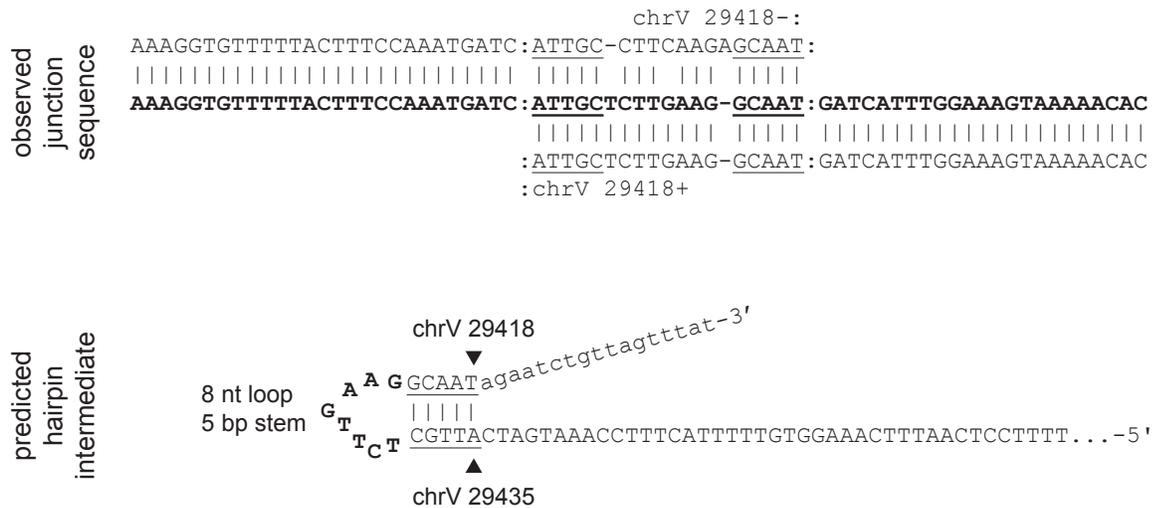
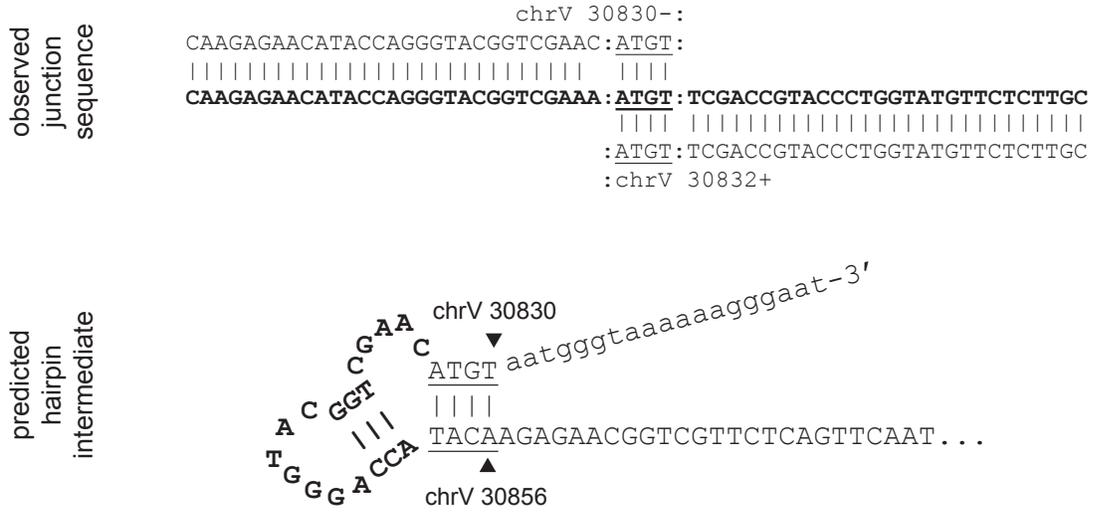


Figure 2 - figure supplement 1 (page 12 of 32)

W. chrV L 30,830_30,856 hairpin



X. chrV L 30,857_30,872 hairpin

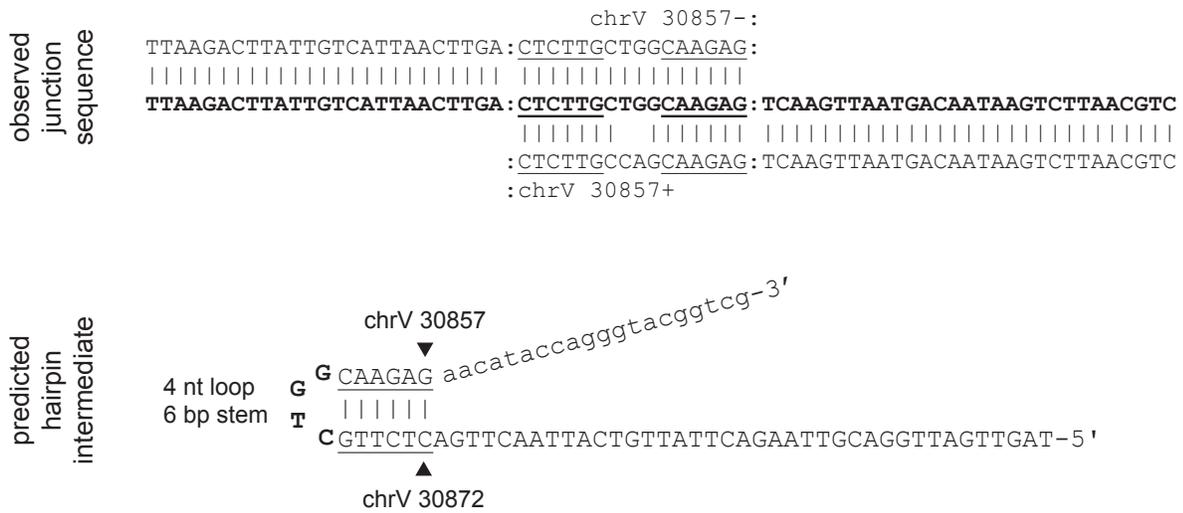
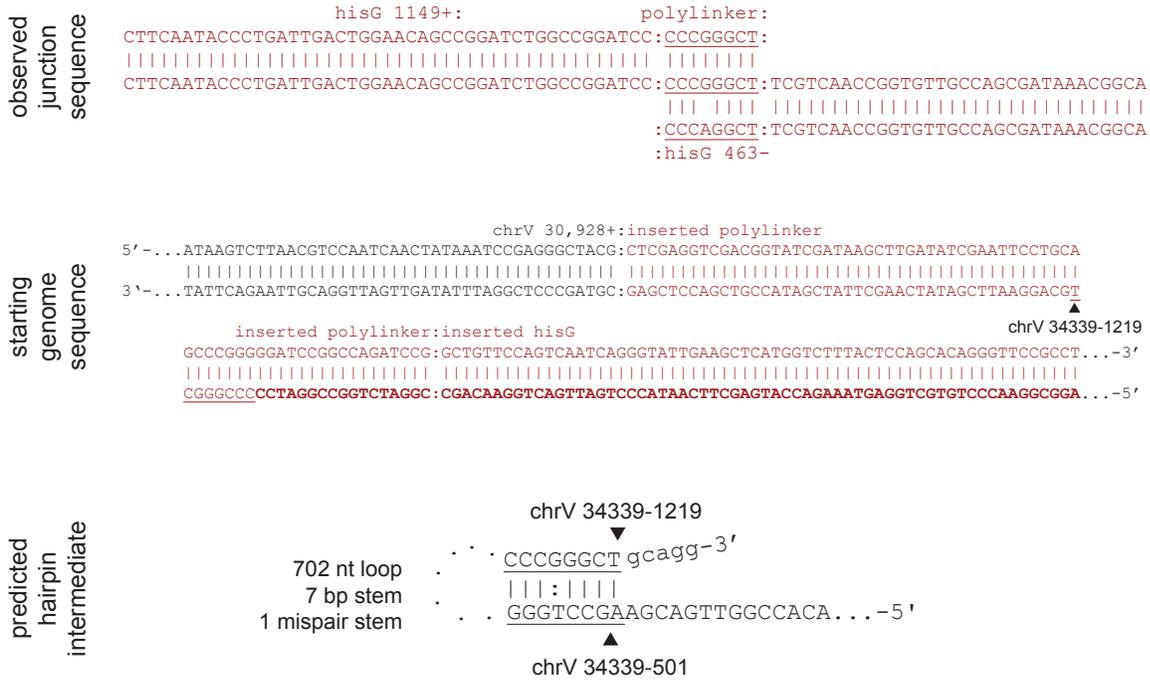


Figure 2 - figure supplement 1 (page 13 of 32)

Y. chrV L 34,339-1,219_34,339-501 hairpin

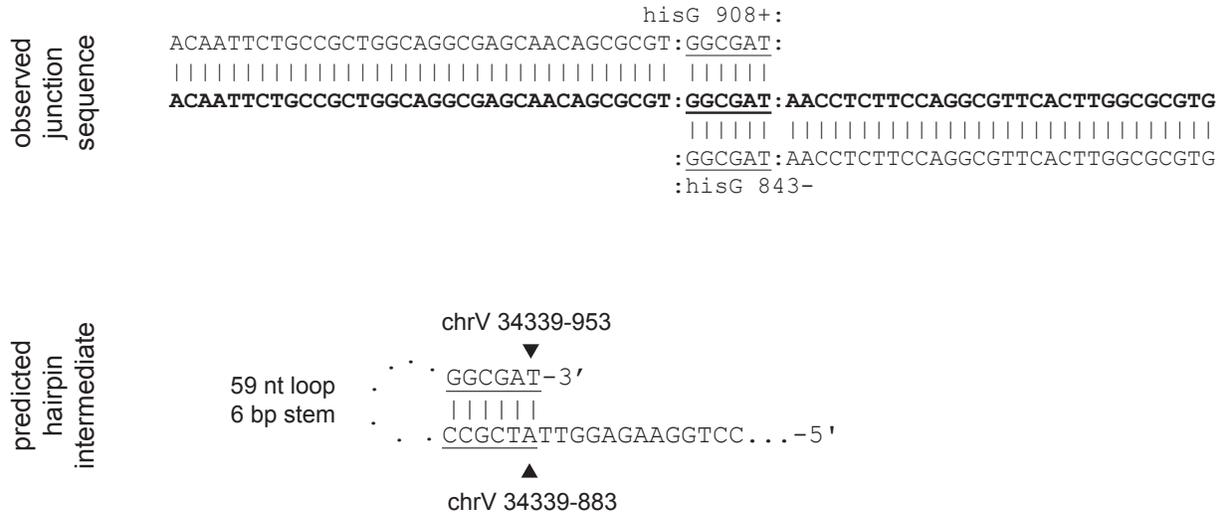


Z. chrV L 34,339-1,211_34,339-1,196 hairpin



Figure 2 - figure supplement 1 (page 15 of 32)

AC. chrV L 34,339-953_34,339-883 hairpin



AD. chrV L 34,339-931_34,339-919 hairpin

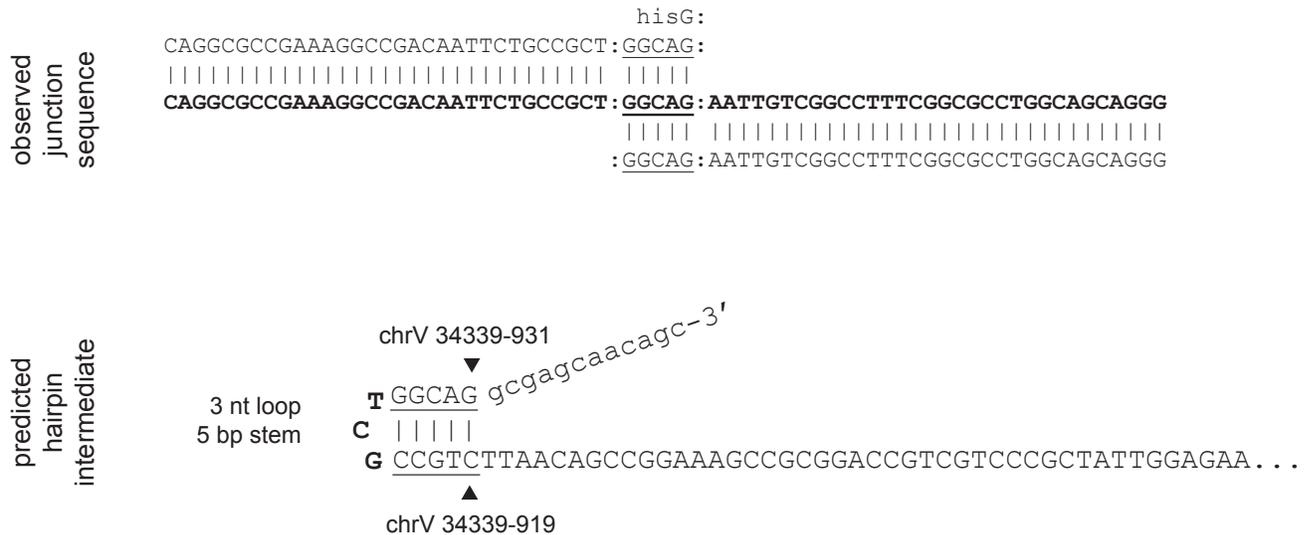
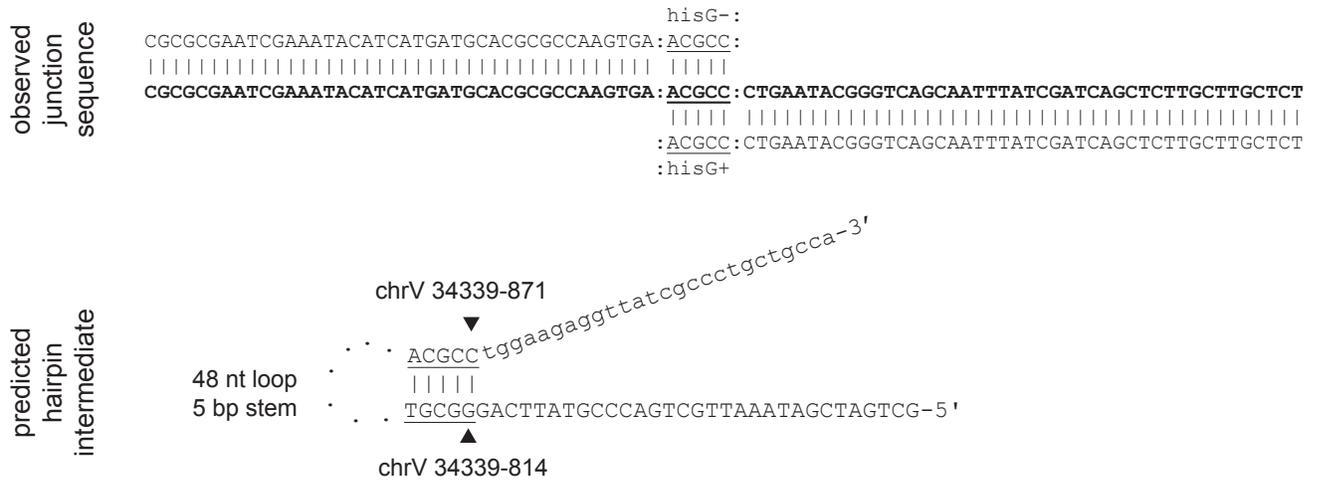


Figure 2 - figure supplement 1 (page 16 of 32)

AE. chrV L 34,339-871_34,339-814 hairpin



AF. chrV L 34,339-640_34,339-630 hairpin



Figure 2 - figure supplement 1 (page 17 of 32)

AG. chrV L 34,339-502_34,339-459 hairpin

observed junction sequence

```

hisG 457+:
ATCGCTGGCAACACCGGTTGA:CGAAG:
|||||
ATCGCTGGCAACACCGGTTGA:CGAAG:TCAAGACGGCGCAGGGTTAAATAGCGT
|||||
:CGAAG:TCAAGACGGCGCAGGGTTAAATAGCGT
:hisG 418-

```

predicted hairpin intermediate

```

chrV 34339-502
      ▼
34 nt loop . . . CGAAG cctgggacggcccggccgcg-3'
5 bp stem . . . |||||
      ▲
chrV 34339-459
      ▲
. . . GCTTCAGTTCTGCCGCTCCCAATTTATCGCA...-5'

```

AH. chrV L 34,339-107_34,339-75 hairpin

observed junction sequence

```

5' - . . . CAGATCTCCAGTGGTGCATGAACGCATGAGAAAGCCCCGGAAGATGATCTCCGGGGGCTTTCTCATGCGTTTCATGCACCACTGG
3' - . . . GTCTAGAAGGTCAACACGTAAGTCTGCGTACTCTTTCCGGGGCCCTTCTACTAGAAGGCCCCCGAAAAGAGTACGCAAGTACGTGGTGACC

AAGATCTGAATTCTTGAAGACGAAAGGGCCCTCGTGATACGCCGGGGGATCC:CTGGGTTAGCTTGAAGCGACTTCTTTCTCTACT...-3'
TTCTAGACTTAAGAAGTCTGCTTTCCCGGAGCACTATGCGGCCCCCTAGG:GACCCAATCGAACTTCGCTGAAAGAAAGAGATGA...-5'
:ChrV 34339+

```

predicted hairpin intermediate

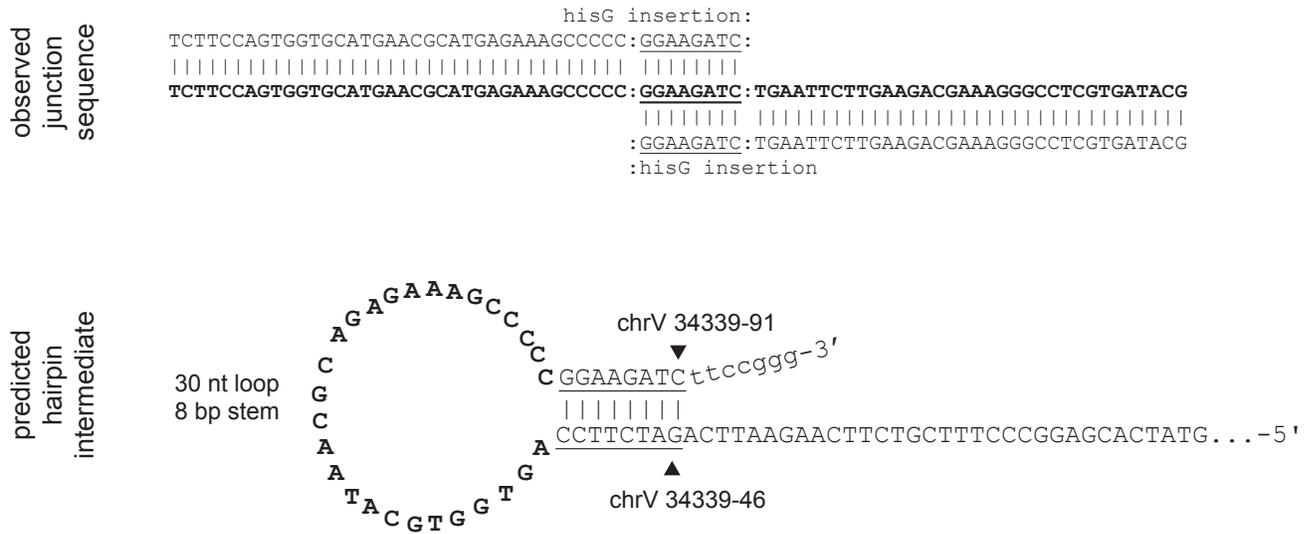
```

chrV 34339-107
      ▼
3 nt loop ATCTTCCGGGGGCTTT-3'
15 bp stem C |||||
      ▲
TAGAAGGCCCCCGAAAAGAGTACGCAAGTACGTGGTGACCTTCTAGACTTAAGAAGTCTGCTTTCCCGGAGCAC...-5'
chrV 34339-75
      ▲

```

Figure 2 - figure supplement 1 (page 18 of 32)

AI. chrV L 34,339-91_34,338-46 hairpin



AJ. chrV L 34,759_36,909 hairpin

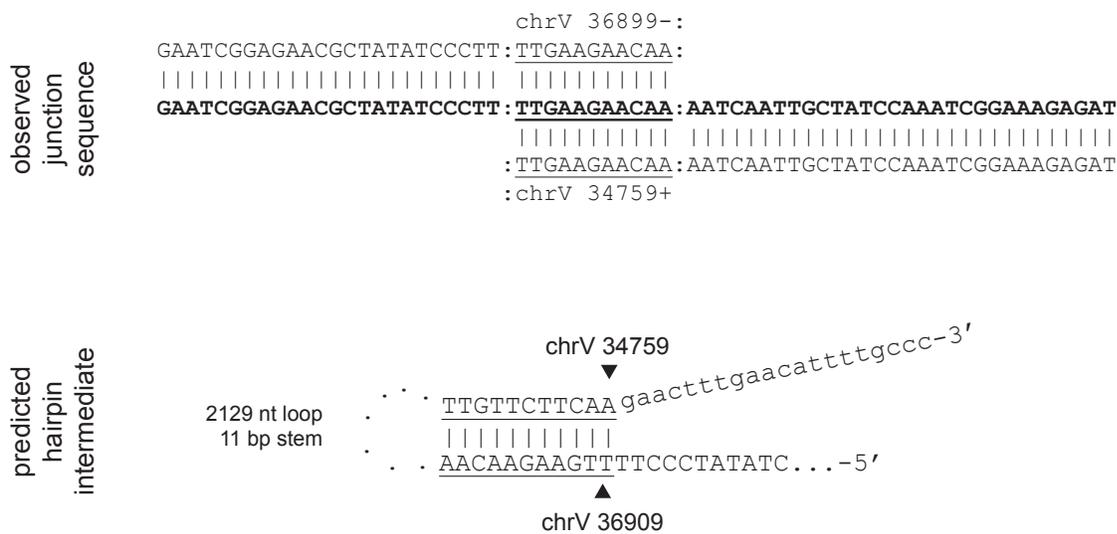


Figure 2 - figure supplement 1 (page 19 of 32)

AK. chrV L 35,447_37,677 hairpin

observed junction sequence

```

                                chrV 37653-:
CAAATGGCCCTACATGATTACAAAAAAGA:GAACTTG:ACCTTAATCAAAAGTTTG:
|||||
CAAATGGCCCTACATGATTACAAAAAAGA:GAACTTG:CCCTTAAACAAAAGTCTGGGTTTCAGGTGACCAA
|||||
                                :GAACTTG:CCCTTAAACAAAAGTCTGGGTTTCAGGTGACCAA
                                :chrV 35447+
    
```



AL. chrV L 35,478_35,494 hairpin

observed junction sequence

```

                                chrV 35478-:
GGATTTTCTTCGTACAGAAAATGATGGTGAGTCTTGG:TCACC:
|||||
GGATTTTCTTCGTACAGAAAATGATGGTGAGTCTTGG:TCACC:ATCATTTTCTGTACGAAGAAAATCCAAAT
|||||
                                :TCACC:ATCATTTTCTGTACGAAGAAAATCCAAAT
                                :chrV 35490+
    
```

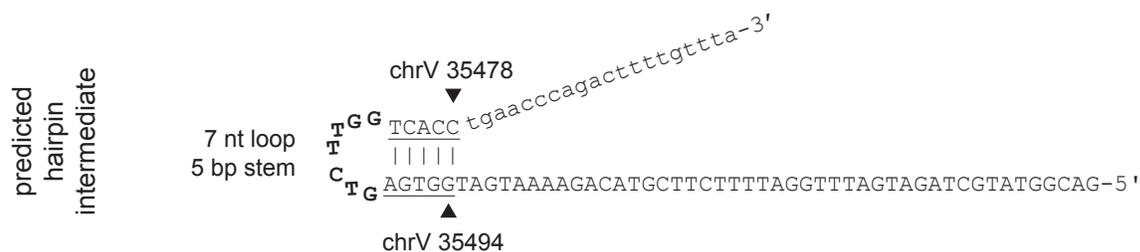
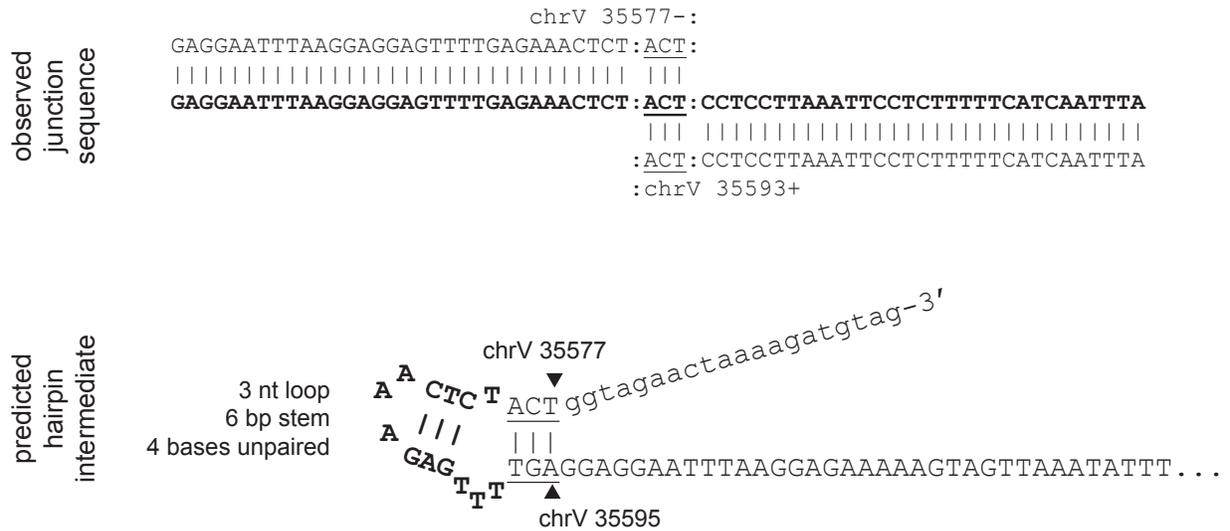


Figure 2 - figure supplement 1 (page 20 of 32)

AM. chrV L 35,577_35,595 hairpin



AN. chrV L 35,581_35,596 hairpin

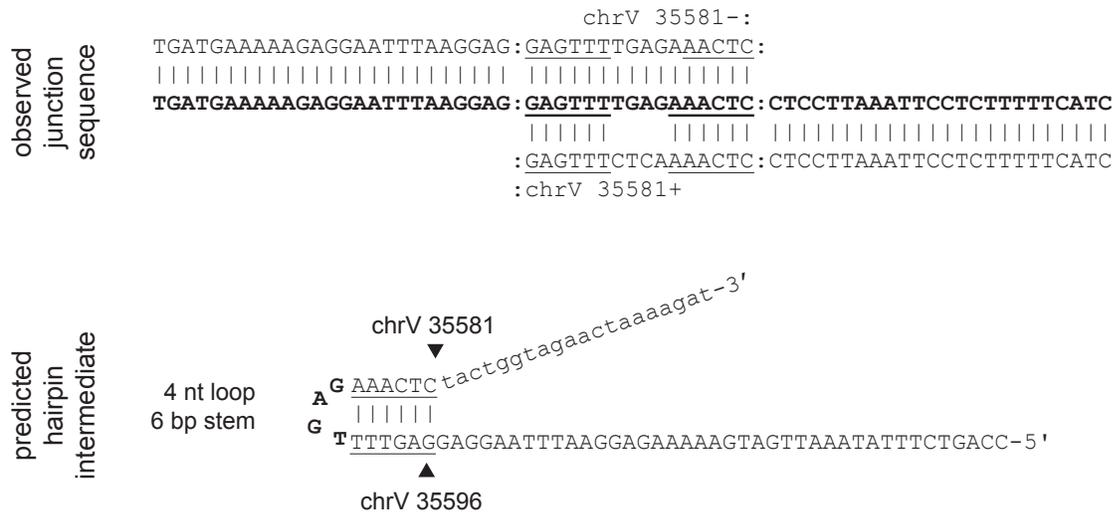
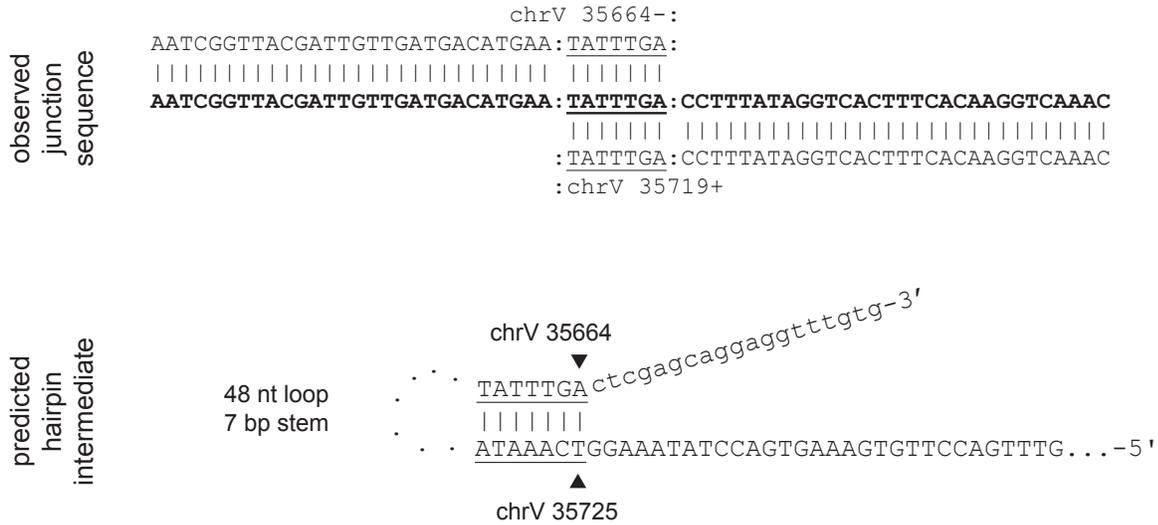


Figure 2 - figure supplement 1 (page 21 of 32)

AO. chrV L 35,664_35,725 hairpin



AP. chrV L 35,685_35,698 hairpin

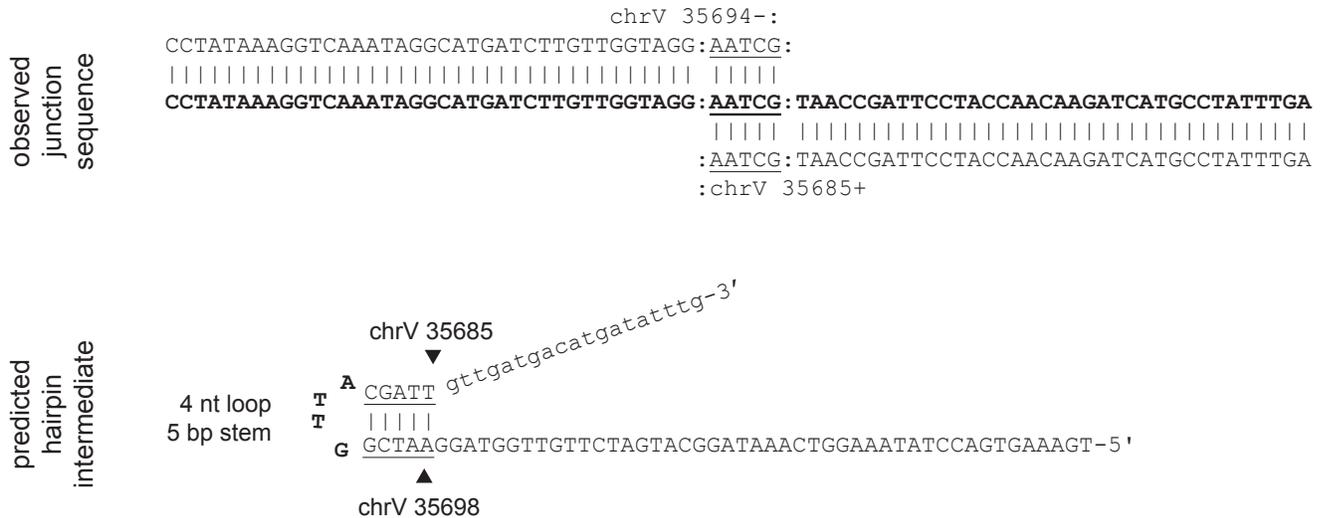


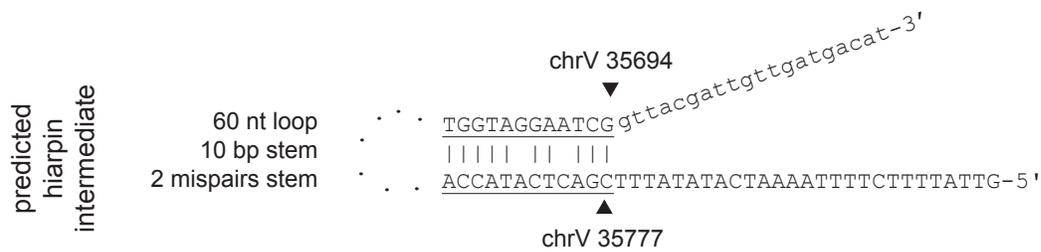
Figure 2 - figure supplement 1 (page 22 of 32)

AQ. chrV L 35,694_35,777 hairpin

observed junction sequence

```

chrV 35766-:
GTTATTTTCTTTTAAAATCATATATTT:CGACTCATACCA:
|||||
GTTATTTTCTTTTAAAATCATATATTT:CGACTCATACCA:ACAAGATCATGCCTATTTGACCTTTAT
|||||
:CGATTCTTACCA:ACAAGATCATGCCTATTTGACCTTTAT
:chrV 35694+
    
```



AR. chrV L 35,721_35,754 hairpin

observed junction sequence

```

chrV 35721-:
GTTTGACCTTGTGAAAGTGACCTATA:AAGGTCAAA:
|||||
GTTTGACCTTGTGAAAGTGACCTATA:AAGGTCAAA:CGCTGAAAACATGGTATGAGTCG
|||||
:AAGGTCAAA:CGCTGAAAACATGGTATGAGTCG
:chrV 35746+
    
```

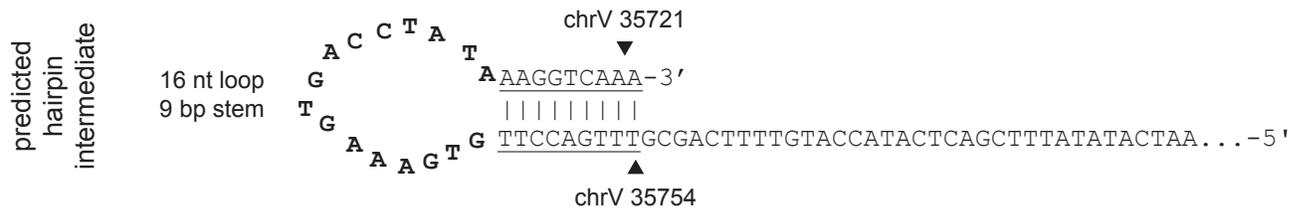


Figure 2 - figure supplement 1 (page 23 of 32)

AS. chrV L 35,723_35,738 hairpin

observed junction sequence

chrV 35723-:

TTCAGCGTTT**GACCTTGTGAAAG**:TGACCTATAAAGGTCA:

|||||

TTCAGCGTTTGACCTTGTGAAAG****:TGACCTATAAAGGTCA:**CTTTCACAAGGTCAAACGCTGAAAACATGG**

||||| | ||||| |

:TGACCTTTATAGGTCA:**CTTTCACAAGGTCAAACGCTGAAAACATGG**

:chrV 35723+



AT. chrV L 35,837_35,872 hairpin

observed junction sequence

chrV 35867-:

GTTCACGTGAACCTGCATTTATCATTACA:GGAAAA:

|||||

GTTCACGTGAACCTGCATTTATCATTACA:GGAAAA:**ACGTATCATTACAGGTGCTACTCTTTTCCTGTA**

||||| |

:GGAAAA:**ACGTATCATTACAGGTGCTACTCTTTTCCTGTA**

:chrV 35837+

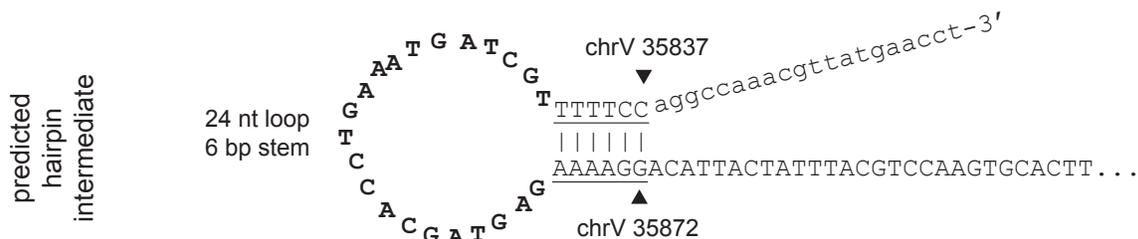
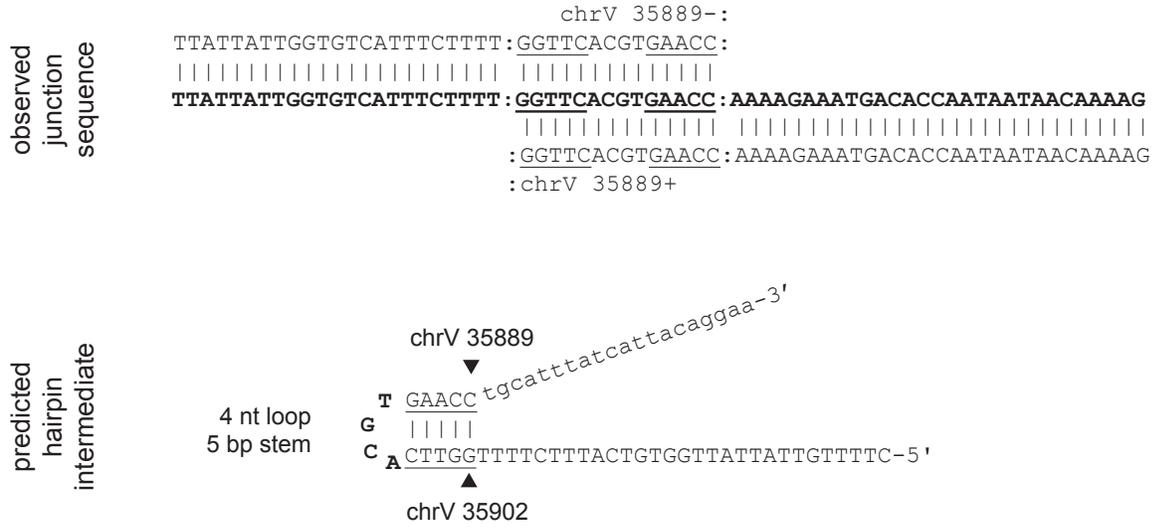


Figure 2 - figure supplement 1 (page 24 of 32)

AU. chrV L 35,889_35,902 hairpin



AV. chrV L 37,132_37,150 hairpin

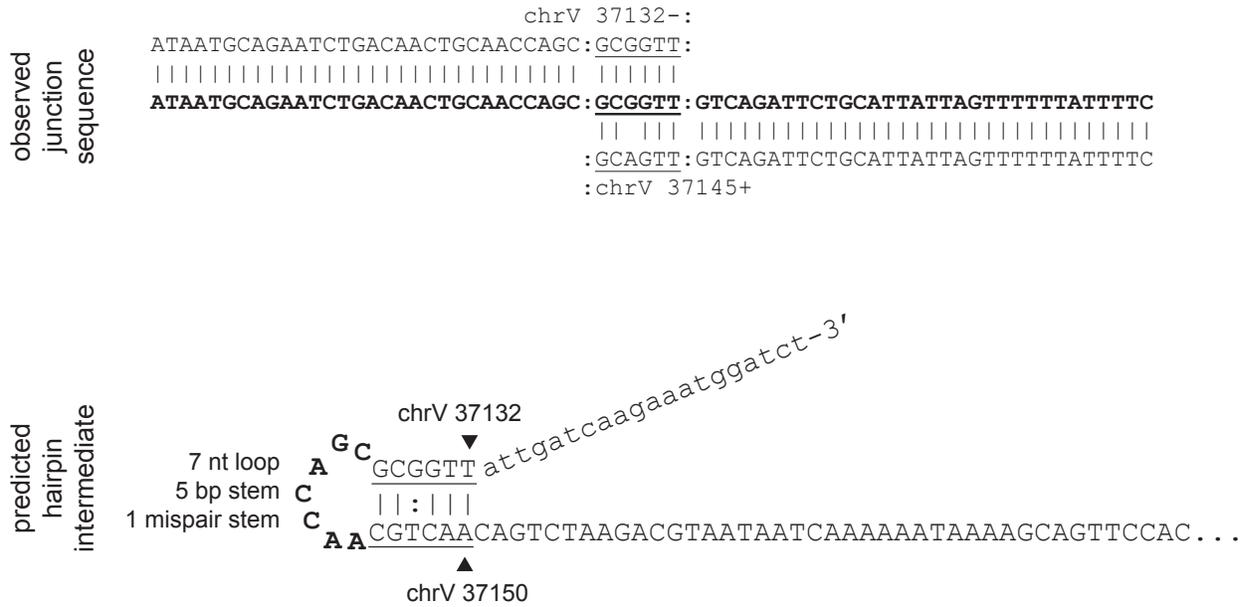


Figure 2 - figure supplement 1 (page 25 of 32)

AW. chrV L 38,072_38,086 hairpin

observed junction sequence

```

chrV 38072-:
CTAAAAACATTAAGAACAAGCCGCAACTGGGT:TCATTTATA-ATGAA:
|||||
CTAAAAACATTAAGAACAAGCCGCAACTGGGT:TCATT-ATAAATGAA:CCCAGTTGCGGCTTGTCTTAAT
|||||
:TTTATTATAAATGAA:CCCAGTTGCGGCTTGTCTTAAT
:chrV 38072+

```



AX. chrV L 38,848_38,871 hairpin

observed junction sequence

```

chrV 38848-:
TTTTGATTCAAGCACAGCAAATAAT:ACCACTAGCAACAGTGCTAGTAGT:
|||||
CTTTGATTCAAGCACAGCAAATAAT:ACCACTAGCACTGTTGCTAGTGGT:ATTATTGCTGTGCTTGAAT
|||||
:ACTACTAGCACTGTTGCTAGTGGT:ATTATTGCTGTGCTTGAAT
:chrV 38848+

```

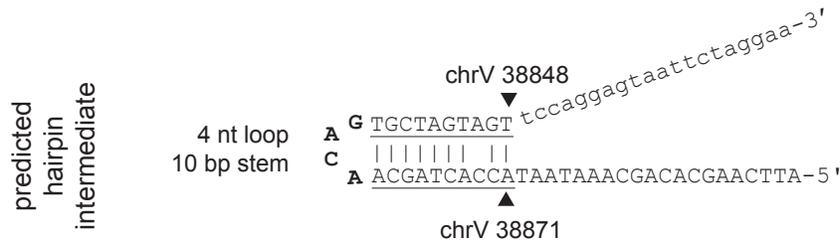
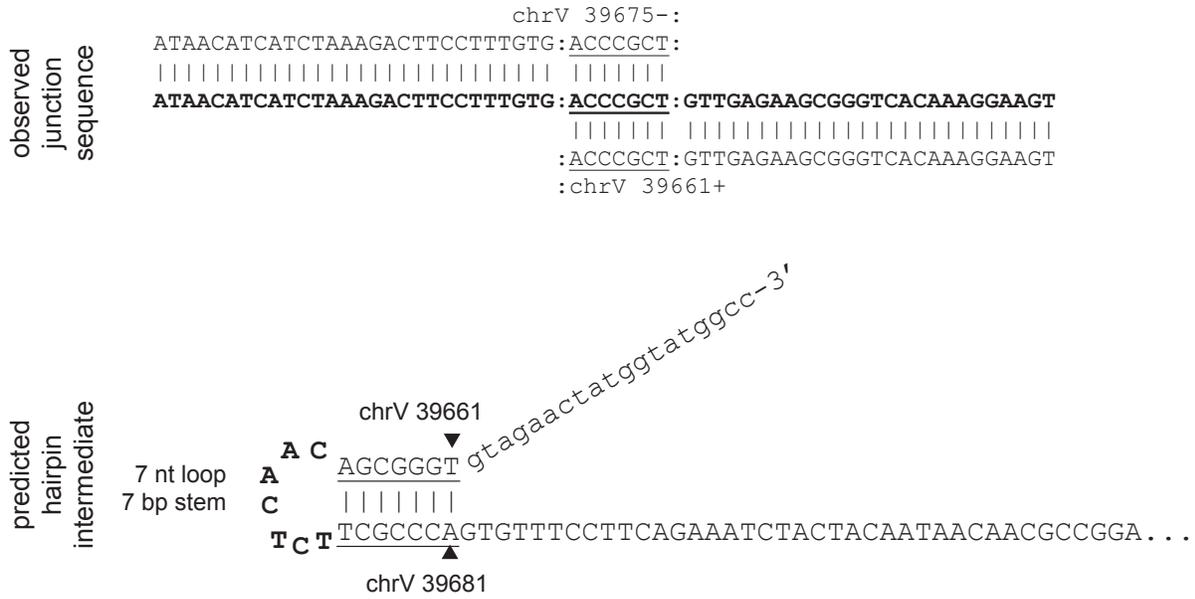


Figure 2 - figure supplement 1 (page 26 of 32)

AY. chrV L 39,661_39,681 hairpin



AZ. chrV L 40,281_40,326 hairpin

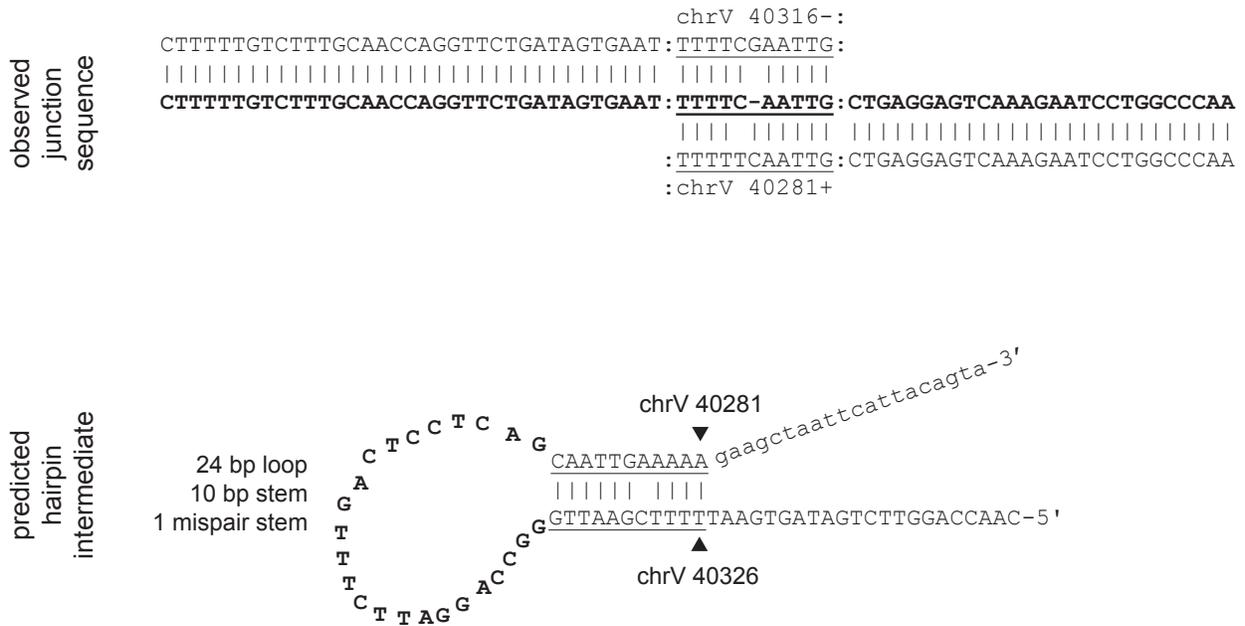
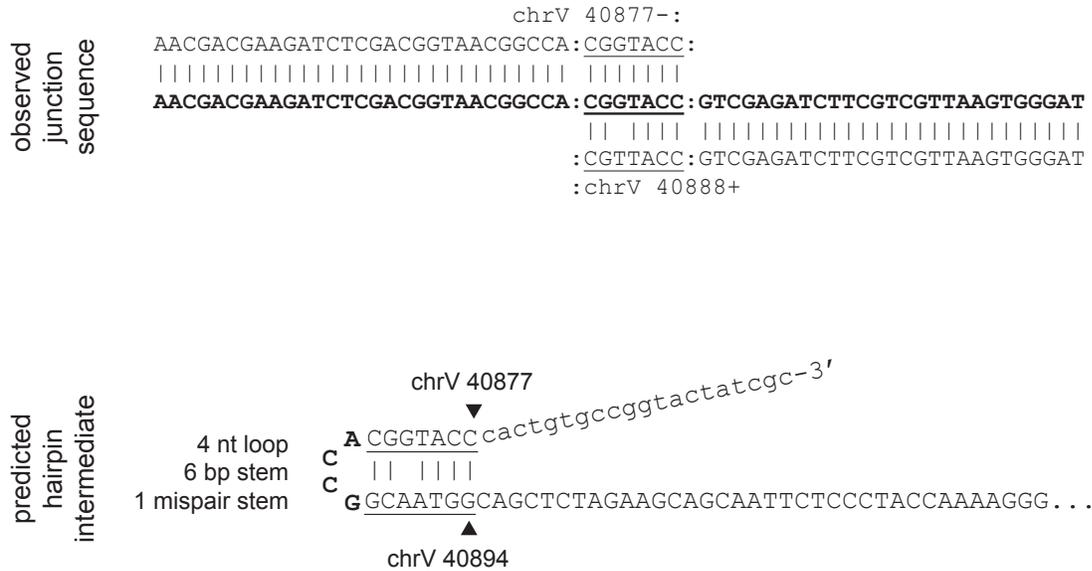


Figure 2 - figure supplement 1 (page 27 of 32)

BA. chrV L 40,877_40,894 hairpin



BB. chrV L 40,968_40,983 hairpin

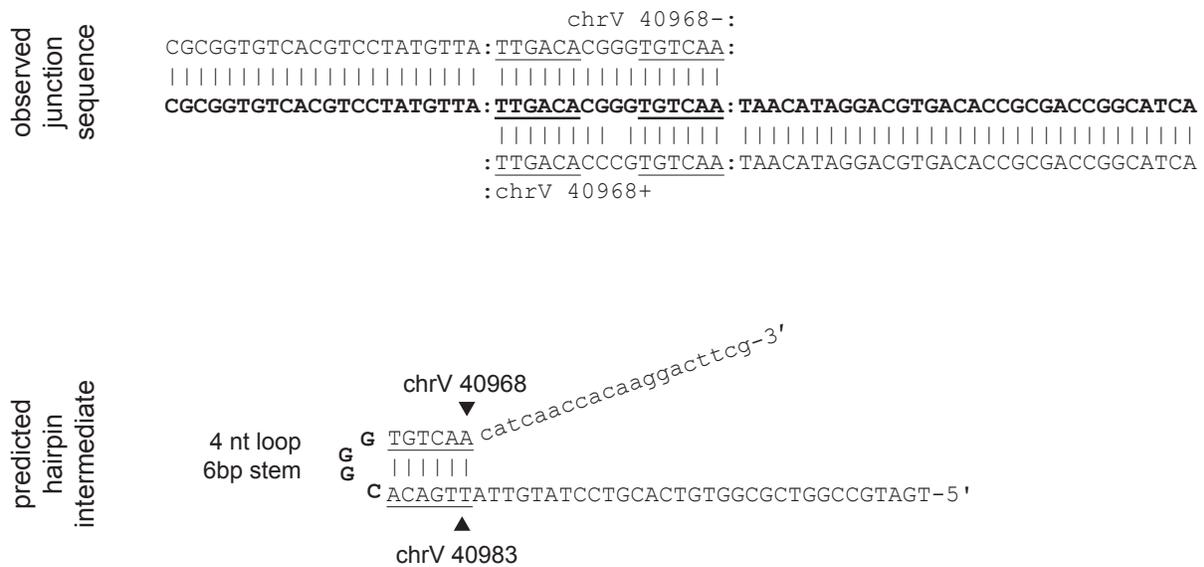


Figure 2 - figure supplement 1 (page 28 of 32)

BC. chrV L 40,994_43,019 hairpin

observed junction sequence

```

chrV 43013-:
AATCTGCTAATCGTGCAAGTAAGGGTTCT:CGTGACA:
|||||
AATCTGCTAATCGTGCAAGTAAGGGTTCT:CGTGACA:CCGCGACCGGCATCATCATCGTAGAGATACT
|||||
:CGTGACA:CCGCGACCGGCATCATCATCGTAGAGATACT
:chrV 40994+

```

predicted hairpin intermediate

```

chrV 40994
      ▼
      TGTCACG tcctatggttatt-3'
      |||||
      ACAGTGCTCTTGGGAATGAACGTGCTAATCGT...-5
      ▲
chrV 43019

```

2013 nt loop
7 bp stem

BD. chrV L 41,350_41,363 hairpin

observed junction sequence

```

chrV 41350-:
GCCCCTCAAGAAGAGATCGATTTCCACAA:GGAAA:
|||||
GCCCCTCAAGAAGAGATCGATTTCCACAA:GGAAA:TCGATCTCTTCTTGAGGGGCACCTCTCTTGAAGAC
|||||
:GGAAA:TCGATCTCTTCTTGAGGGGCACCTCTCTTGAAGAC
:chrV 41359+

```

predicted hairpin intermediate

```

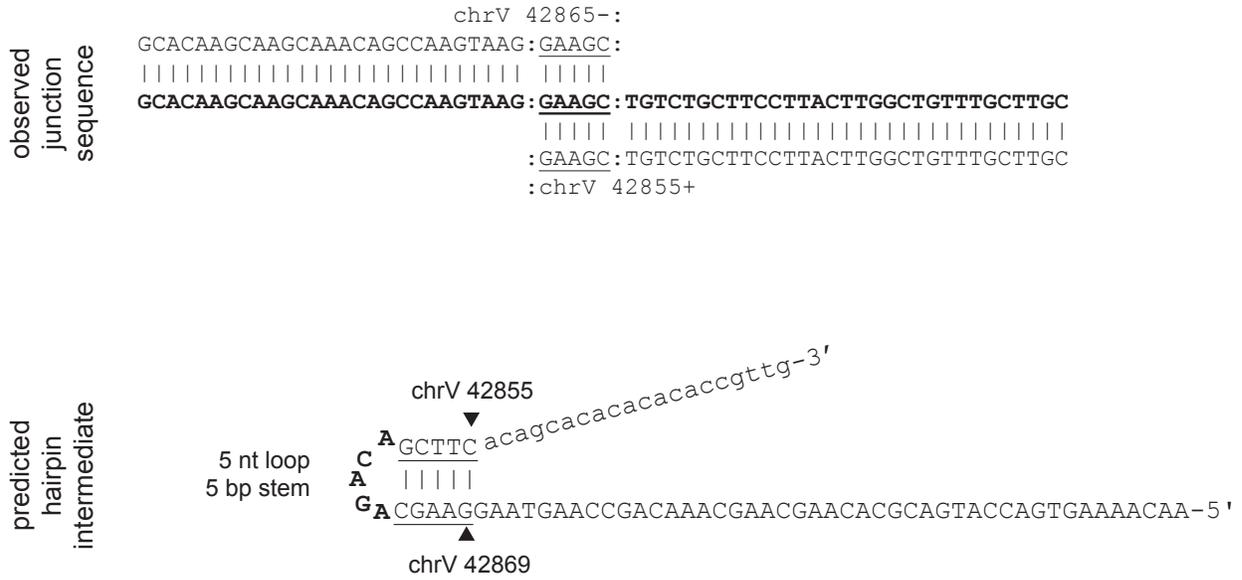
chrV 41350
      ▼
      A A GGAAA acgtccagcaggcacaacttcaa-3'
      C |||||
      A CCTTTAGCTAGAGAAGAACTCCCCGTGGAGAGAACTTCTGATATTACATC-5'
      ▲
chrV 41363

```

4 nt loop
5 bp stem

Figure 2 - figure supplement 1 (page 30 of 32)

BG. chrV L 42,855_42,869 hairpin



BH. chrV L 42,939_42,955 hairpin

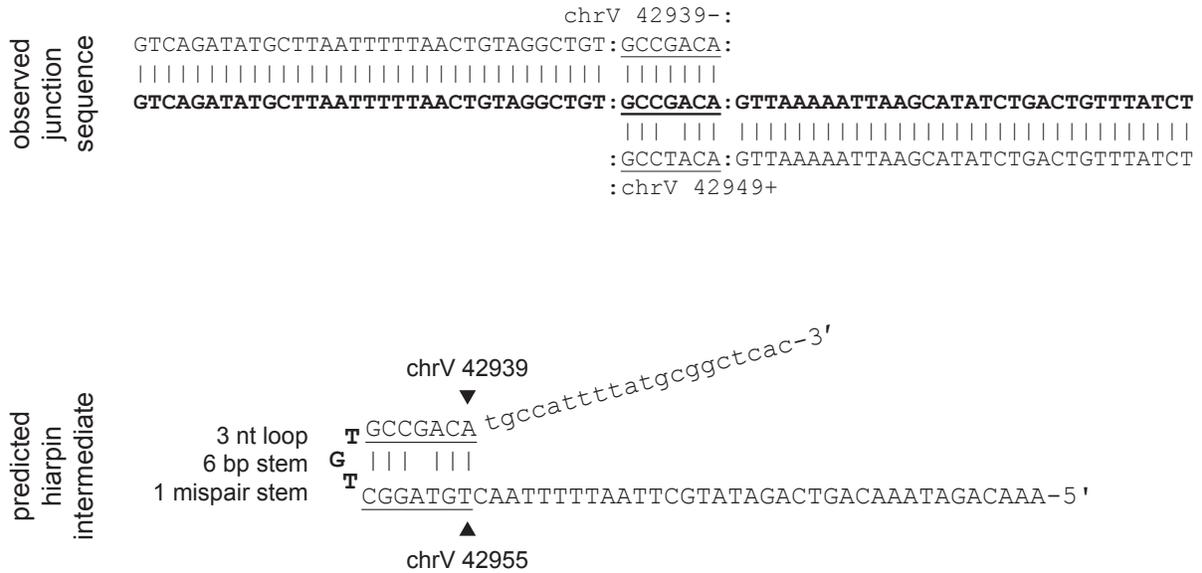


Figure 2 - figure supplement 1 (page 32 of 32)

BK. chrV L 84,266_84,283 hairpin

observed junction sequence

chrV 84272+:

TGTCATGGTATTCAGATGGTTAAAAACATGGGA:AGATGCT:

|||||

TGTCATGGTATTCAGATGGTTAAAAACATGGGA:AGATGCT:TCTGAGCATCTTCCCATGTTTTTTAACCATCTGAA

|||||

:AGATGCT:TCTGAGCATCTTCCCATGTTTTTTAACCATCTGAA

:chrV 84283-

predicted hairpin intermediate

chrV 84266

▼

5' -TGTCATGGTATTCAGATGGTTAAAAACATGGGAAGATGCT C A 4 nt loop

||||| A G 7 bp stem

TCTACGA

▲

chrV 84283

3' -aacaaaacgcacggtgactc