

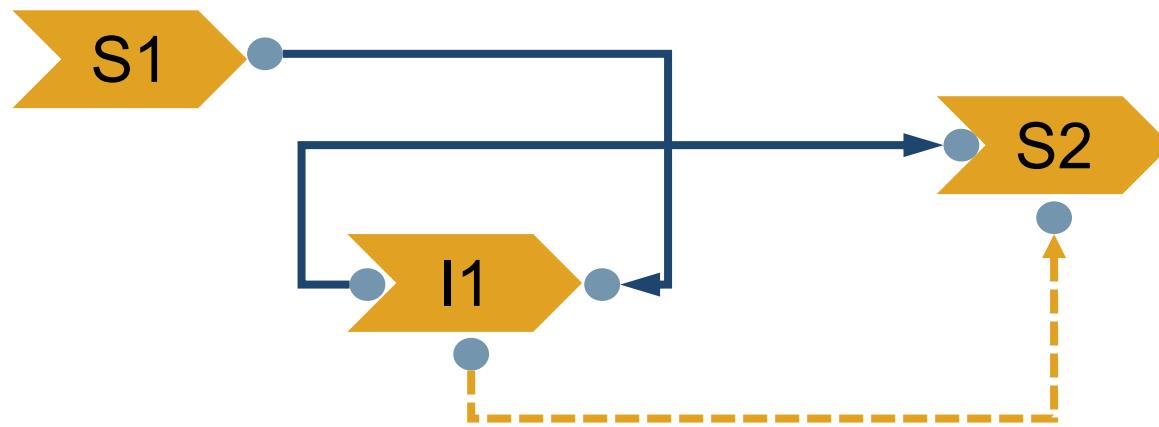
Supplementary File 2

One-variant images of CSVs detected by SVision in HG00733

Note:

- CSVs are grouped based on their graph ID. For CSVs belonging a certain graph, the diagram of the graph is first shown, following by complex events.
- Each CSV is named as *chrom-start-end*.
- The y-axis of the denoised image is the read used by SVision for discovery, and the x-axis is the reference sequence.

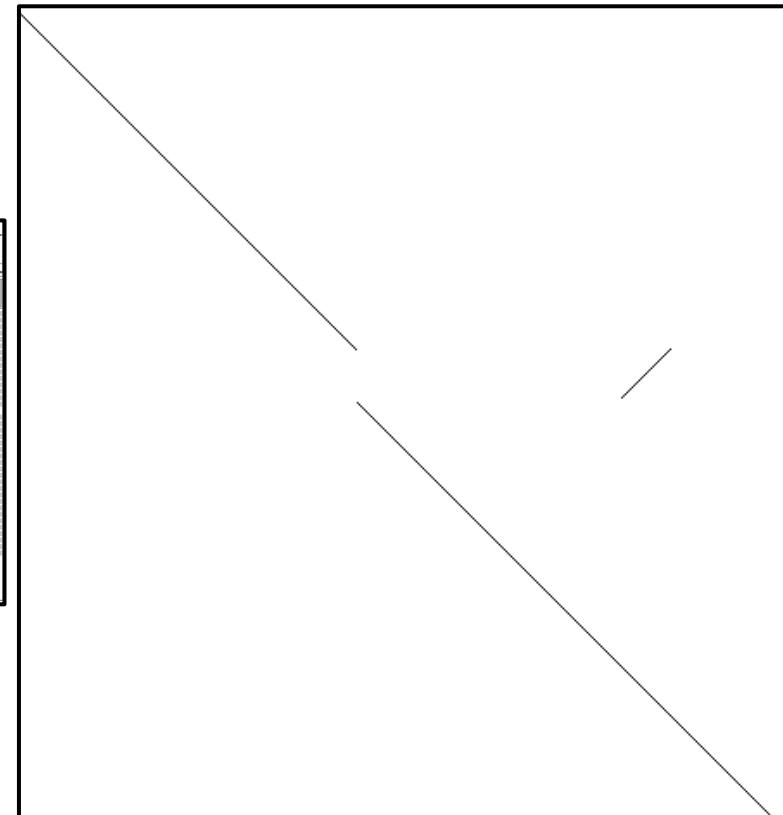
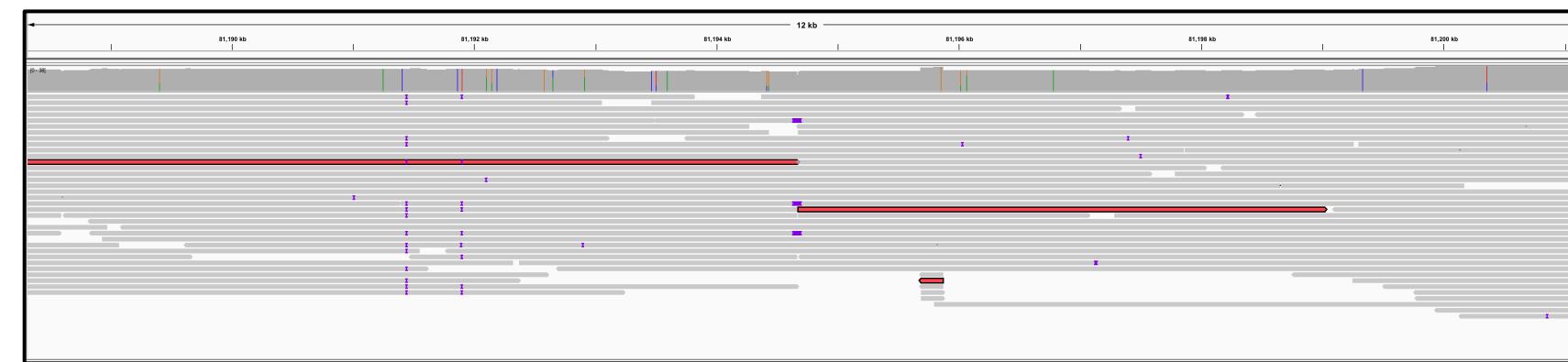
GraphID-12, Inverted duplication



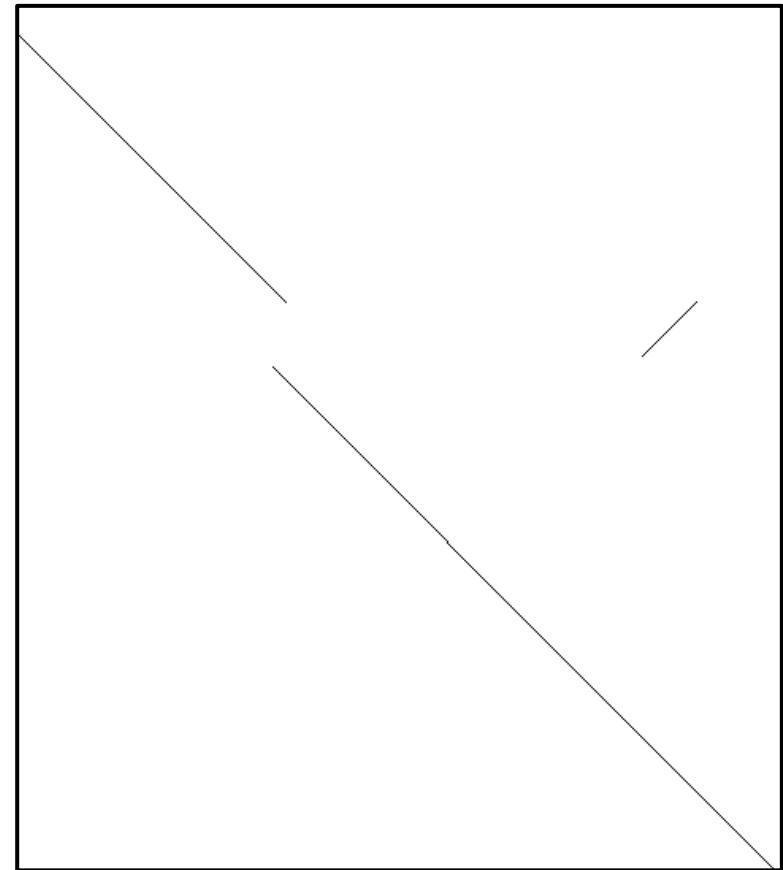
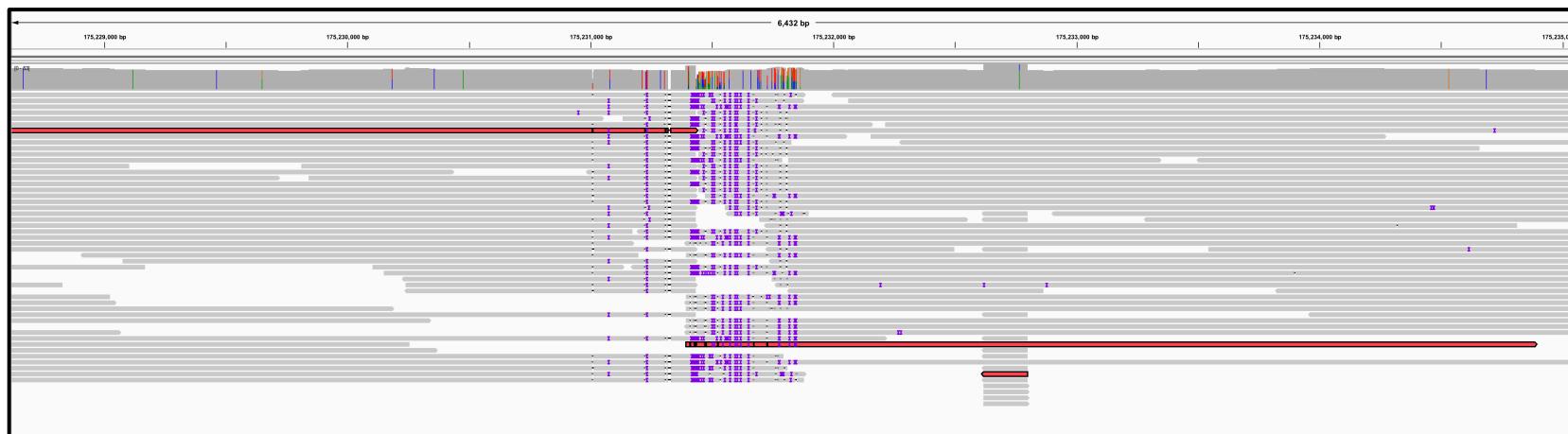
Nodes=S:2,I:1,D:1

Supplementary File 2

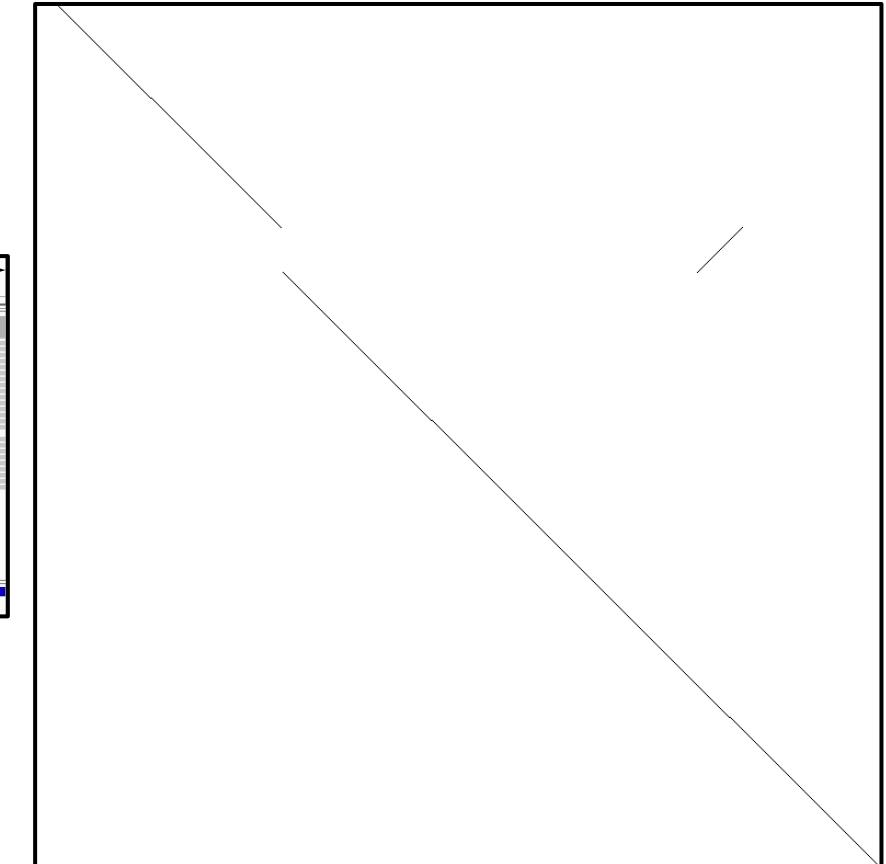
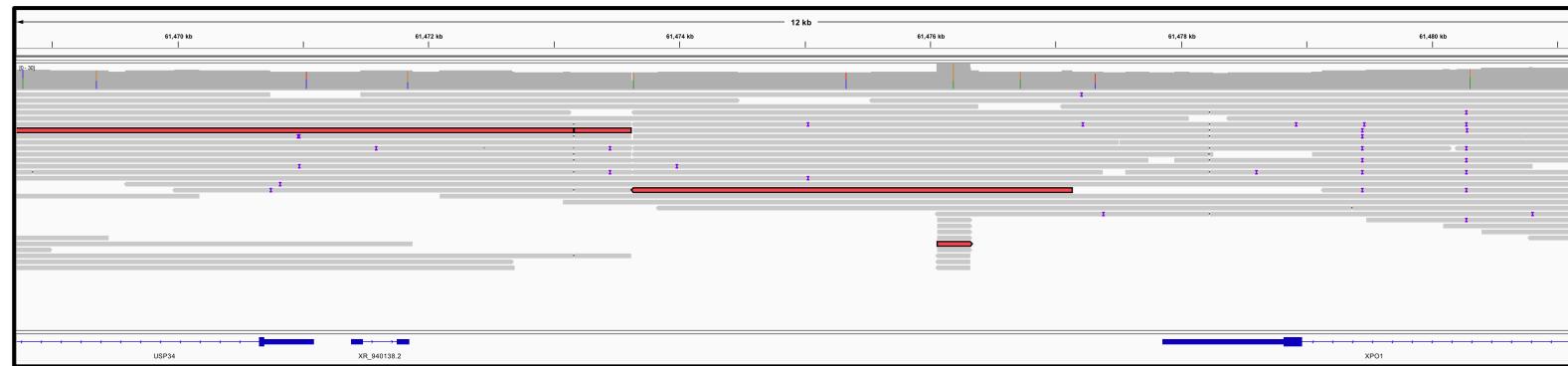
❖ chr1-81194666-81195870



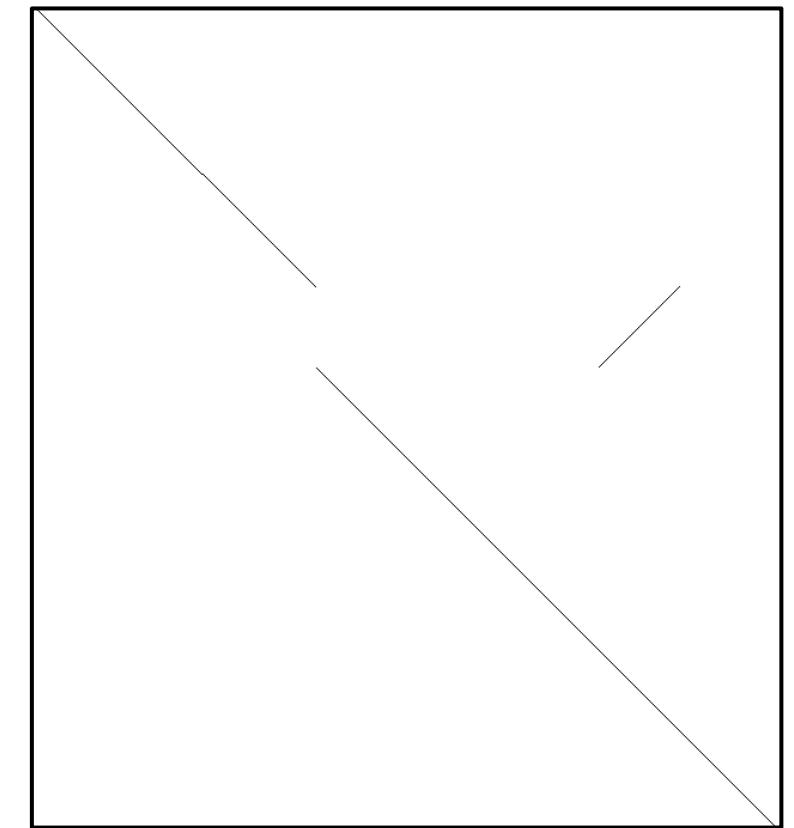
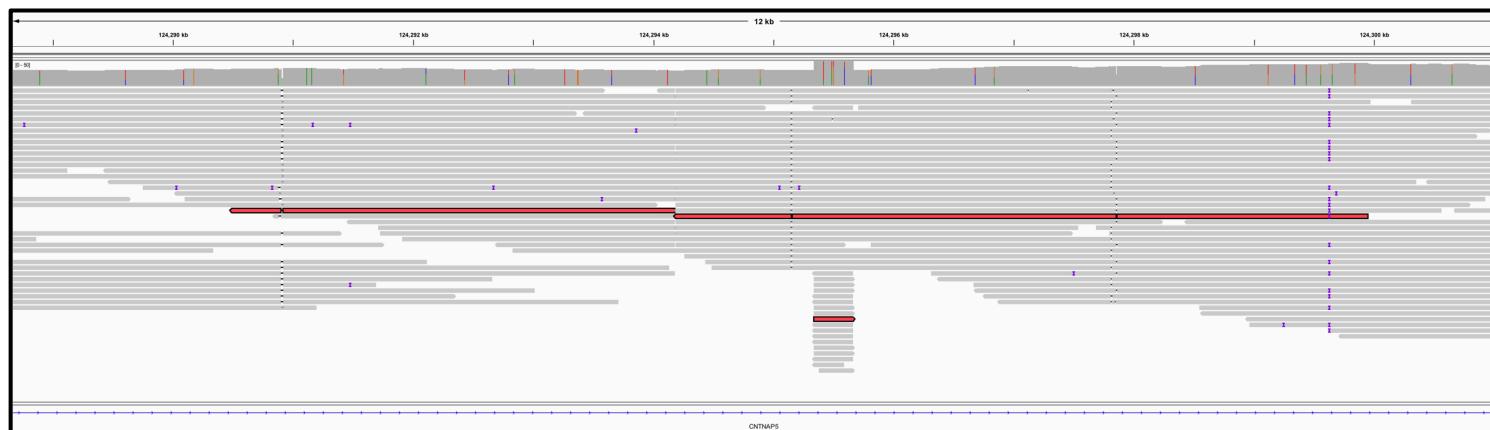
❖ chr1-175231433-175232798



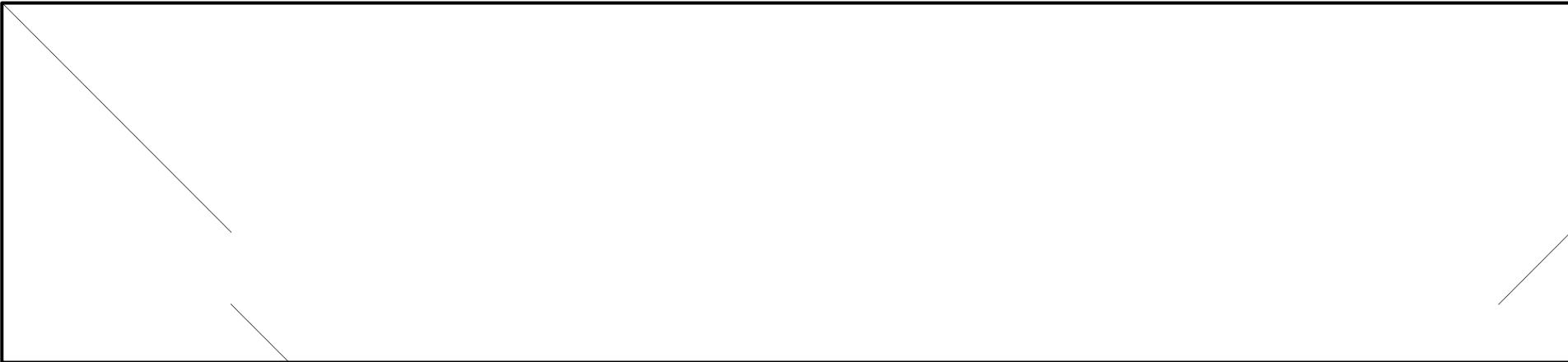
❖ chr2-61473618-61476320



❖ chr2-124294179-124295658

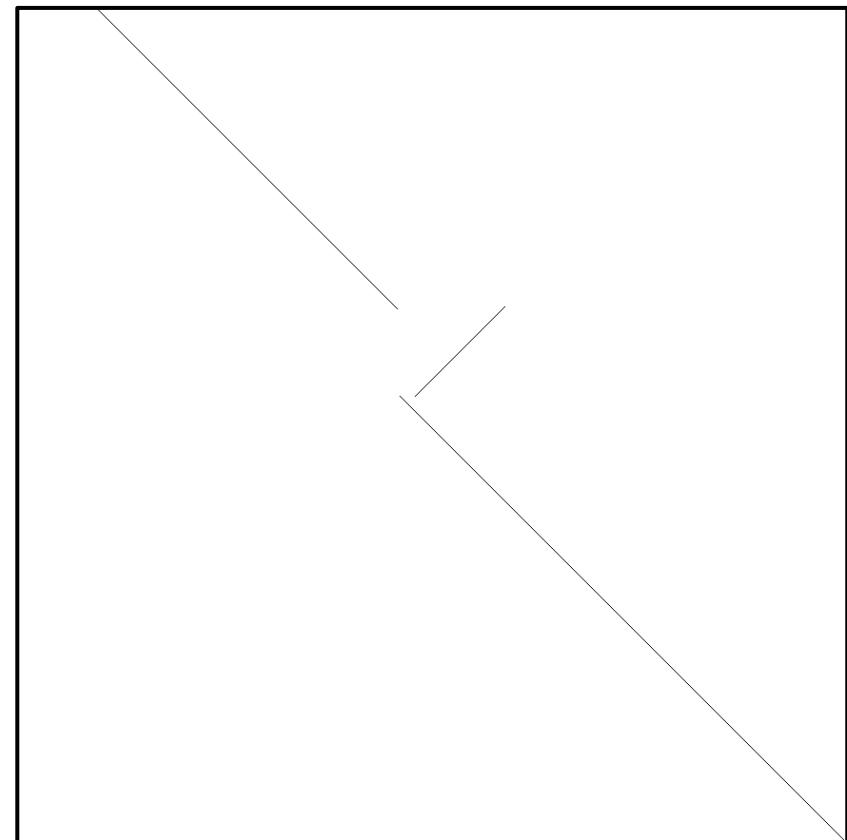
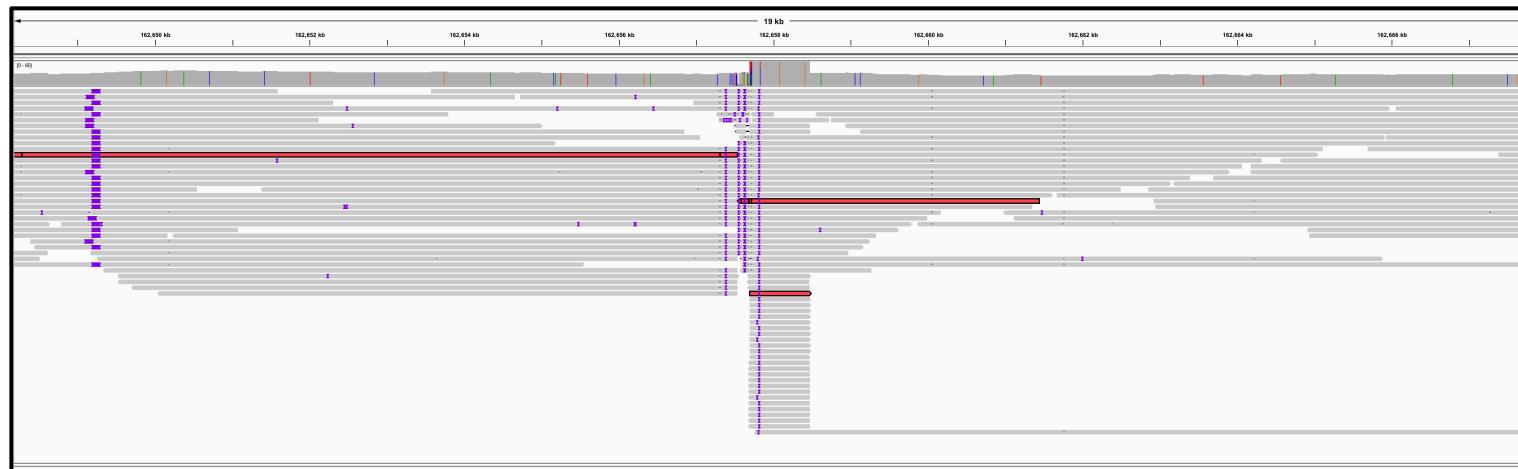


❖ chr4-69220529-69274512

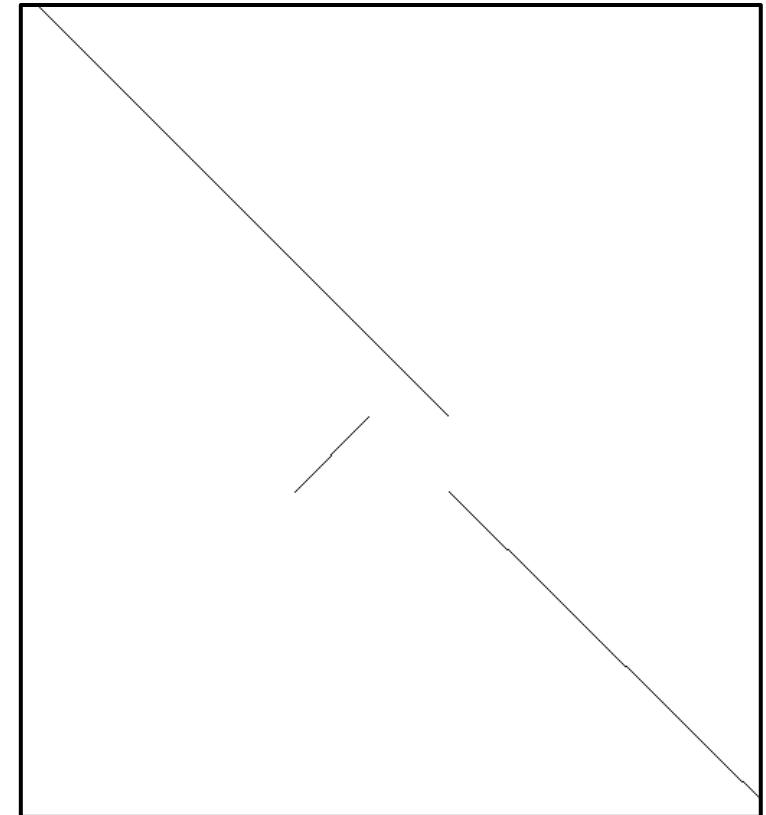
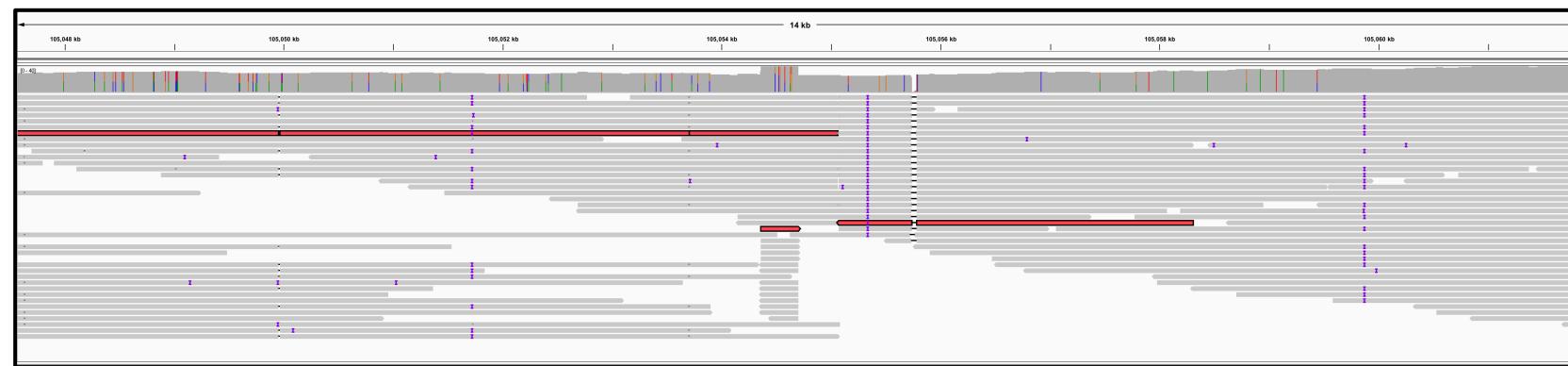


Supplementary File 2

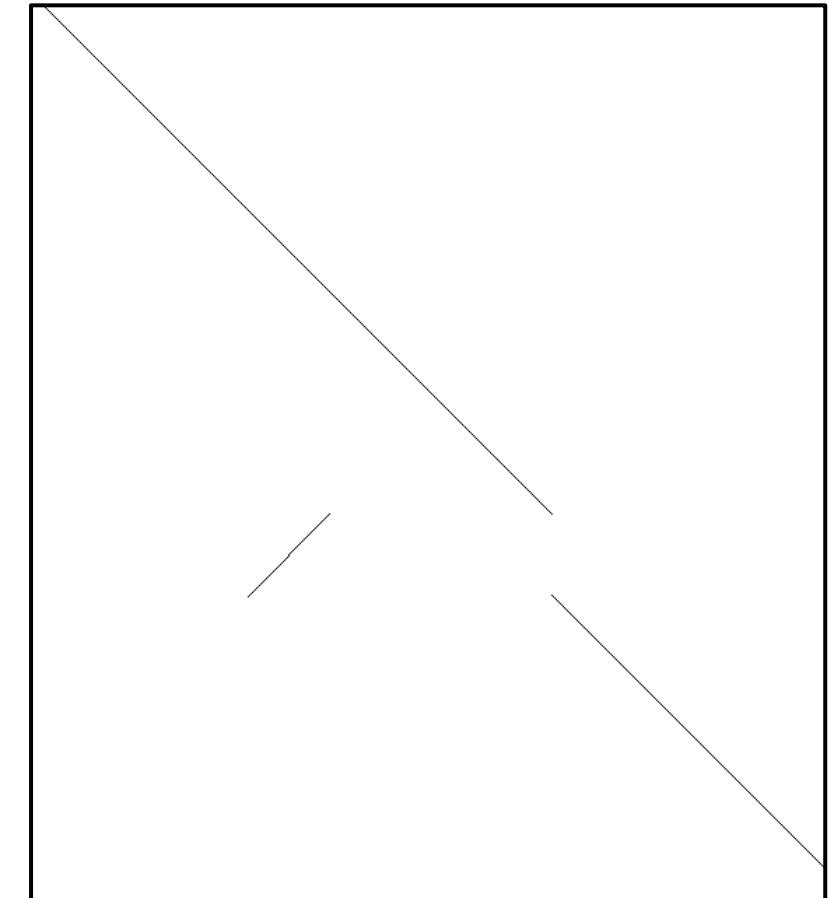
❖ chr4-162657531-162658465



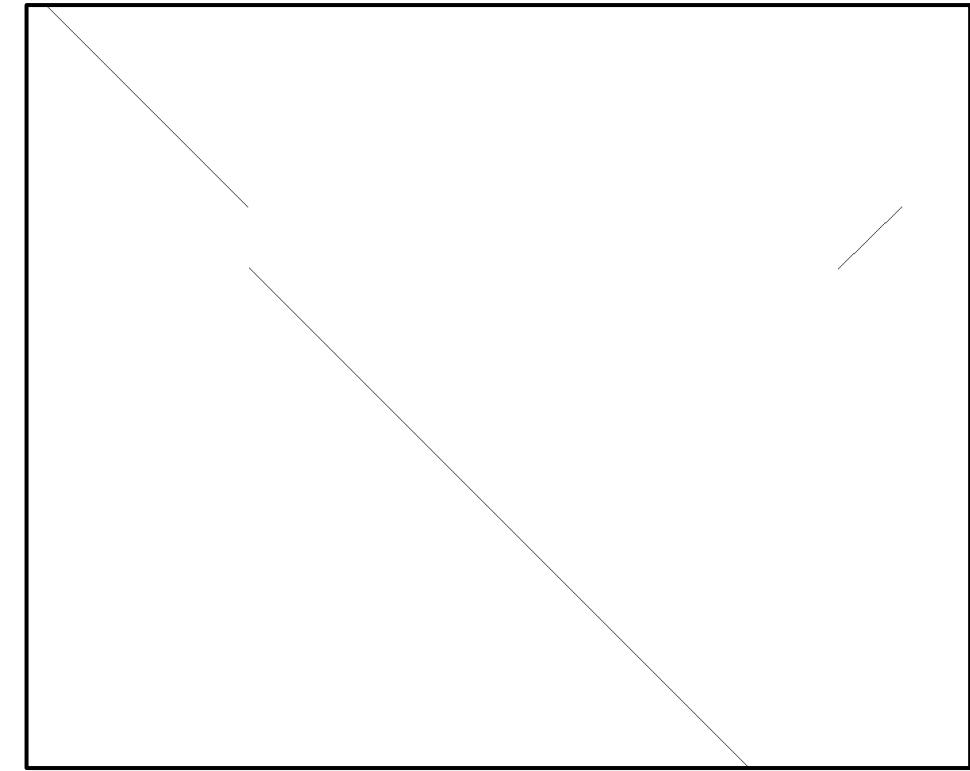
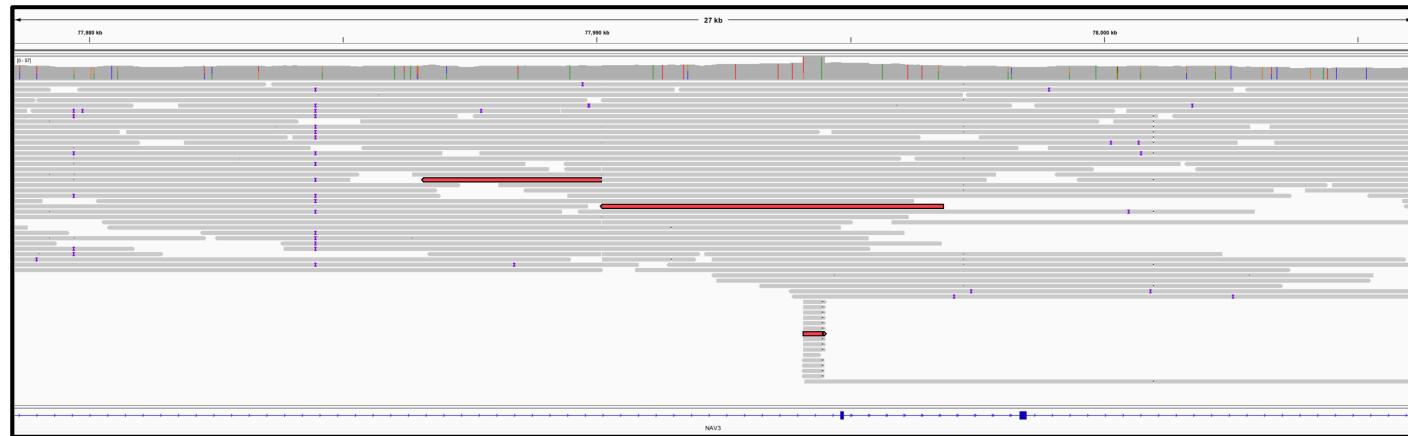
❖ chr9-105054361-105055065



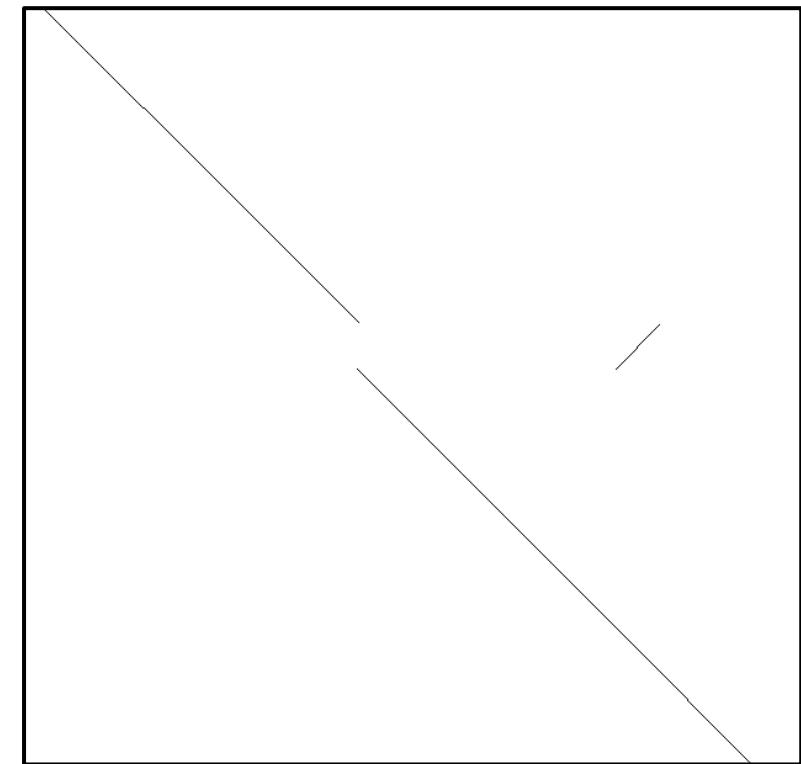
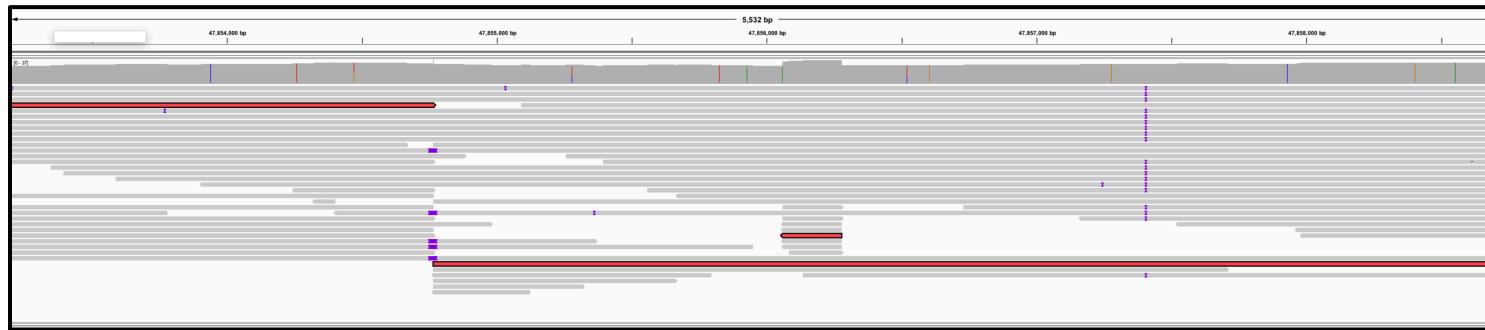
❖ chr12-71315487-71316538



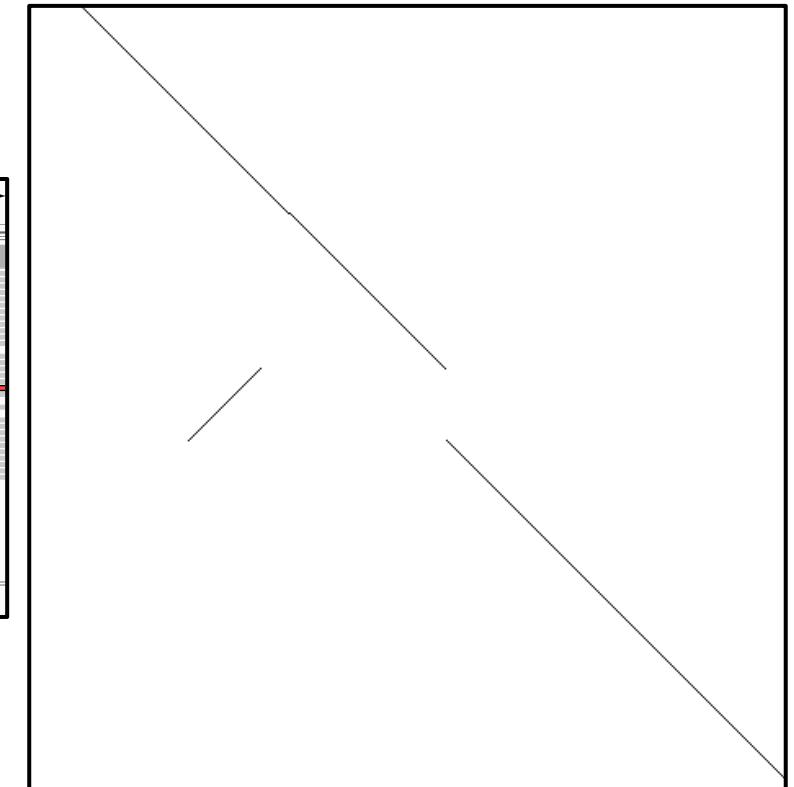
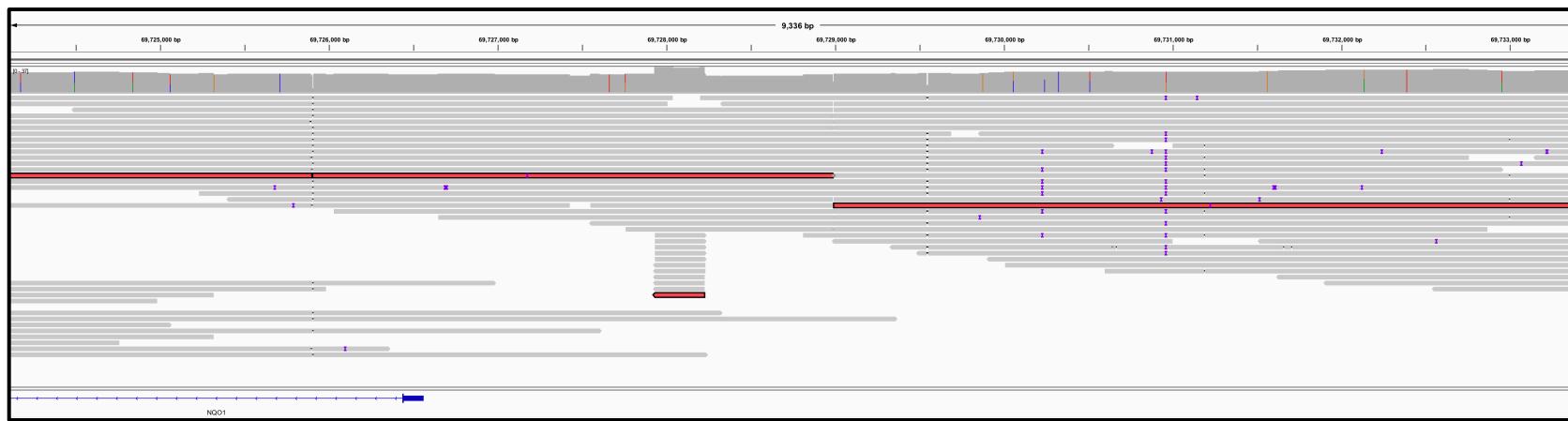
❖ chr12-77990099-77994485



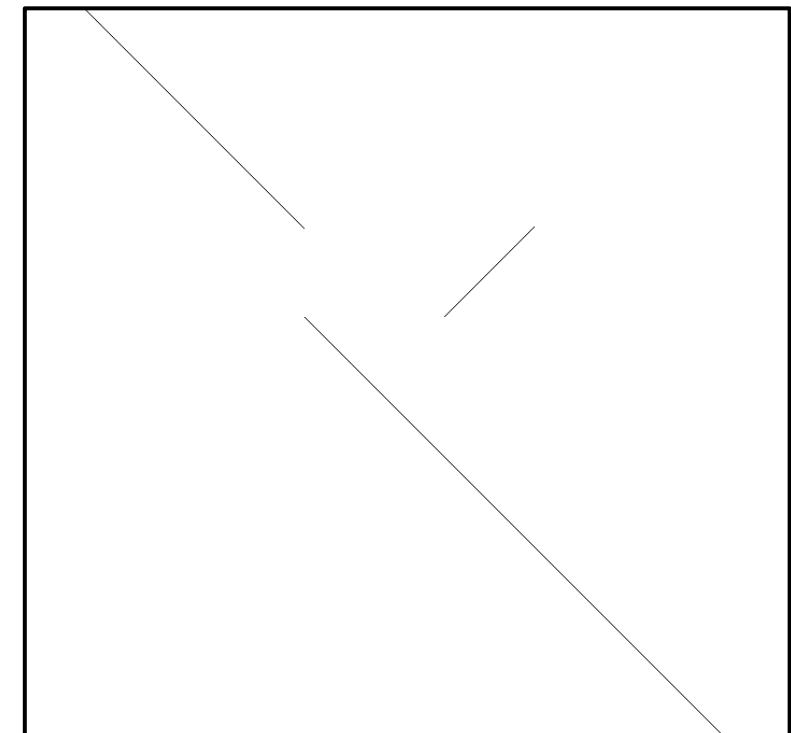
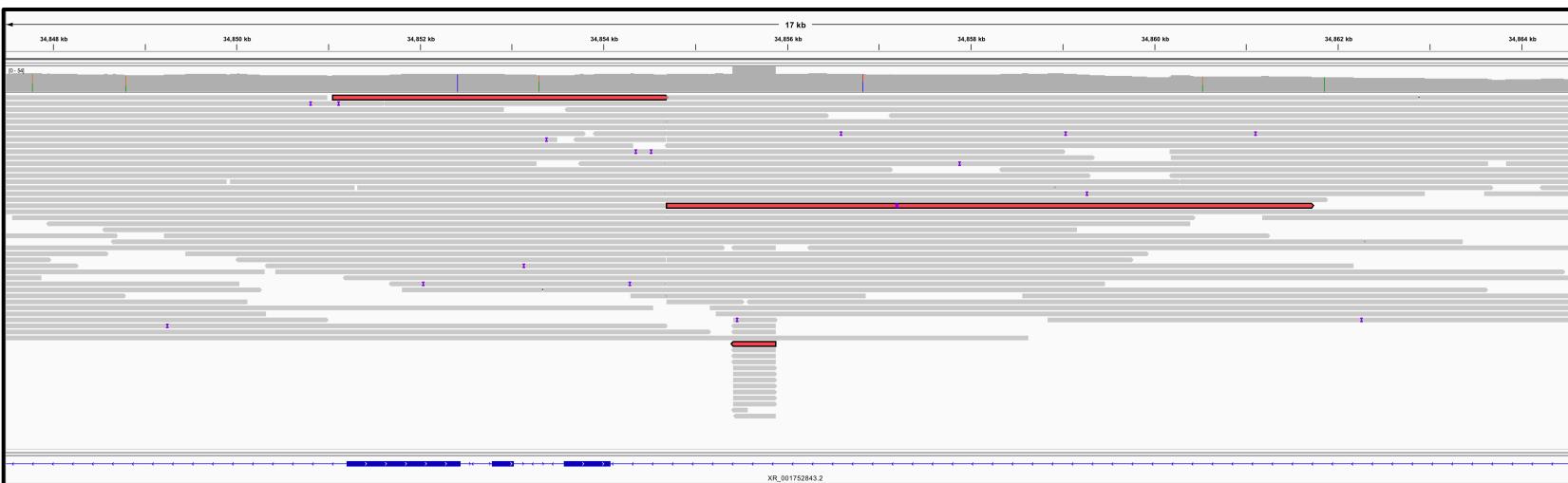
❖ chr14-47854765-47856277



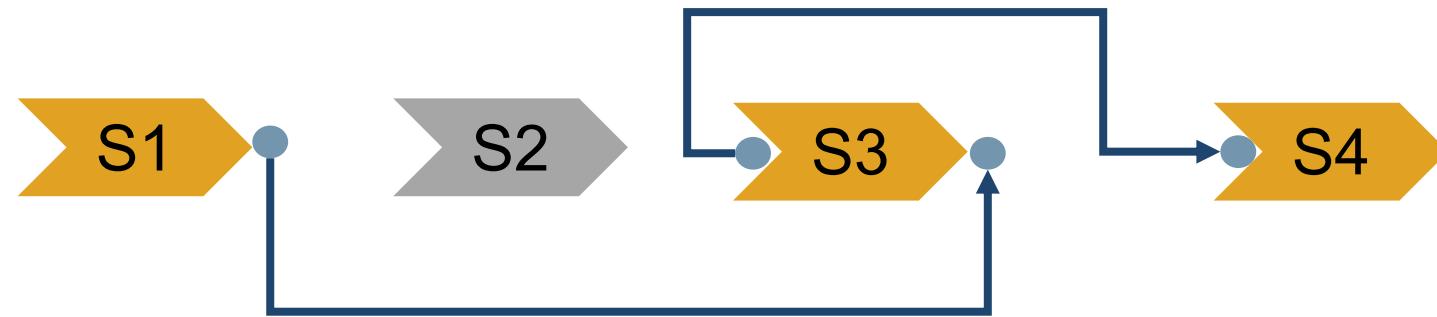
❖ chr16-69727929-69728992



❖ chr17-34854678-34855853



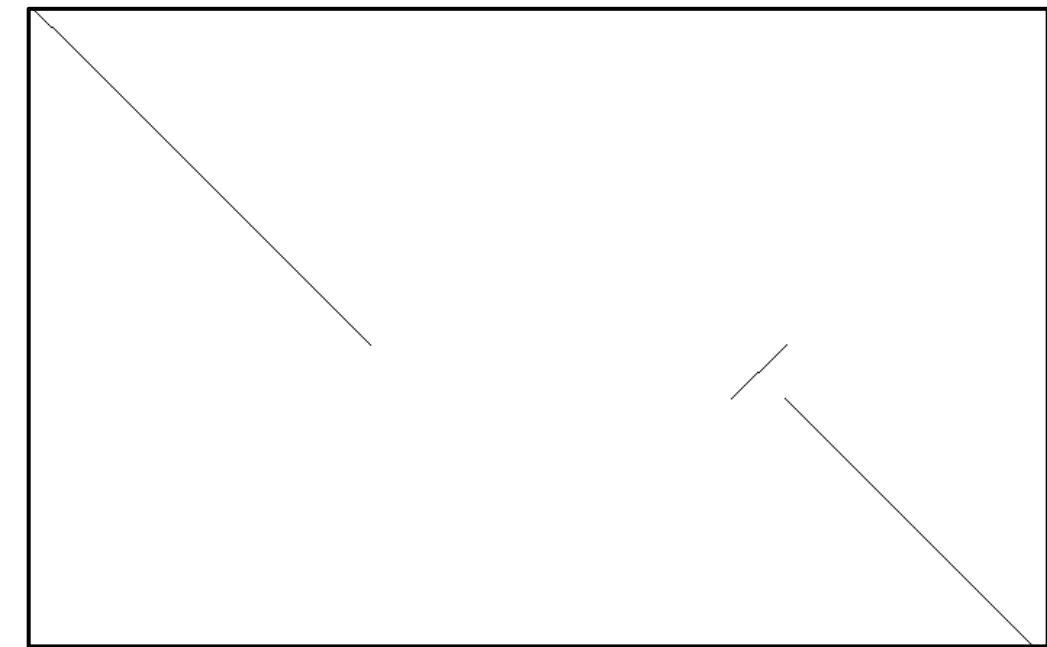
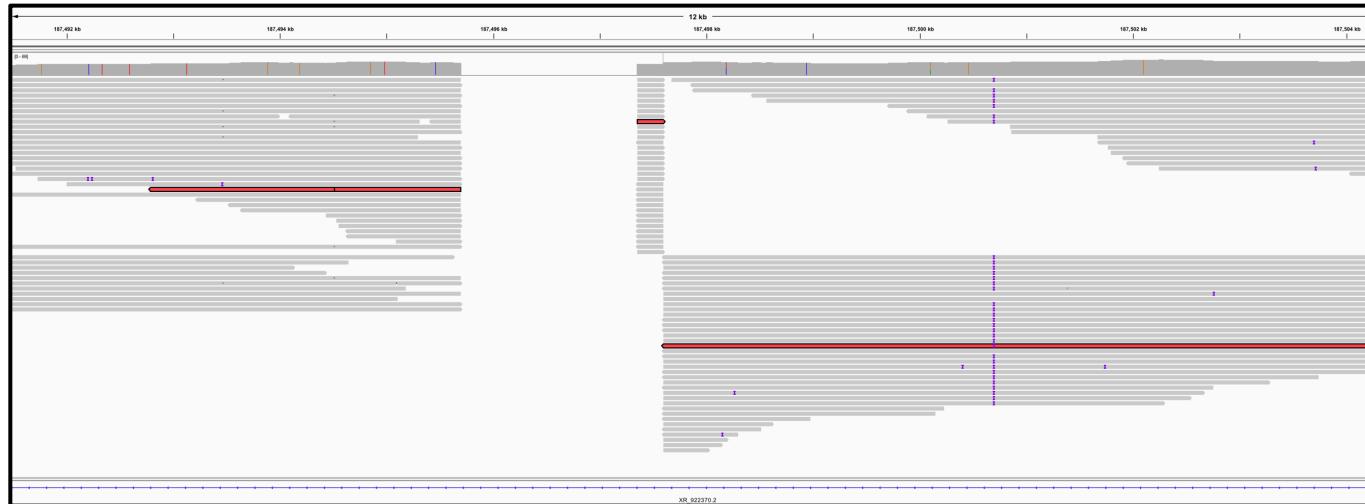
GraphID-15, deletion-inversion



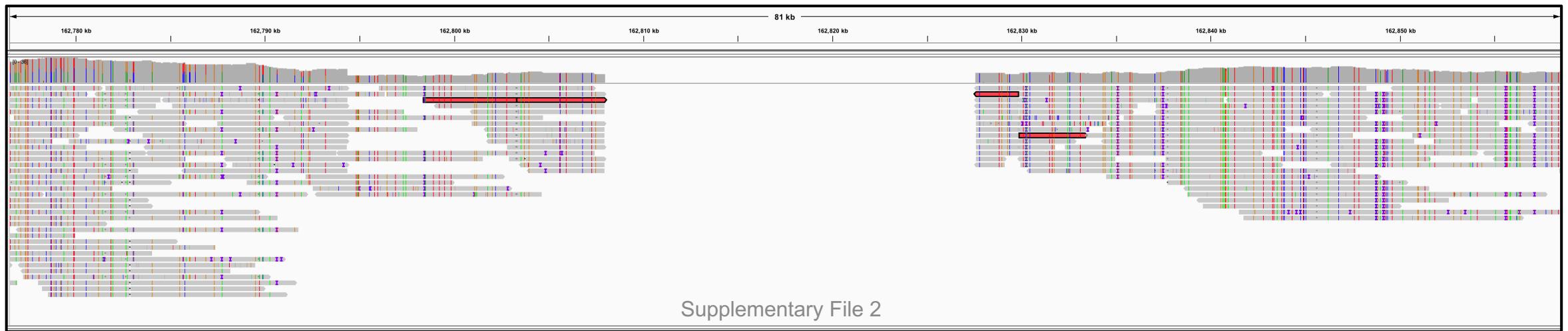
Nodes=S:4

Supplementary File 2

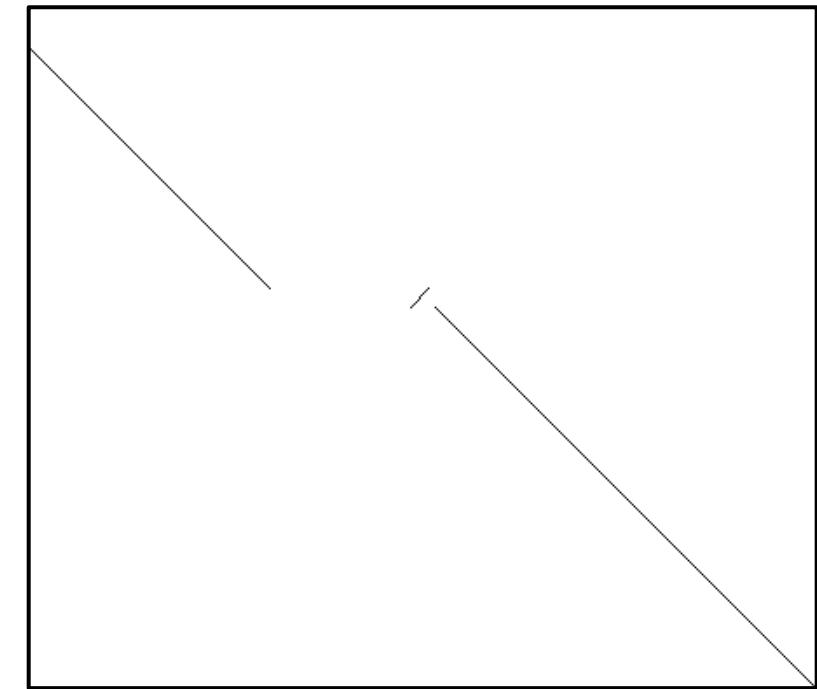
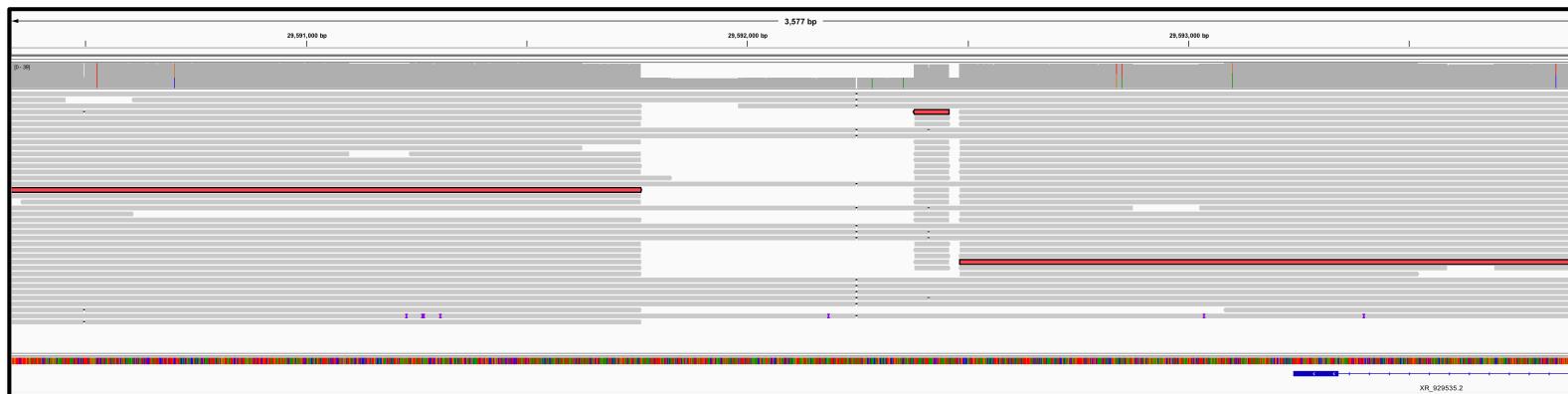
❖ chr1-187495696-187497594



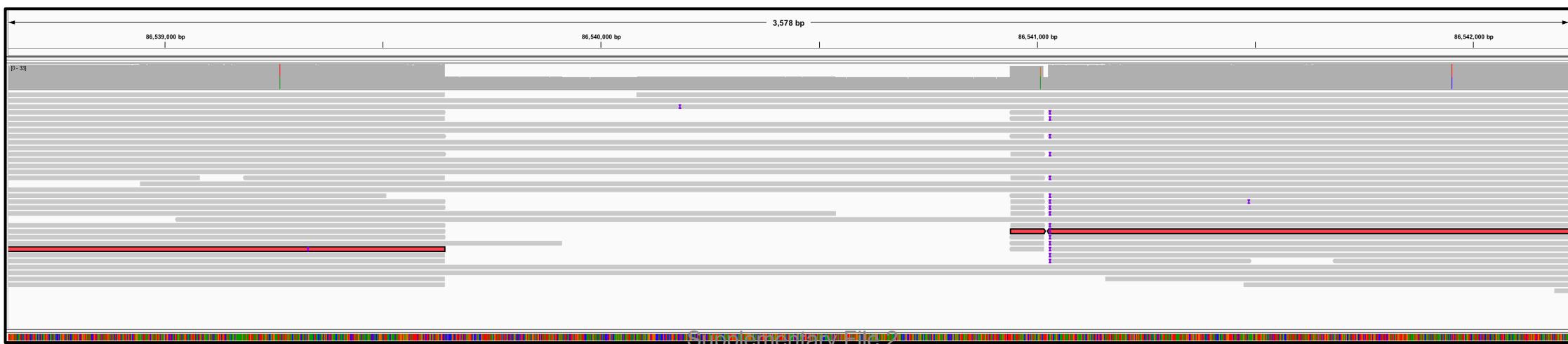
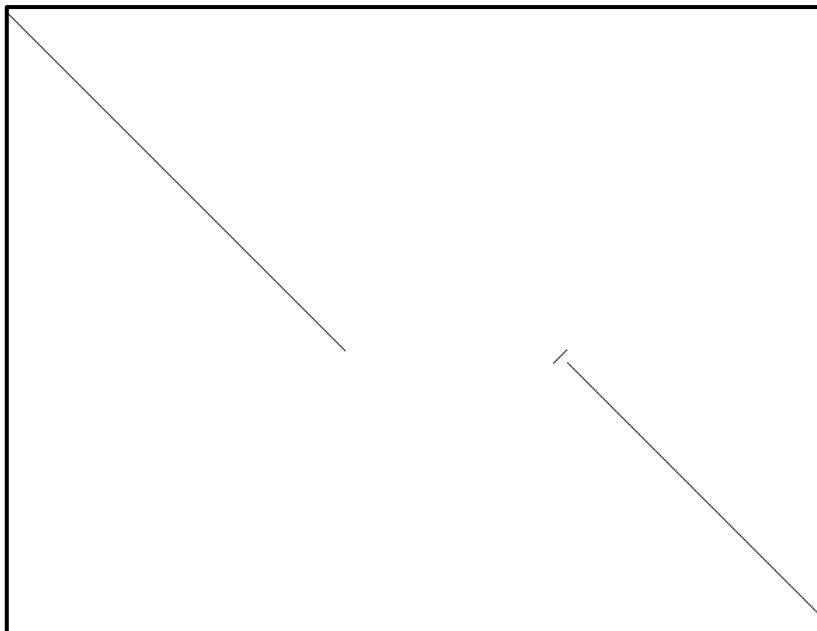
❖ chr3-162807955-162829868



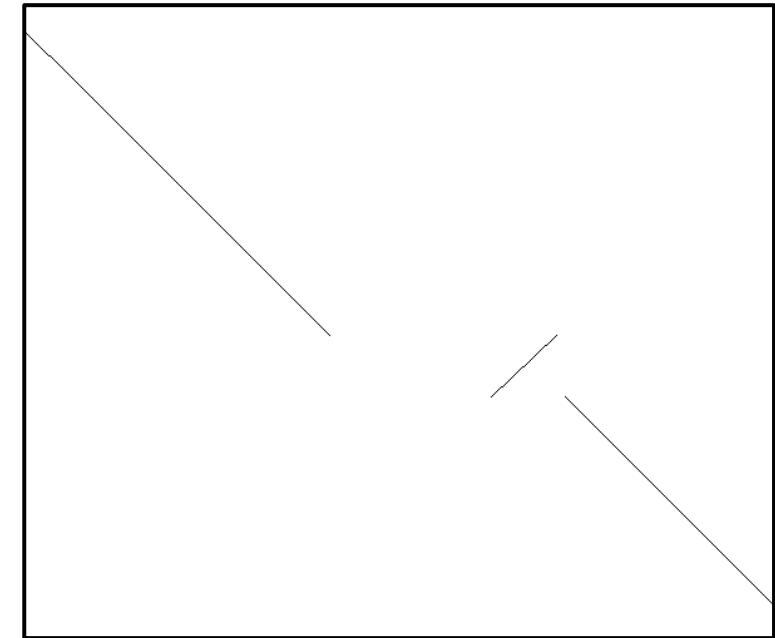
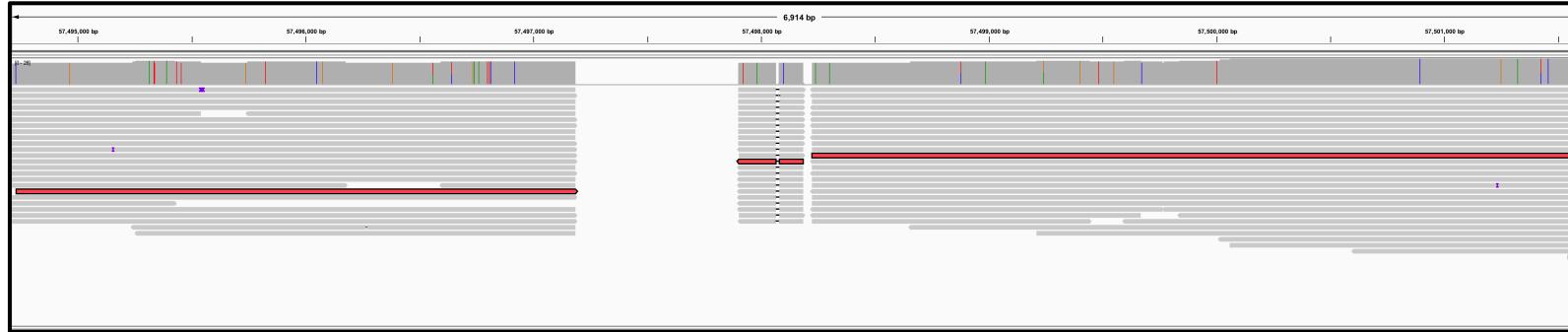
❖ chr9-29591760-29592481



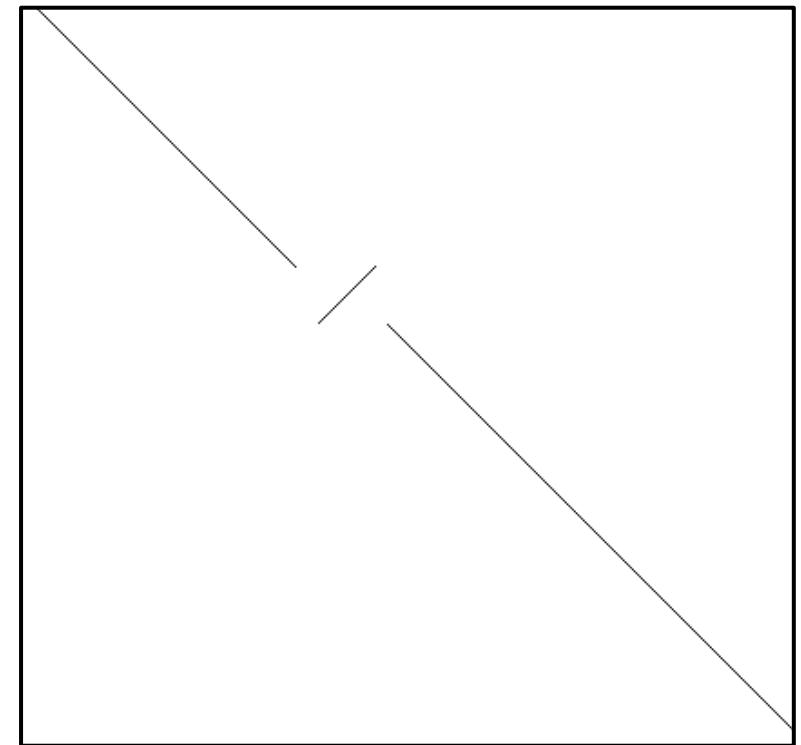
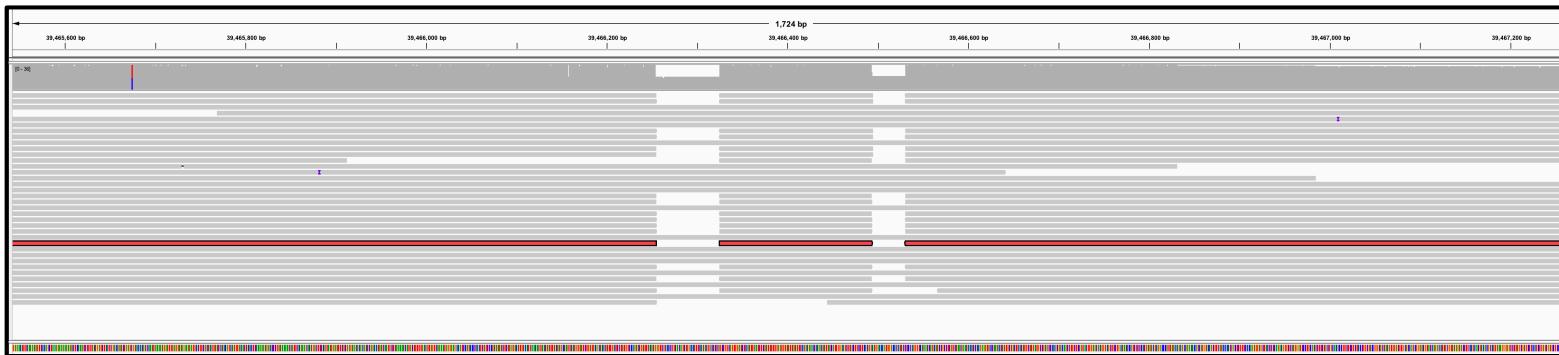
❖ chr9-86539643-86541026



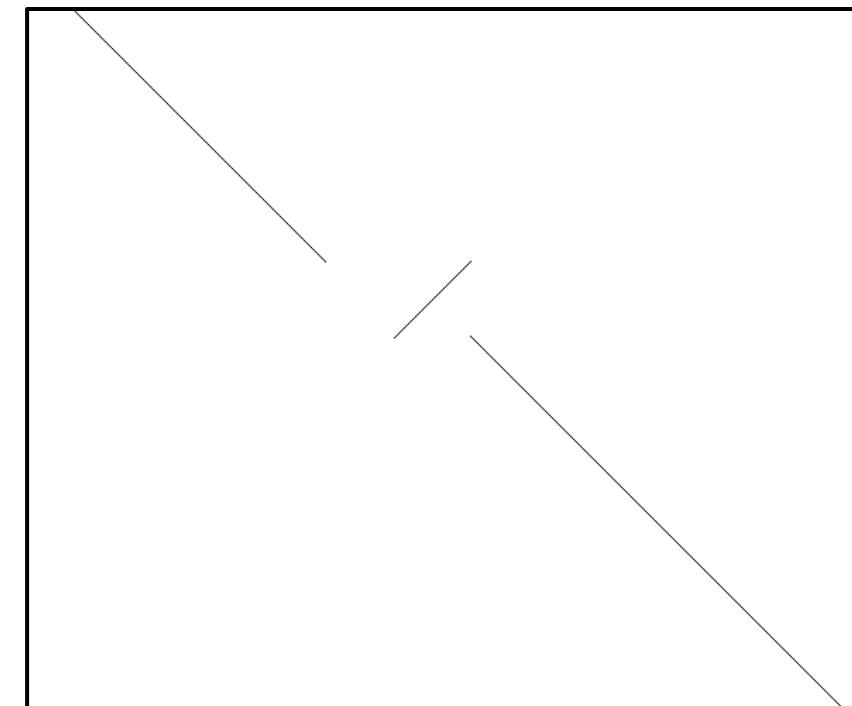
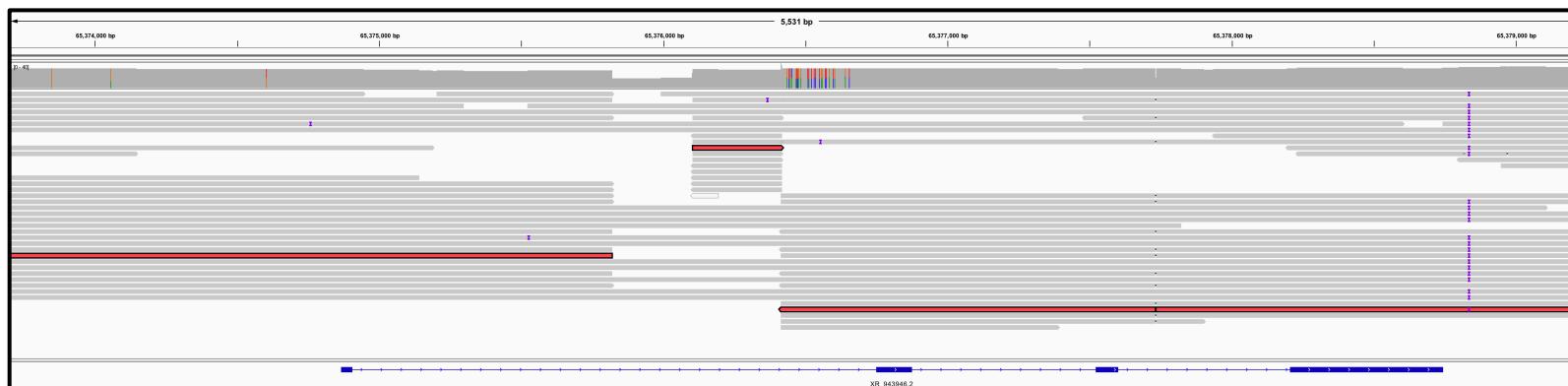
❖ chr10-57497186-57498223



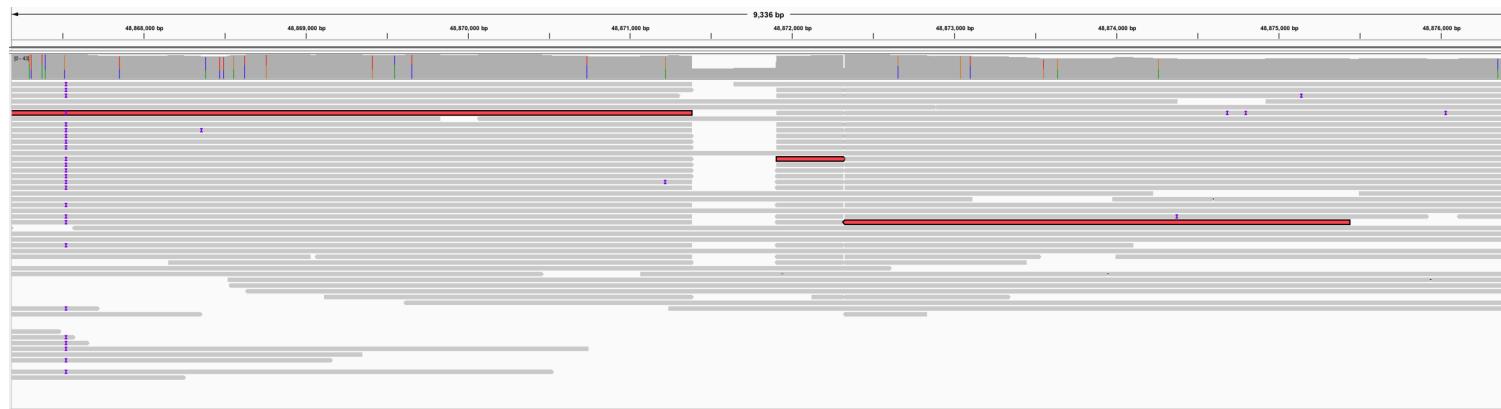
❖ chr12-39466255-39466532



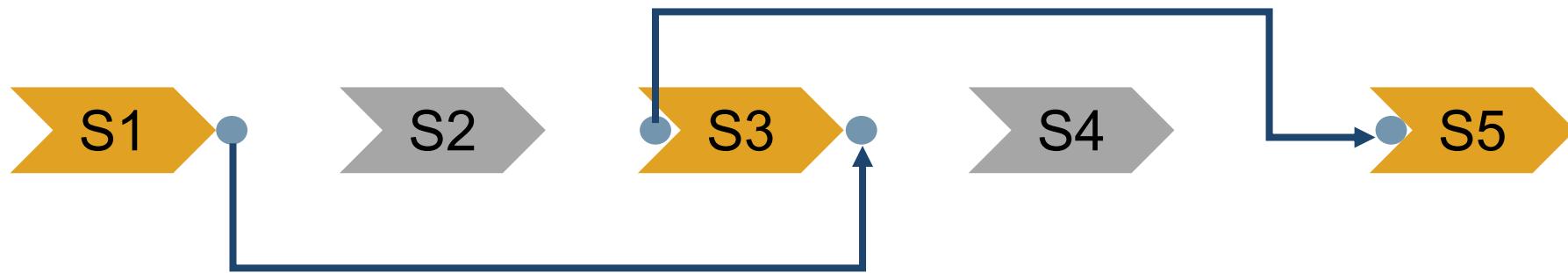
❖ chr14-65375820-65376415



❖ chr16-48871382-48872323



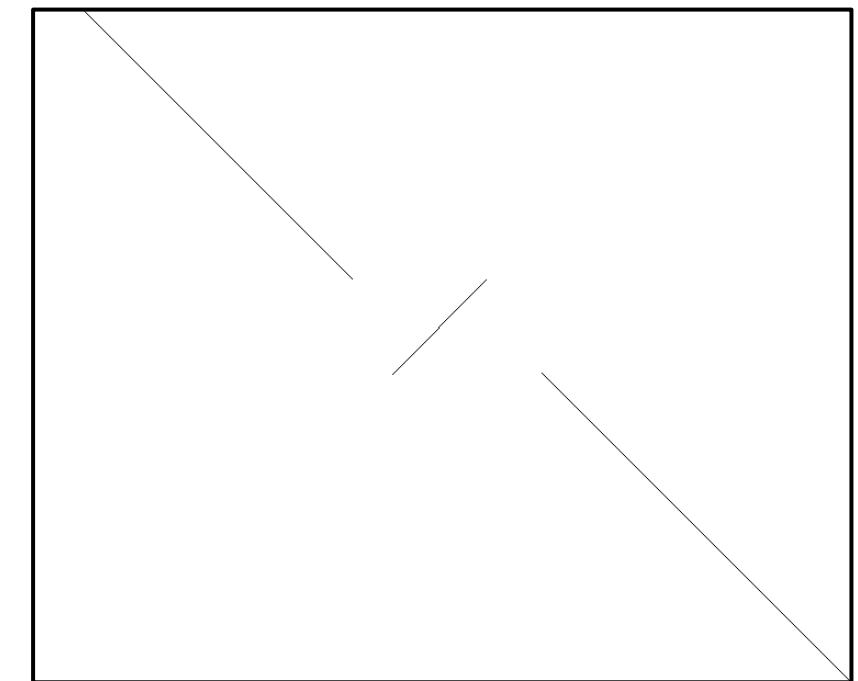
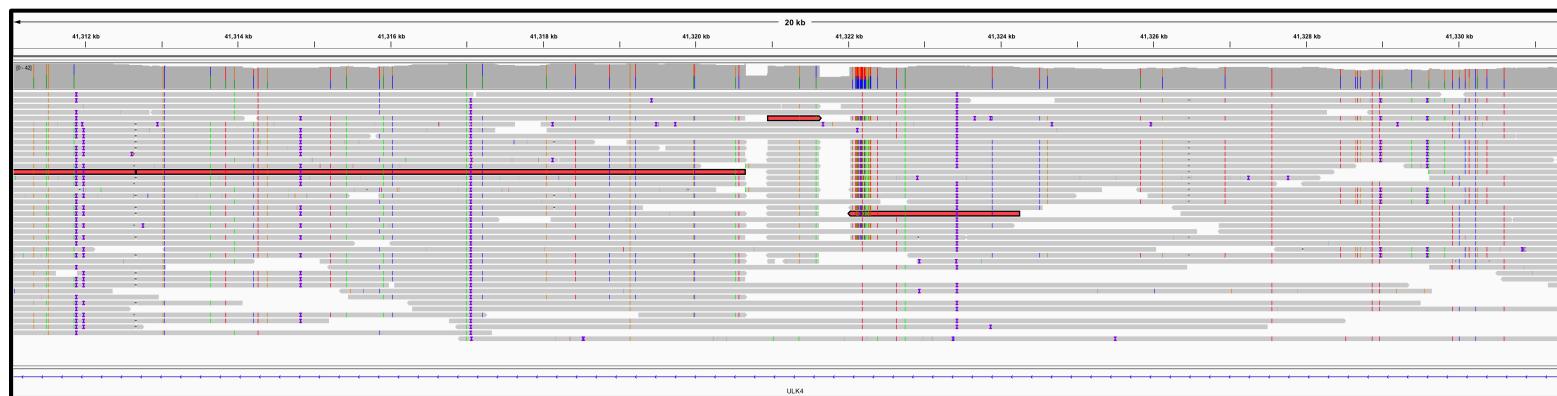
GraphID-27, deletion-spacer-deletion



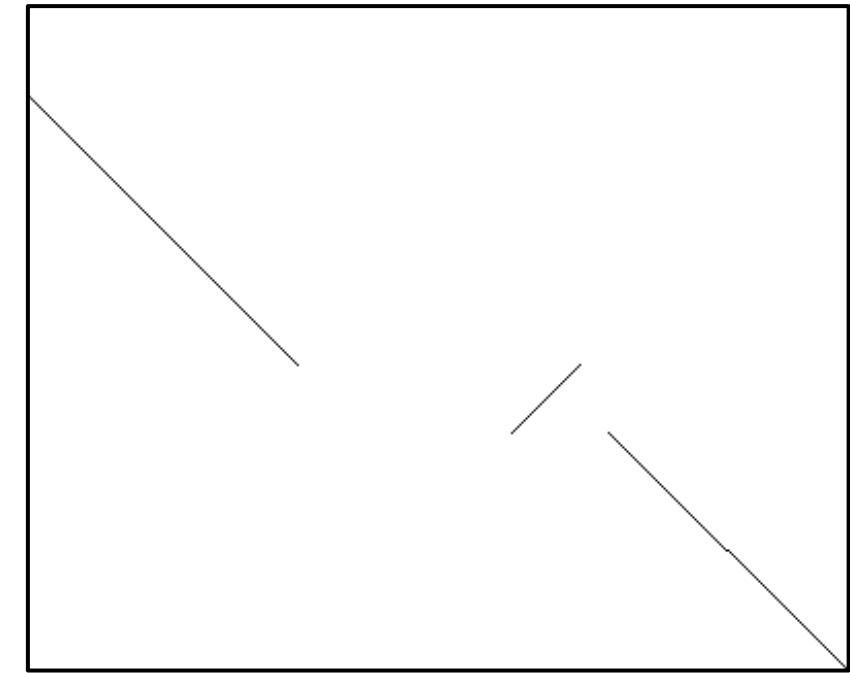
Nodes=S:5

Supplementary File 2

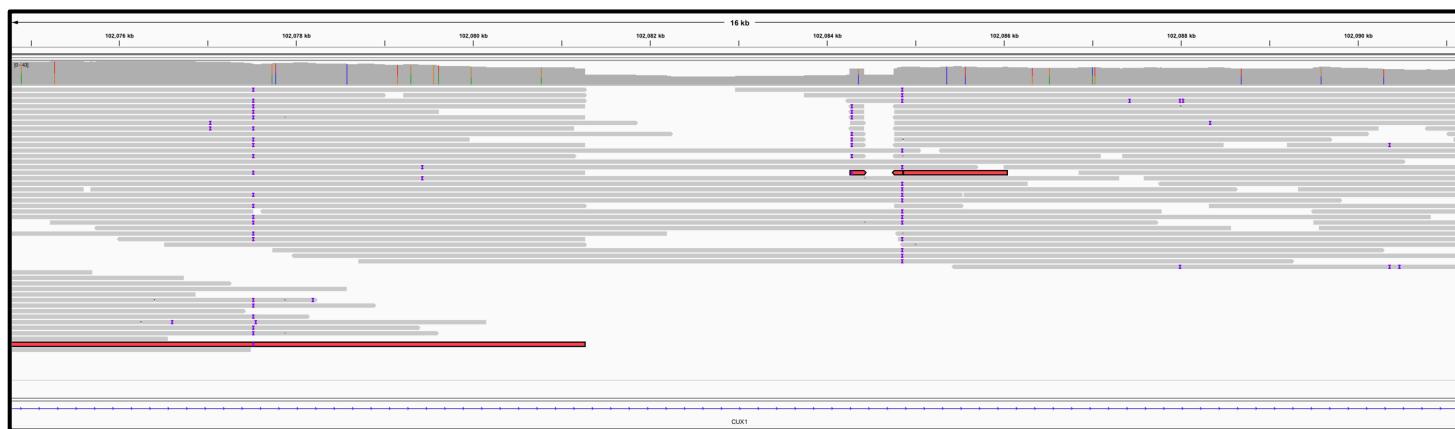
❖ chr3-41320665-41321935



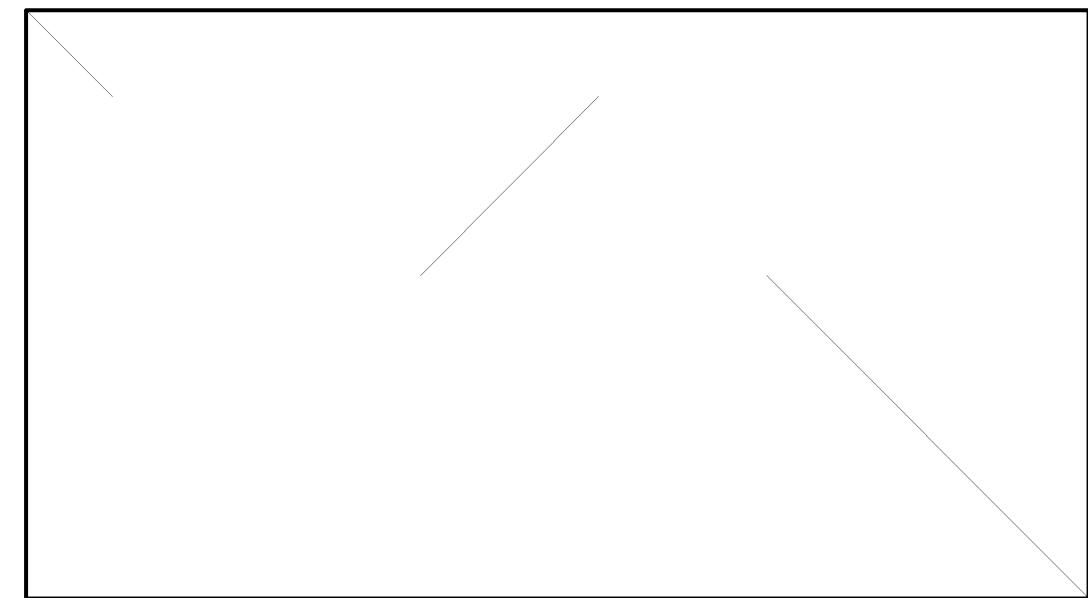
❖ chr5-148173476-148175199



❖ chr7-102081266-102084757

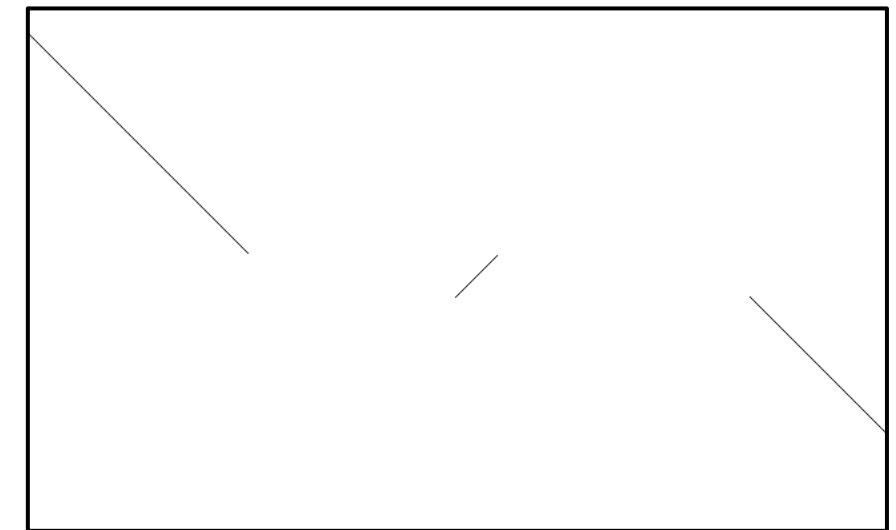
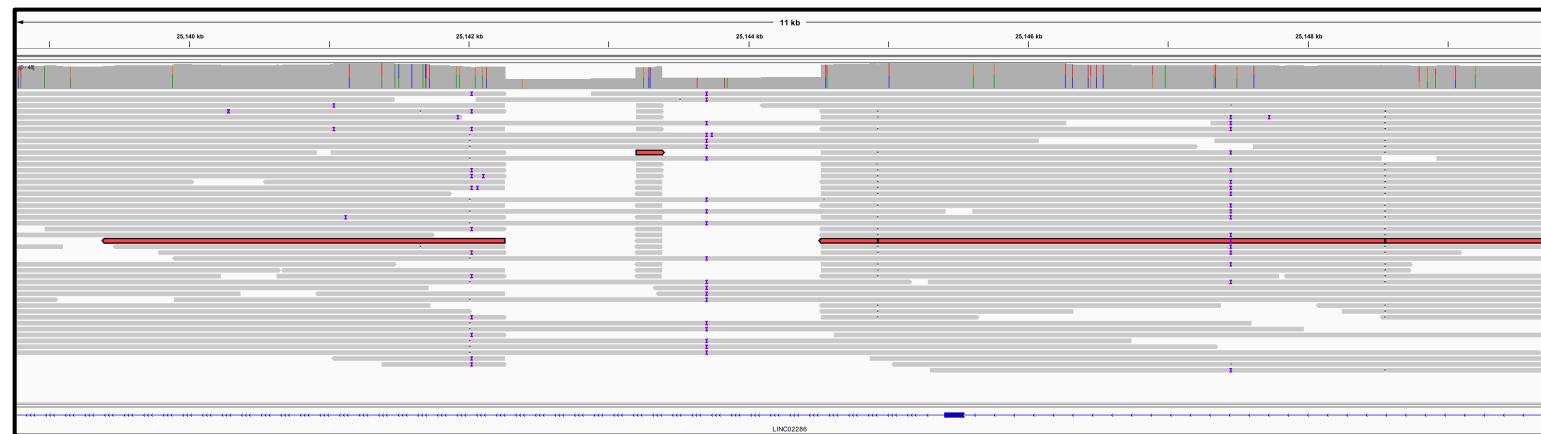


❖ chr9-62806327-62822799

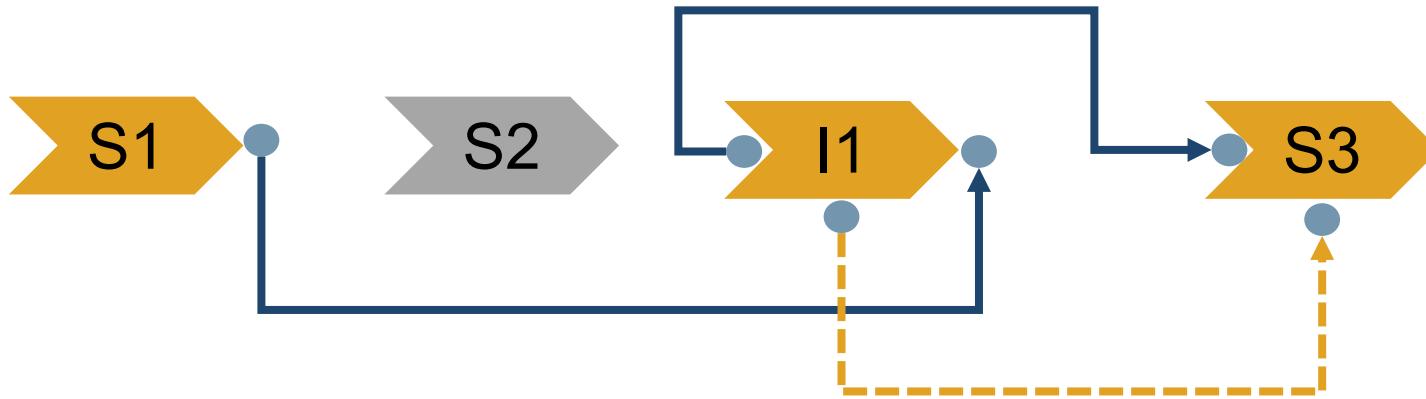


Supplementary File 2

❖ chr14-25142261-25144518



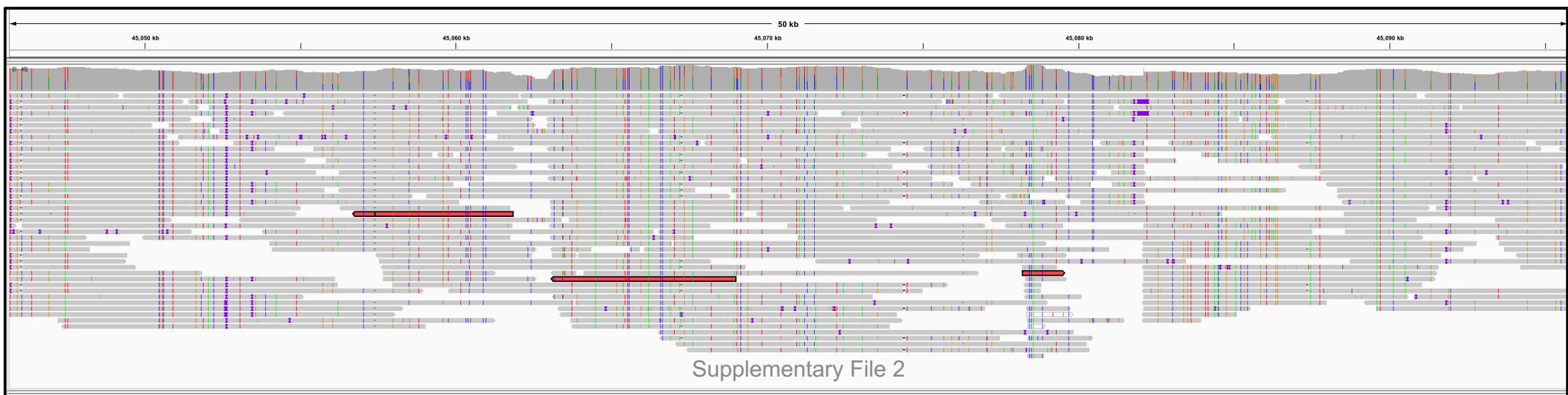
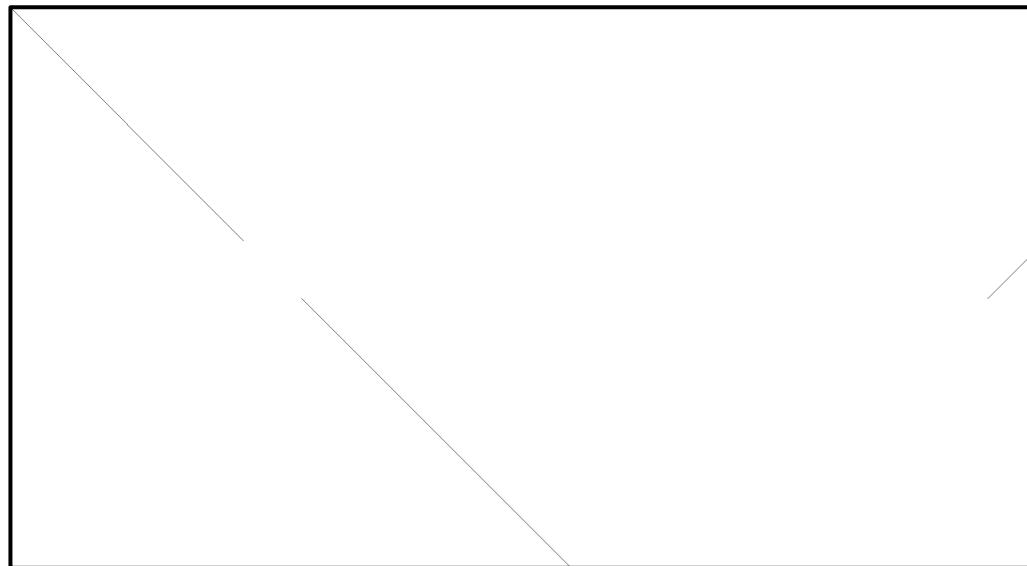
GraphID-23, deletion and inverted duplication



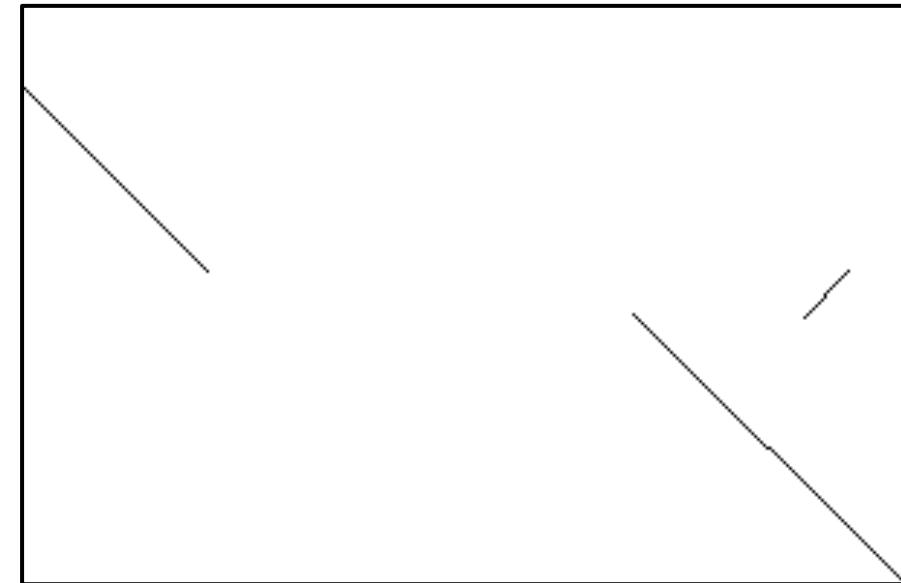
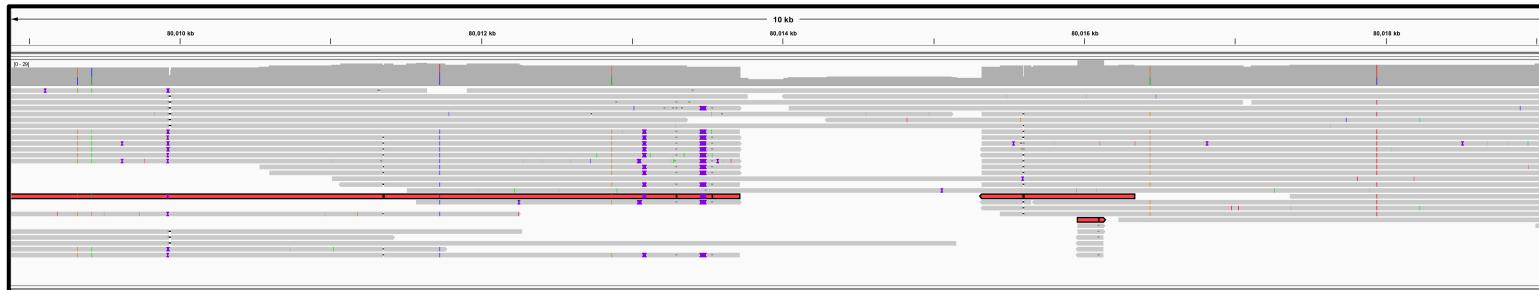
Nodes=S:3,I:1,D:1

Supplementary File 2

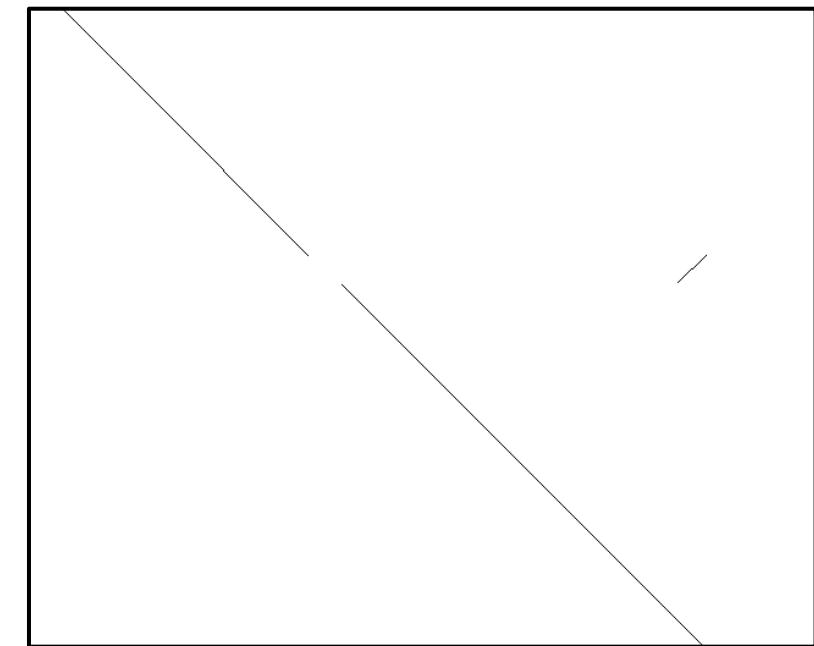
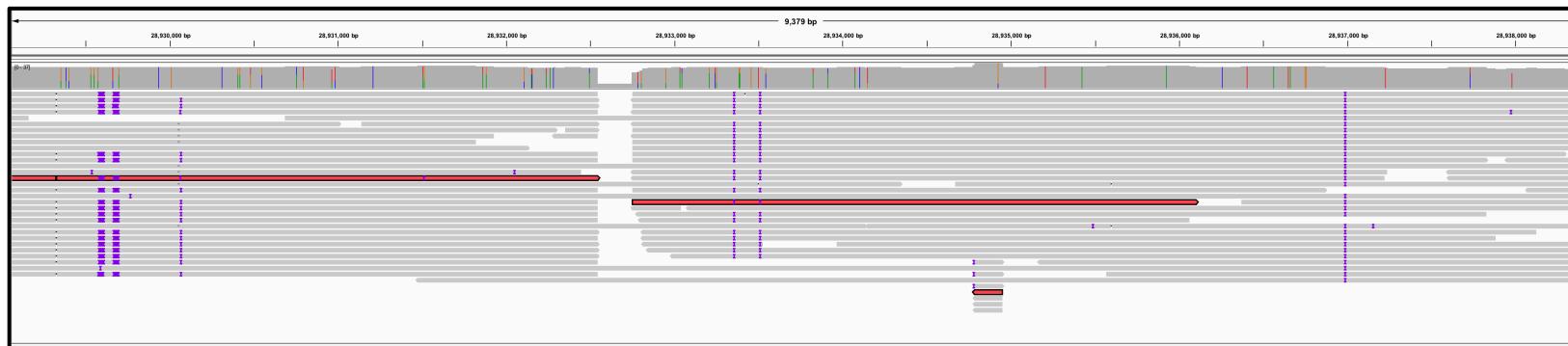
❖ chr2-45061833-45079498



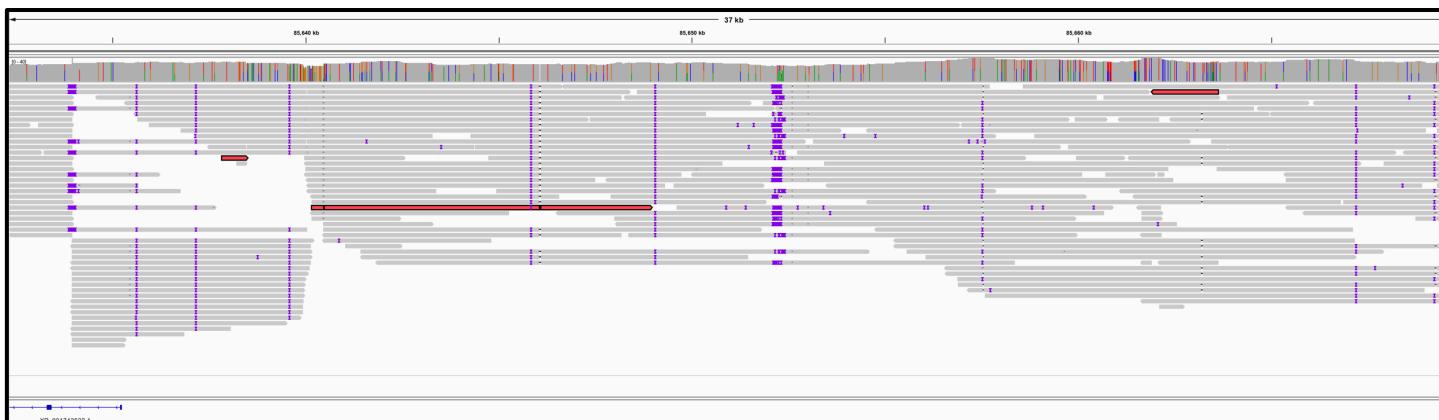
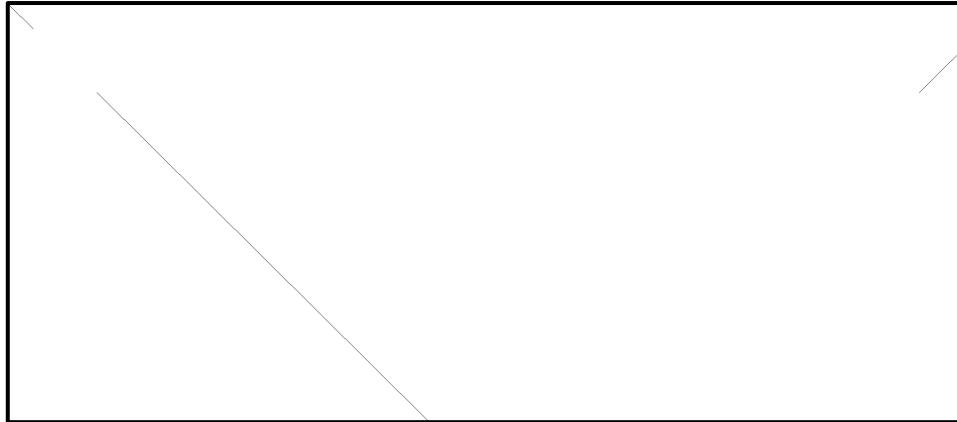
❖ chr3-80013716-80016128



❖ chr5-28932544-28934950

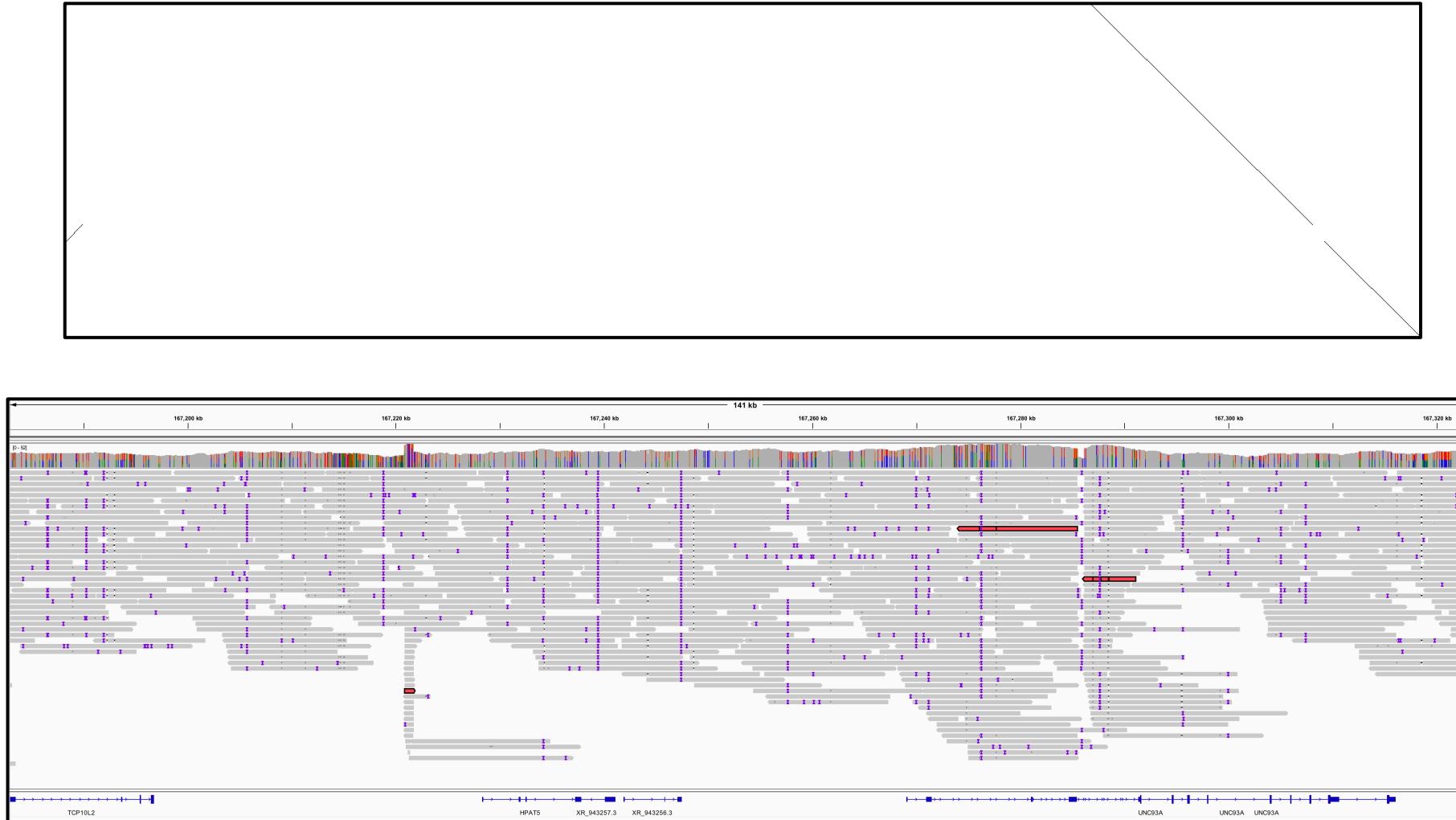


❖ chr5-85639621-85662534



Supplementary File 2

❖ chr6-167220854-167286115

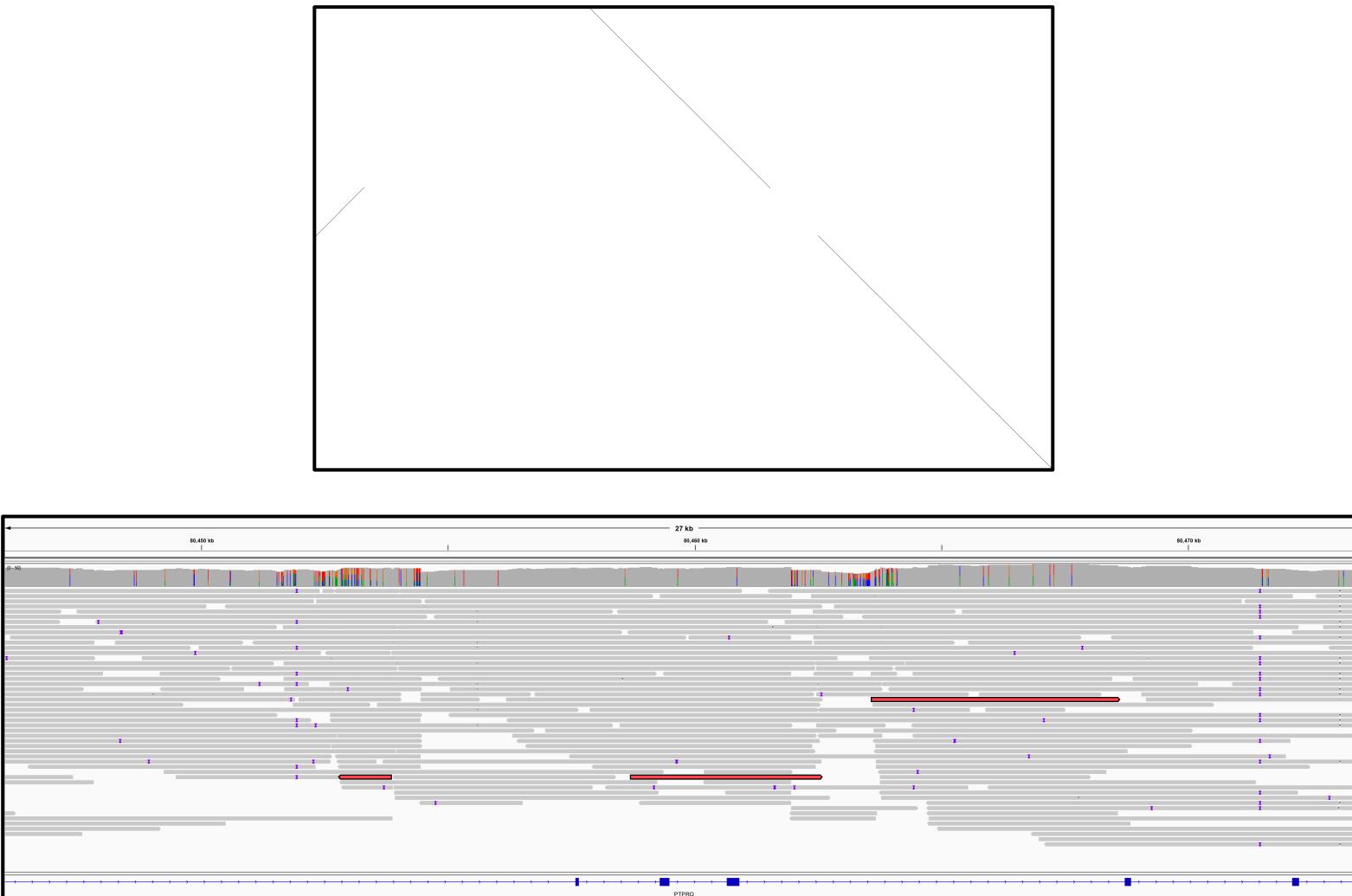


❖ chr7-32684001-32712828



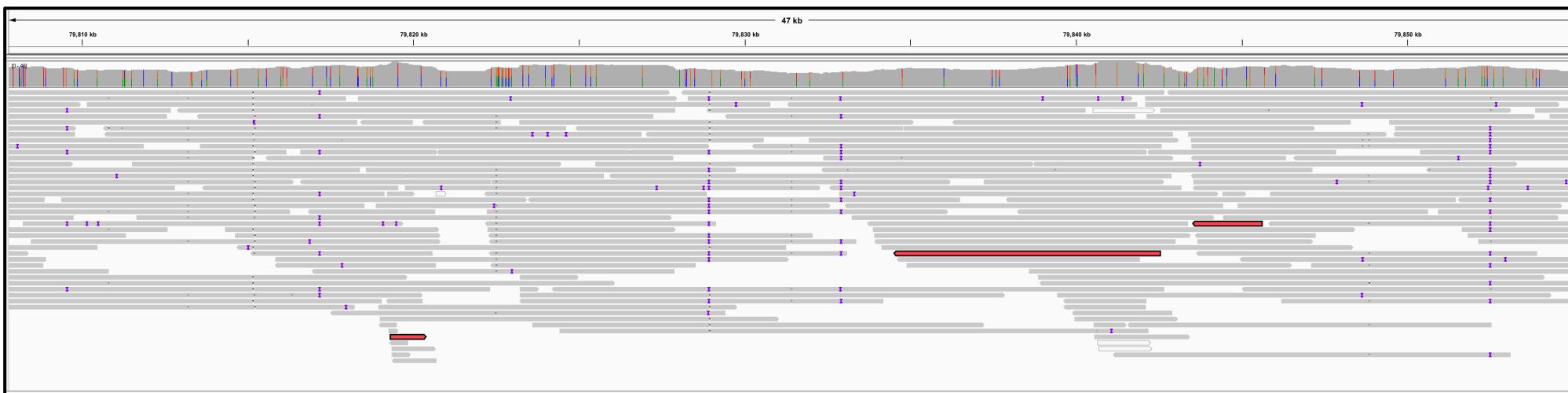
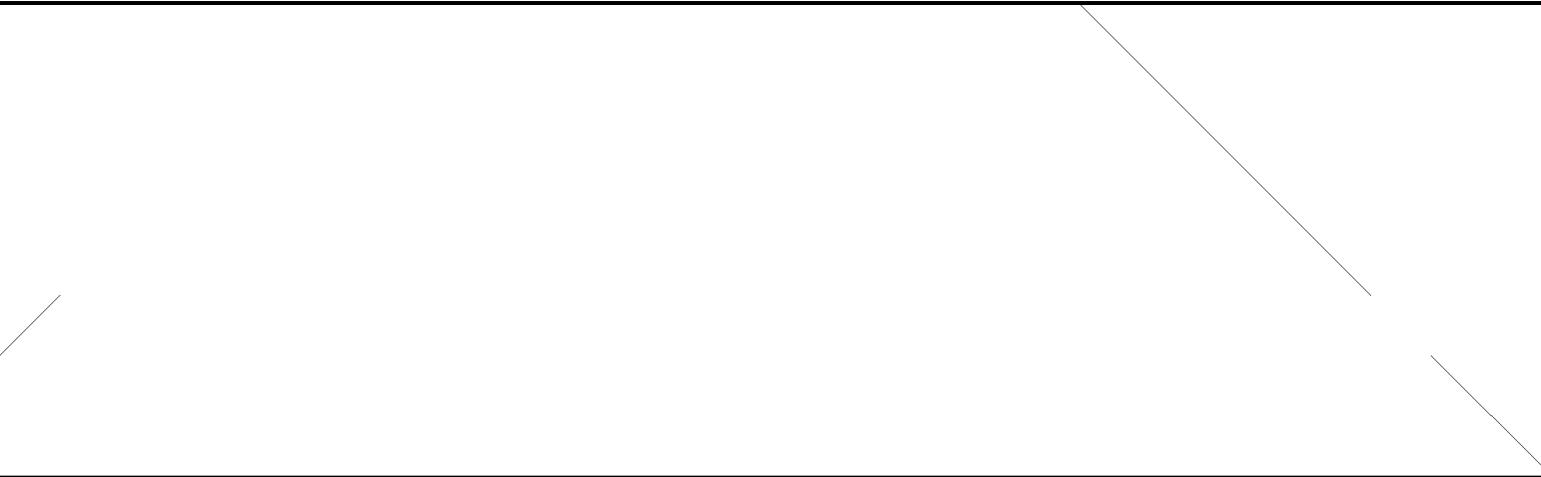
Supplementary File 2

❖ chr12-80452280-80464114



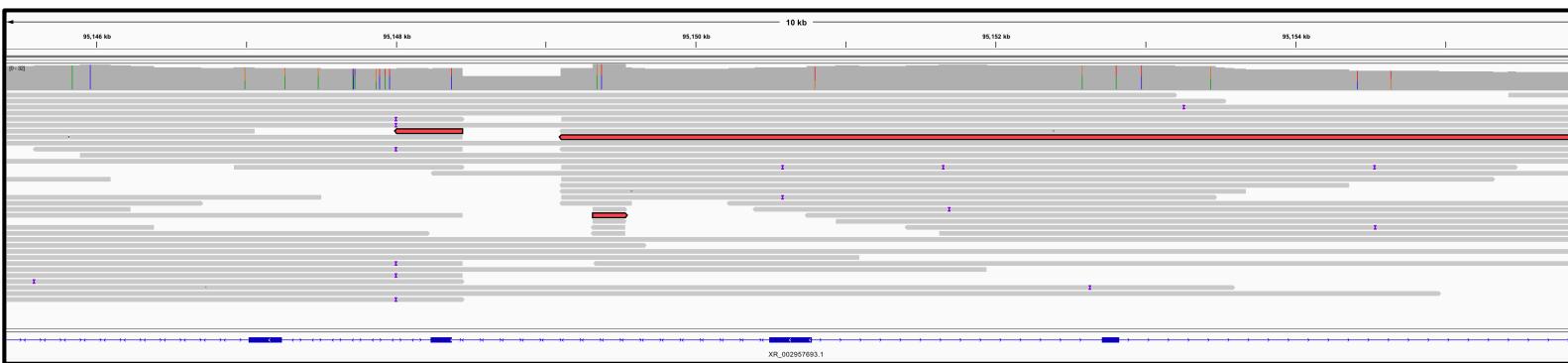
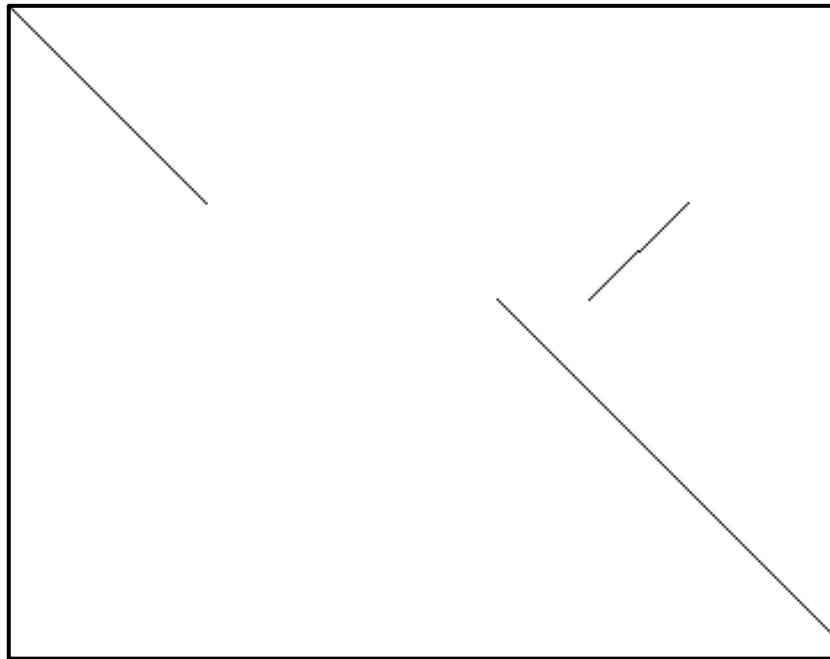
Supplementary File 2

❖ chr13-79819615-79843210



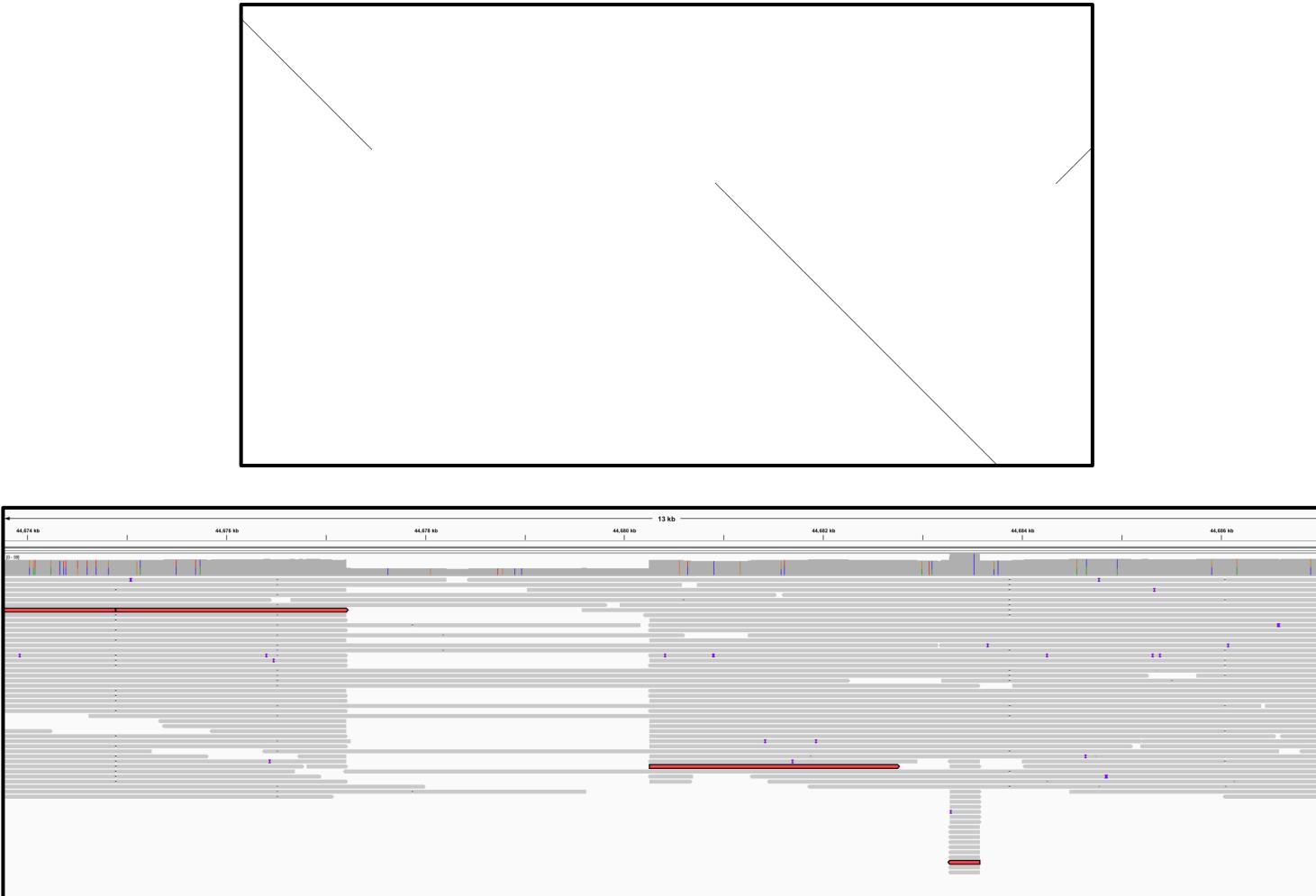
Supplementary File 2

❖ chr15-95148445-95149529



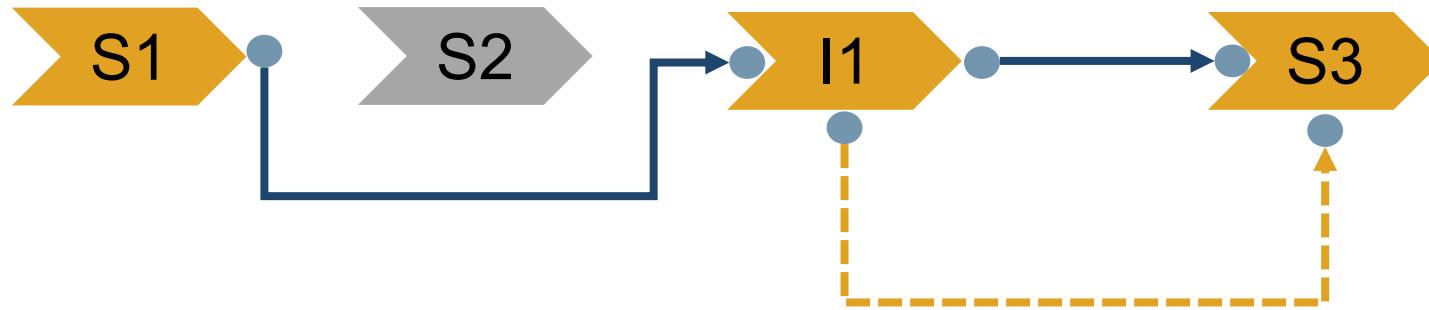
Supplementary File 2

❖ chr20-44677206-44683572



Supplementary File 2

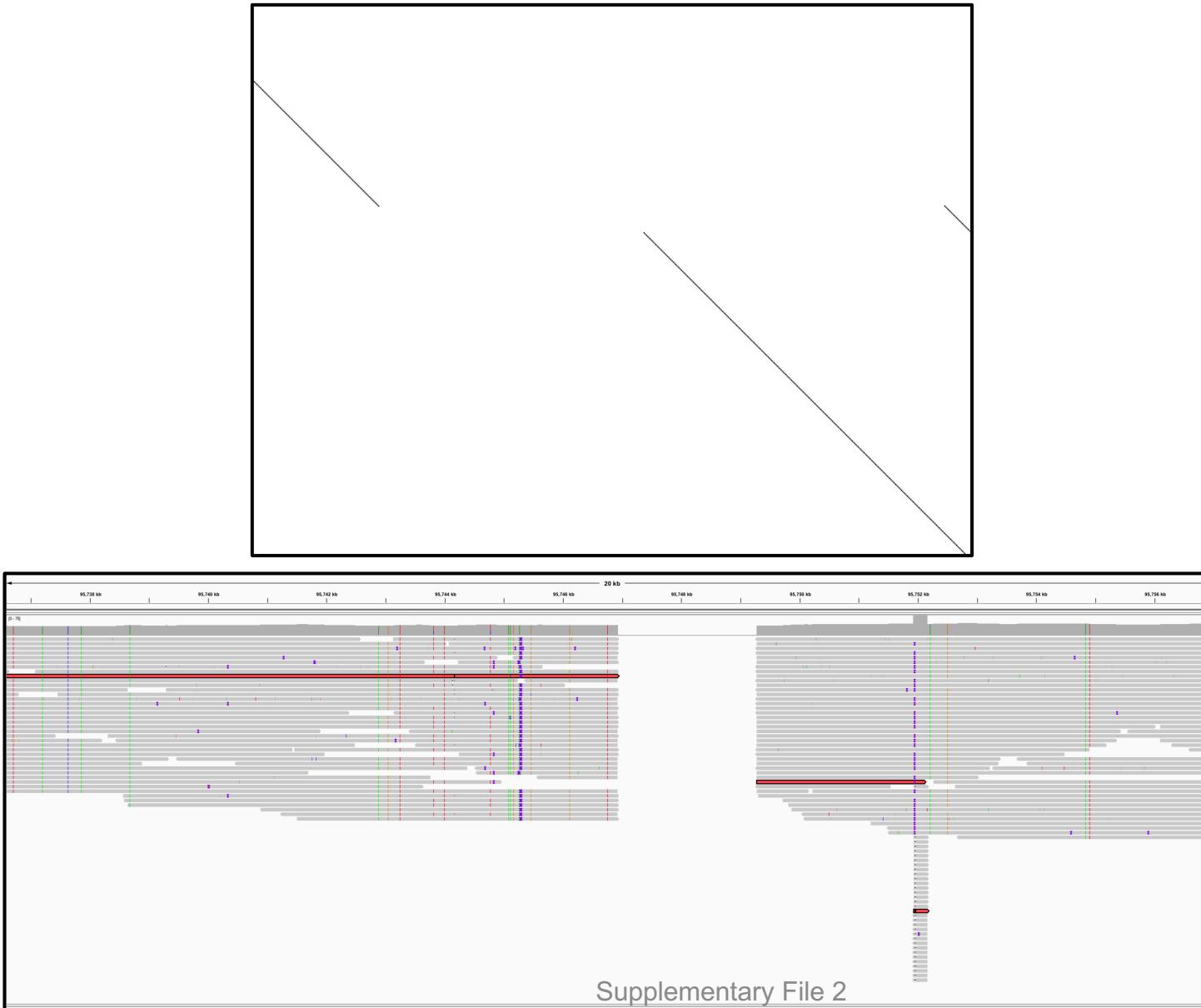
GraphID-28, deletion and dispersed duplication



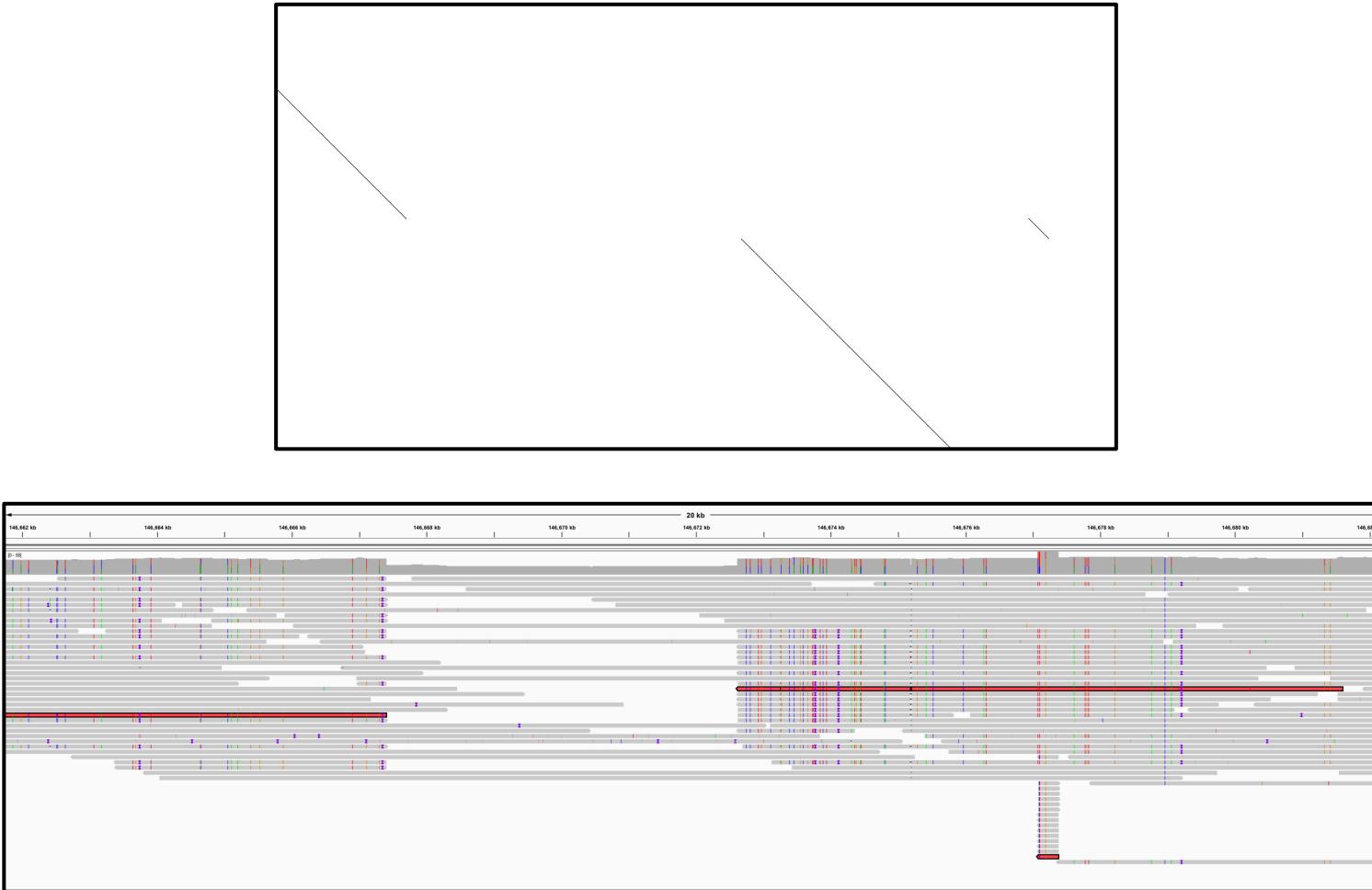
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Supplementary File 2

❖ chr3-95746924-95752141

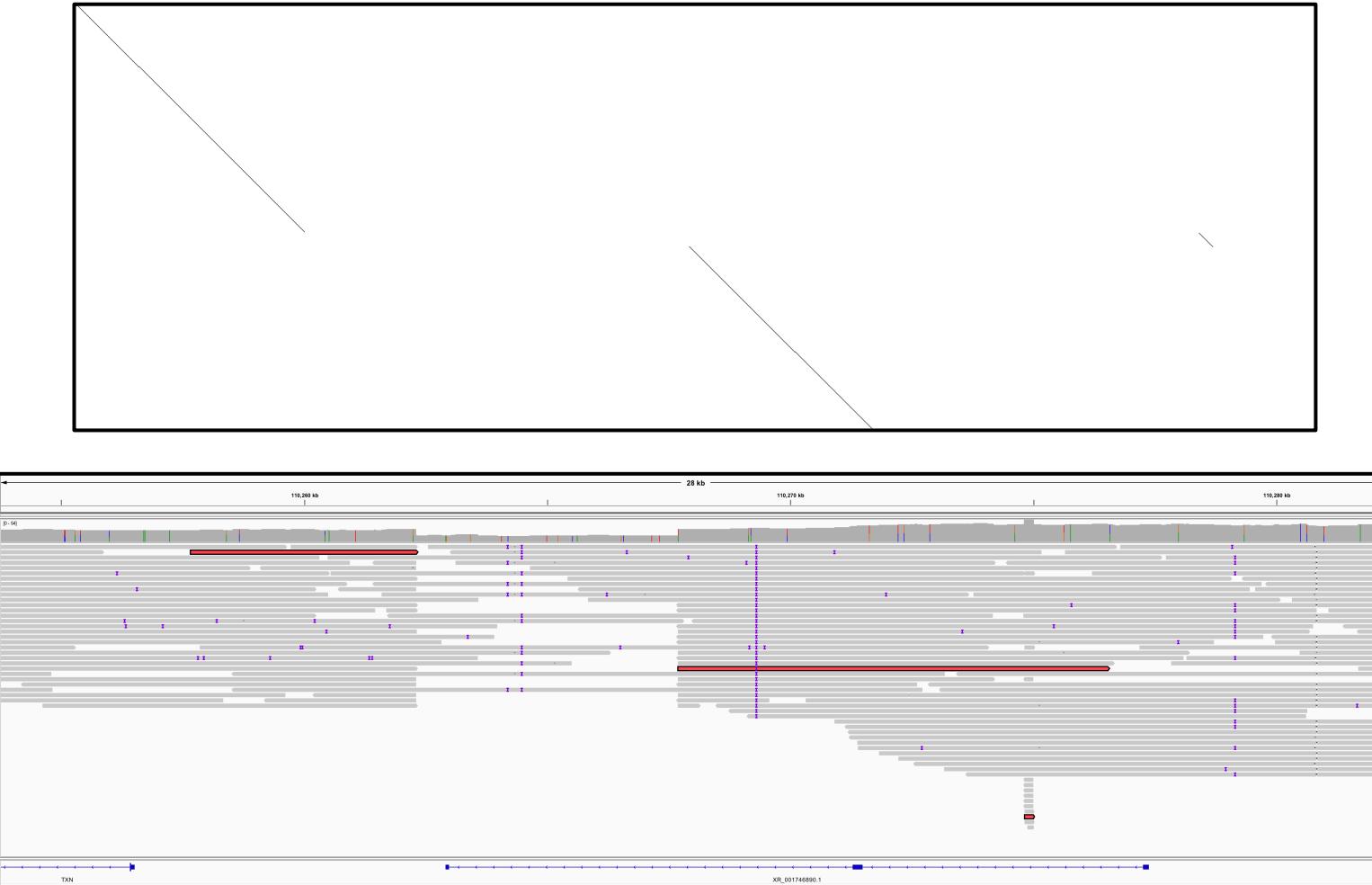


❖ chr3-146667402-146677317



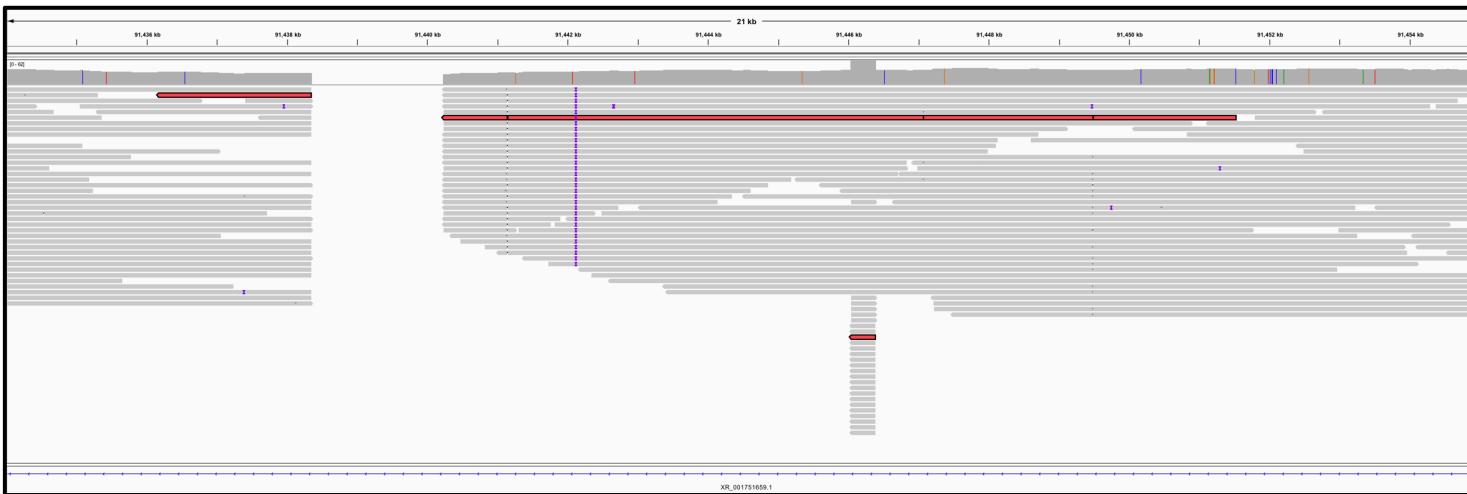
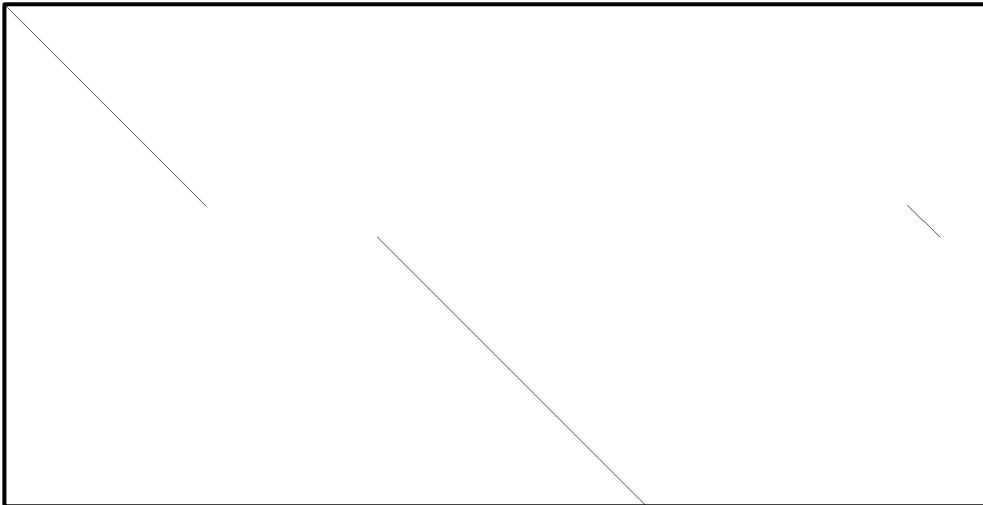
Supplementary File 2

❖ chr9-110262294-110274913



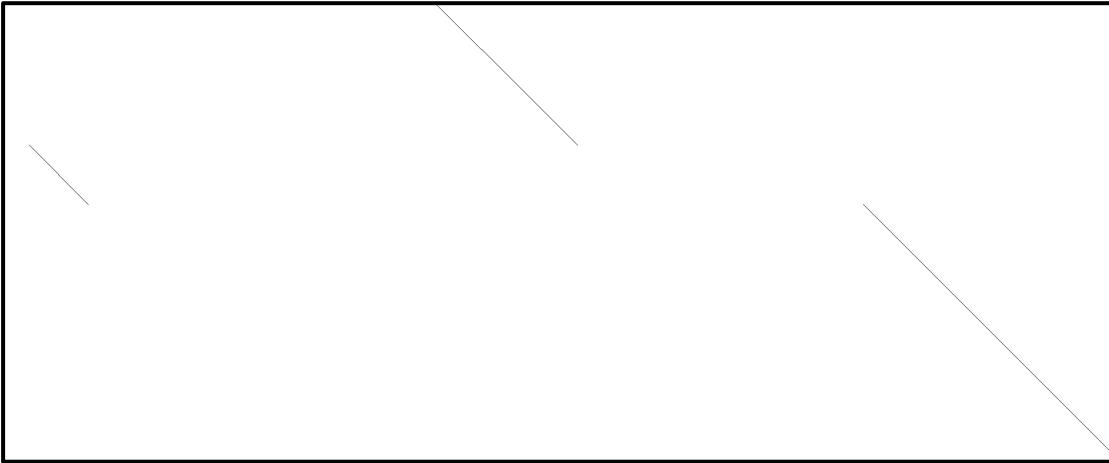
Supplementary File 2

❖ chr15-91438350-91446225



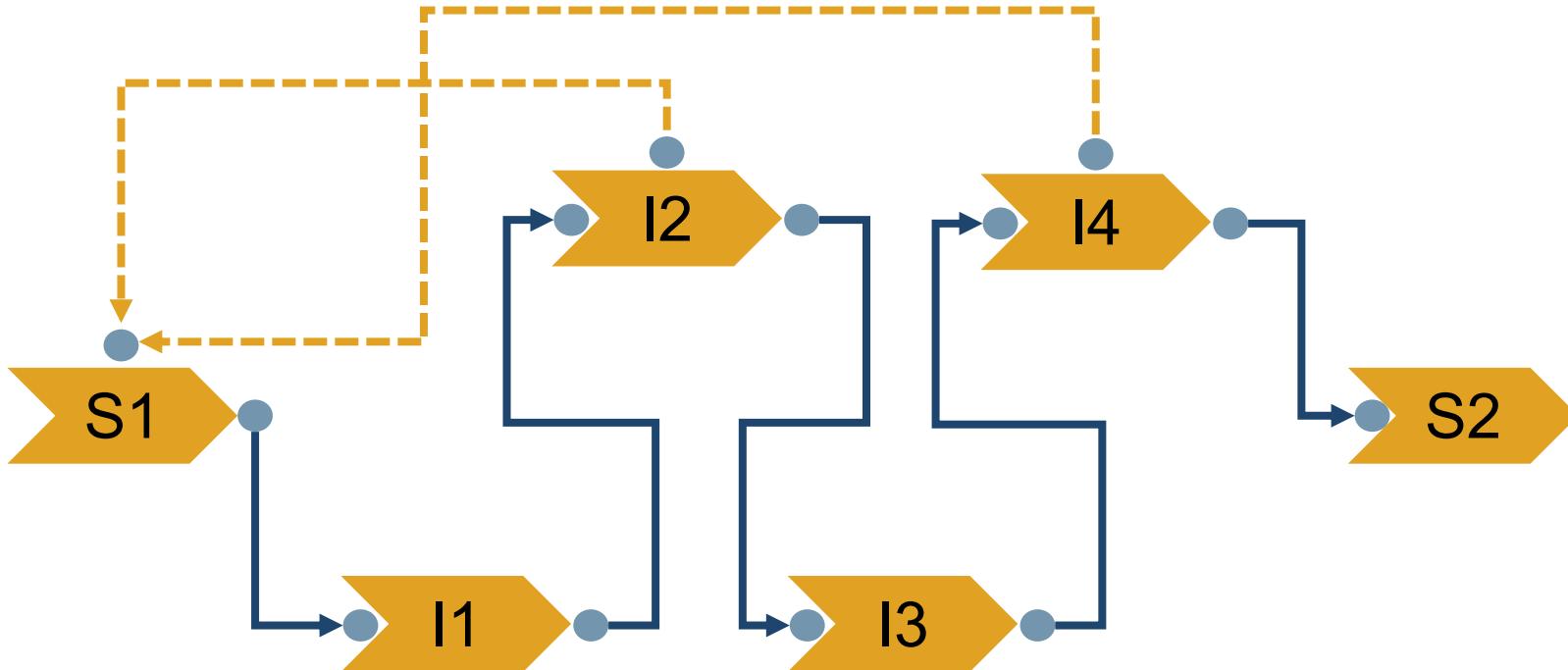
Supplementary File 2

❖ chr22-18136755-18146780



Supplementary File 2

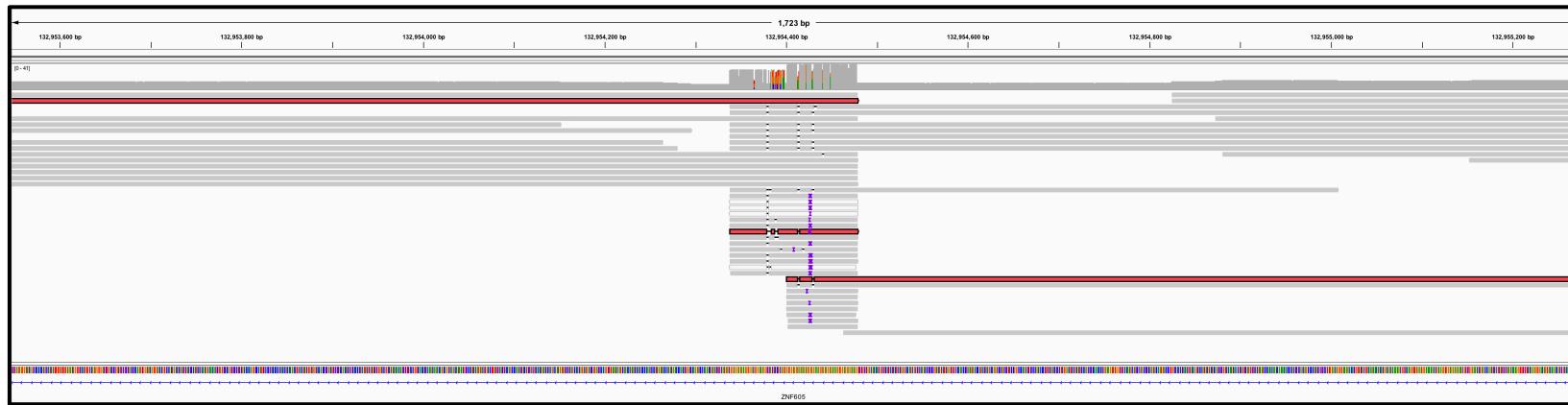
GraphID-2



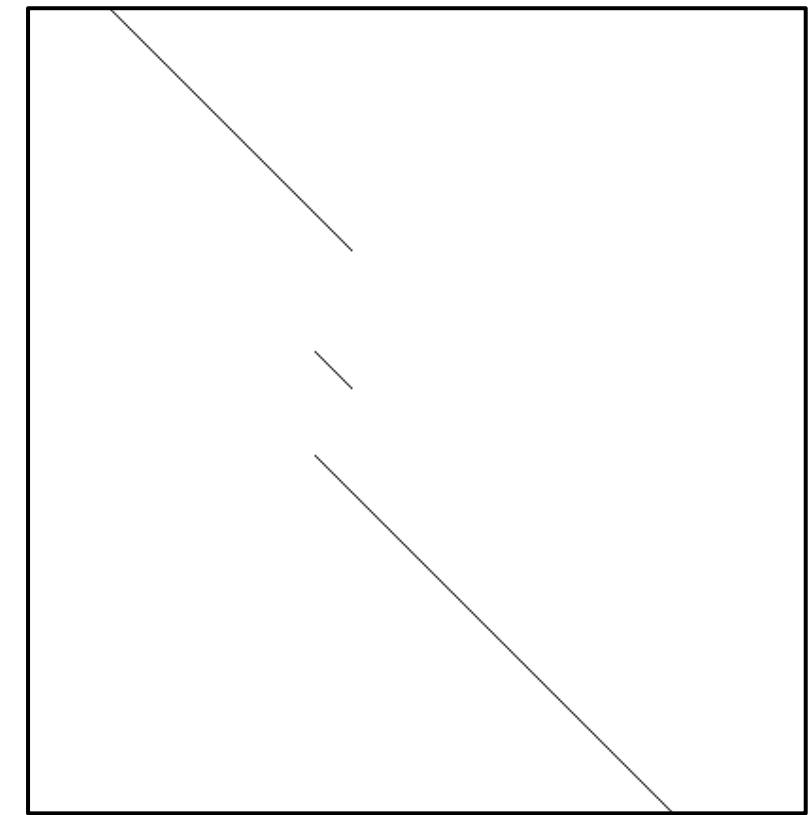
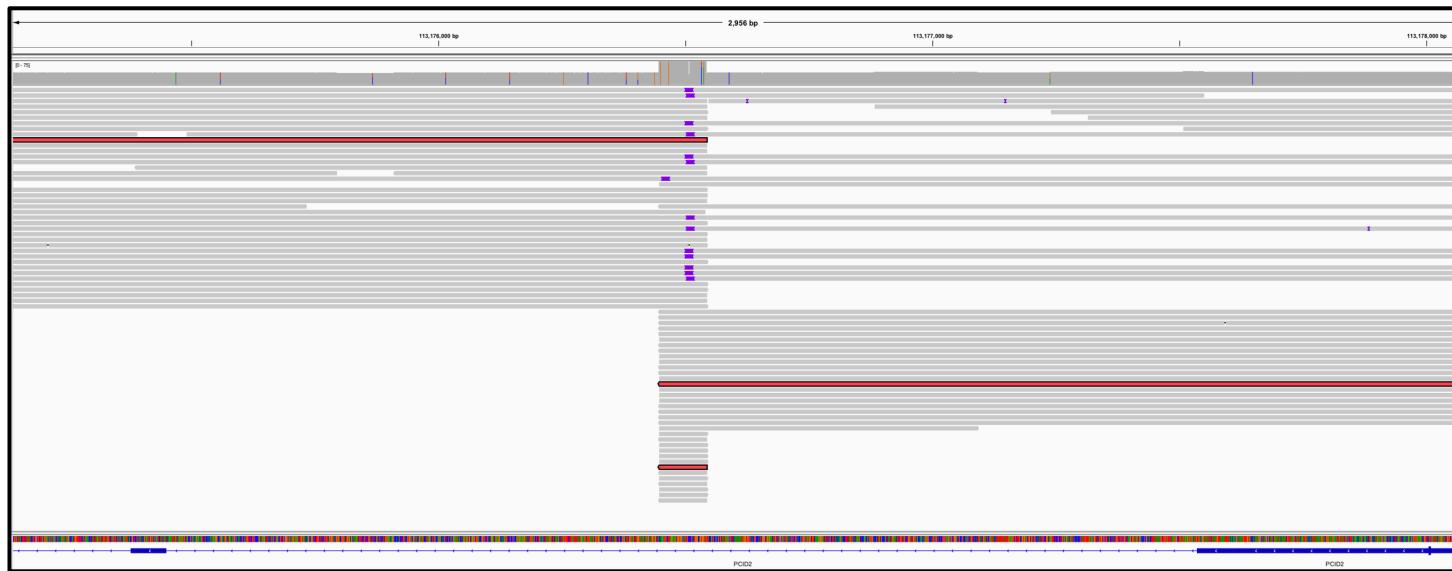
Nodes=S:2,I:4,D:2

Supplementary File 2

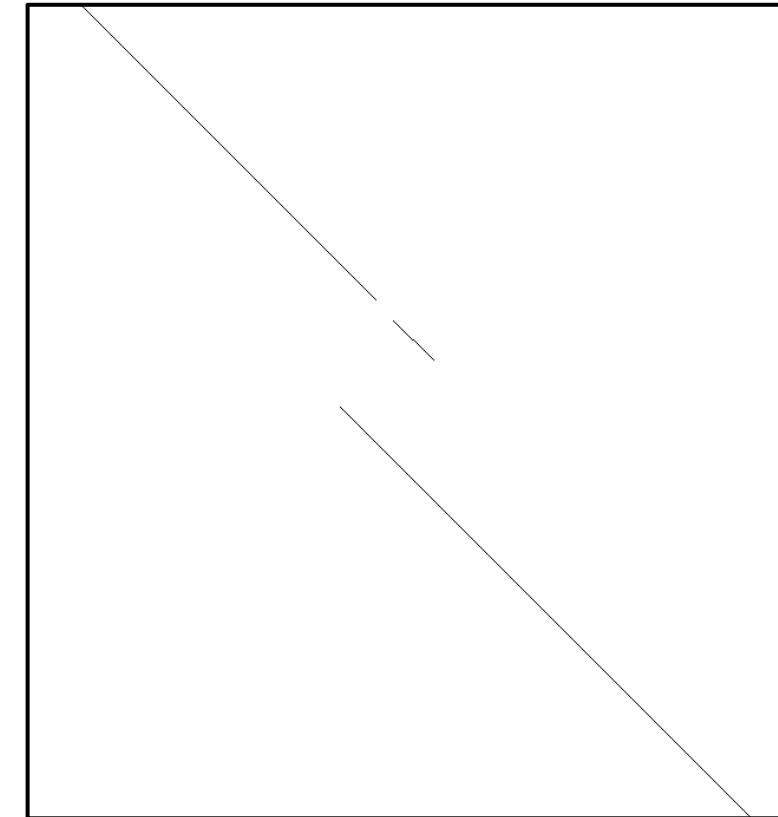
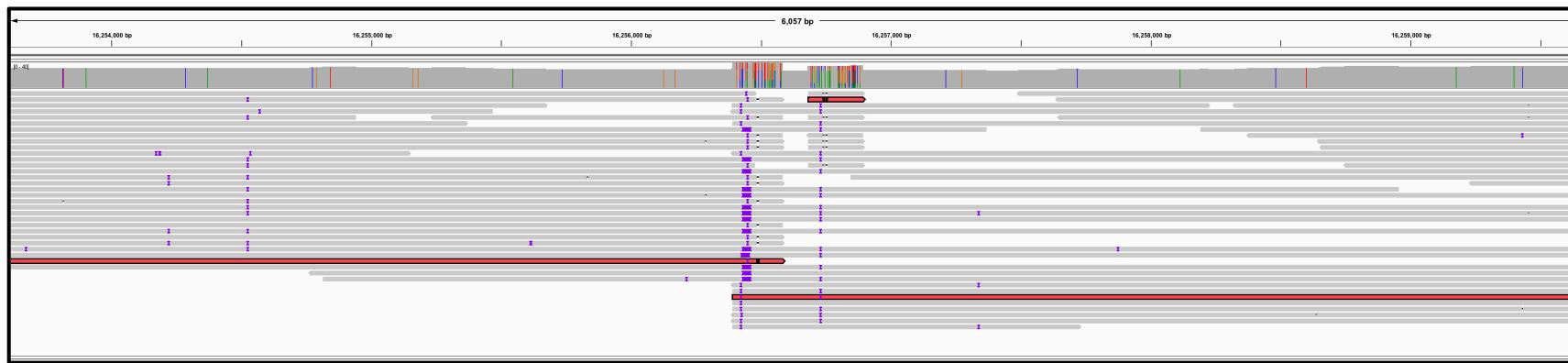
❖ chr12-132954337-132954479



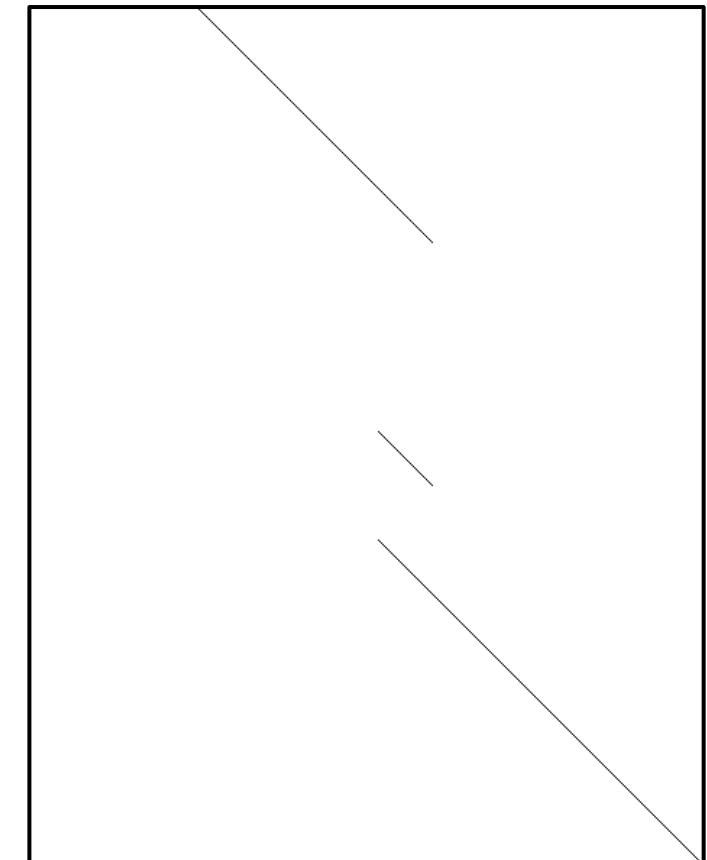
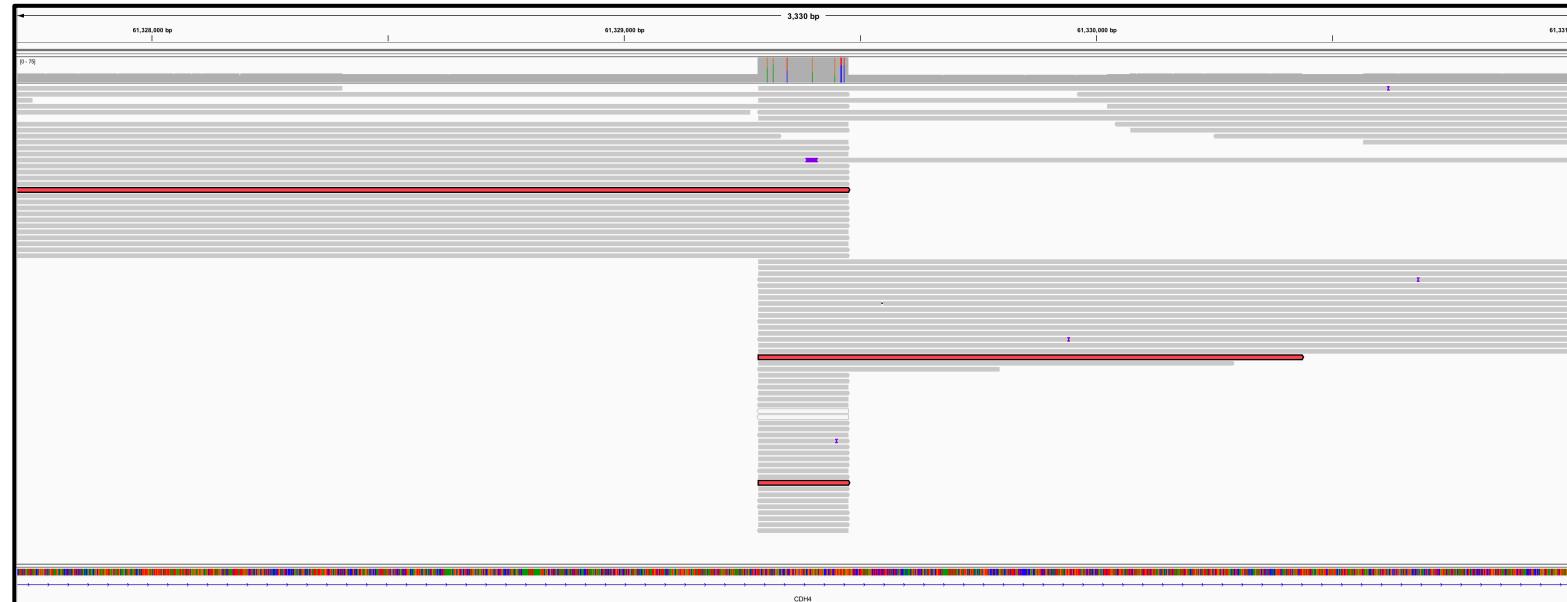
❖ chr13-113176446-113176543



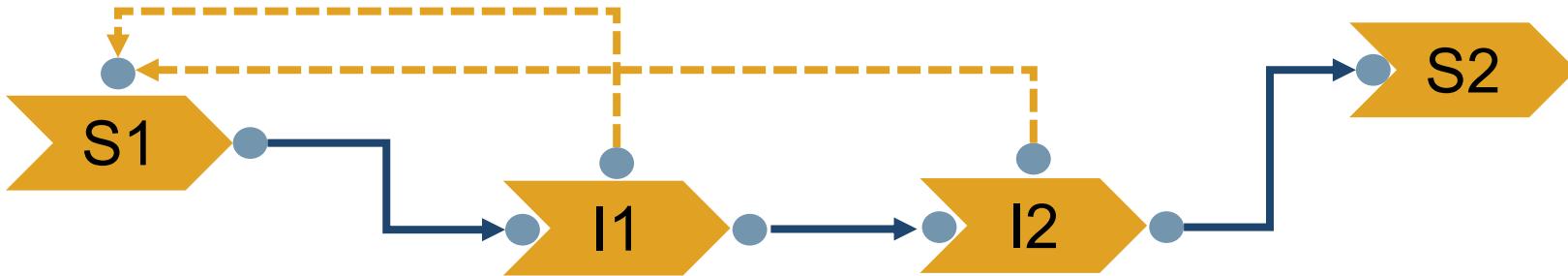
❖ chr19-16256389-16256892



❖ chr20-61329281-61329476-16518-10



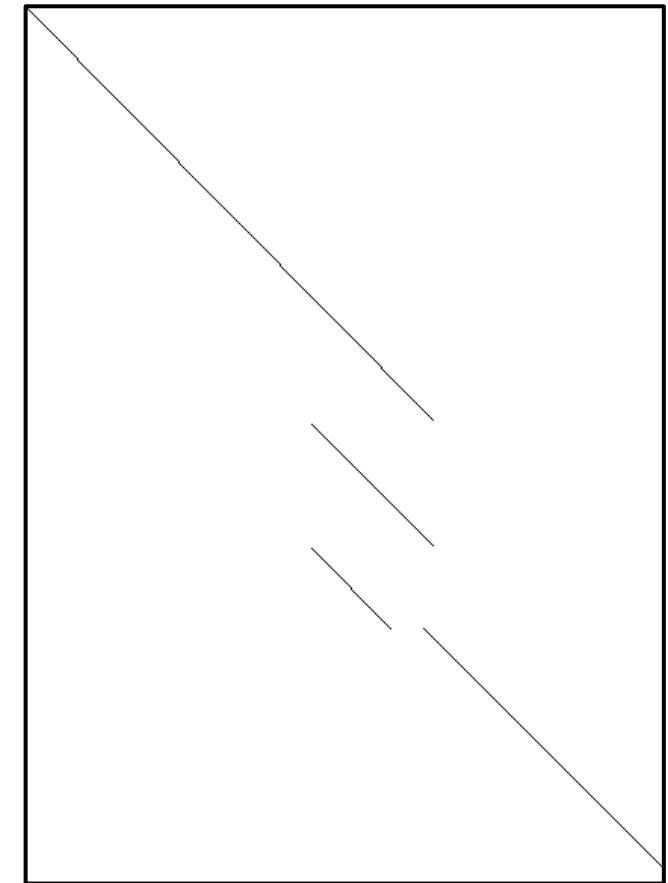
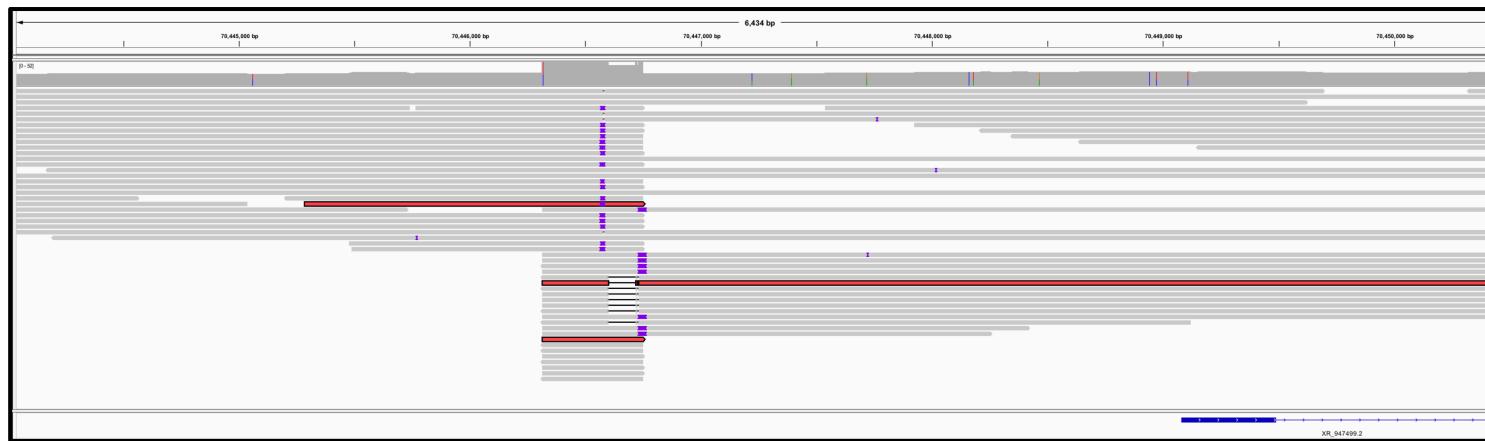
GraphID-4



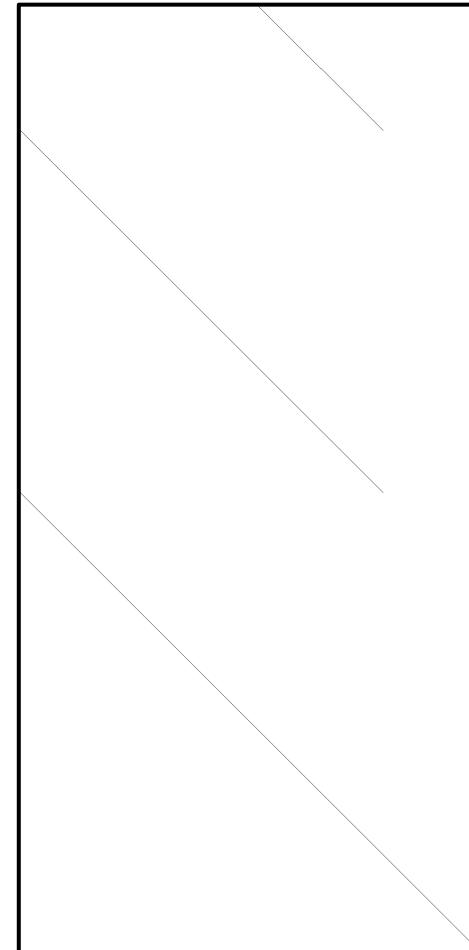
Nodes=S:2,I:2,D:2

Supplementary File 2

❖ chr1-70446312-70446751

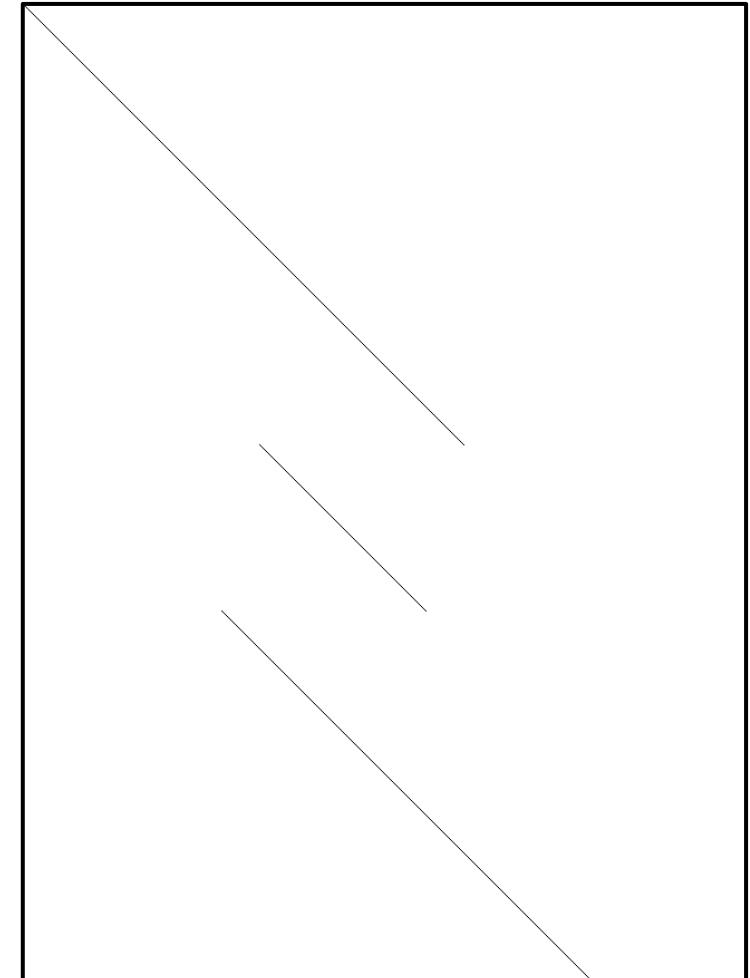
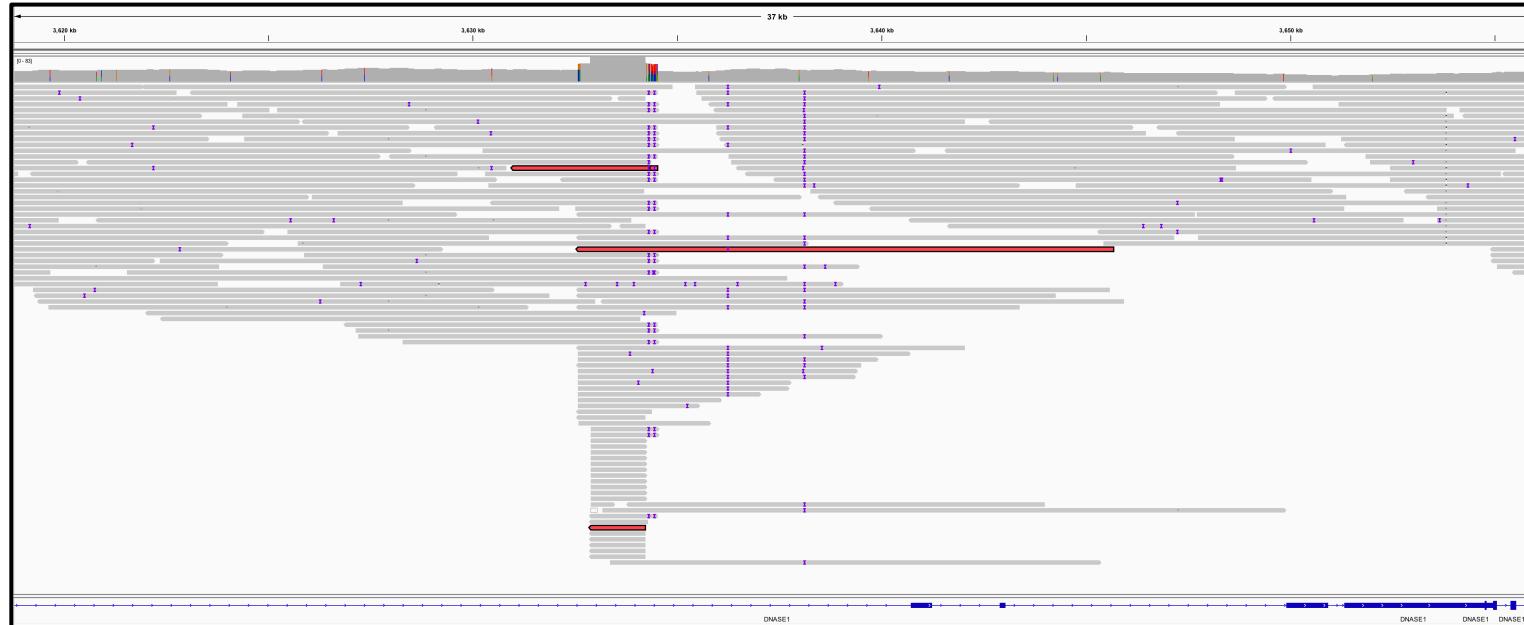


❖ chr11-94233146-94238782

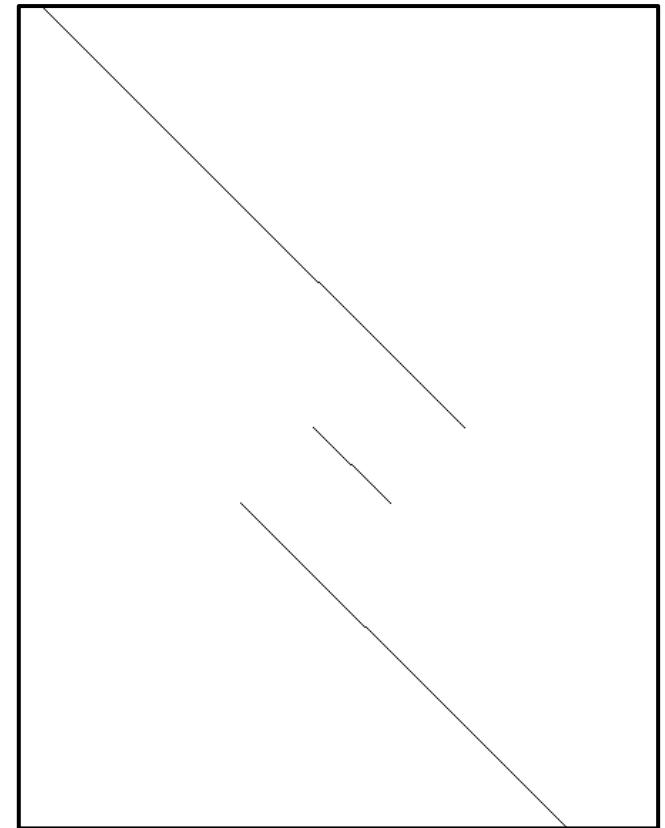
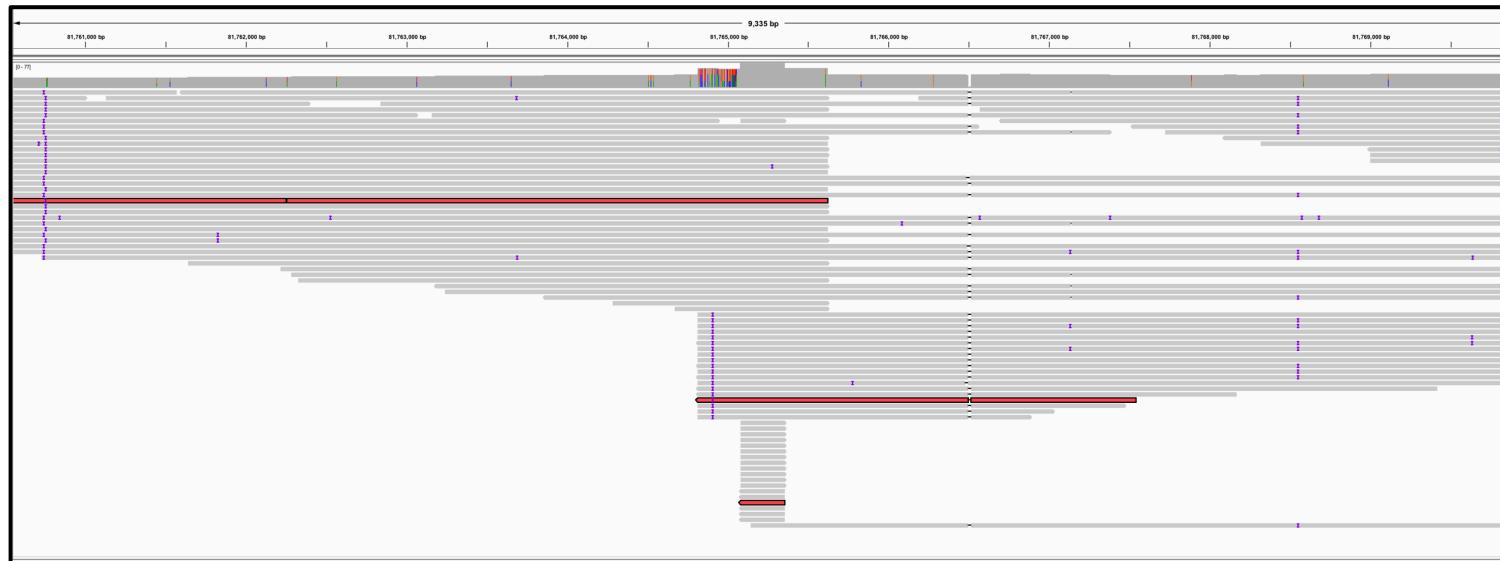


Supplementary File 2

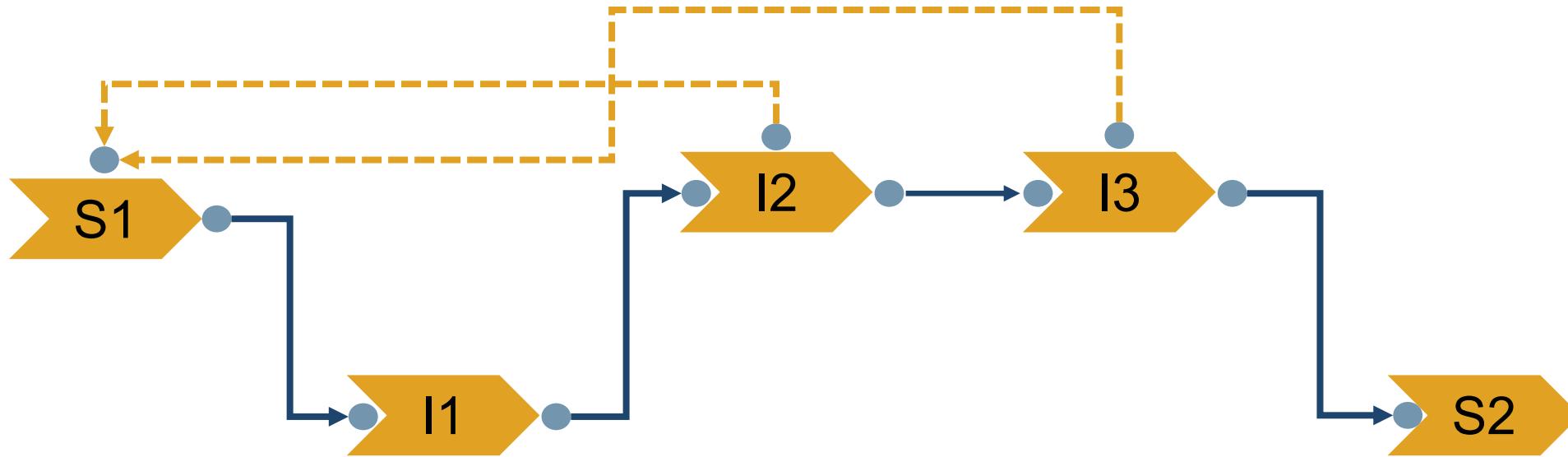
❖ chr16-3632630-3634495



❖ chr16-81764812-81765622



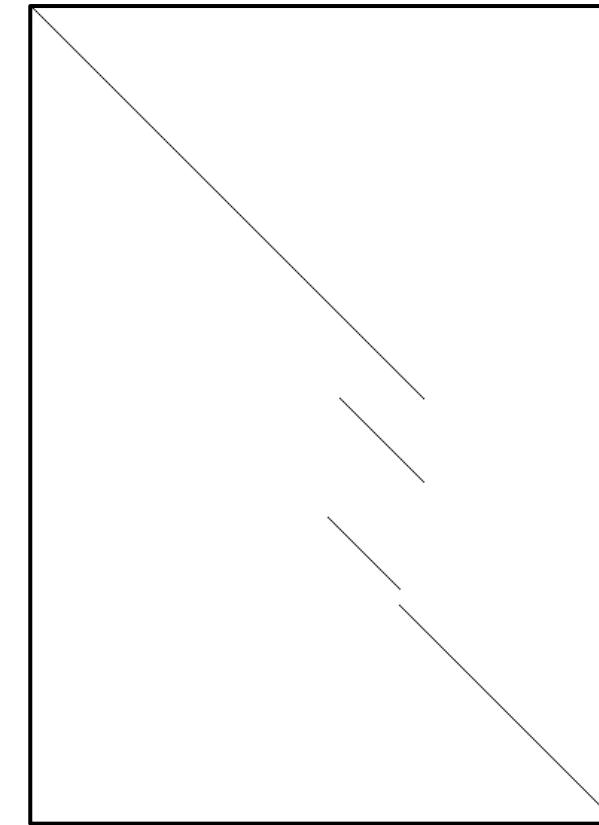
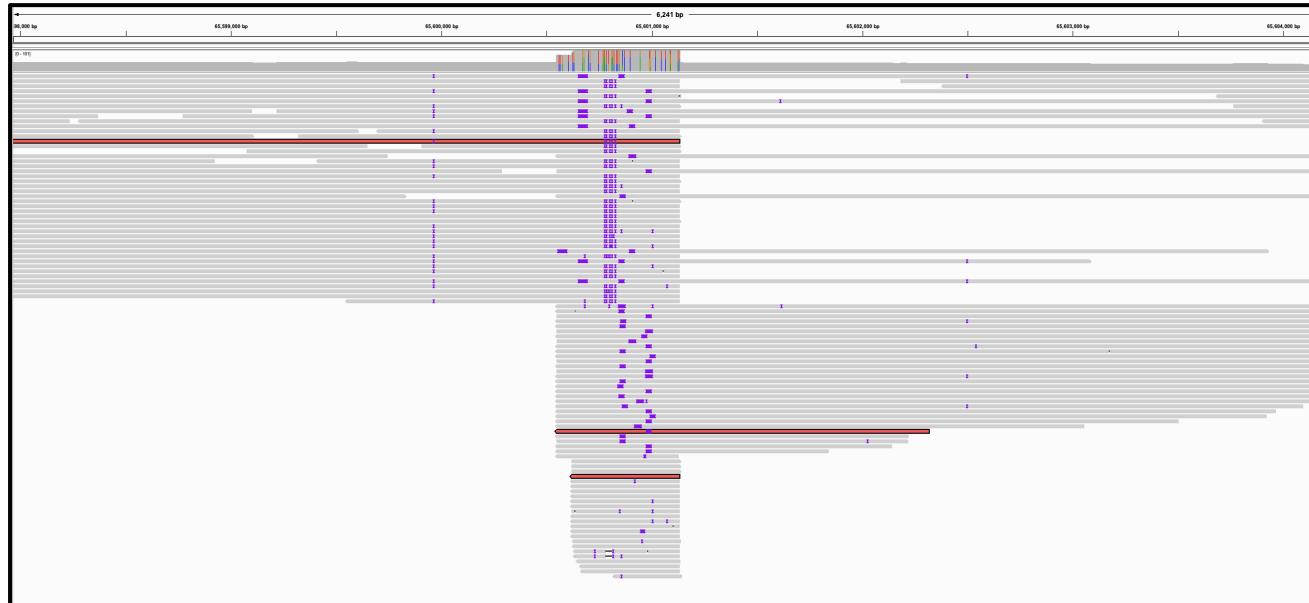
GraphID-6



Nodes=S:2,I:3,D:2

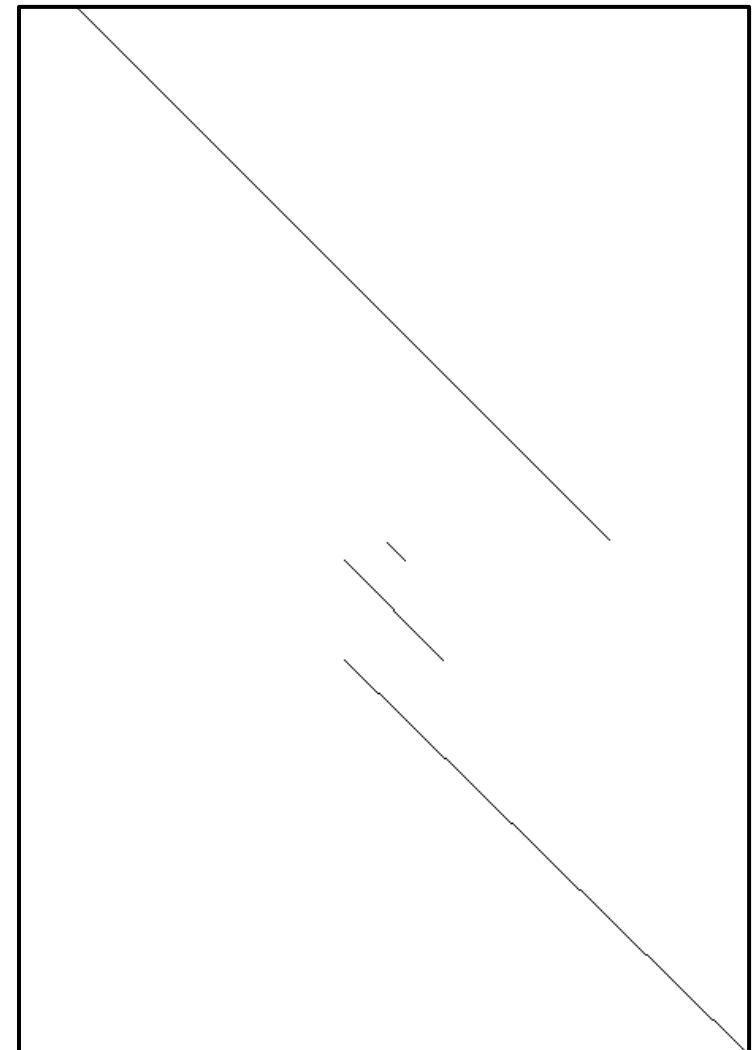
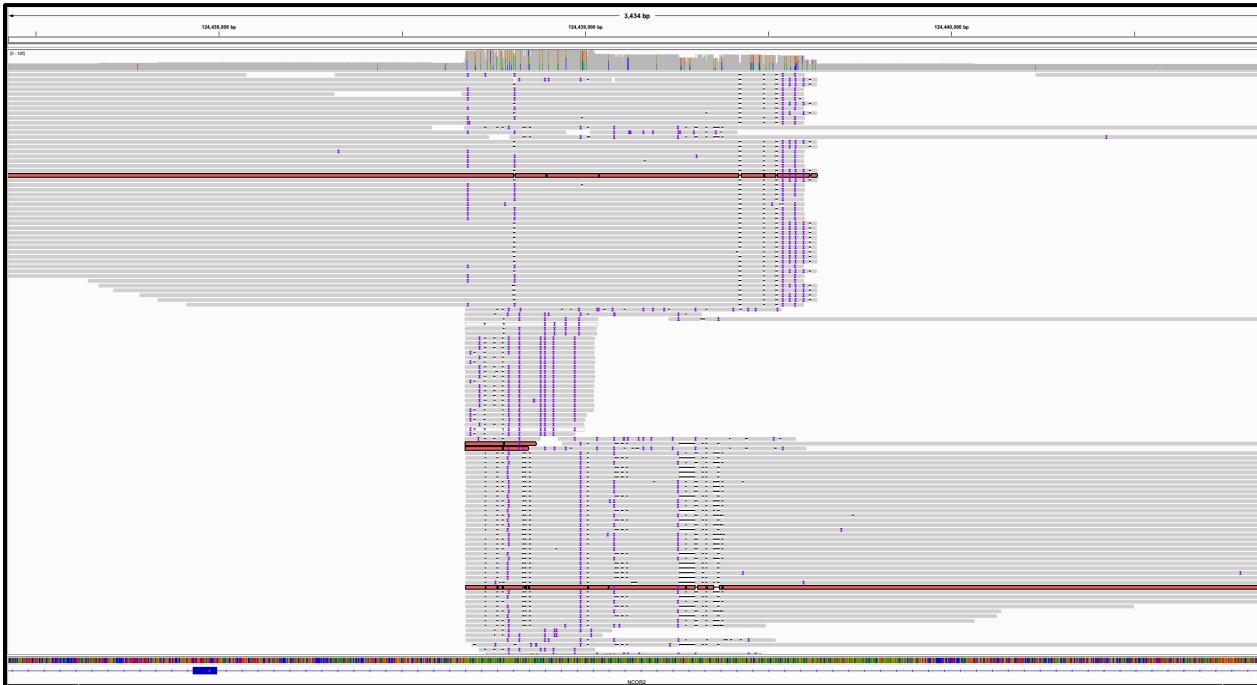
Supplementary File 2

❖ chr2-65600546-65601136



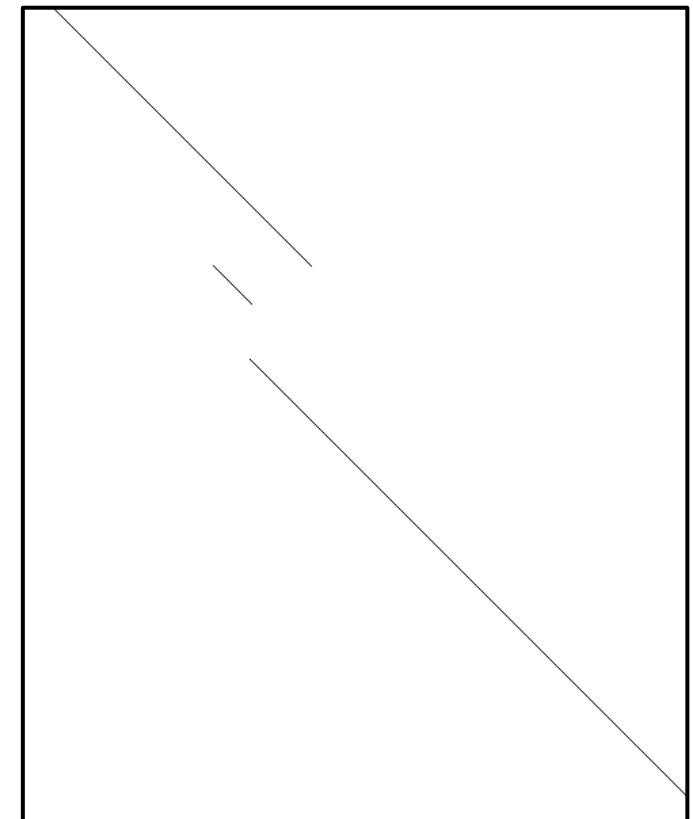
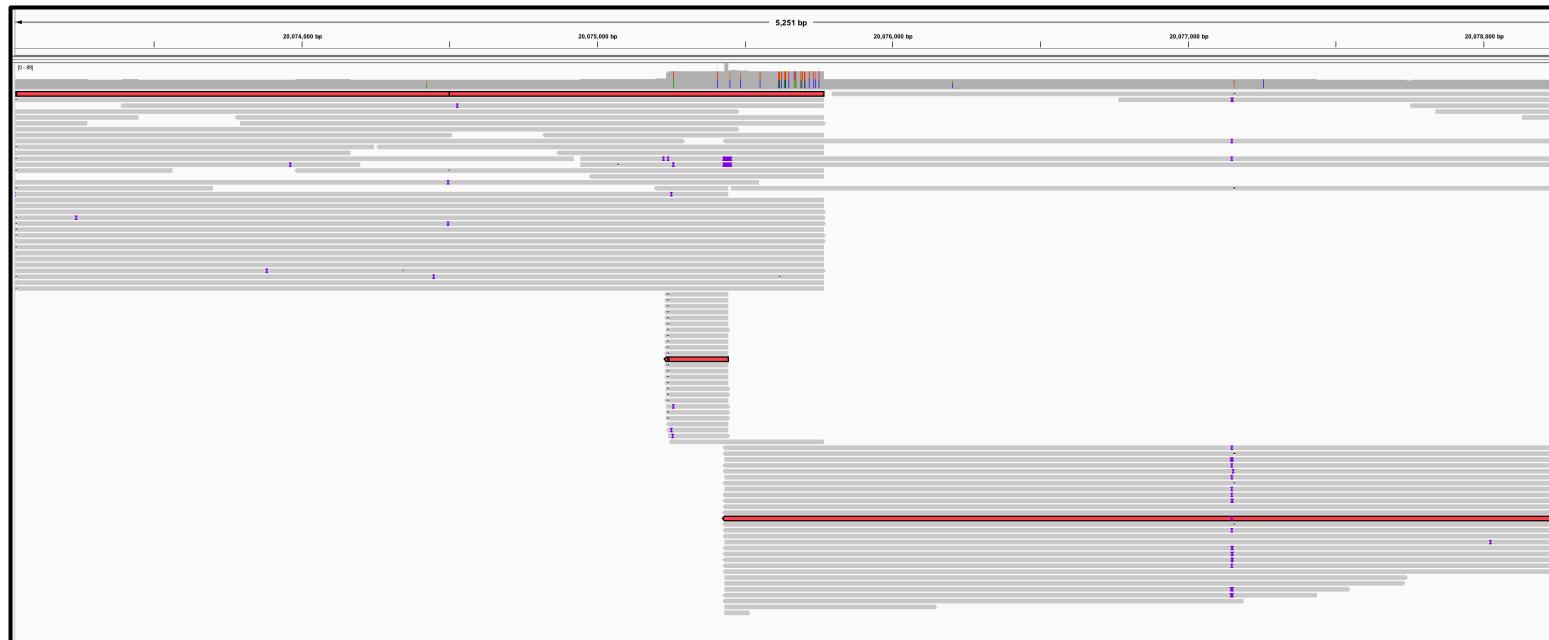
Supplementary File 2

❖ chr12-124438675-124439617

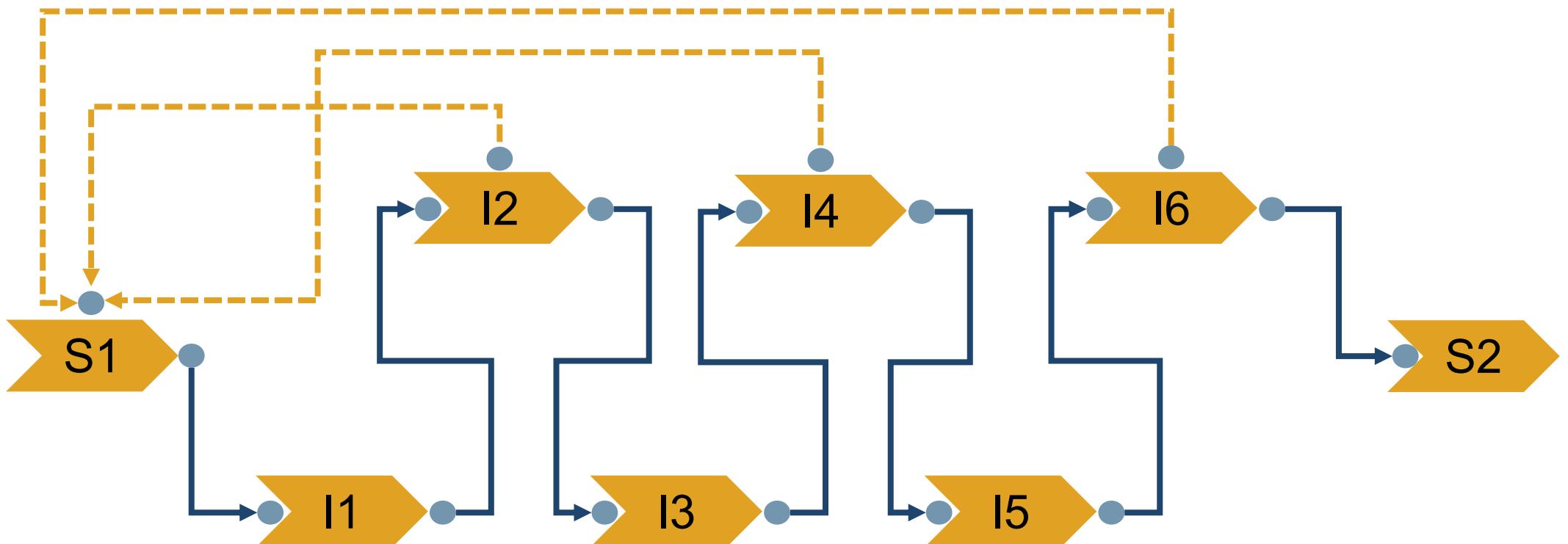


Supplementary File 2

❖ chr22-20075212-20075748



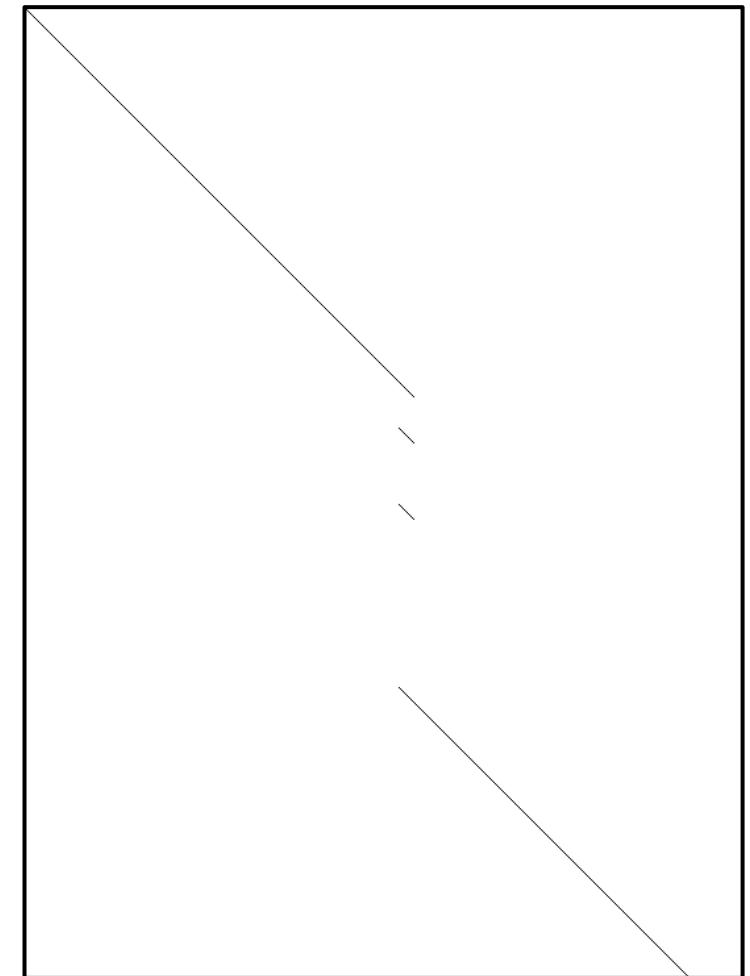
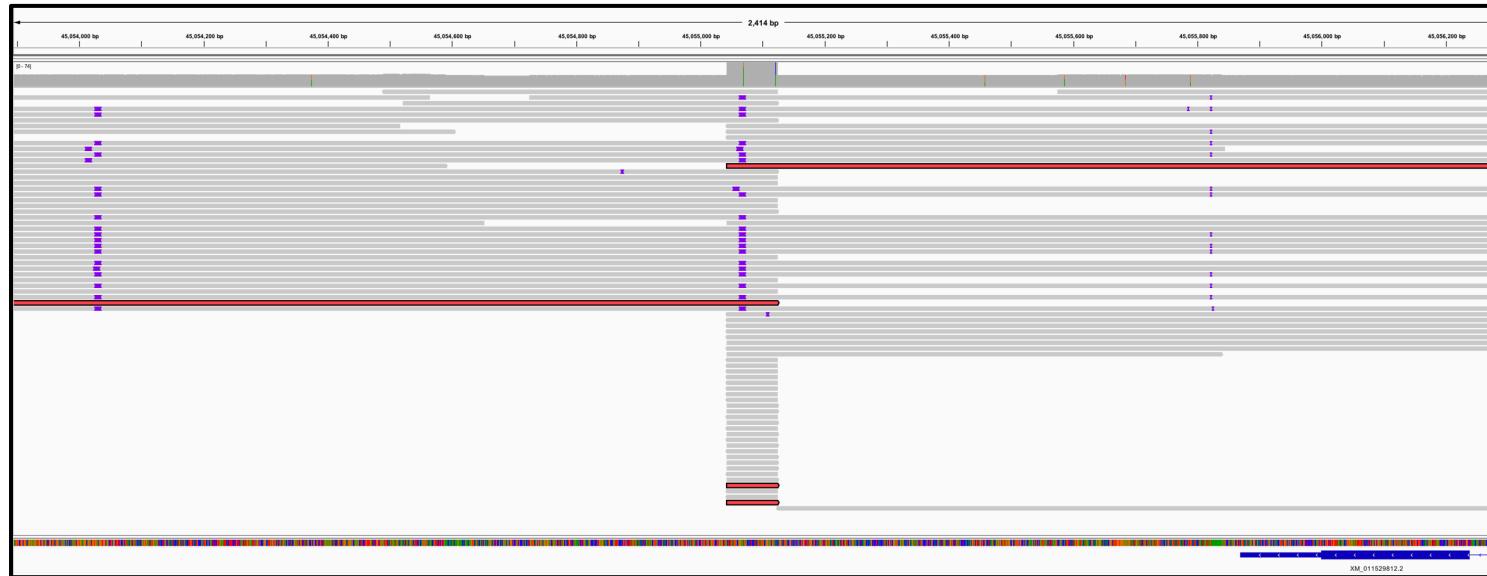
GraphID-8



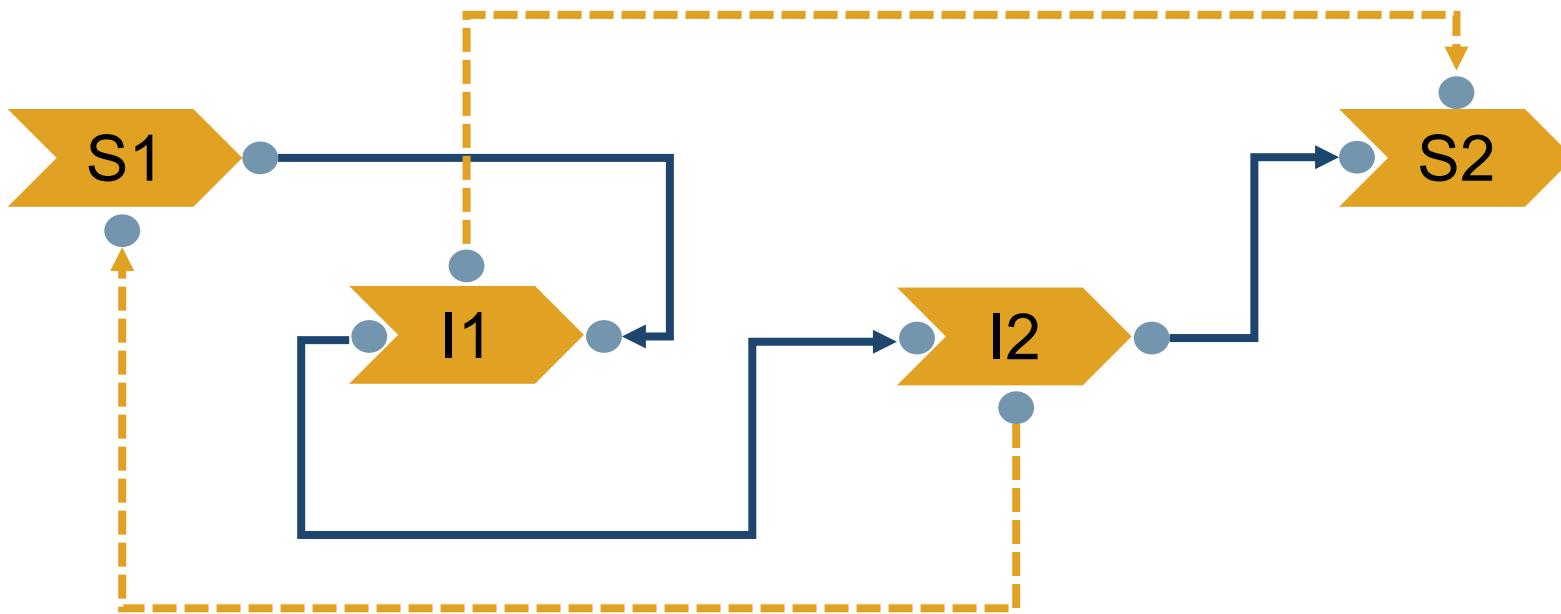
Nodes=S:2,I:6,D:3

Supplementary File 2

❖ chr21-45055057-45055144

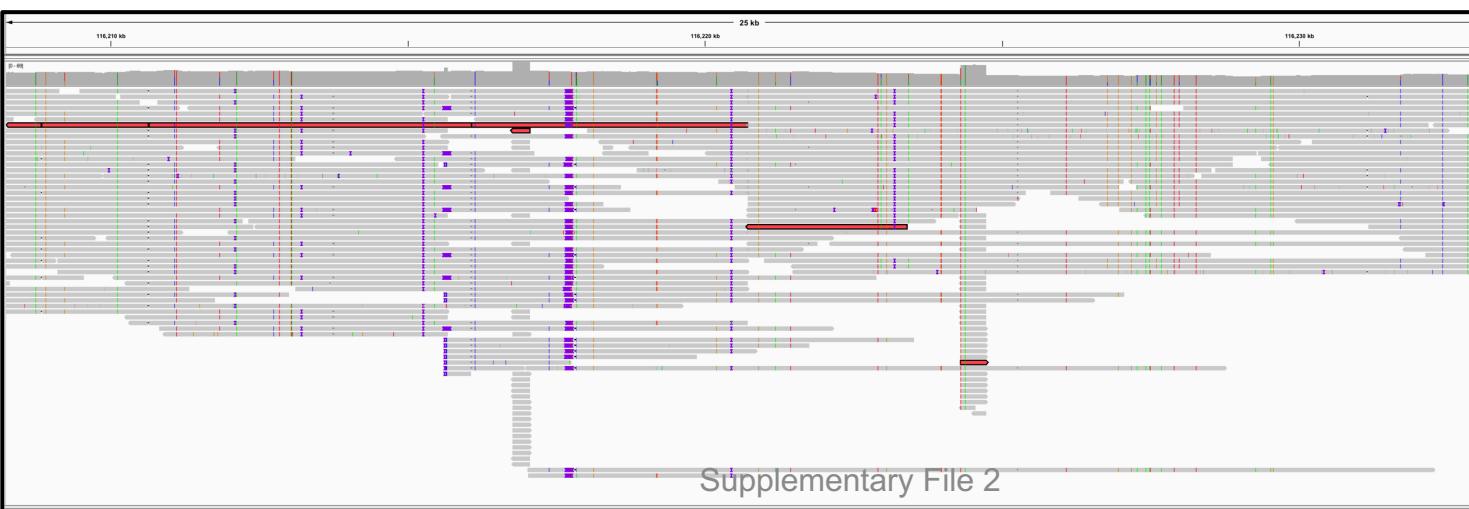
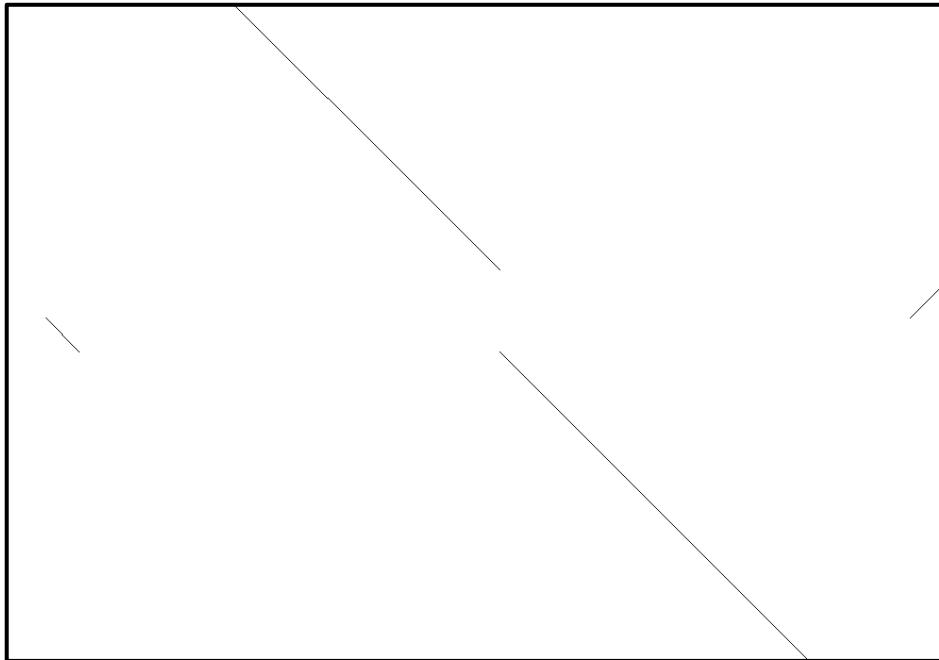


GraphID-14

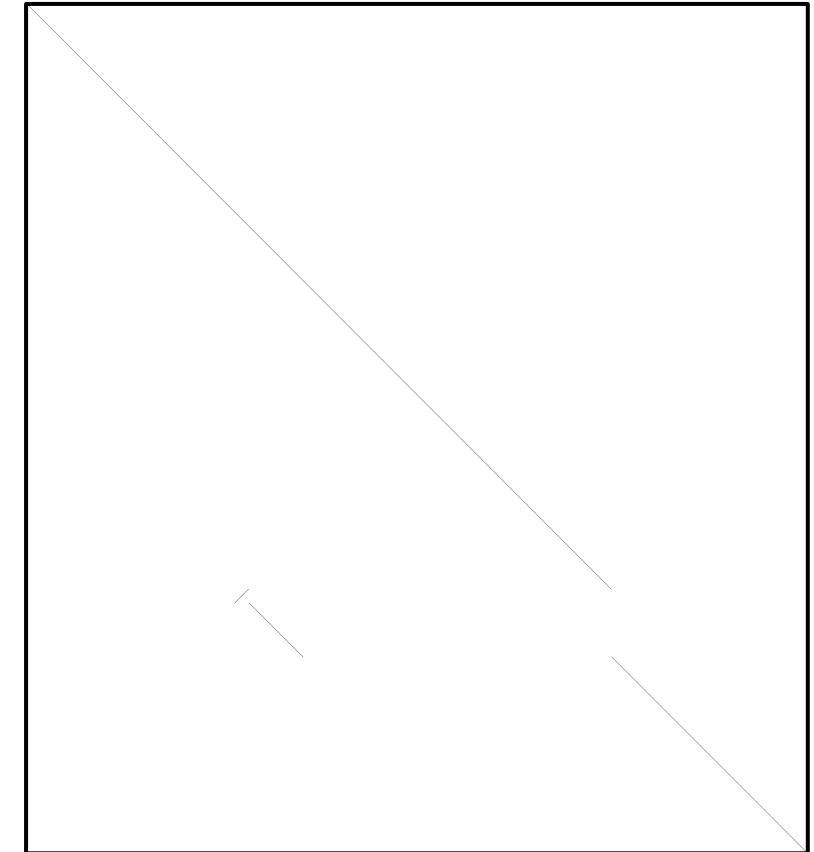
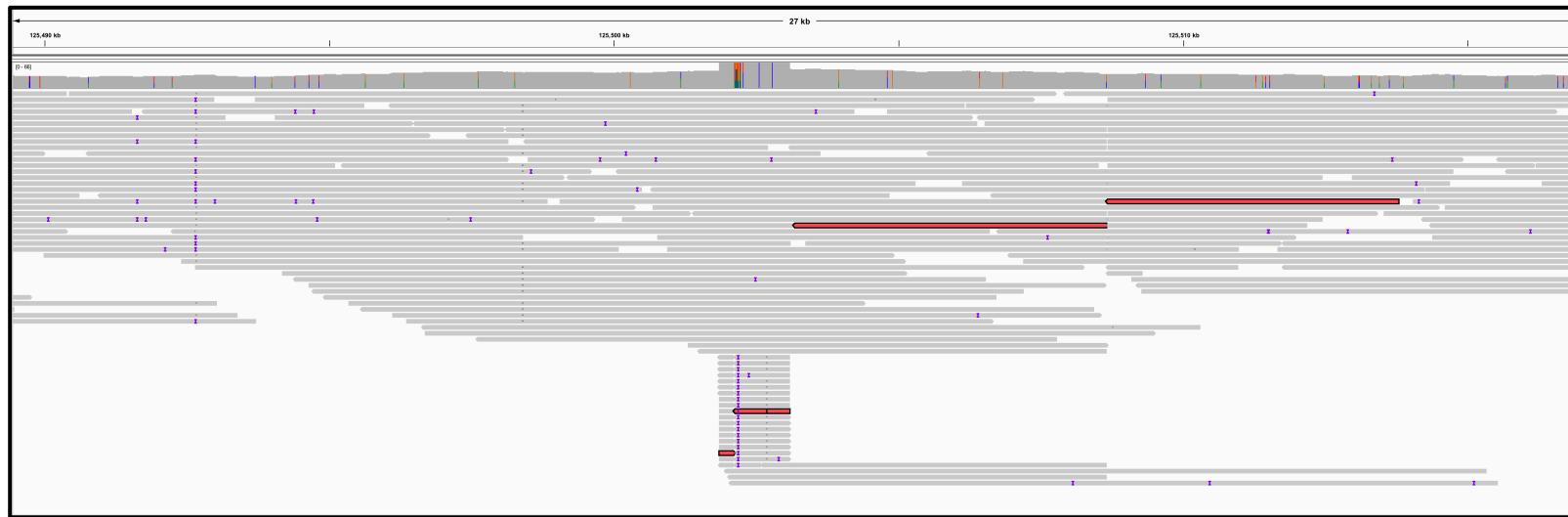


Nodes=S:2,I:2,D:2

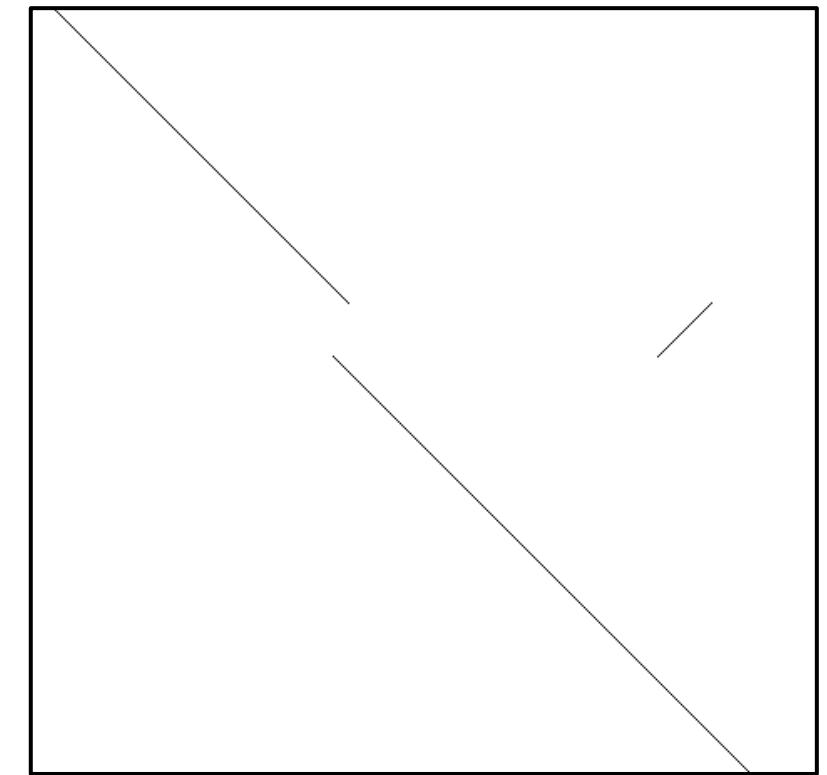
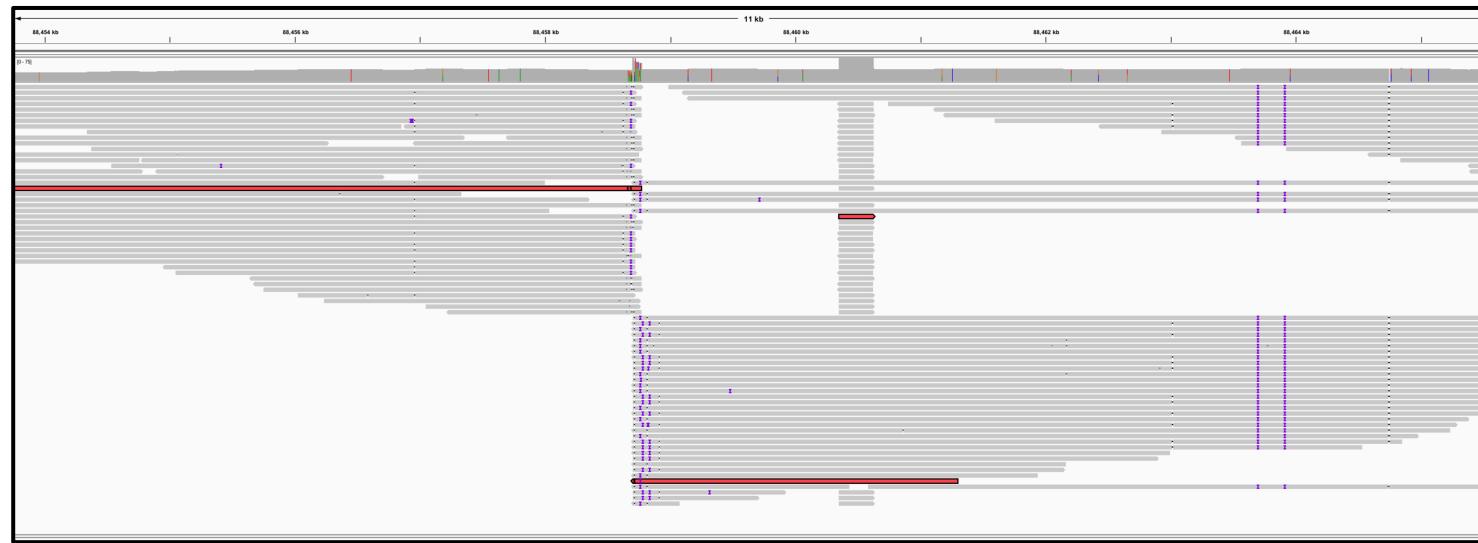
❖ chr2-116216766-116224724



❖ chr10-125502145-125508663

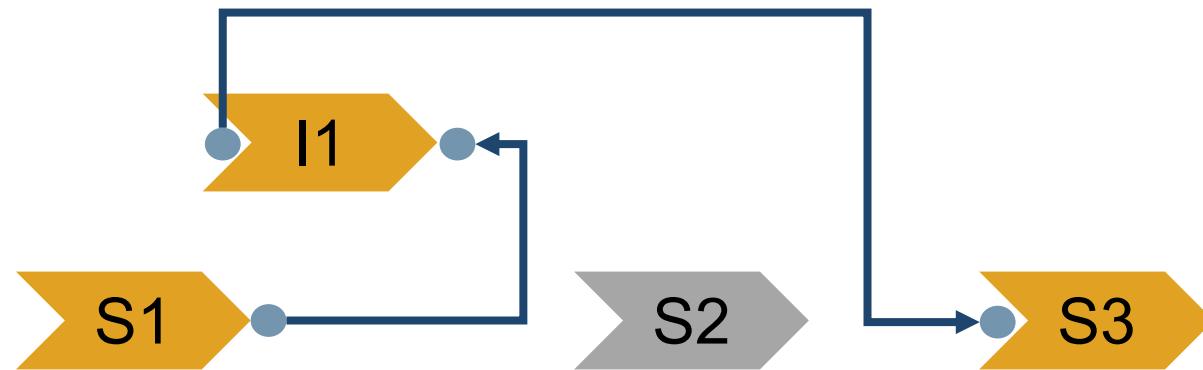


❖ chr13-88458707-88460622



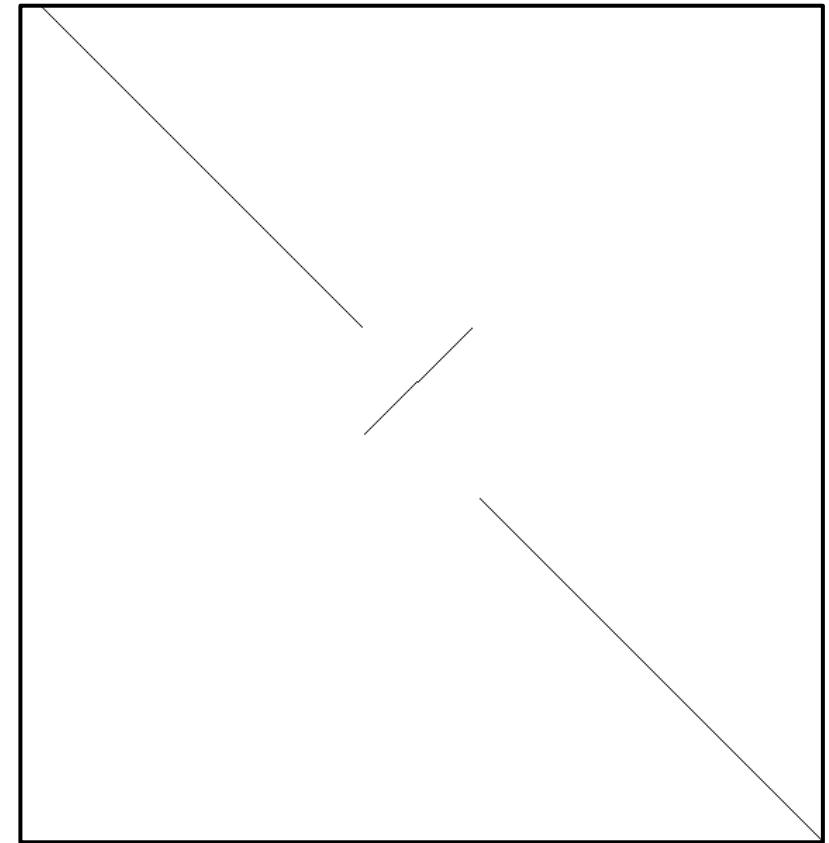
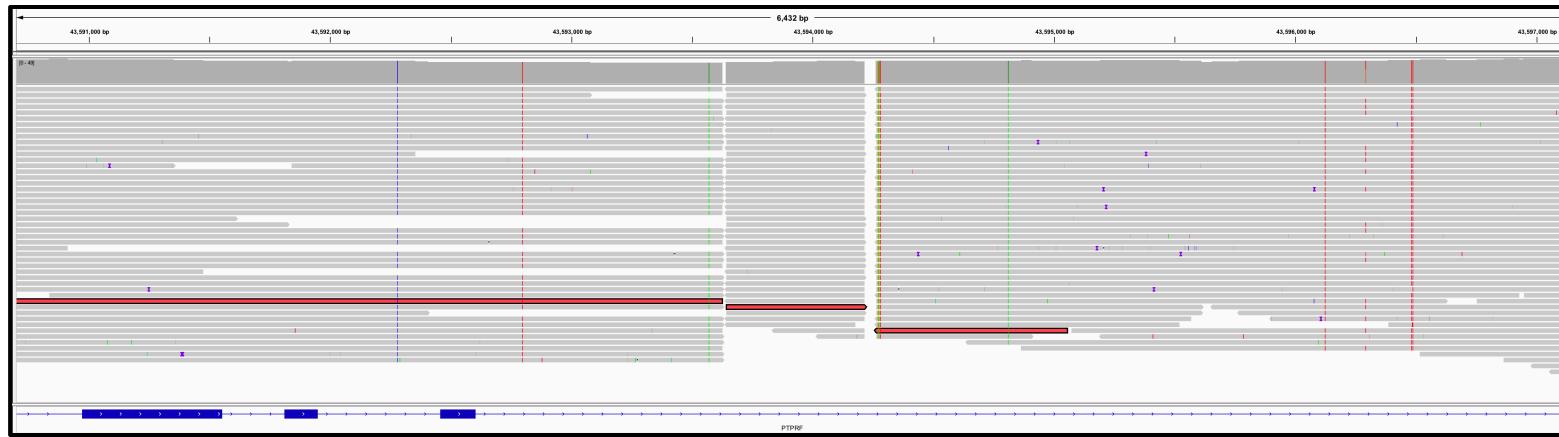
Supplementary File 2

GraphID-10

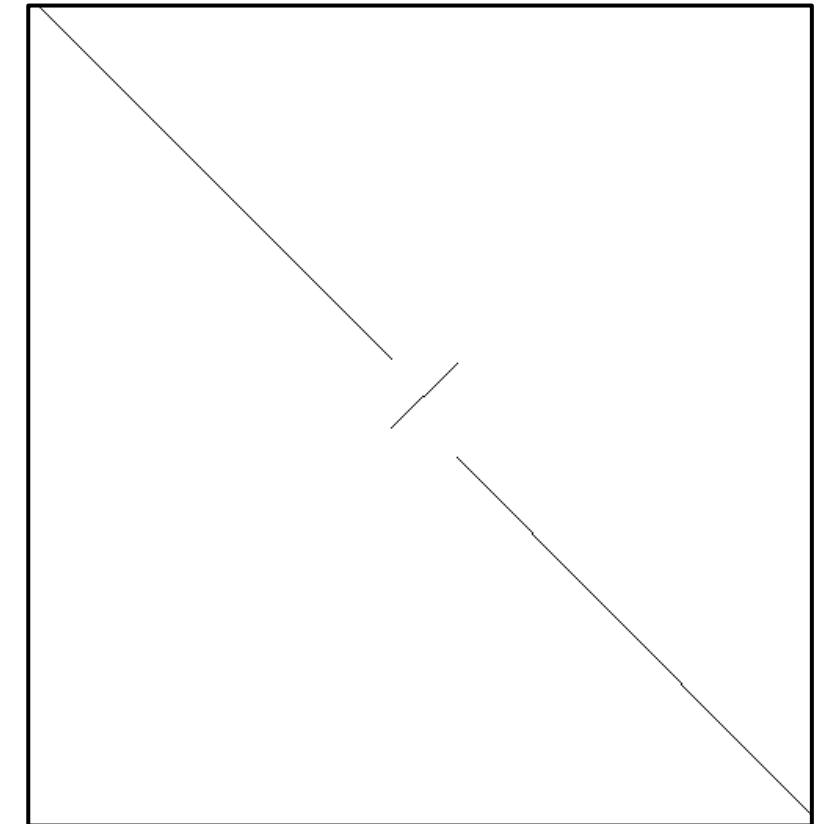
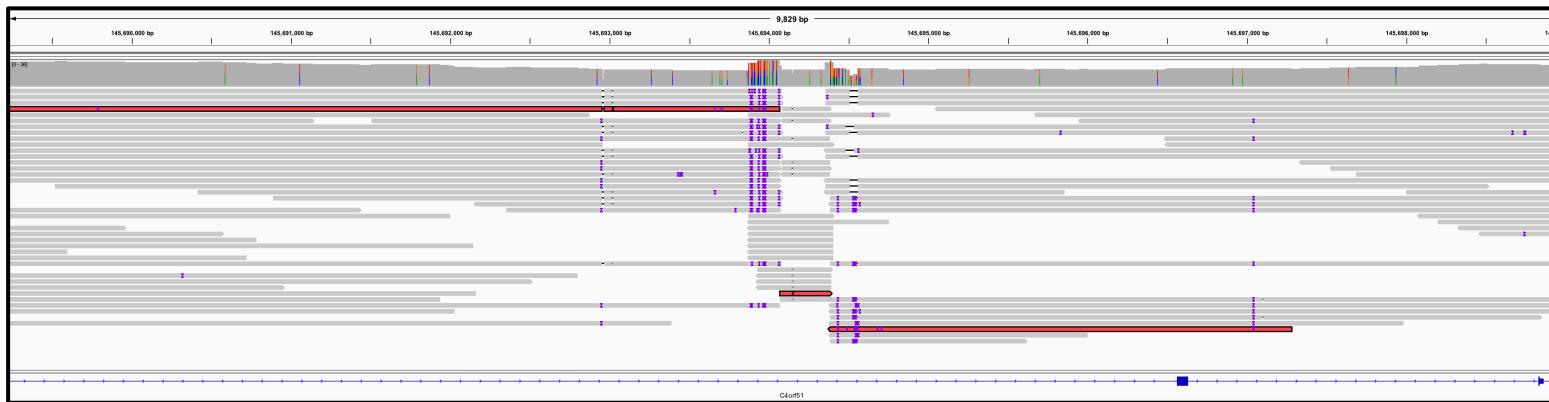


Nodes=S:3,I:1

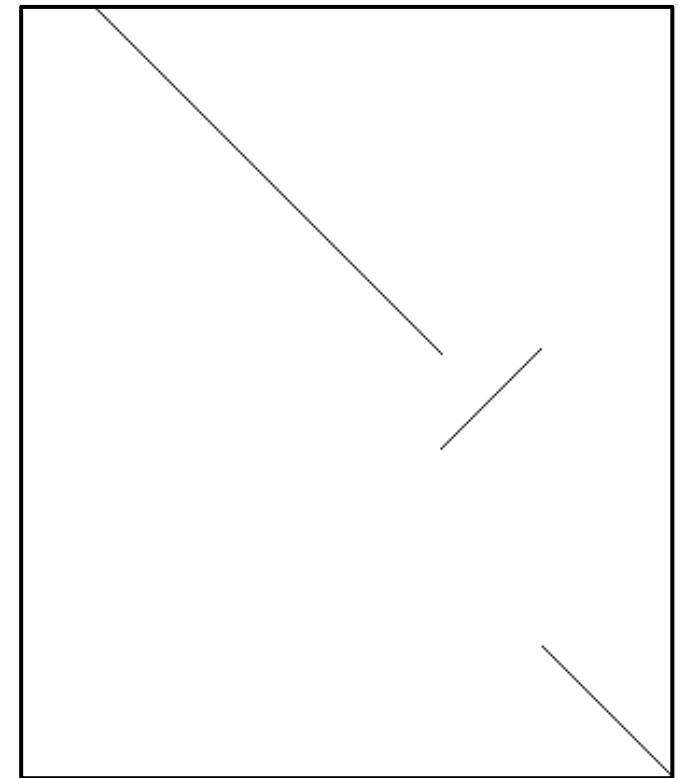
❖ chr1-43593624-43594257



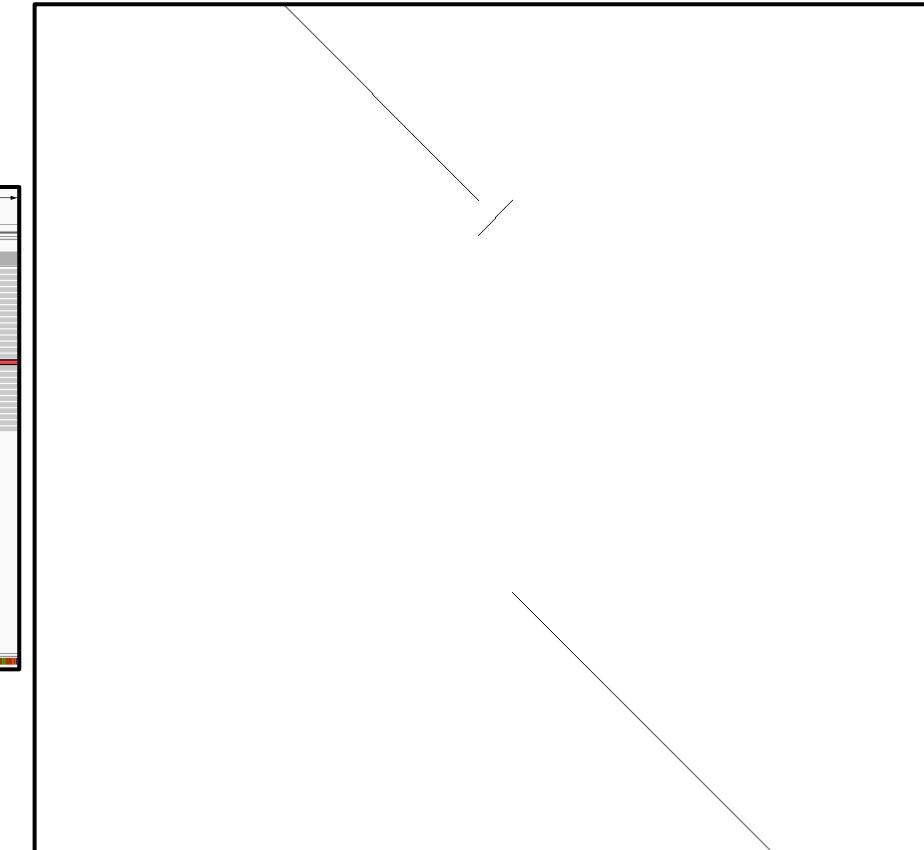
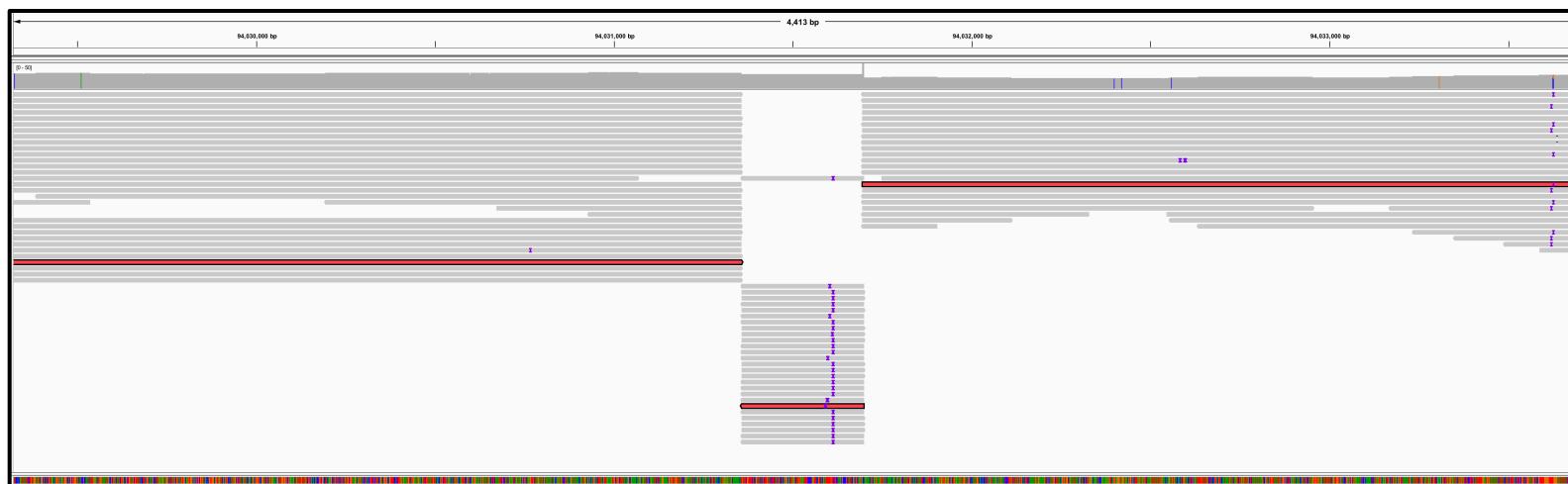
❖ chr4-145694076-145694384



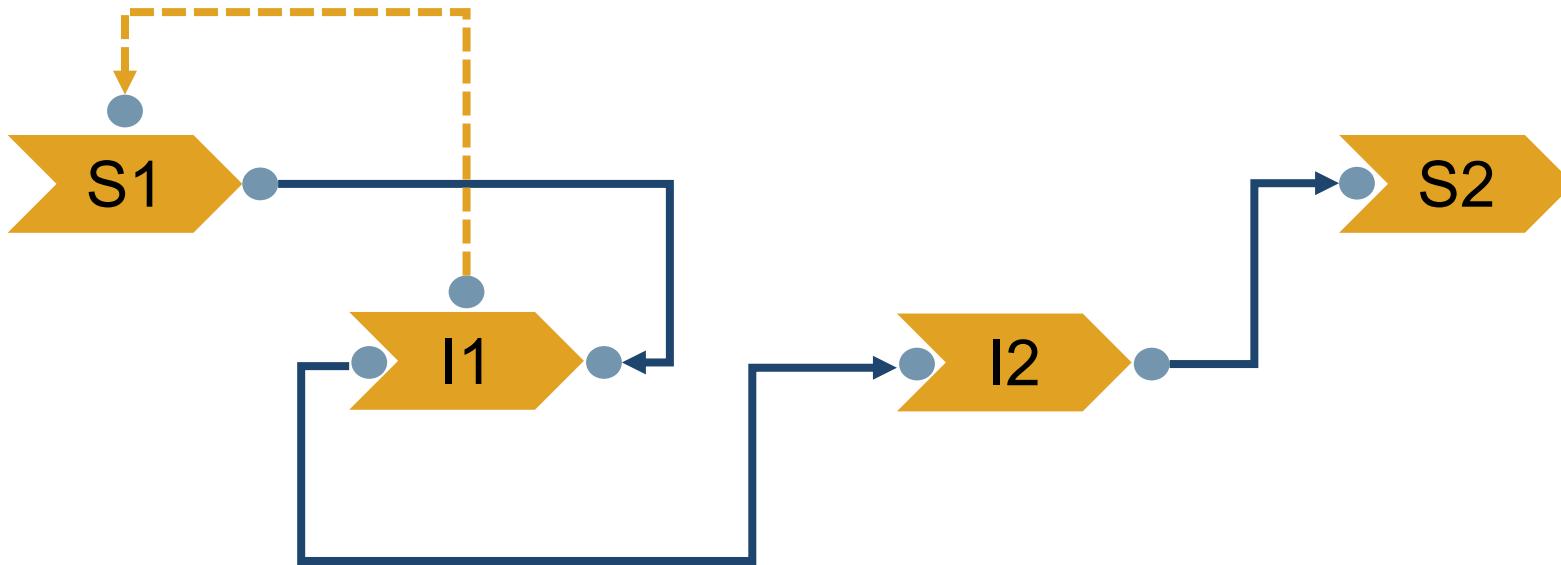
❖ chr6-89213914-89214231



❖ chr6-94031356-94031699



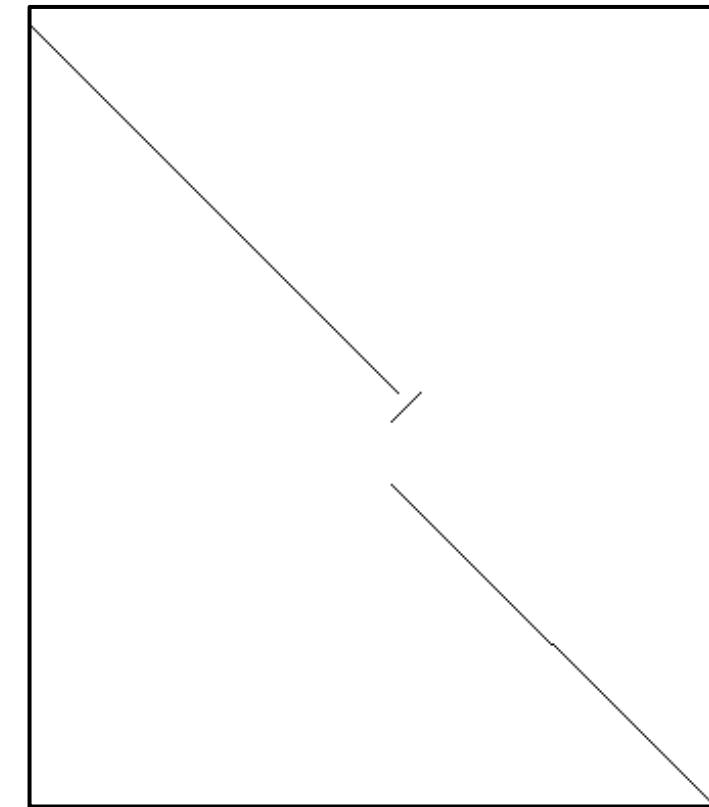
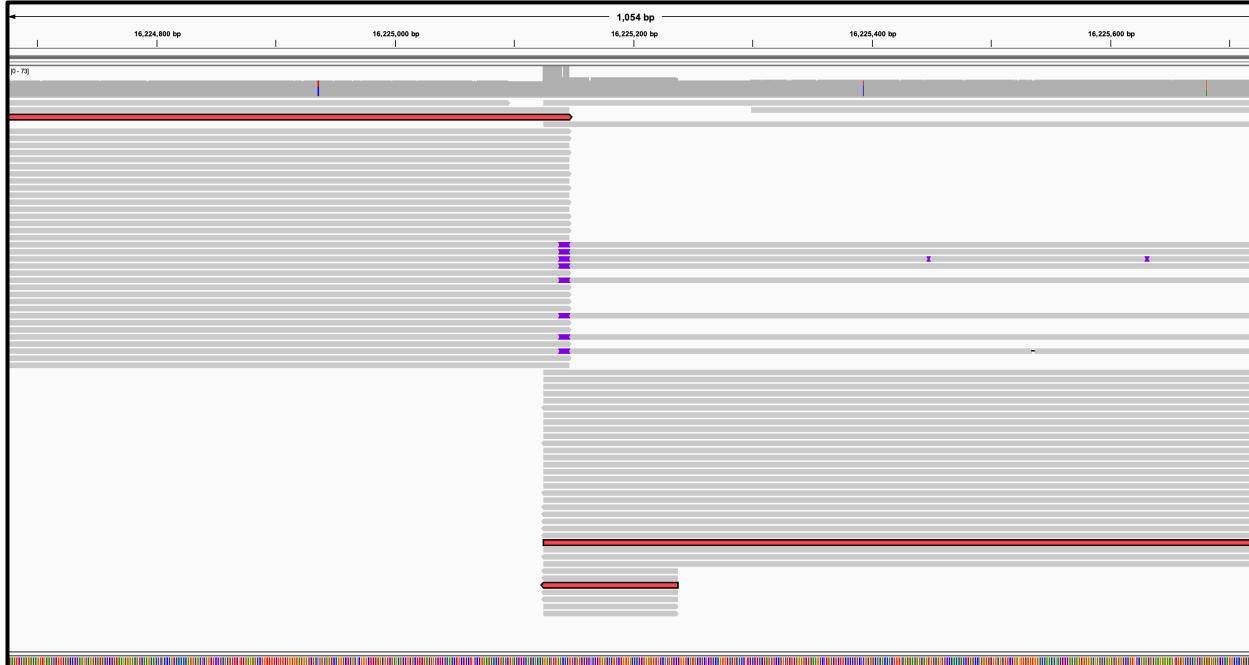
GraphID-22



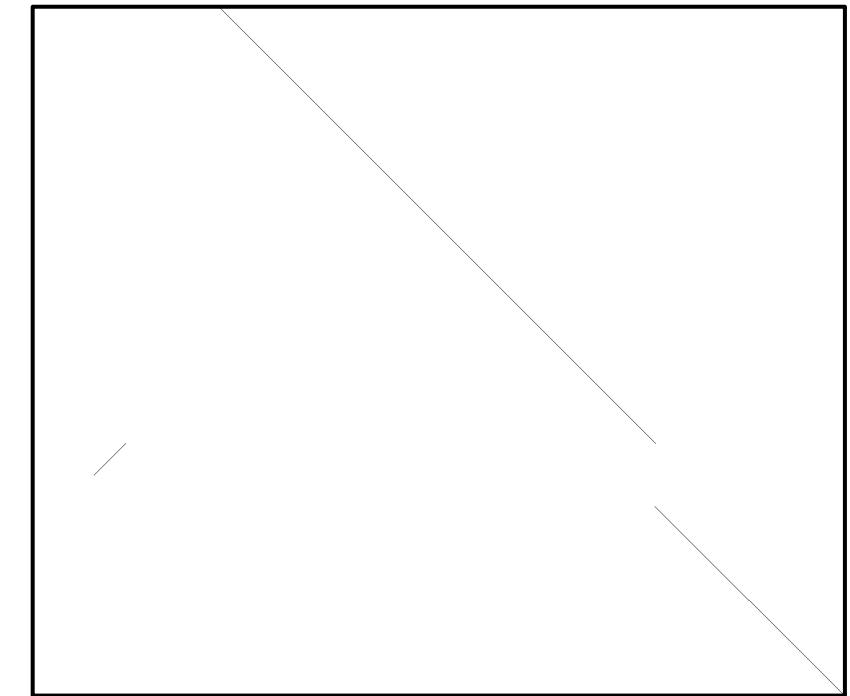
Nodes=S:2,I:2,D:1

Supplementary File 2

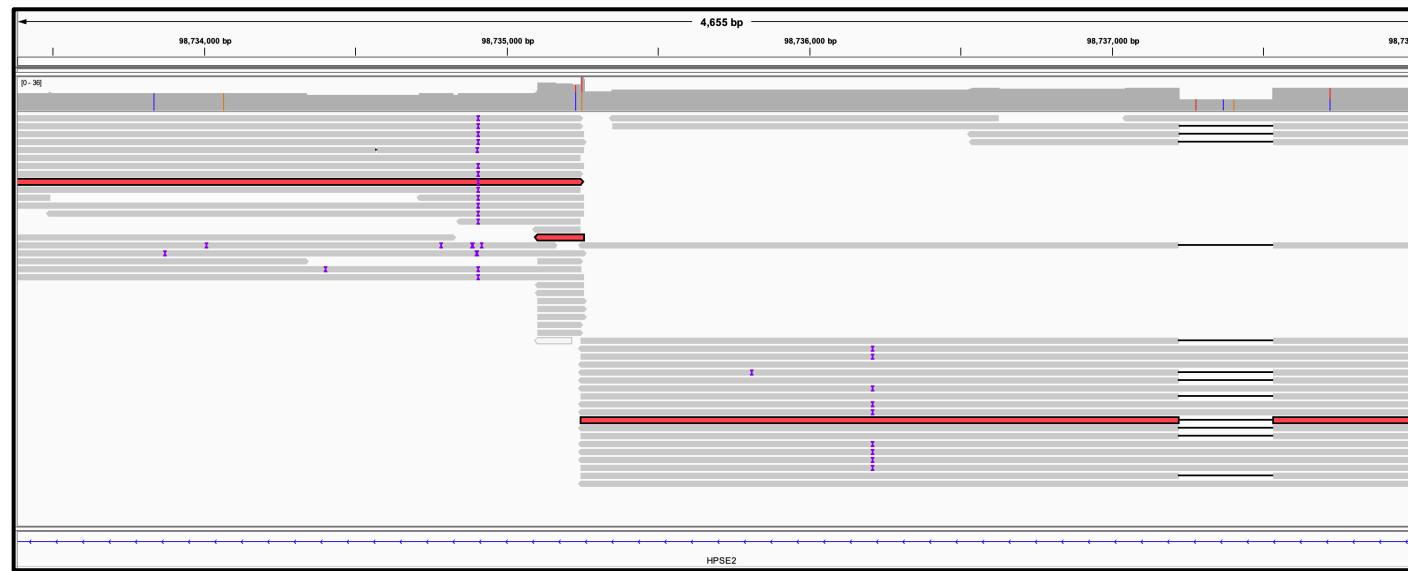
❖ chr2-16225124-16225236



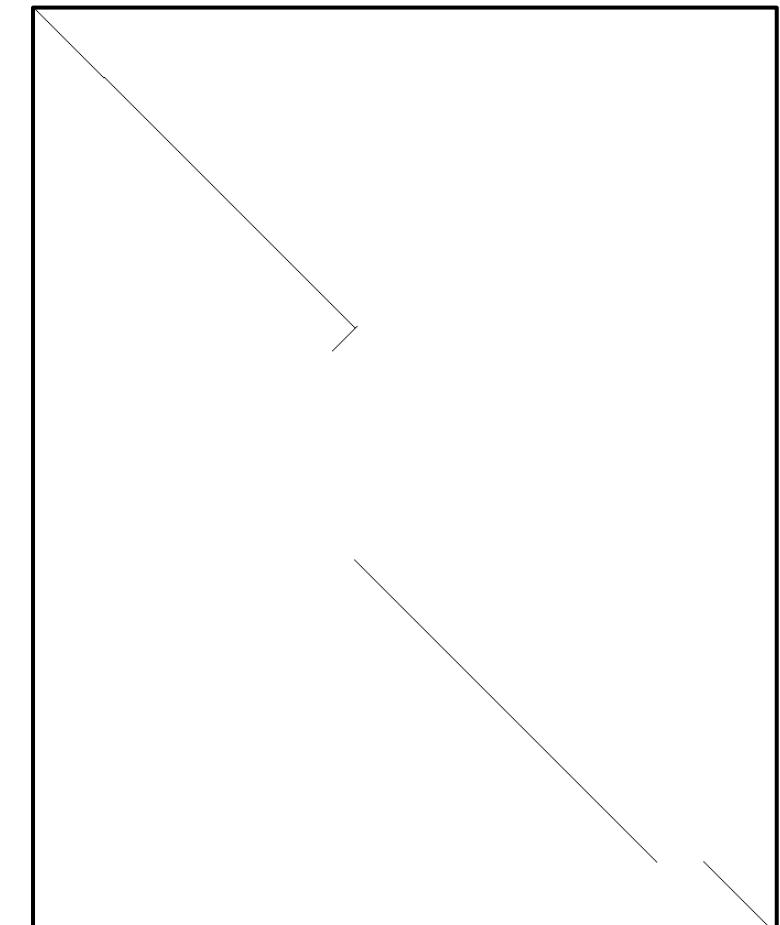
❖ chr8-84952507-84962077



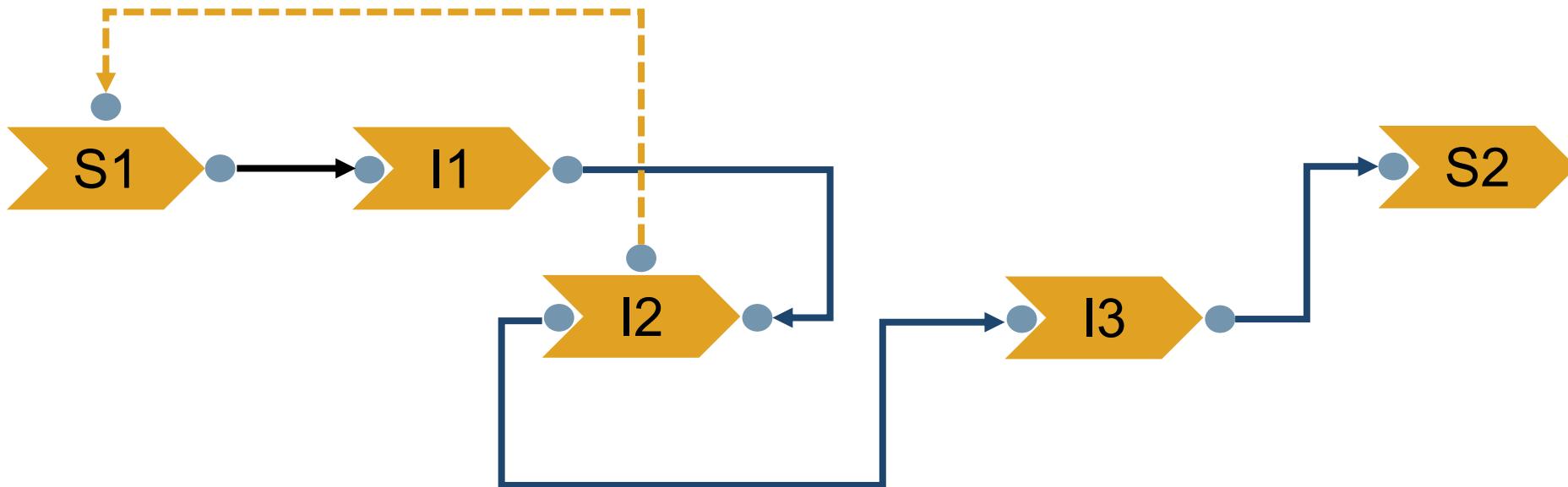
❖ chr10-98735100-98735257



Supplementary File 2



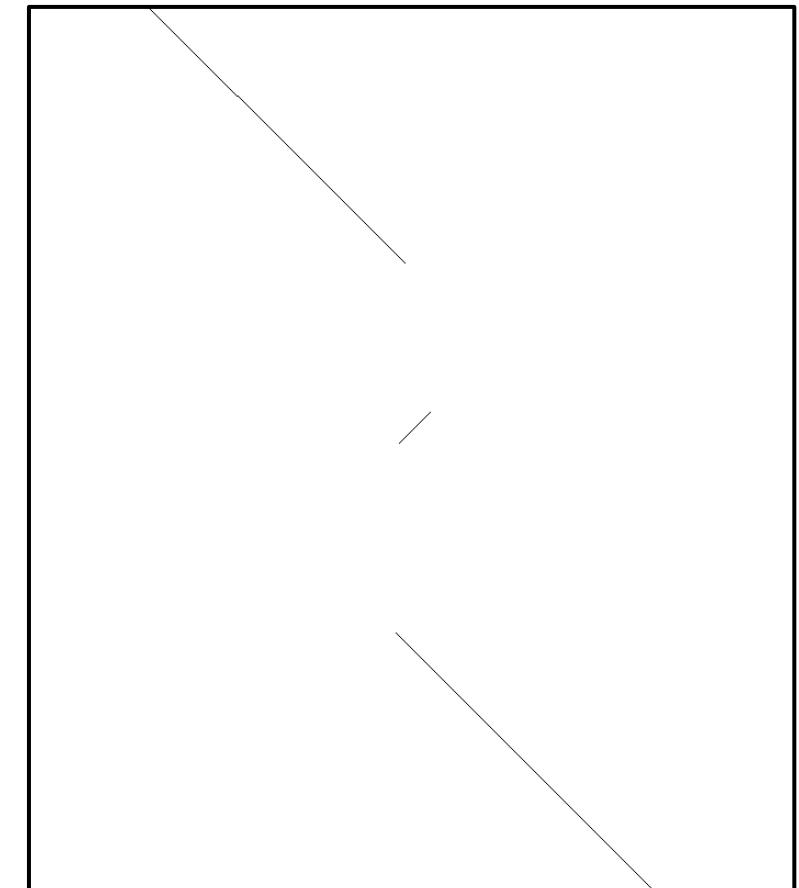
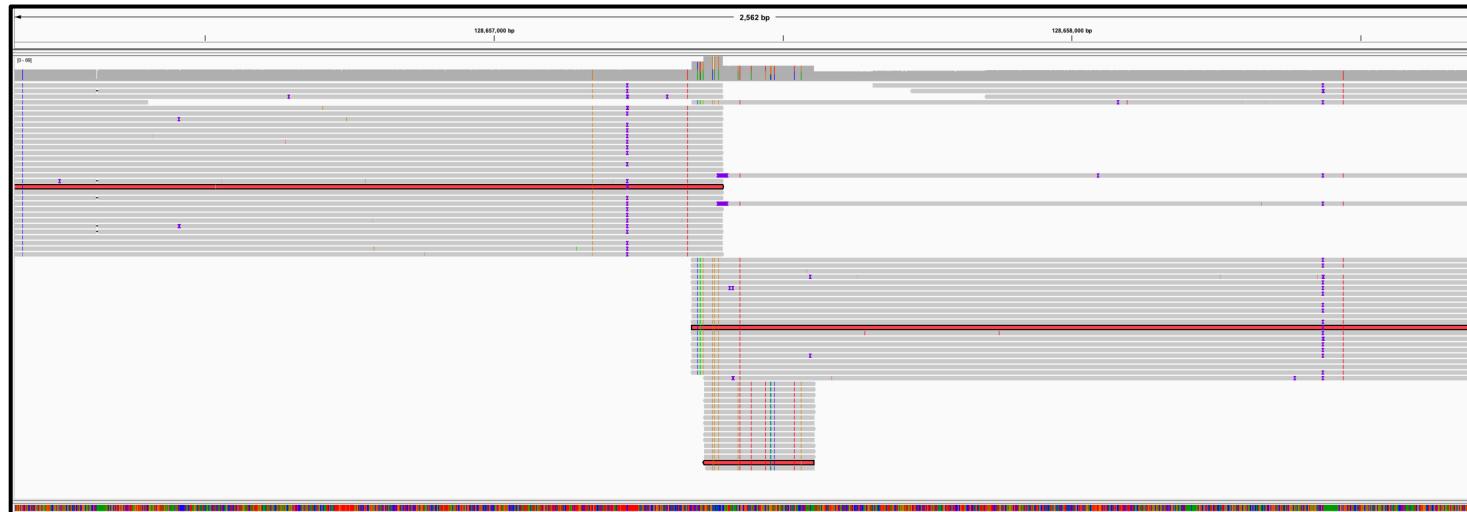
GraphID-29



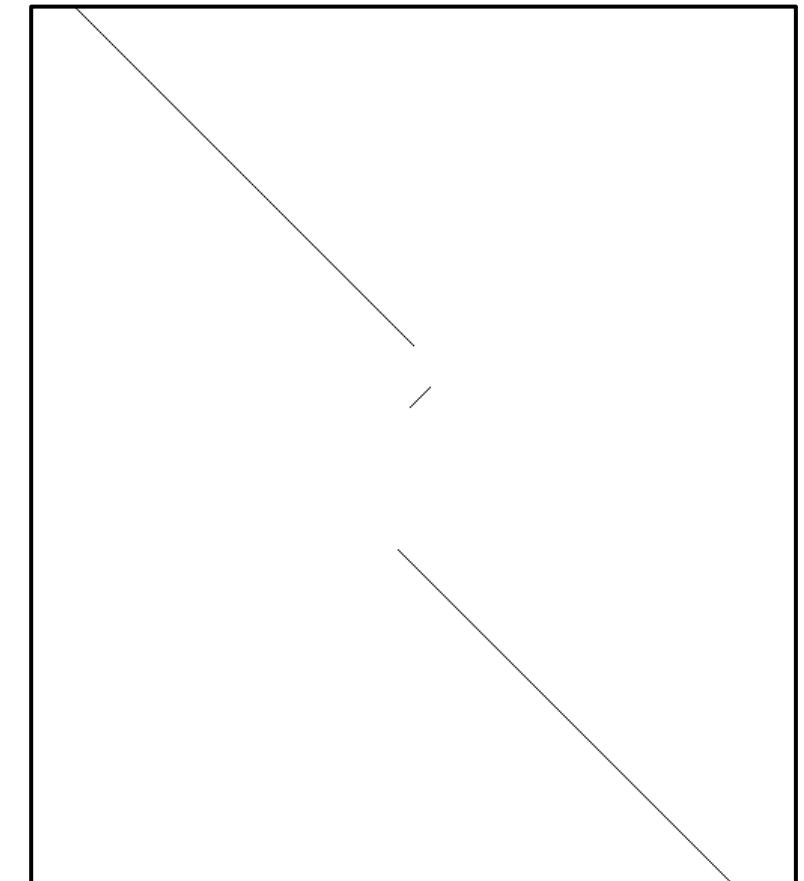
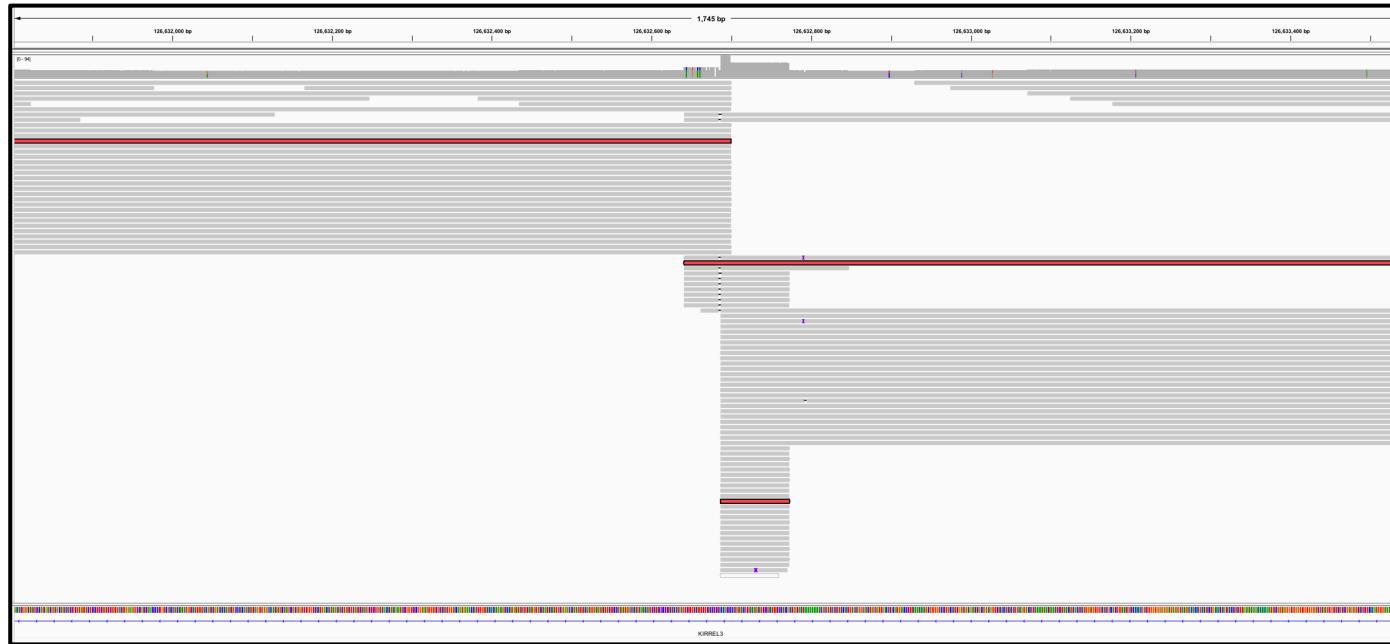
Nodes=S:3,I:3,D:1

Supplementary File 2

❖ chr3-128657347-128657553

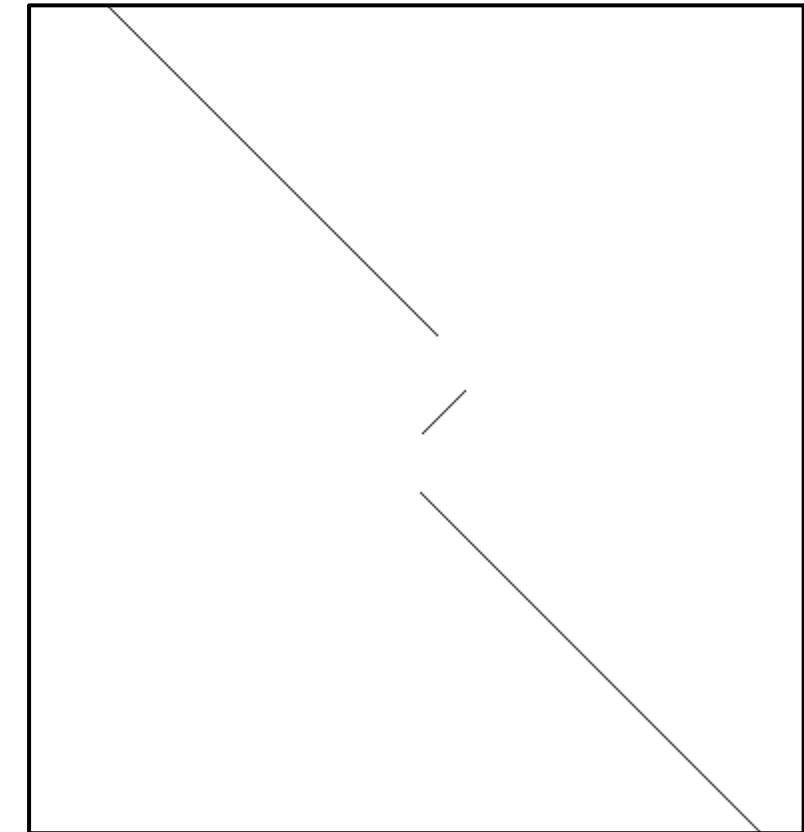
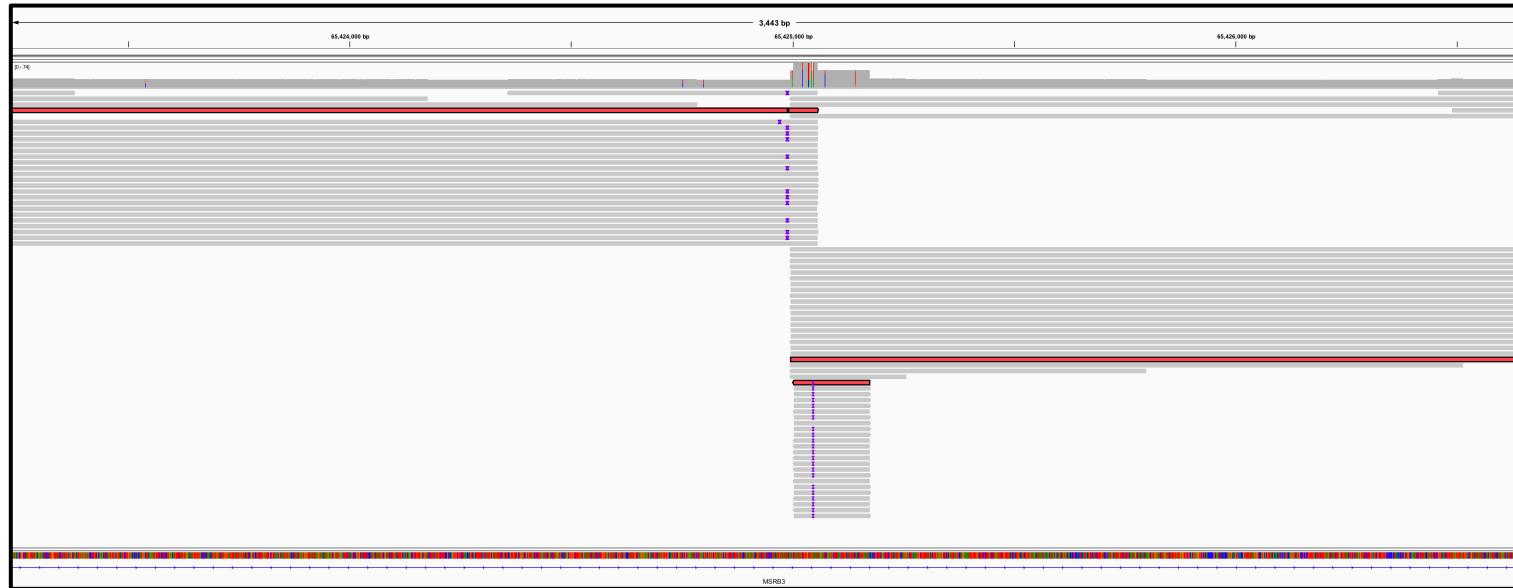


❖ chr11-126632640-126632771

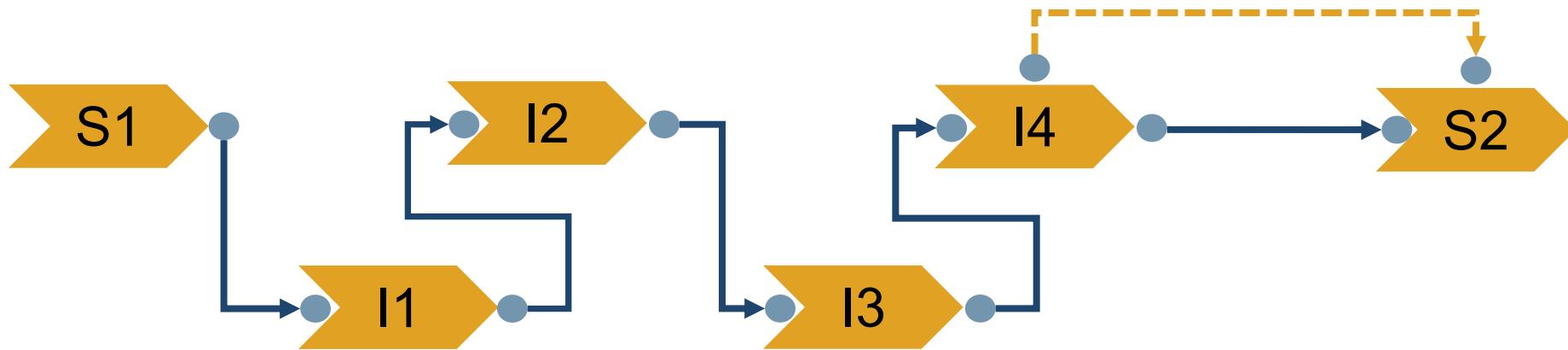


❖ chr12-65424994-65425174

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S0 N SN:Z:chr12 SO:i:65411496 SR:i:0 LN:i:13567
S1 N SN:Z:chr12 SO:i:65425002 SR:i:0 LN:i:174
S2 N SN:Z:chr12 SO:i:65425057 SR:i:0 LN:i:1966
I0 N SN:Z:m54329U_190827_173812/127861958/ccs SO:i:13569 SR:i:0 LN:i:226
I1 N SN:Z:m54329U_190827_173812/127861958/ccs SO:i:13971 SR:i:0 LN:i:237
I2 N SN:Z:m54329U_190827_173812/127861958/ccs SO:i:14209 SR:i:0 LN:i:61 DP:S:S0:65424995
S0 + I0 + 0M SR:i:0
I0 + S1 - 0M SR:i:0
S1 - I1 + 0M SR:i:0
I1 + I2 + 0M SR:i:0
I2 + S2 + 0M SR:i:0
```

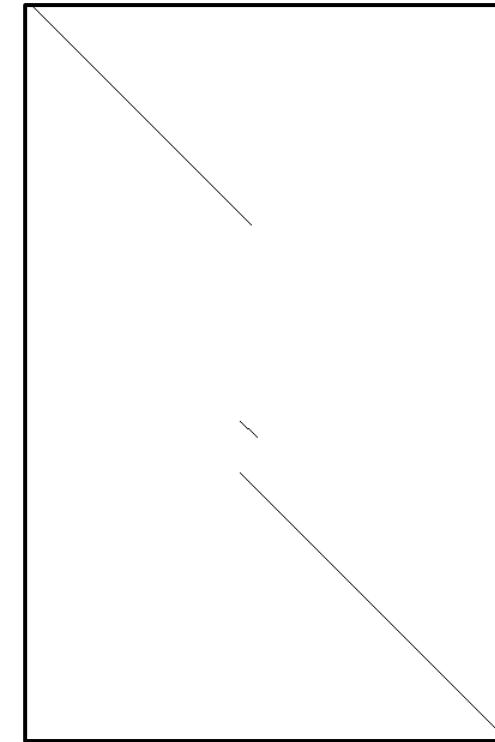


GraphID-5

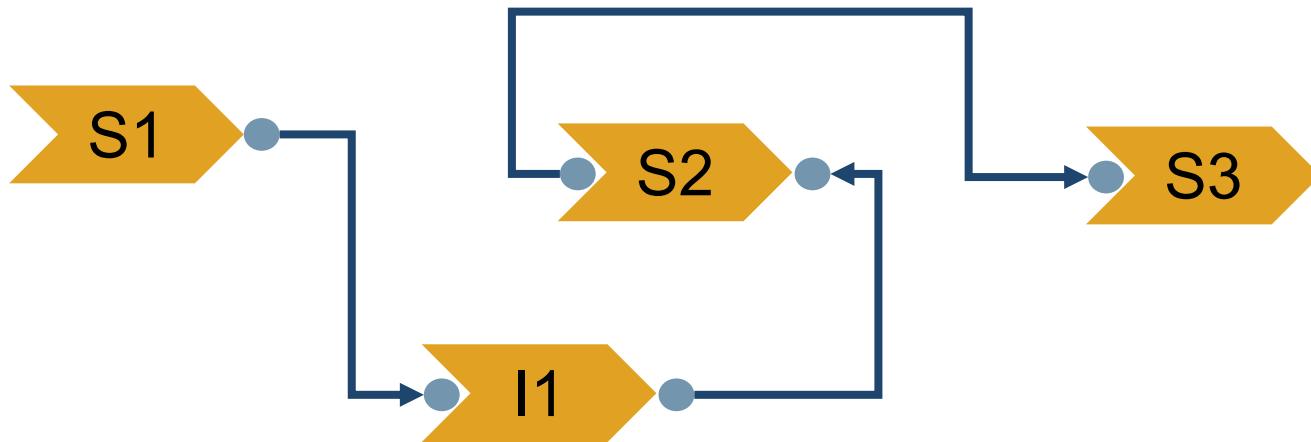


Nodes=S:2,I:4,D:1

❖ chr14-65791559-65791687



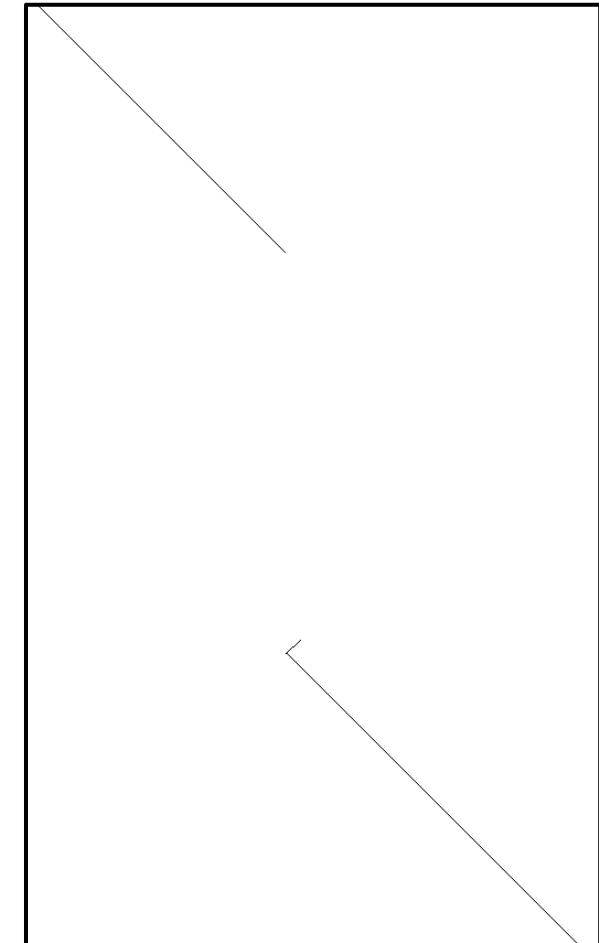
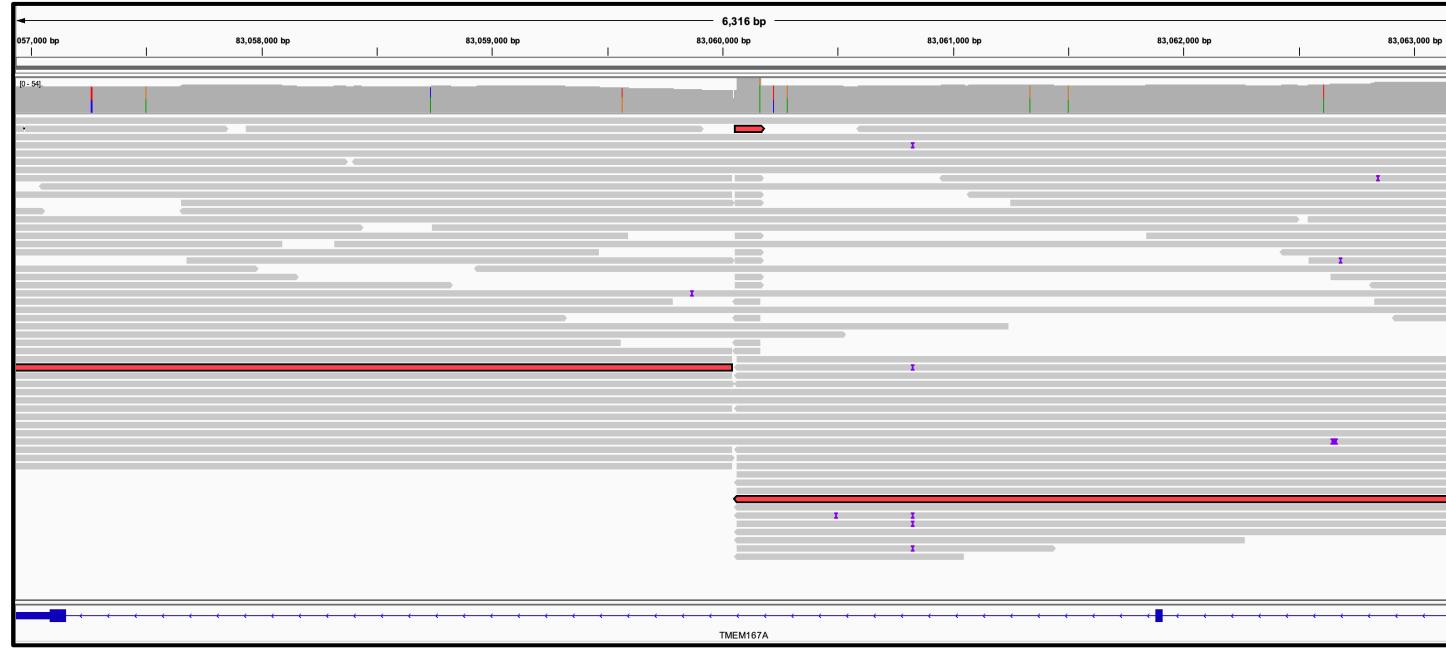
GraphID-16



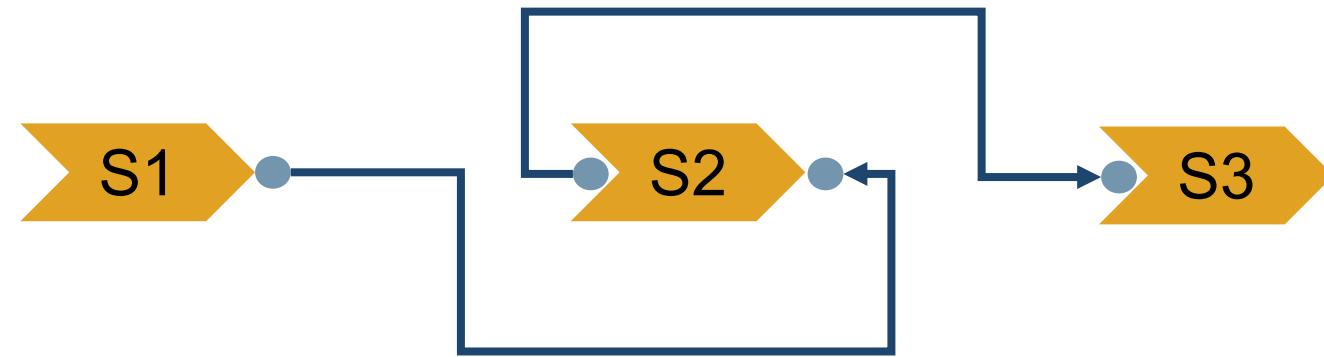
Nodes=S:3,I:1

Supplementary File 2

❖ chr5-83060043-83060167



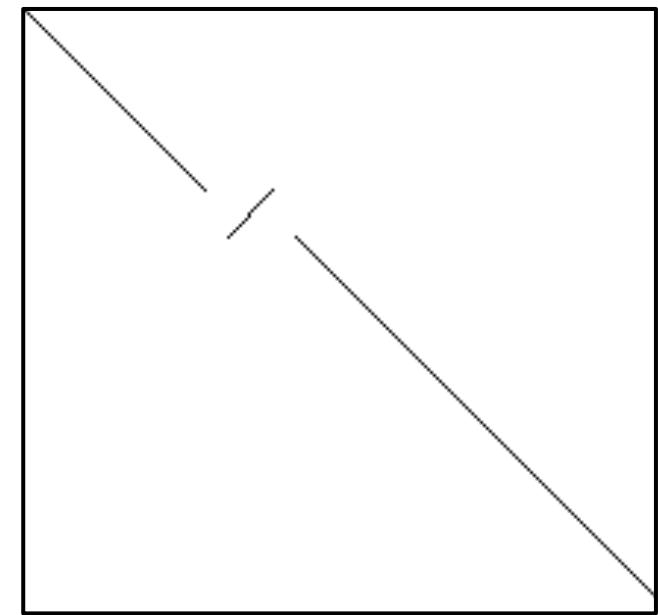
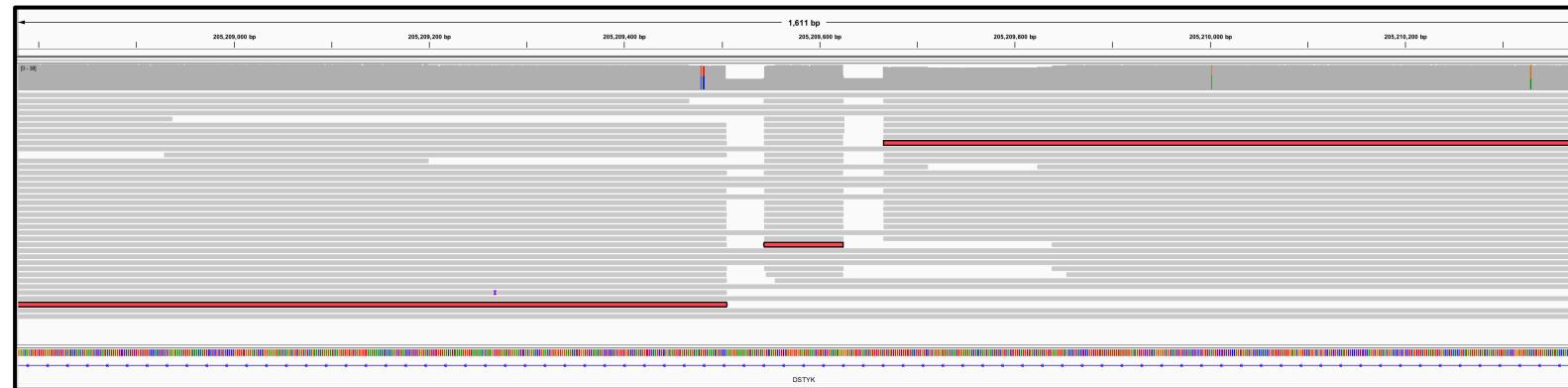
GraphID-18



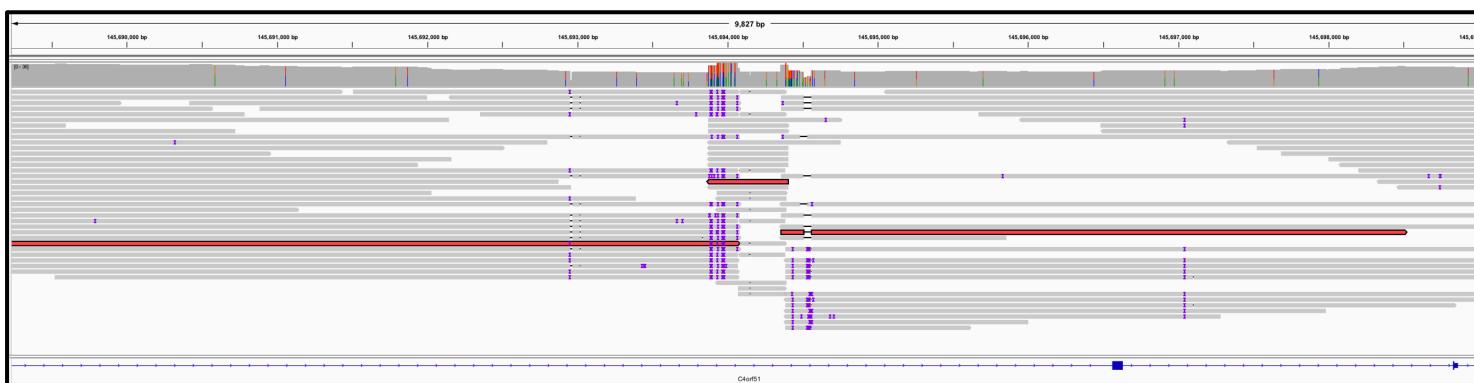
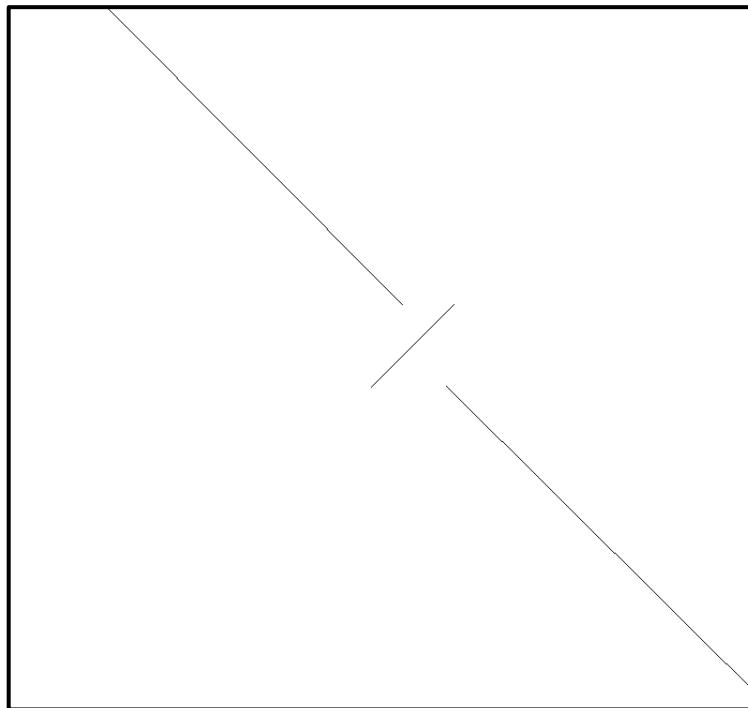
Nodes=S:3

Supplementary File 2

❖ chr1-205209504-205209664-9618-72

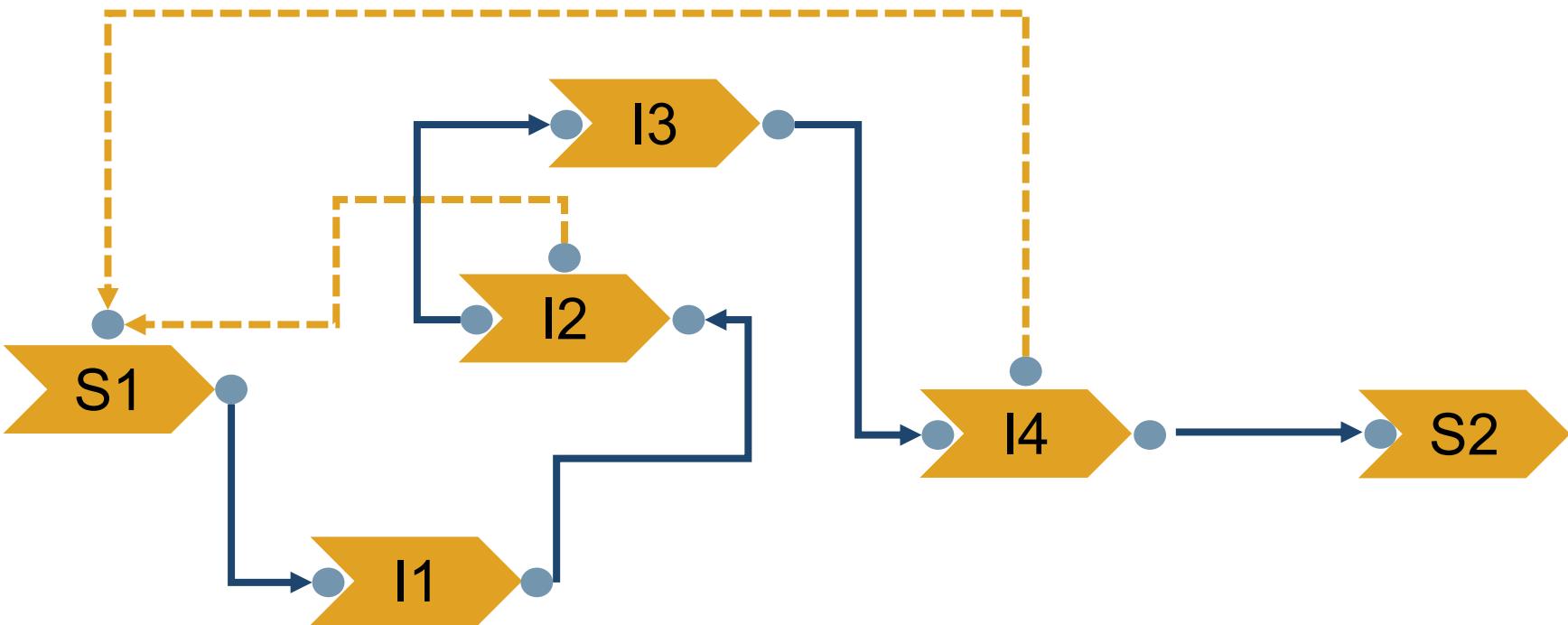


❖ chr4-145693889-145694397



Supplementary File 2

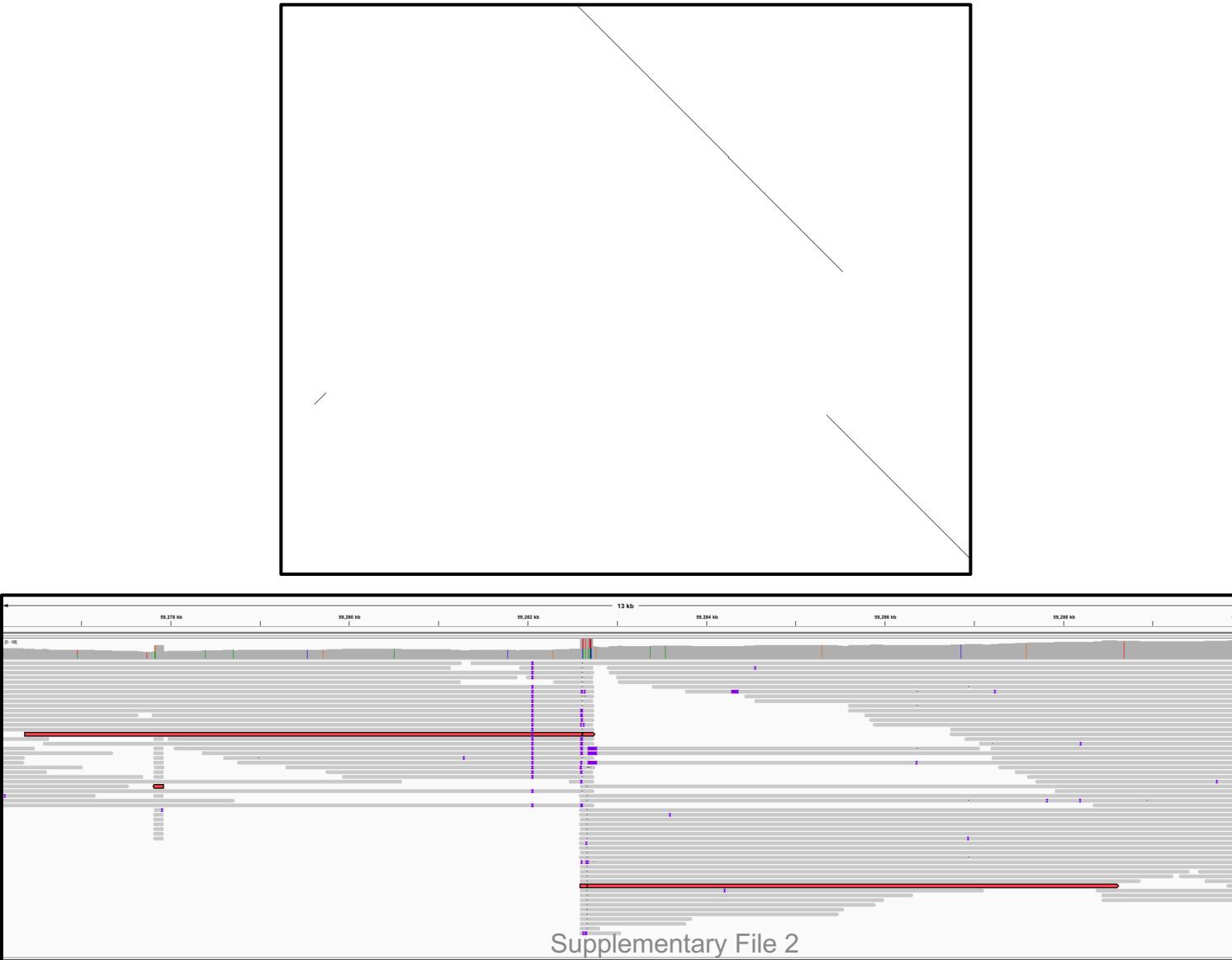
GraphID-49



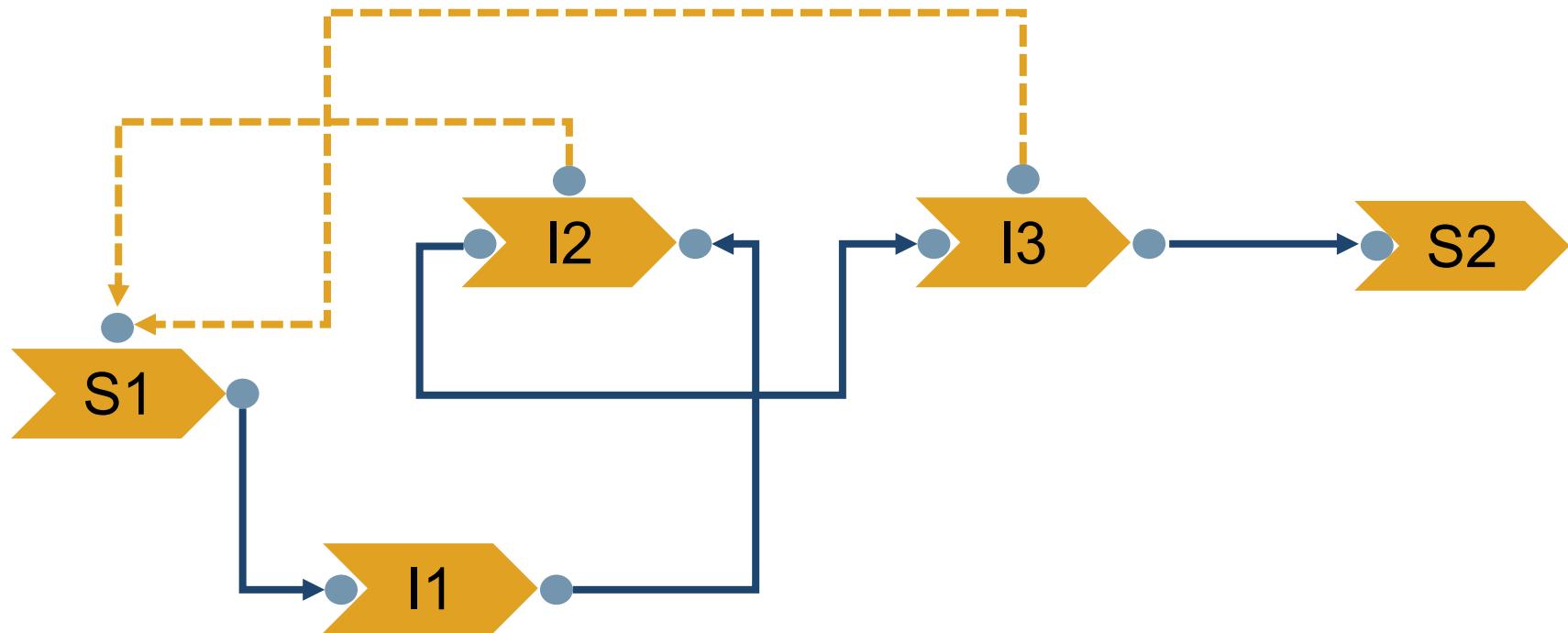
Nodes=S:2,I:4,D:2

Supplementary File 2

❖ chr11-59277816-59282714



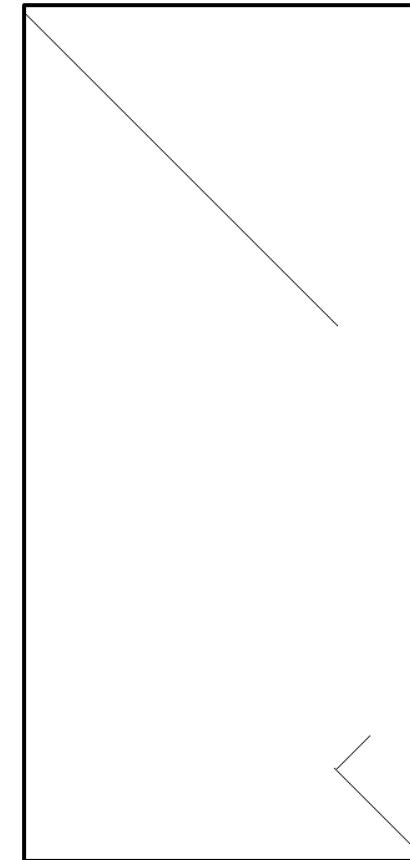
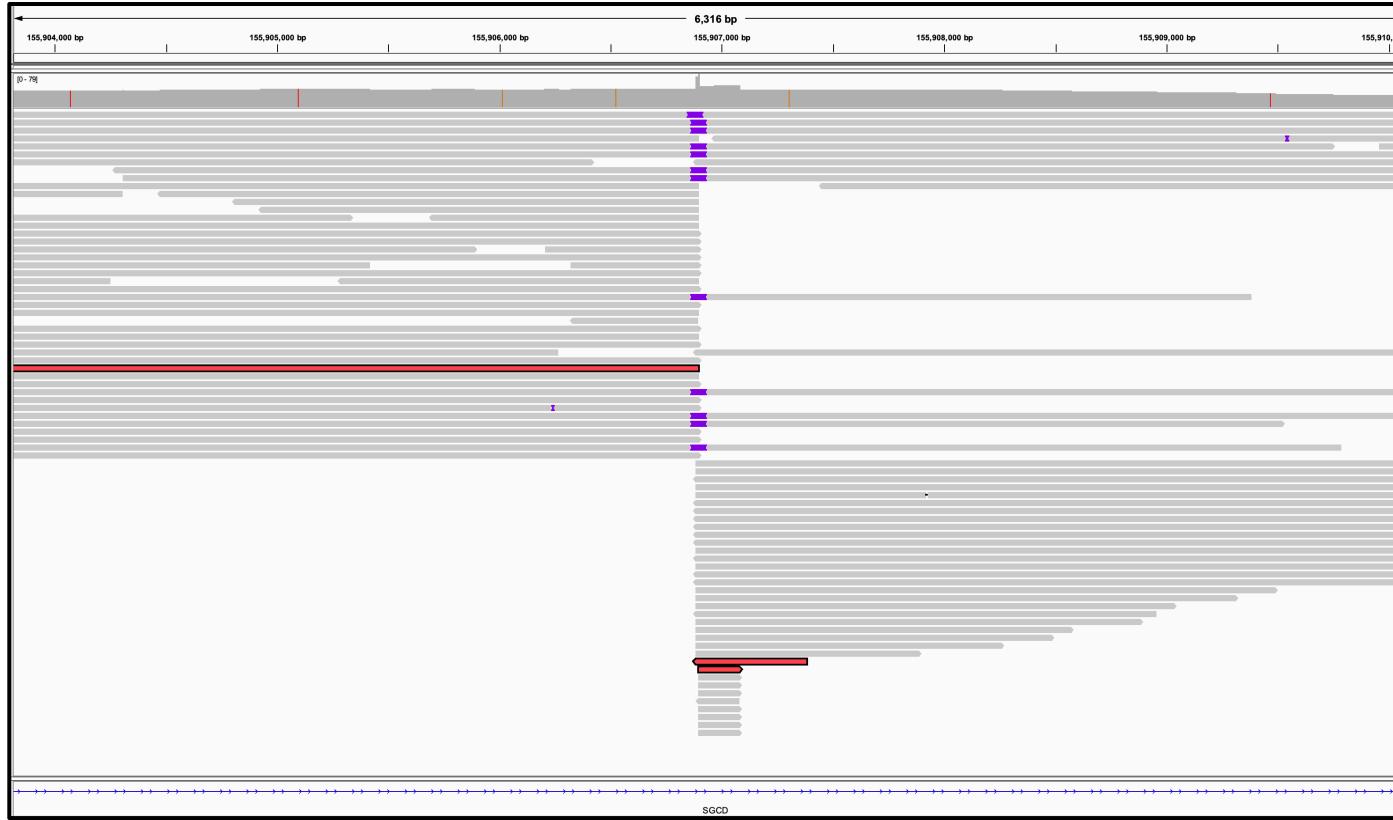
GraphID-47



Nodes=S:2,I:2,D:1

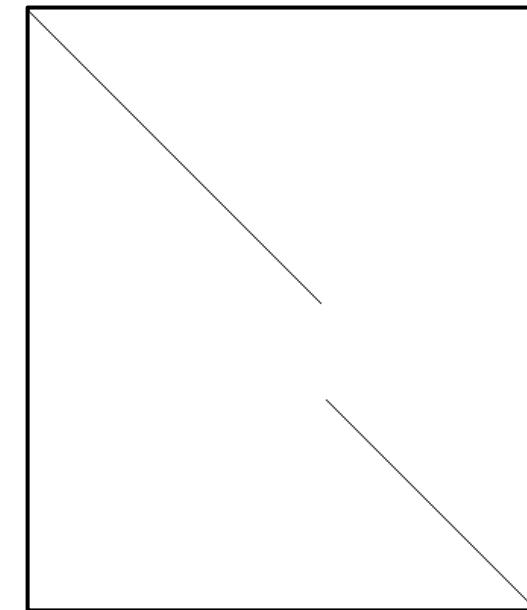
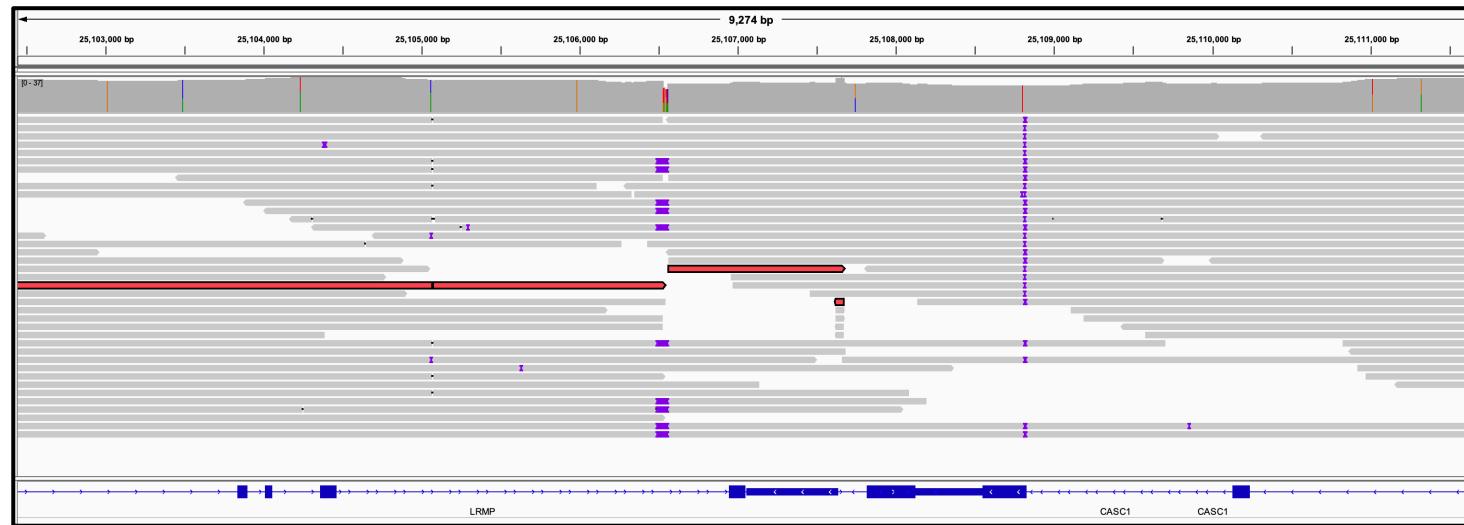
Supplementary File 2

❖ chr5-155906888-155907080

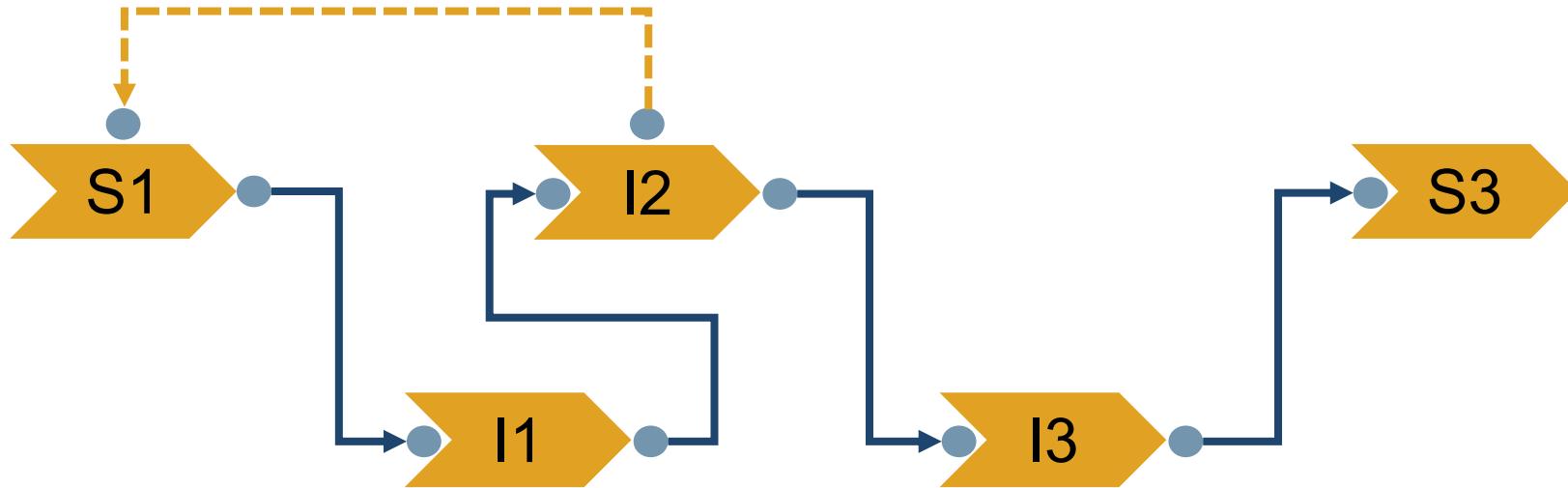


Supplementary File 2

❖ chr12-25106528-25107673



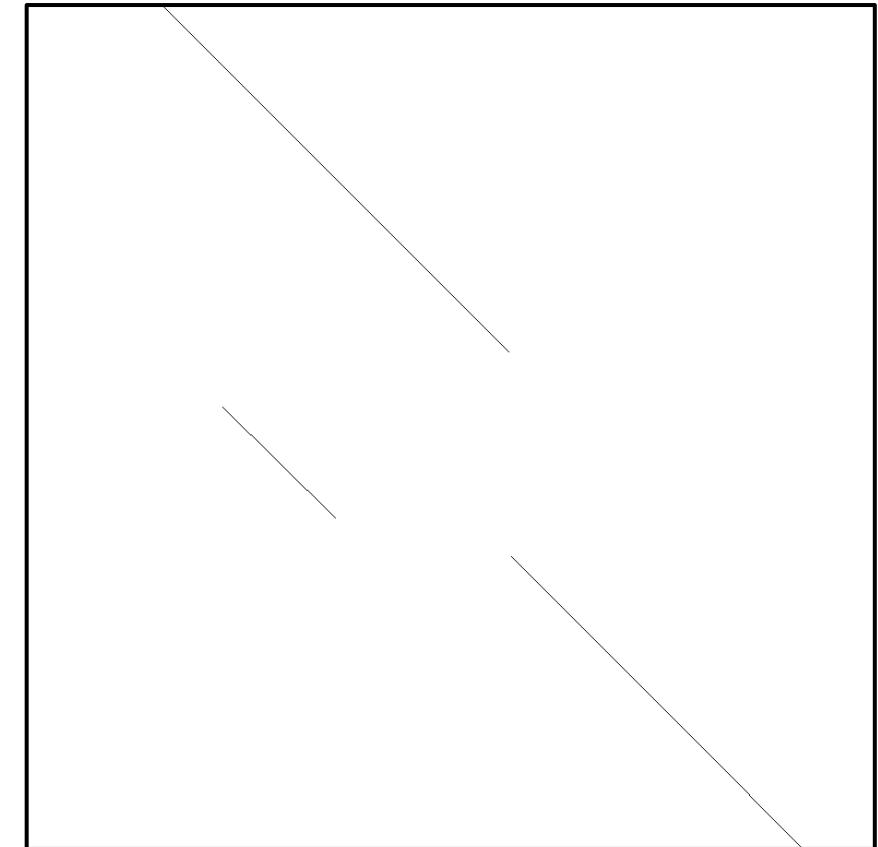
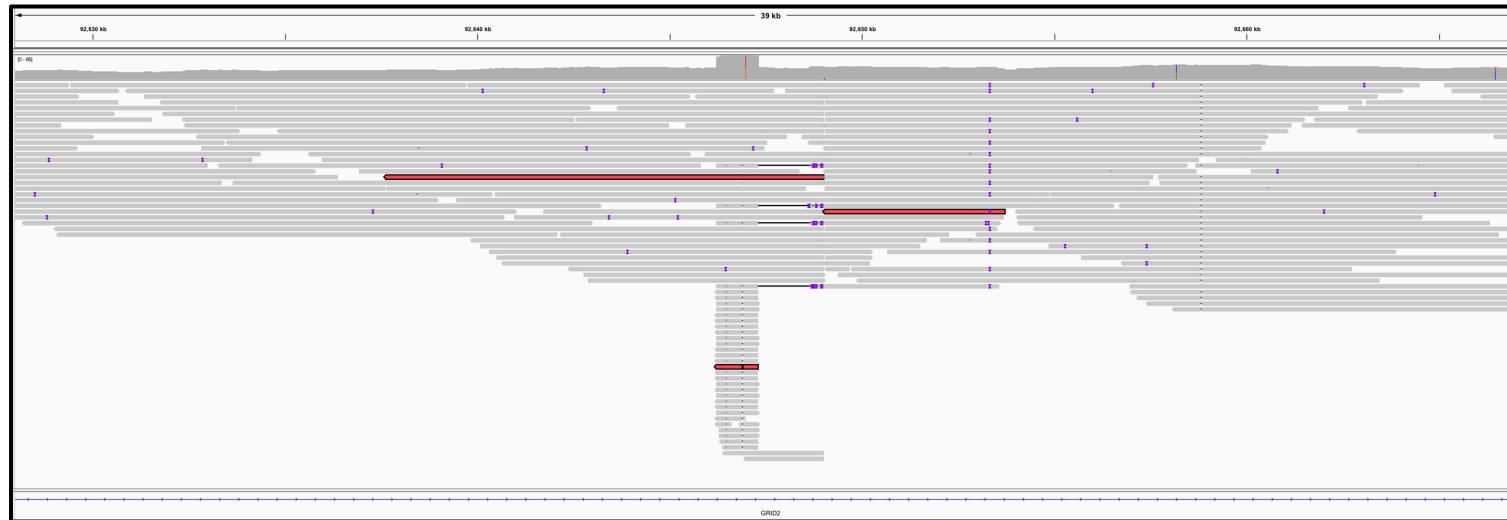
GraphID-40



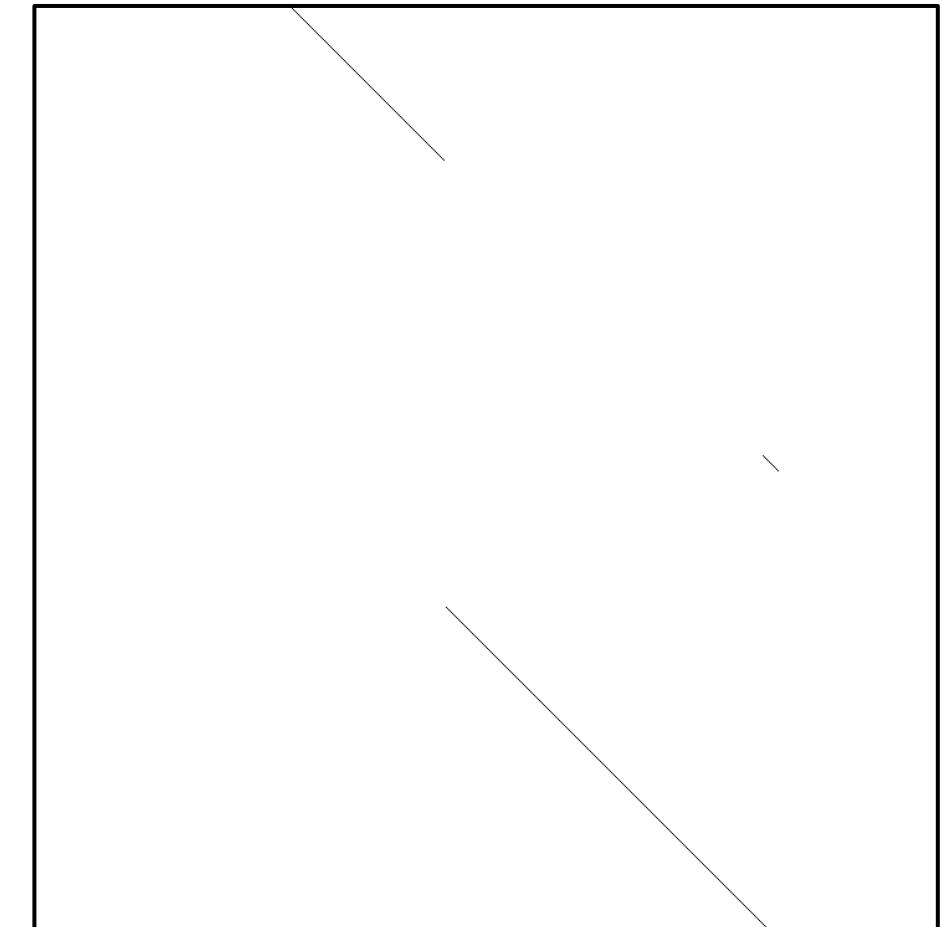
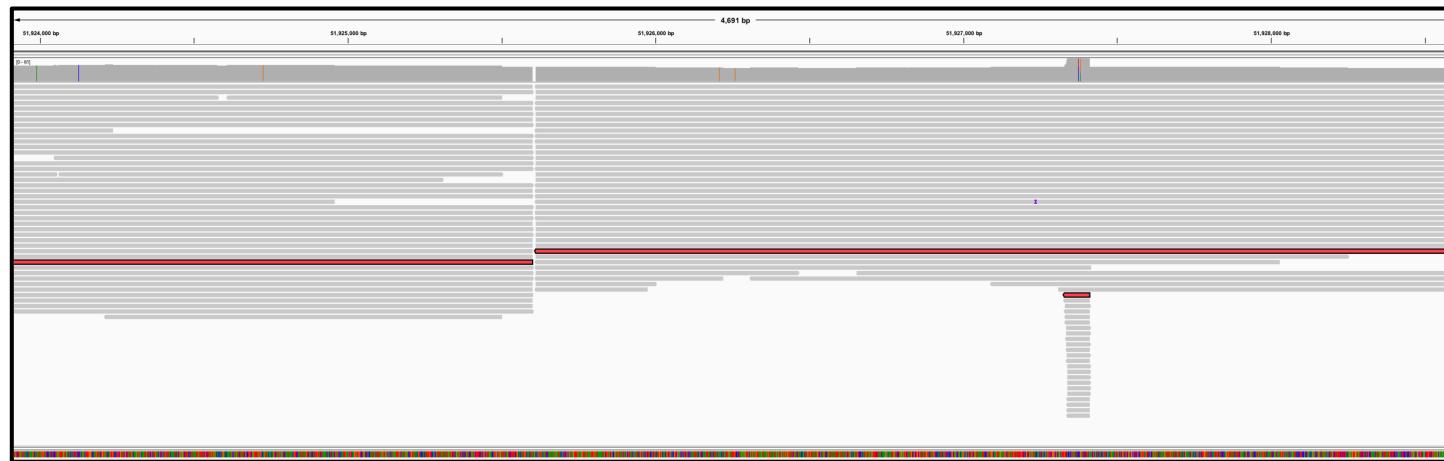
Nodes=S:2,I:3,D:1

Supplementary File 2

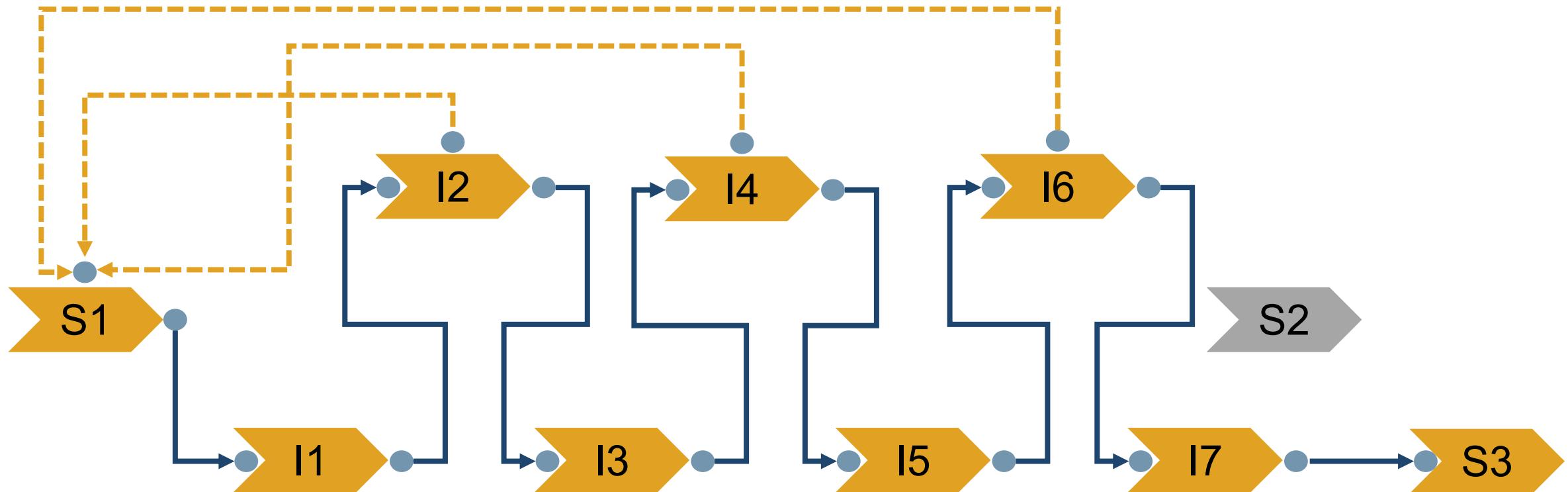
❖ chr4-92646210-92649022



❖ chr5-51925593-51927635



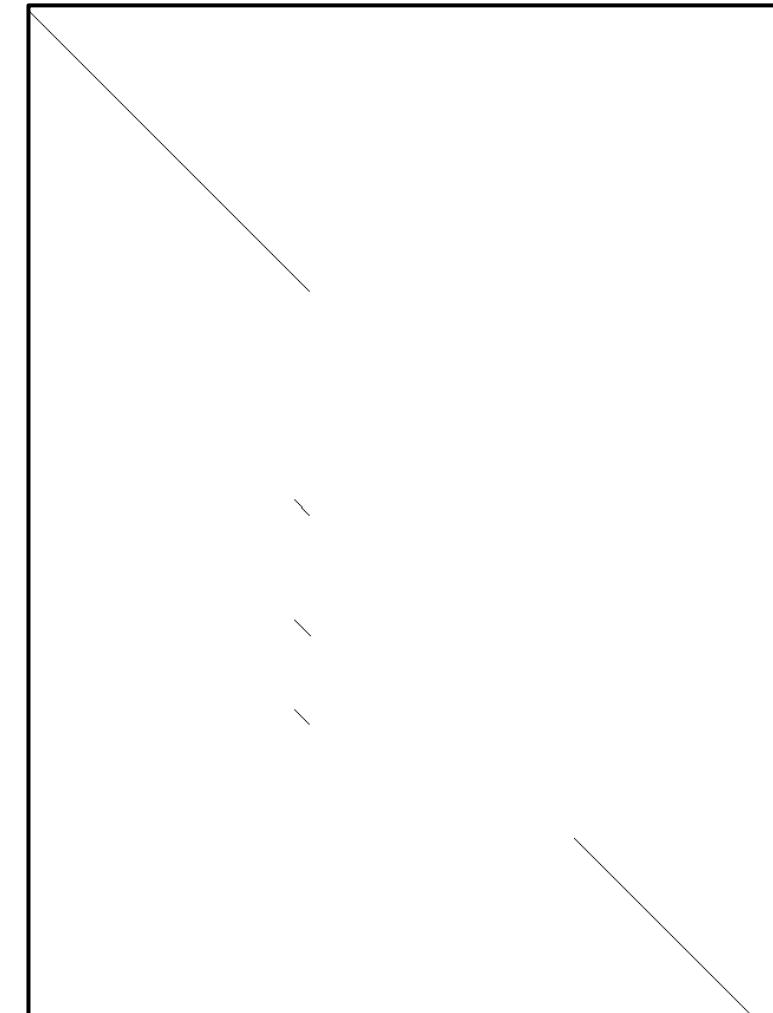
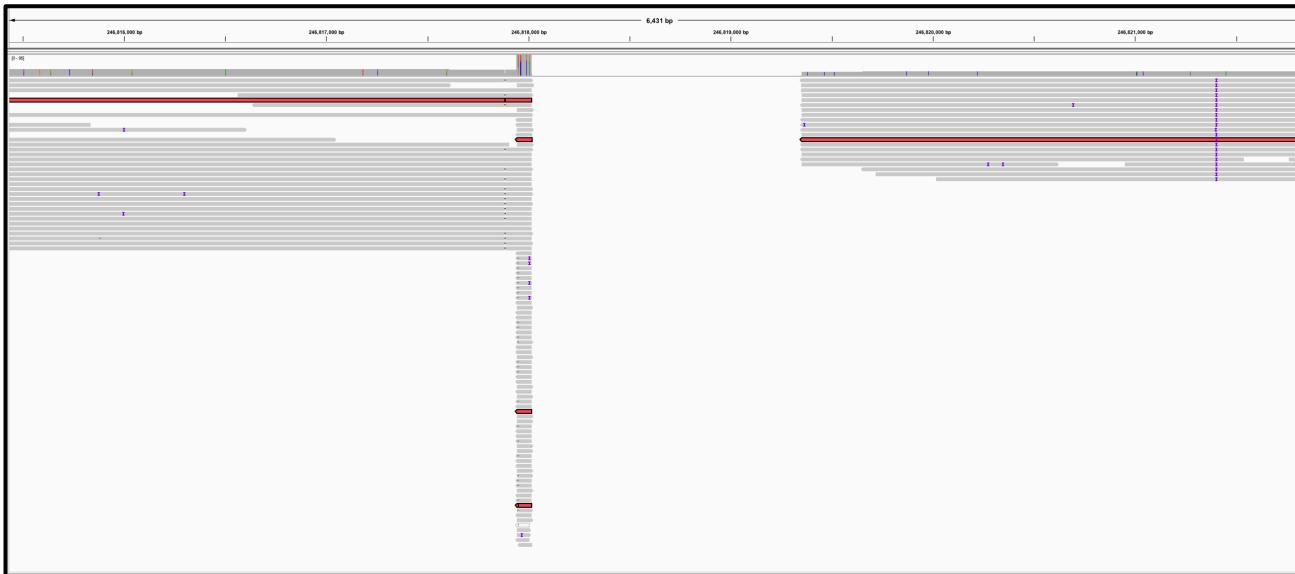
GraphID-20



Nodes=S:3,I:7,D:3

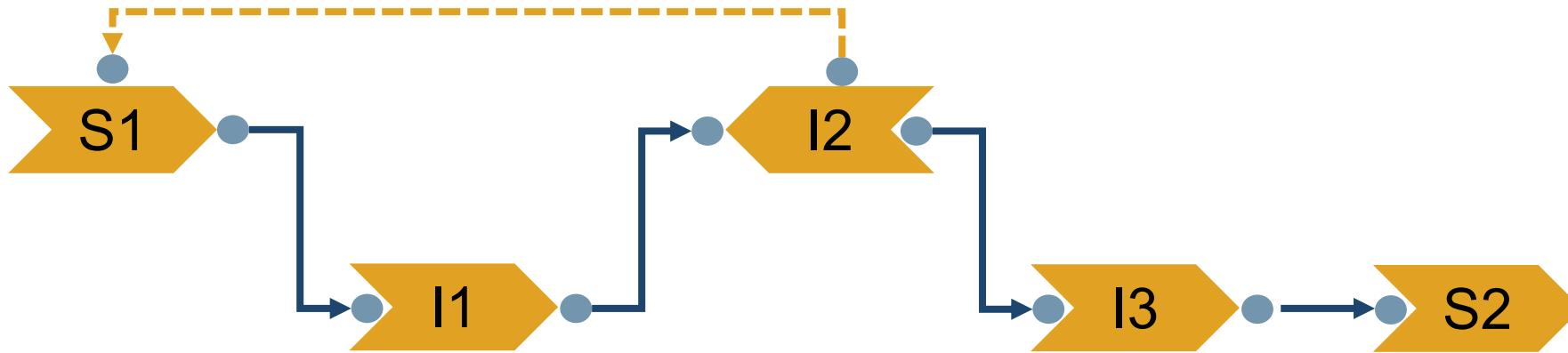
Supplementary File 2

❖ chr1-246817940-246819350



Supplementary File 2

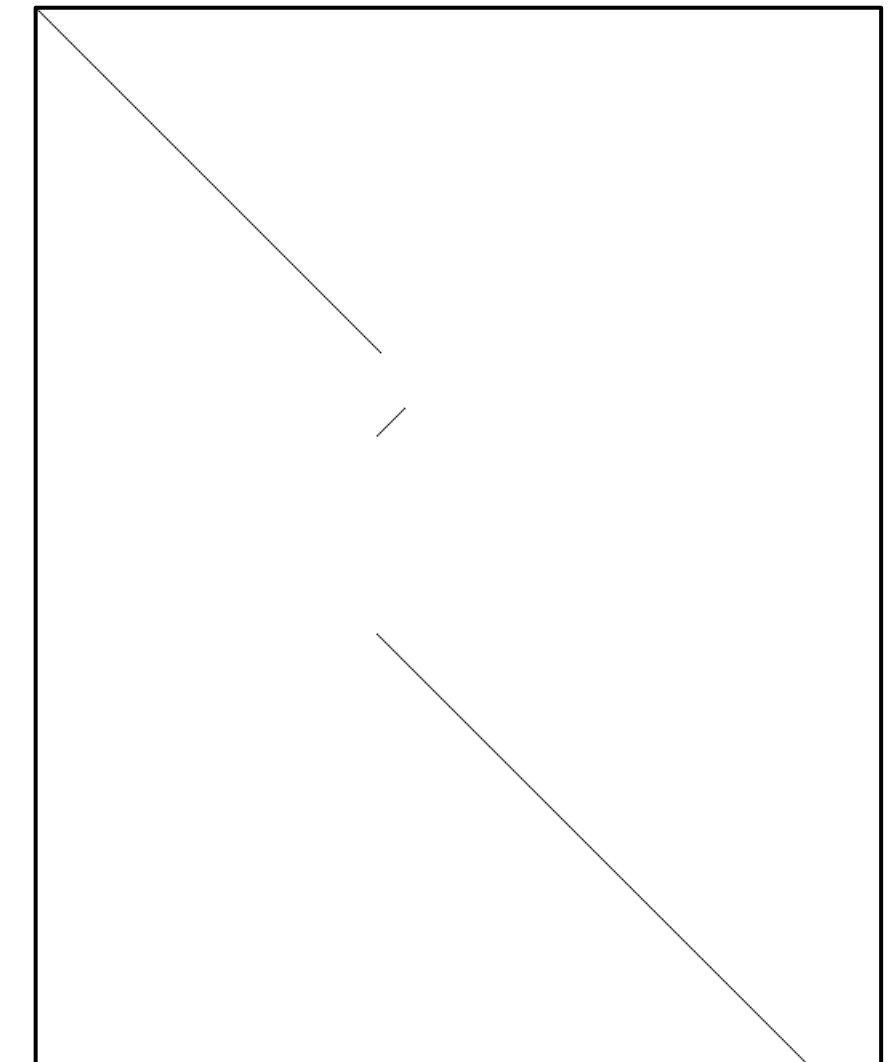
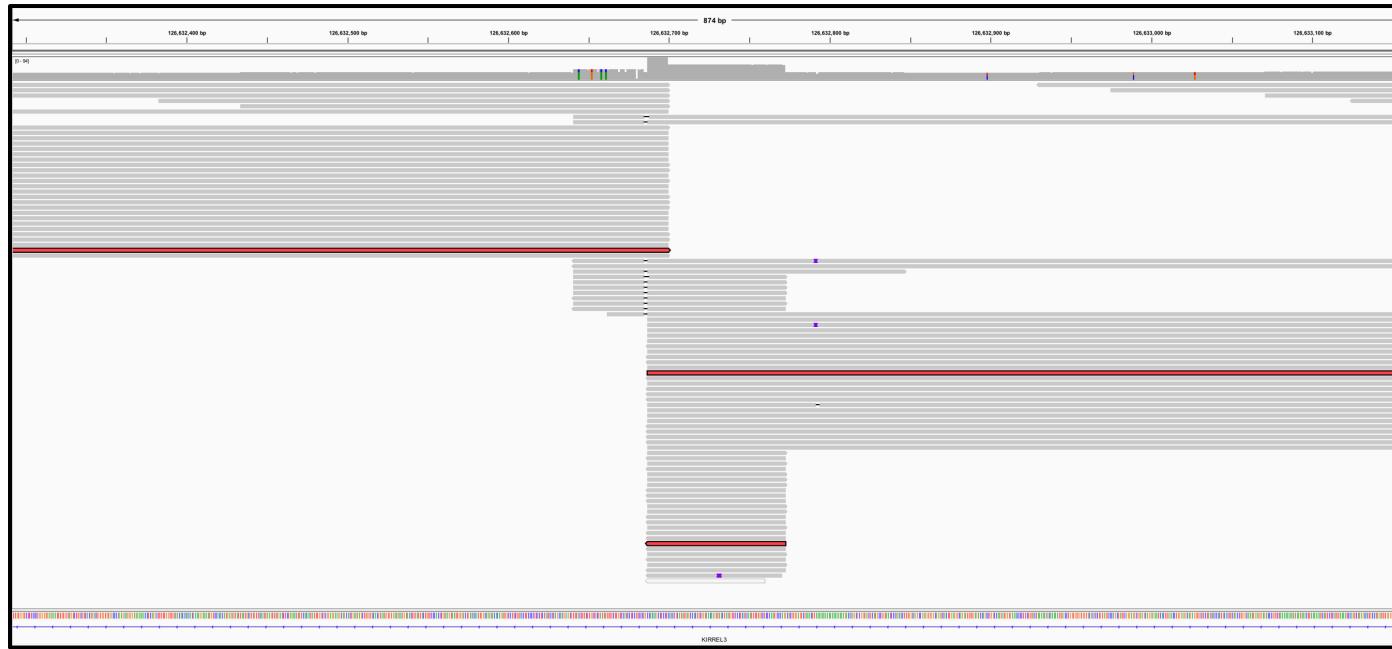
GraphID-55



Nodes=S:2,I:3,D:1

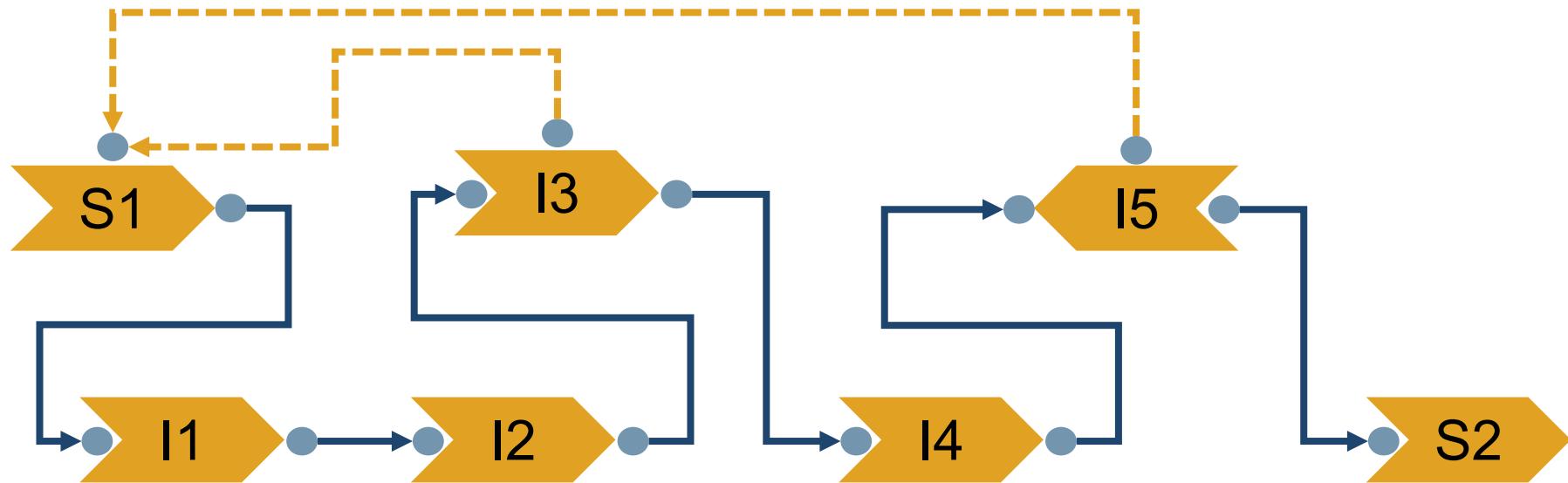
Supplementary File 2

❖ chr11-126632686-126632772



Supplementary File 2

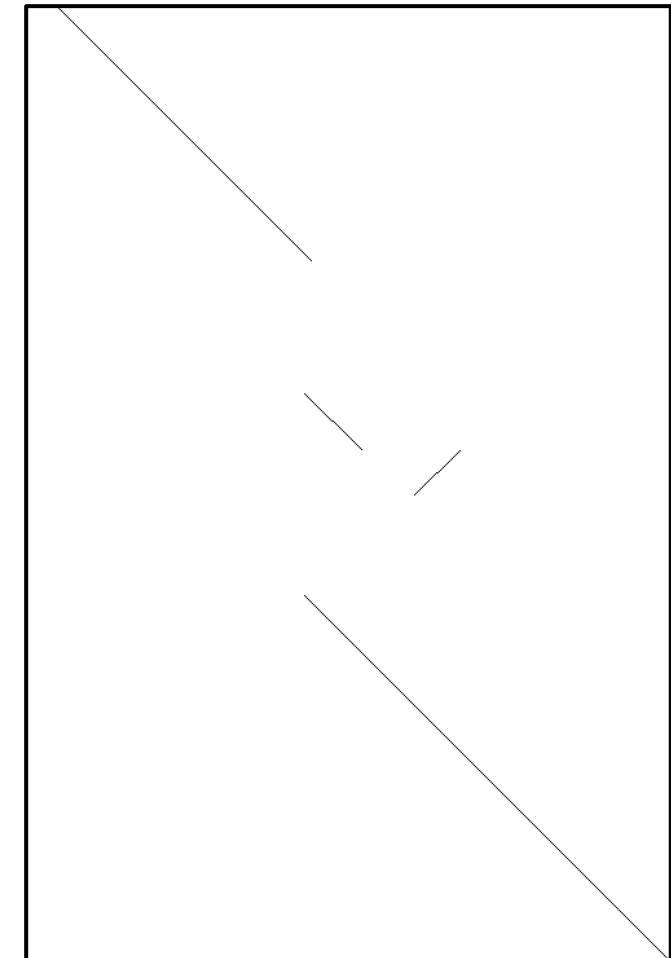
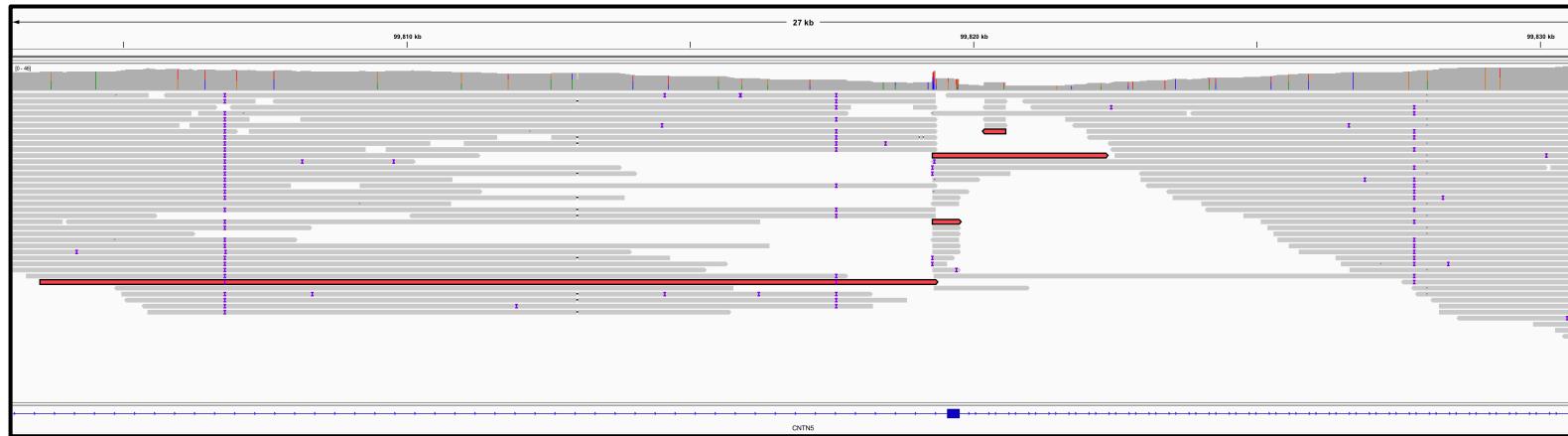
GraphID-54



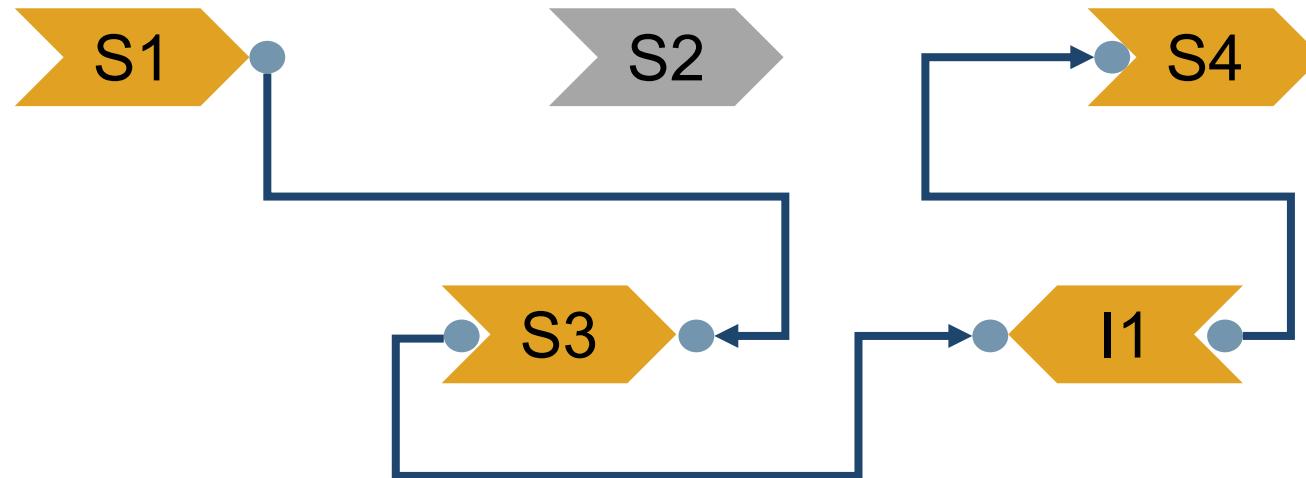
Nodes=S:2,I:5,D:2

Supplementary File 2

❖ chr11-99819283-99820576



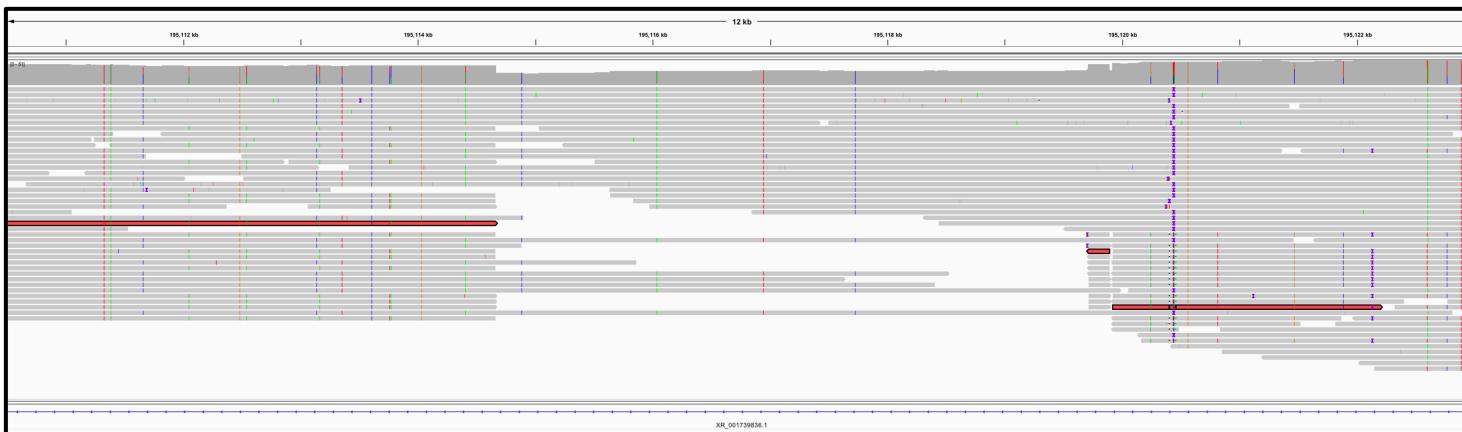
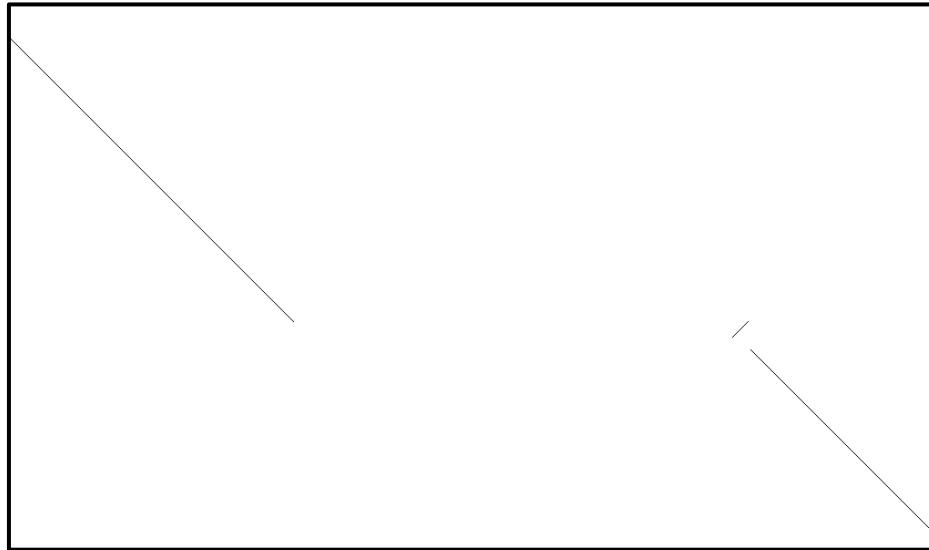
GraphID-26



Nodes=S:4,I:1

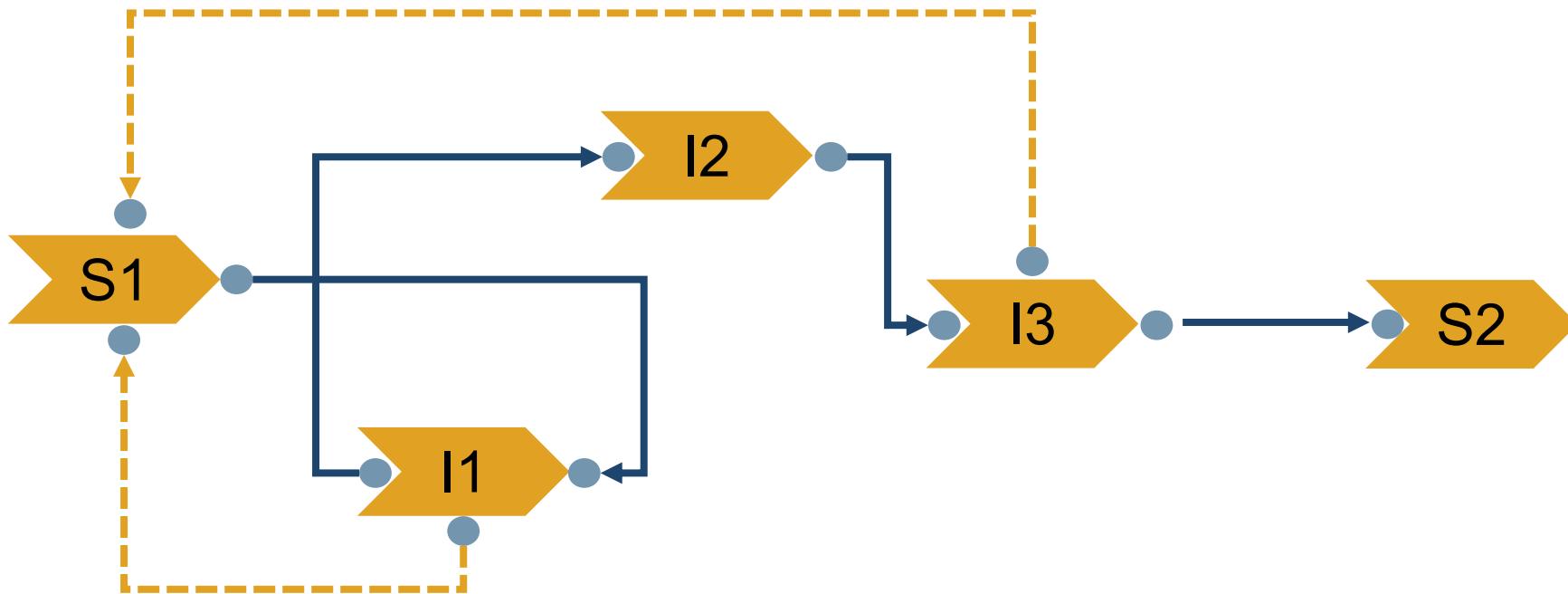
Supplementary File 2

❖ chr2-195114663-195119917



Supplementary File 2

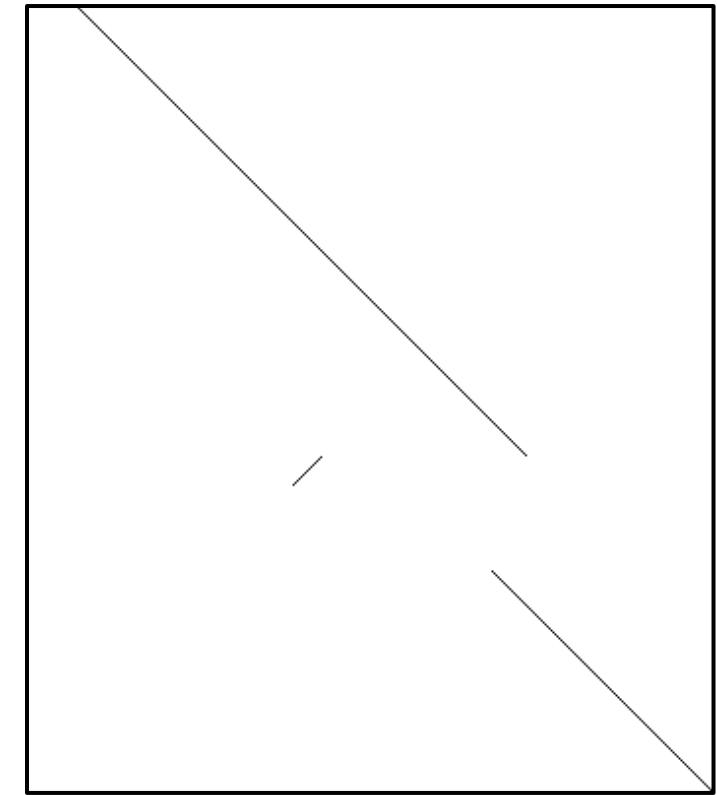
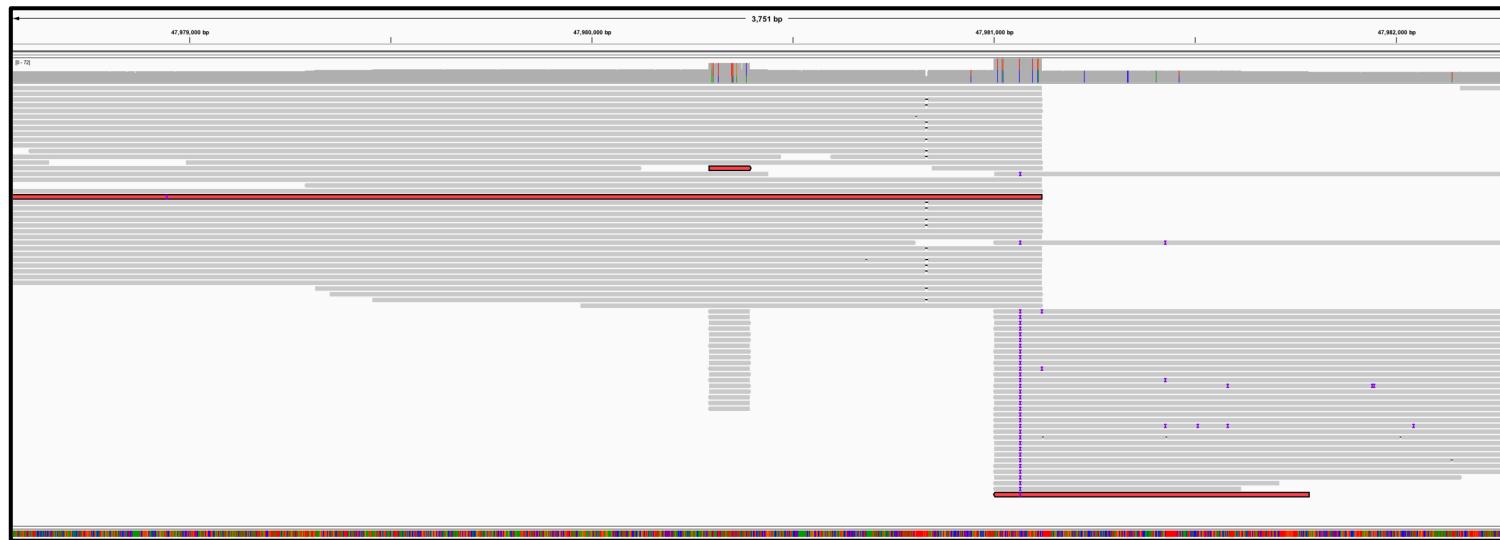
GraphID-35



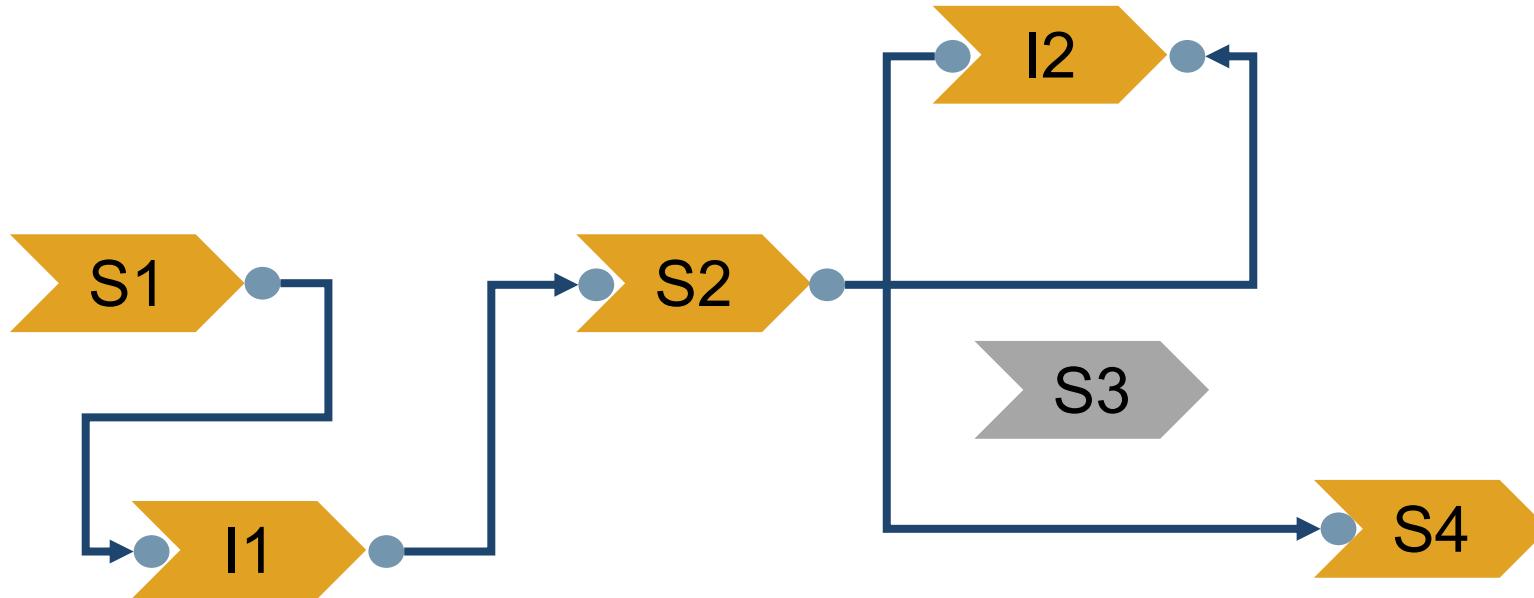
Nodes=S:2,I:3,D:2

Supplementary File 2

❖ chr8-47980291-47981120



GraphID-51



Nodes=S:4,I:2

Supplementary File 2

❖ chr9-74283222-74283473

