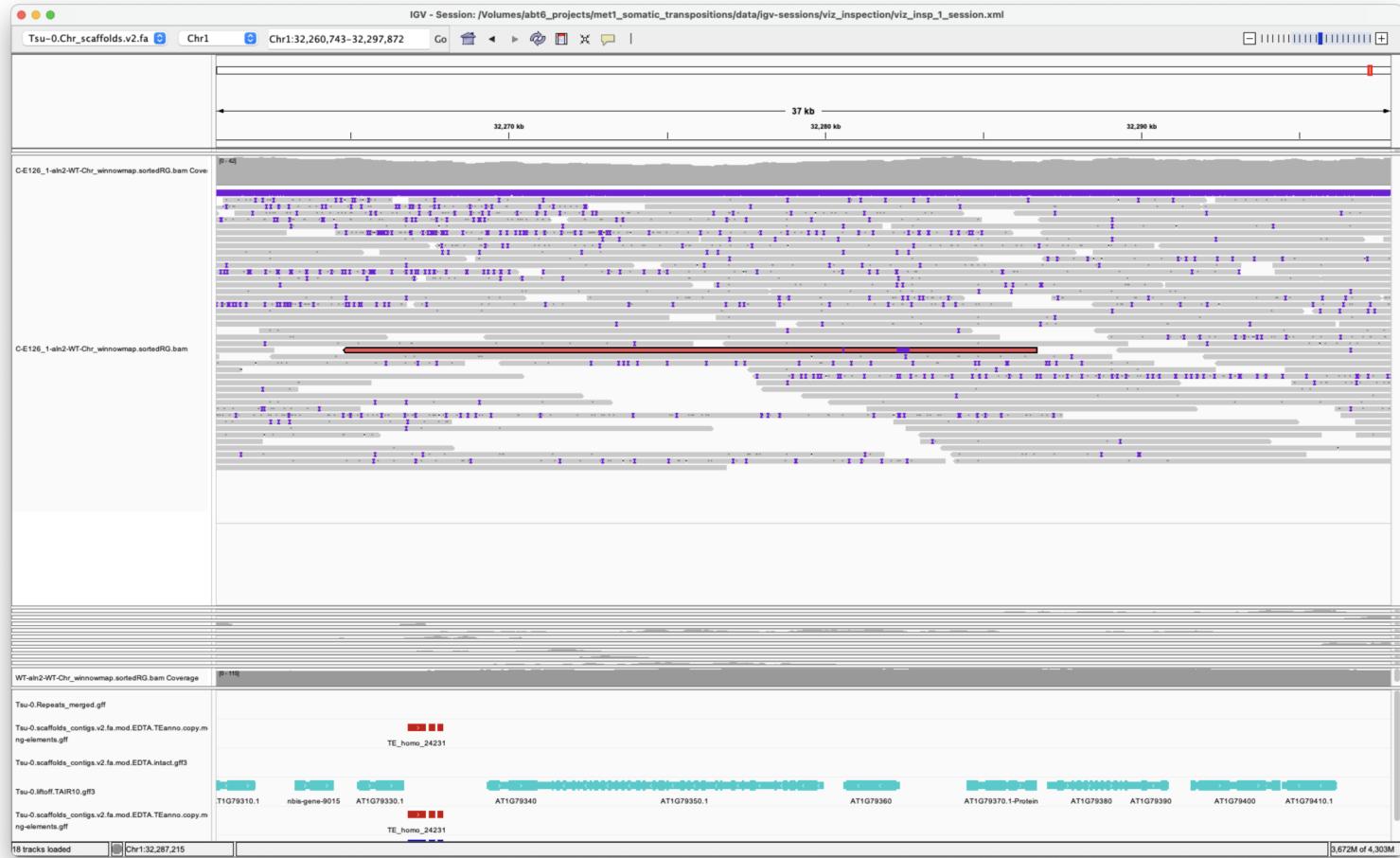


# CIGAR\_Insertions

## Merged elements

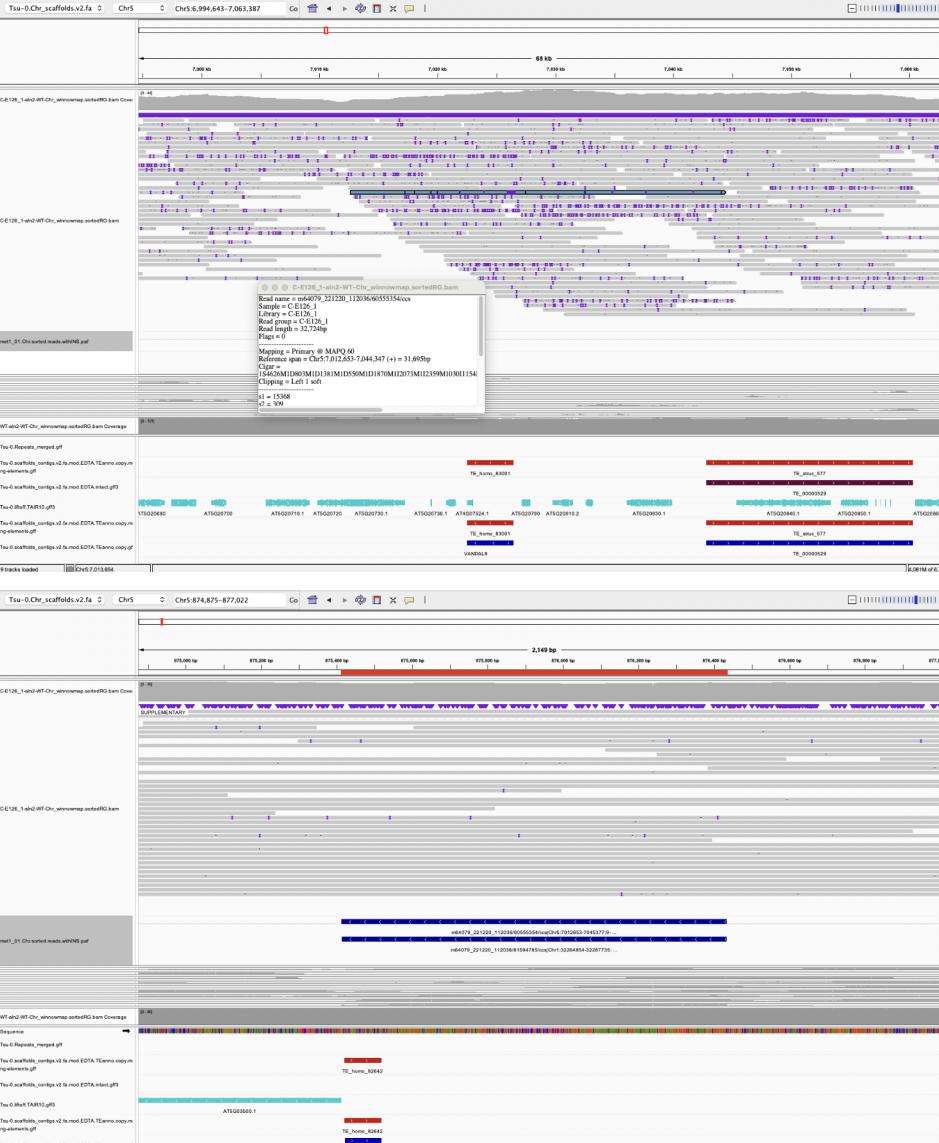
### met1\_01

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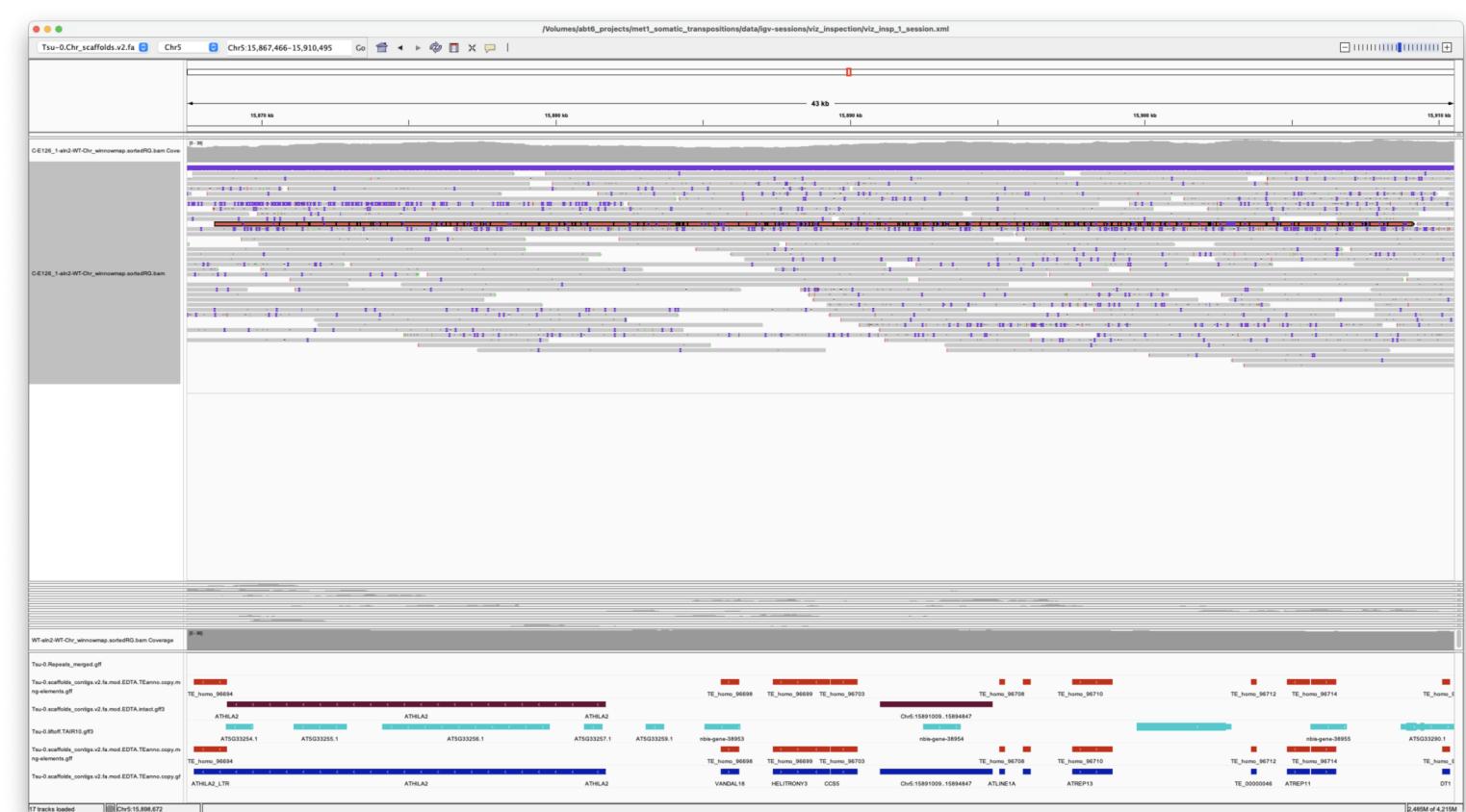


Confirmed

Chr5 7026319 7026319 m64079\_221220\_112036/60555354/ccs Chr5 875413 876434  
Chr5|875413|876434|ID=TE\_MANUAL\_02;Name=PAC;classification=DNA/DTC;sequence\_ontology=MANUAL;identity=MANUAL;method=MANUAL;ID=TE\_MANUAL\_02;sequence\_ontology=MANUAL met1\_01



### Confirmed



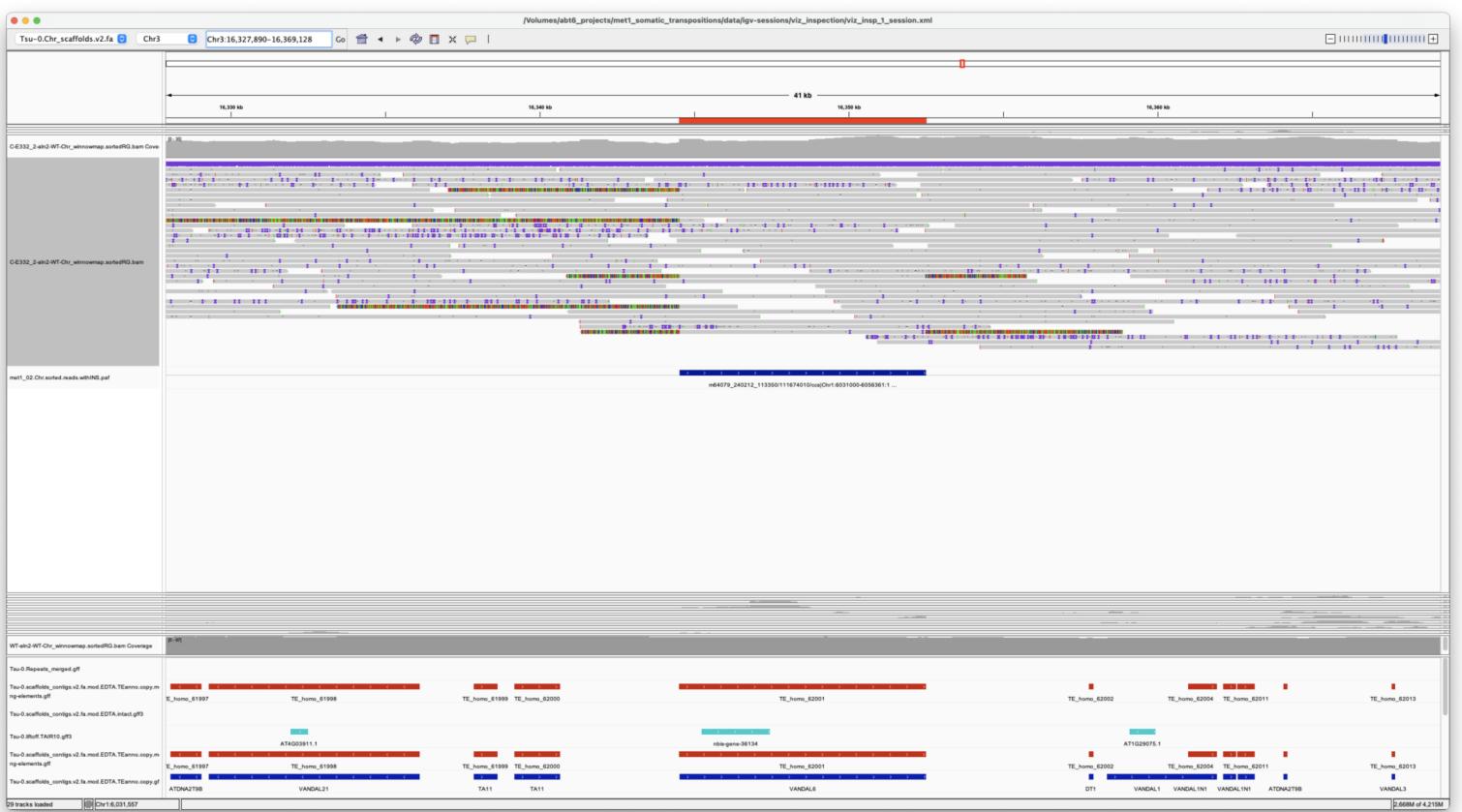
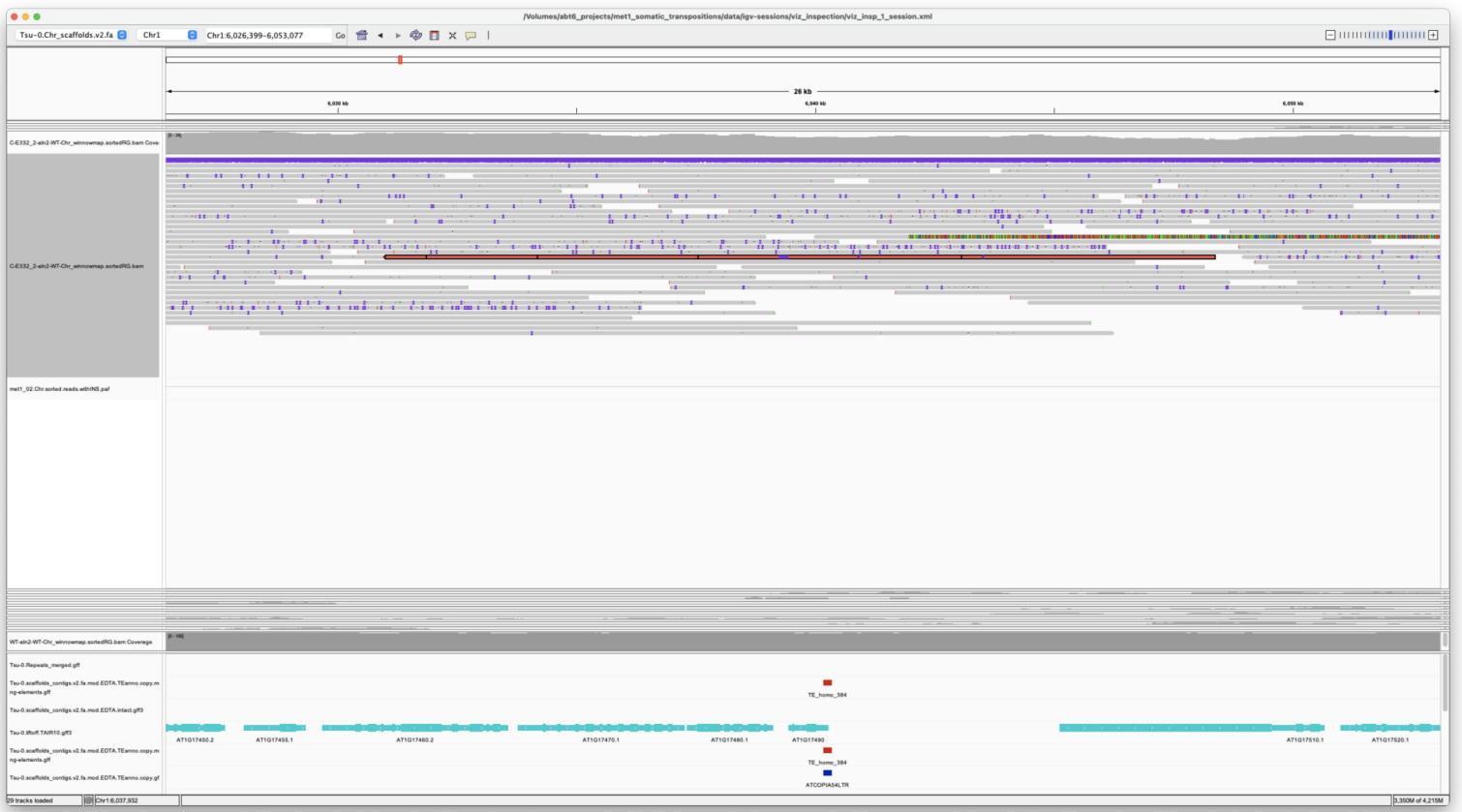


VANDAL21 insertion

Confirmed

## met1\_02

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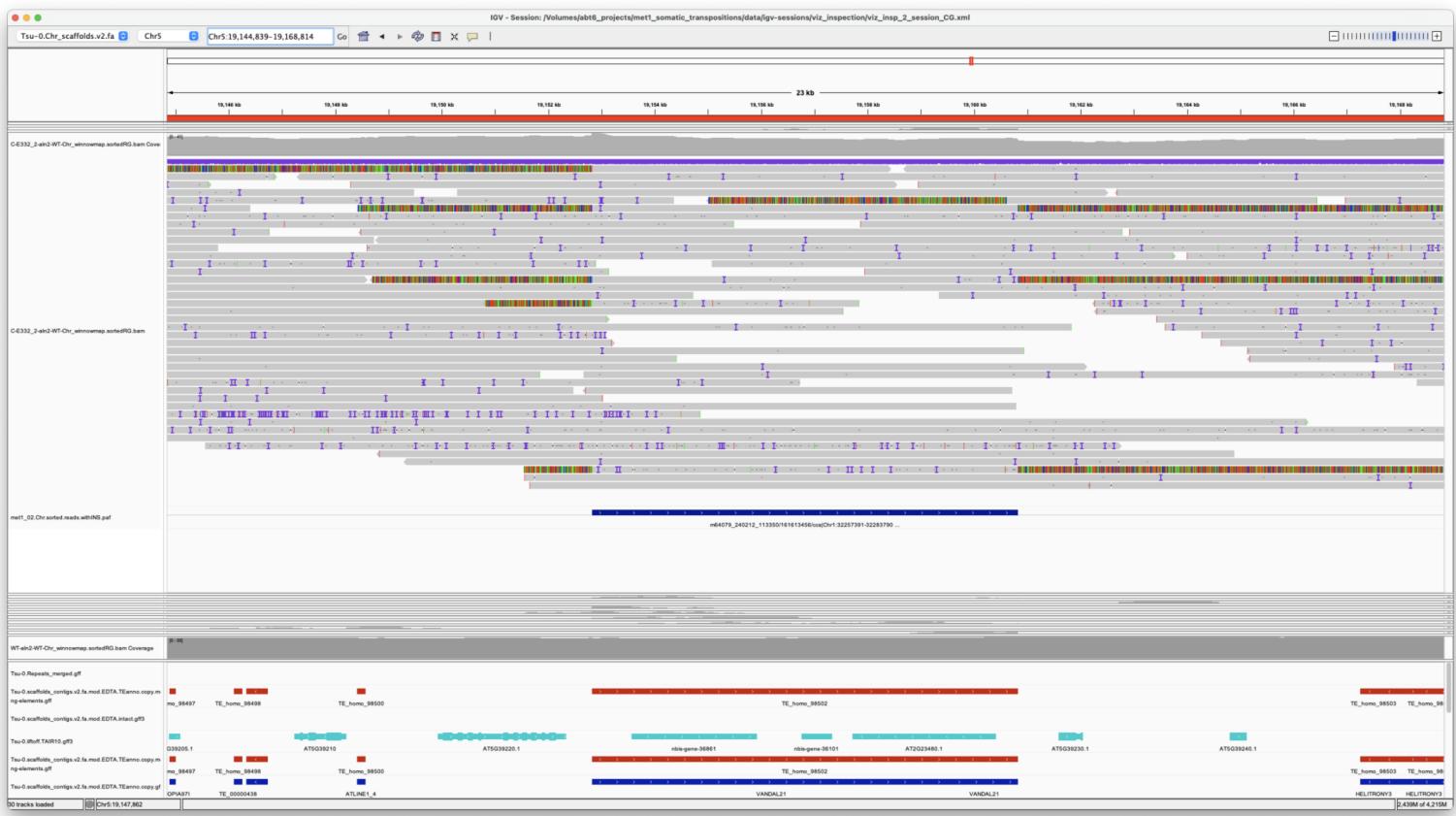
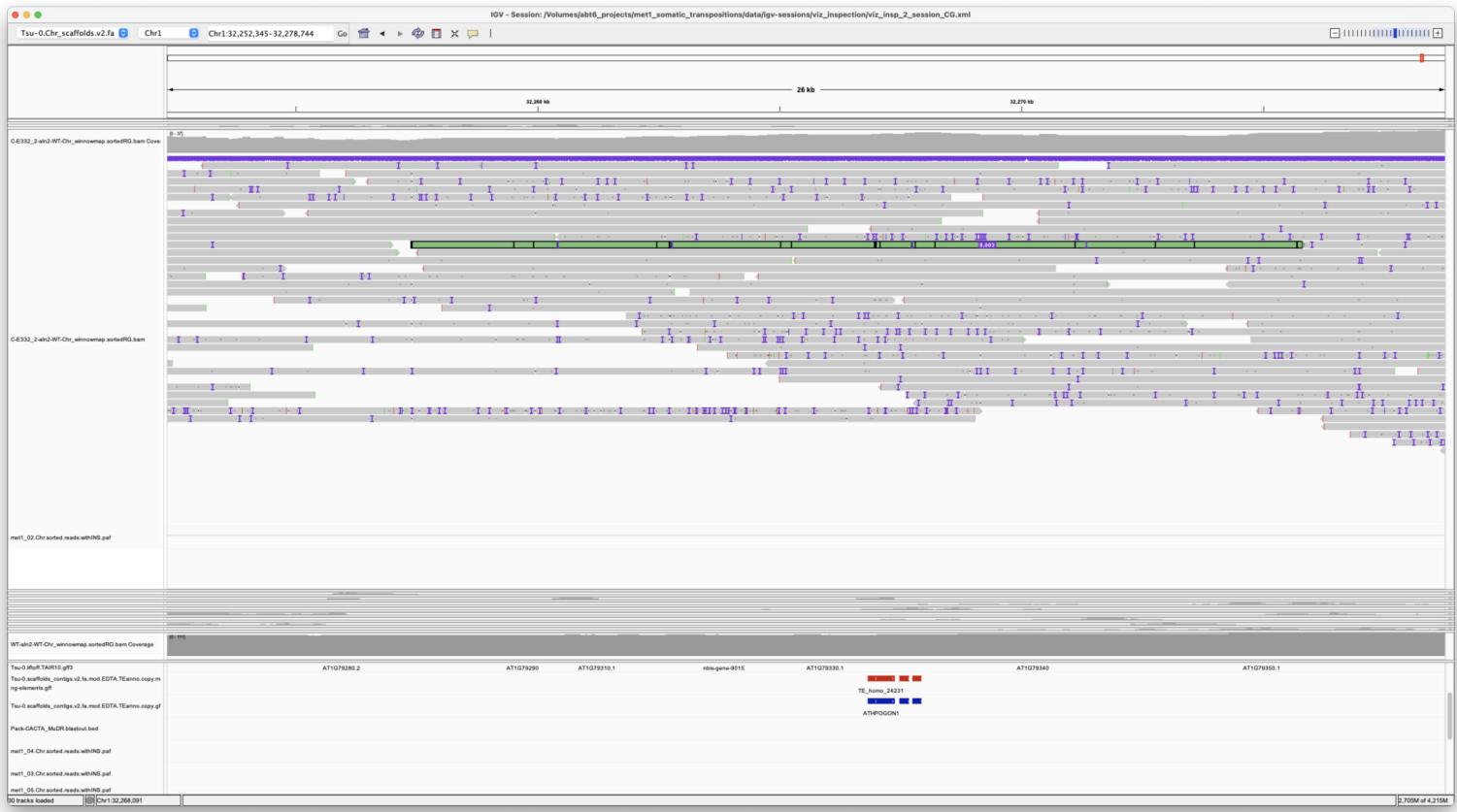
Confirmed

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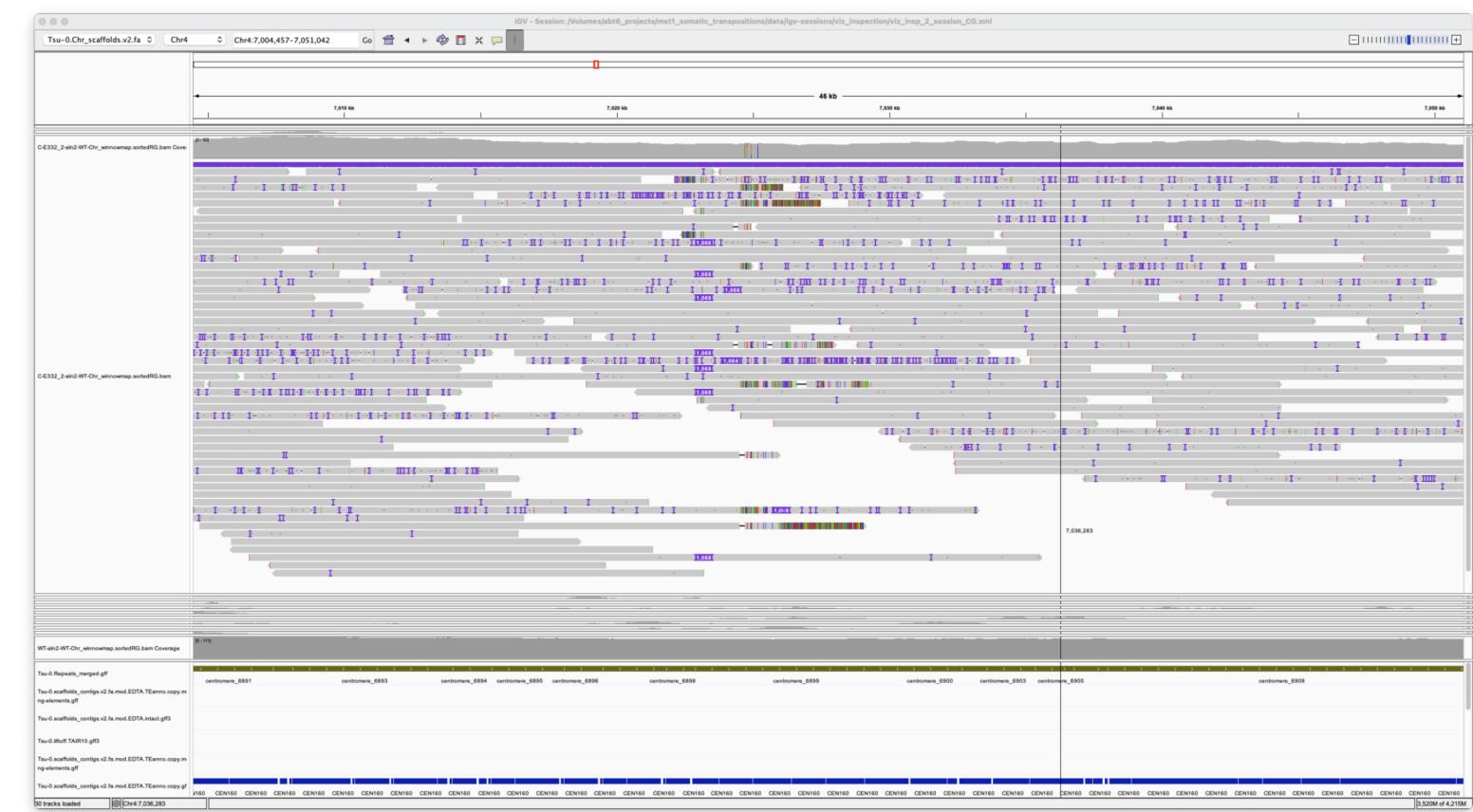
Confirmed

Chr1 32269307 32269307 m64079\_240212\_113350/161613456/ccs Chr5 19152823 19160826  
 Chr5|19152829|19160825||ID=TE\_homo\_95640;Name=VANDAL21;classification=DNA/Mutator;sequence\_ontology=SO:0002280;identity=0.976;method=homology;ID=TE\_homo\_98501;sequence\_ontology=SO:0002280||ID=TE\_homo\_95641;Name=VANDAL21;classification=DNA/Mutator;sequence\_ontology=SO:0002280;identity=0.966;method=homology;ID=TE\_homo\_98502;sequence\_ontology=SO:0002280 met1\_02



Confirmed

Chr4 7023215 7023217  
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 Chr4 7024209 7024209 m64079\_221220\_112036/47776303/ccs Chr4 7023140 7024207 .-1|-2|. met1\_02  
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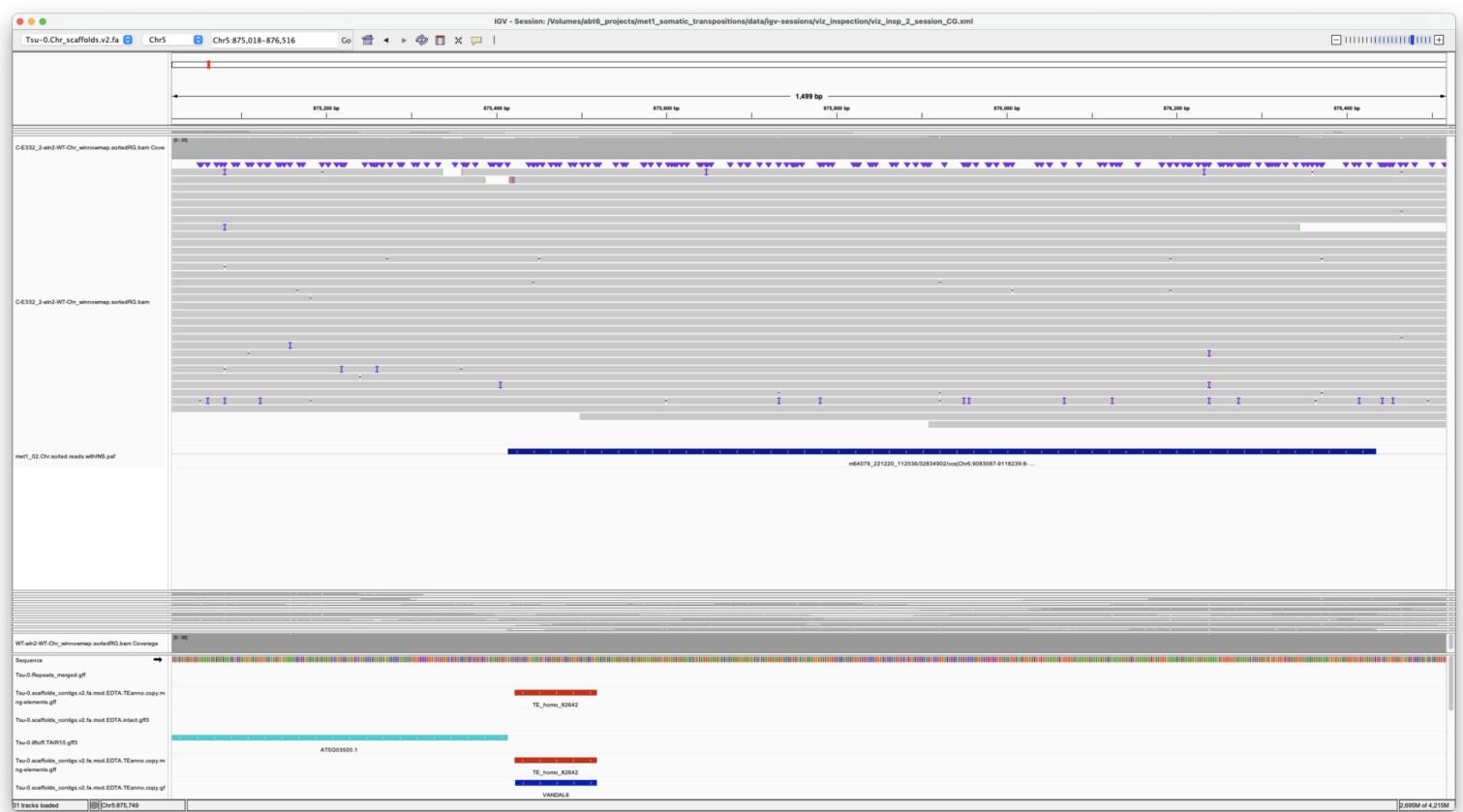
## Centromeric rearrangements

### *unsupported*

### Rearrangement

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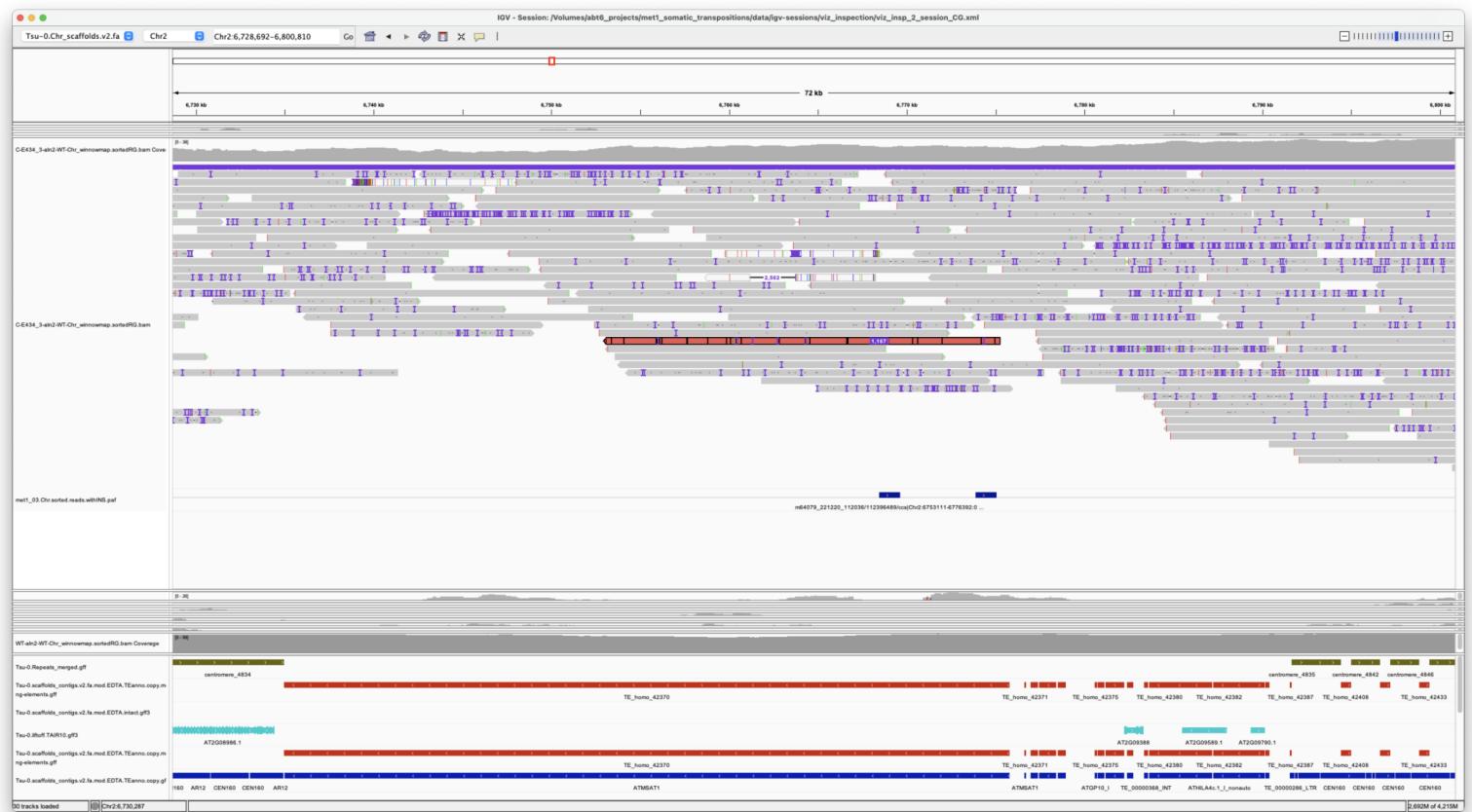




*Confirmed*

met1 03

Chr2 6768455 6768455 m64079\_221220\_112036/112396498/ccc Chr2 6768454 6769622  
Chr2[6734994|6775797]ID=TE\_homo\_41523;Name=ATMSAT1;classification=Satellite/Satellite;sequence\_ontology=SO:0000005;identity=0.934;method=homology;ID=TE\_homo\_42370;sequence\_ontology=SO:0000005 met1\_03



## Satellite rearrangement

*unsupported*

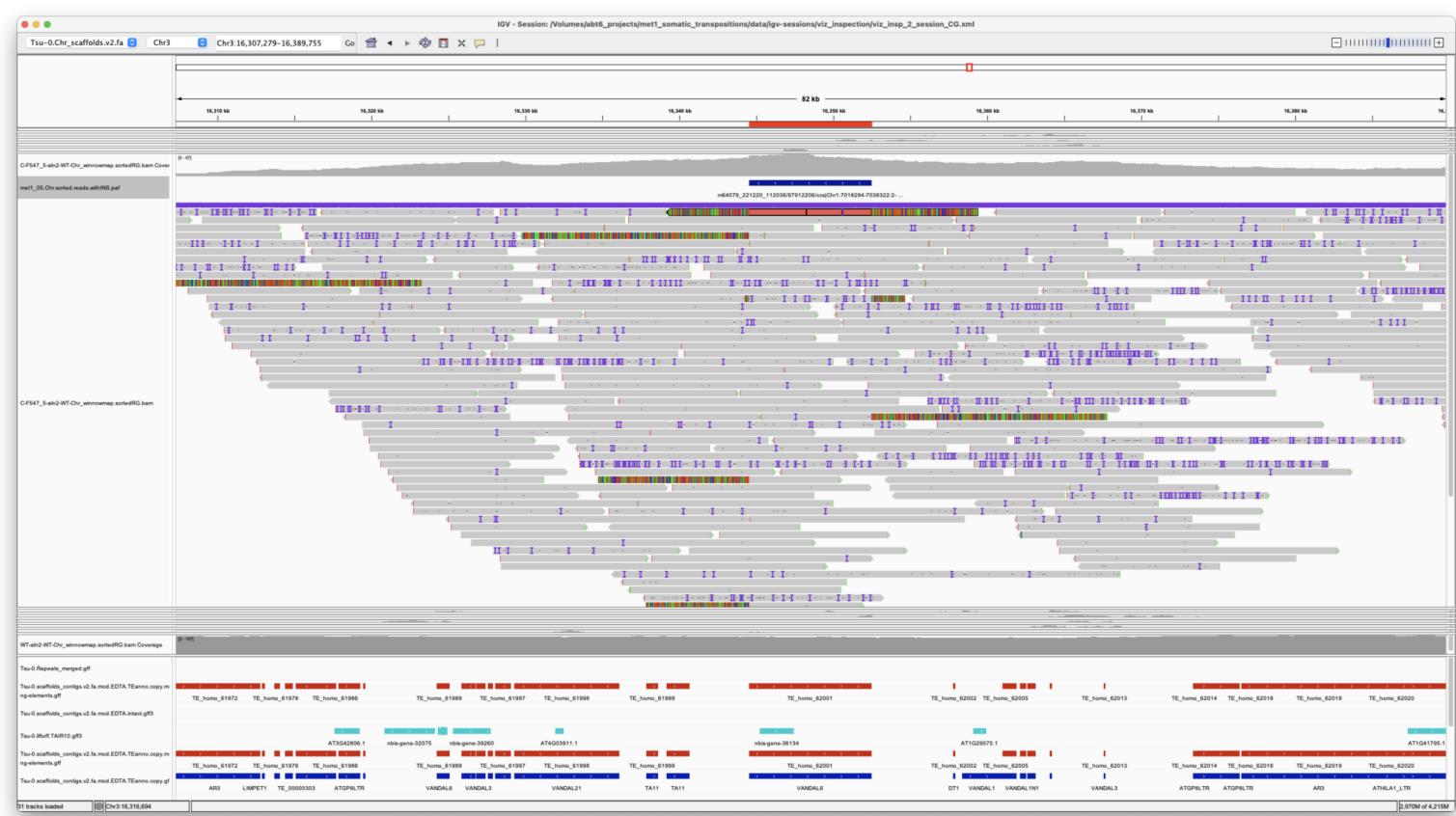
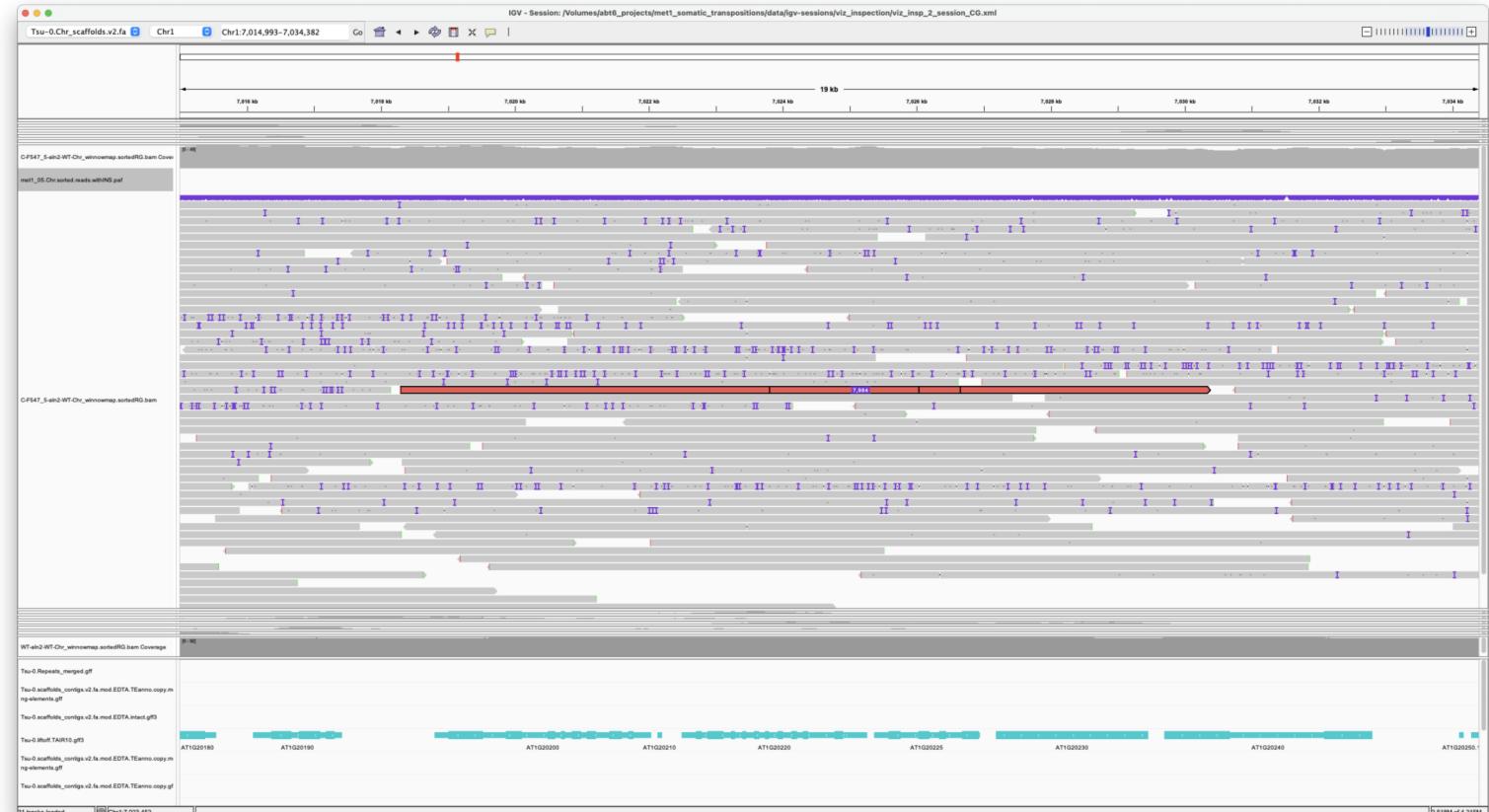
### *Rearrangement*

met1\_04

NONE

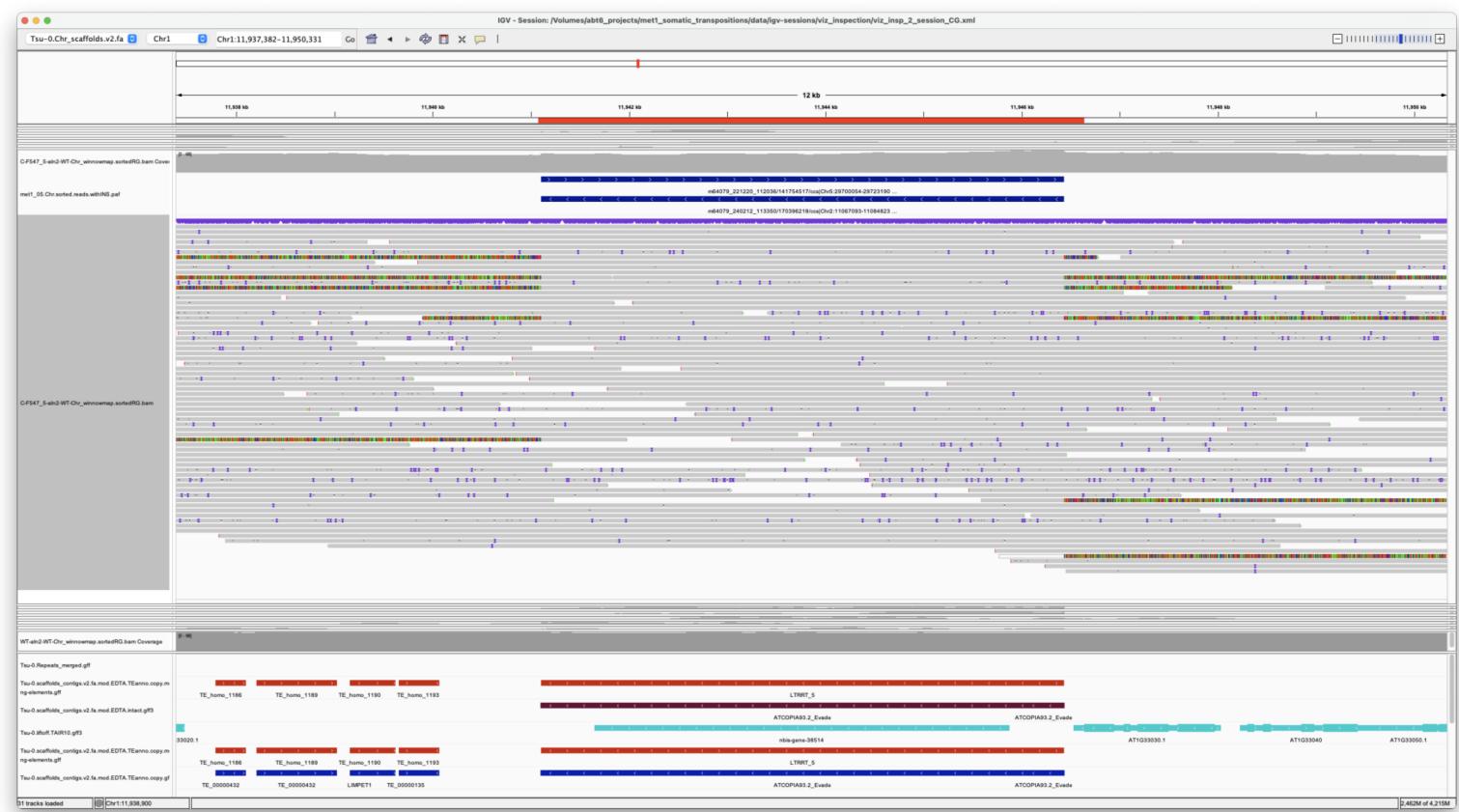
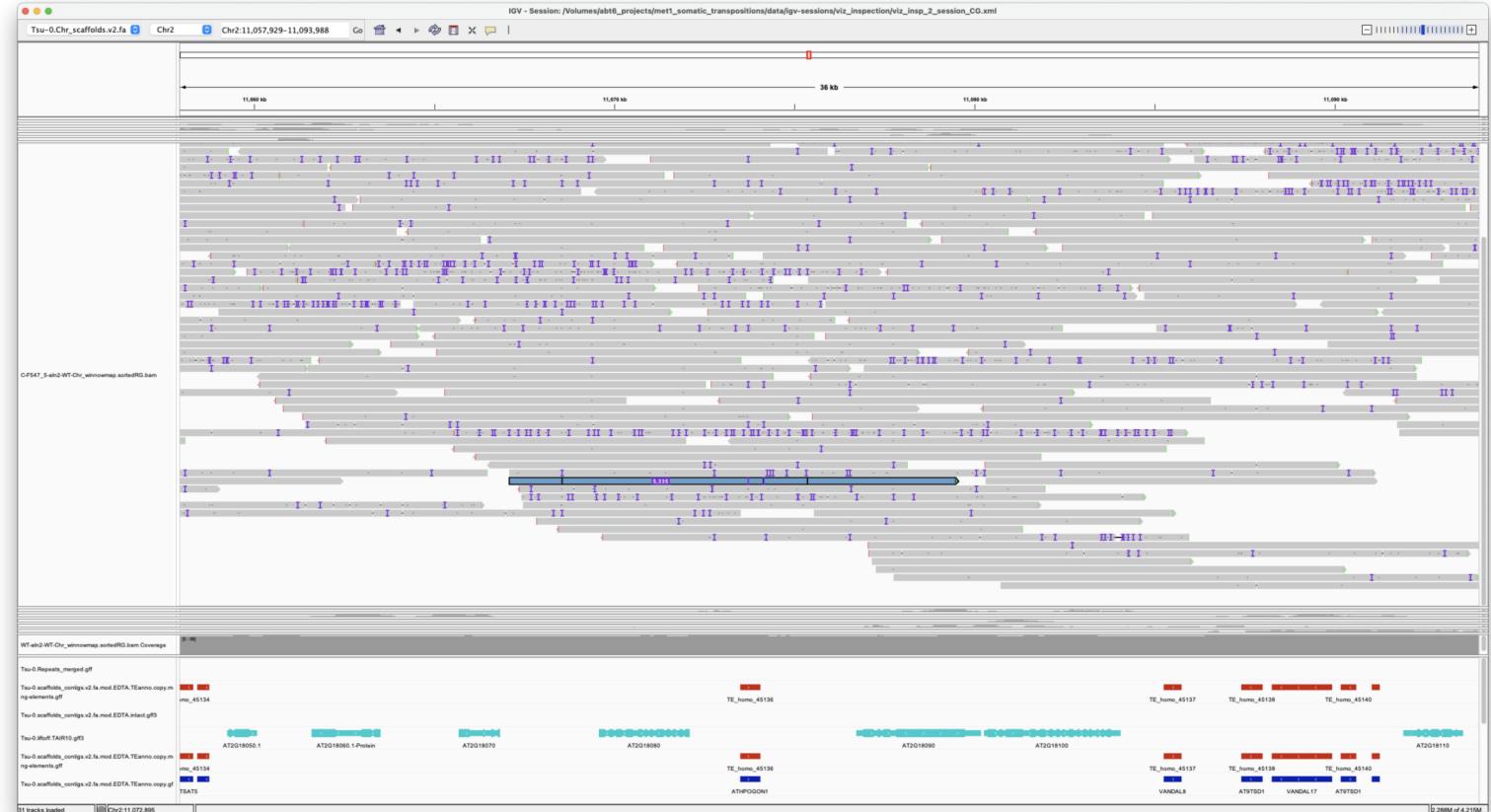
met1\_05

Chr3 7025171 7025171 m64079\_221220\_112036/97912206/ccs Chr3 16344522 16352504  
Chr3|16344522|16352496|ID=TE\_homo\_60420;Name=VANDAL6;classification=DNA/Mutator;sequence\_ontology=SO:0002280;identity=0.969;method=homology;ID=TE\_homo\_62001;sequence\_ontology=SO:0002280 met1\_05



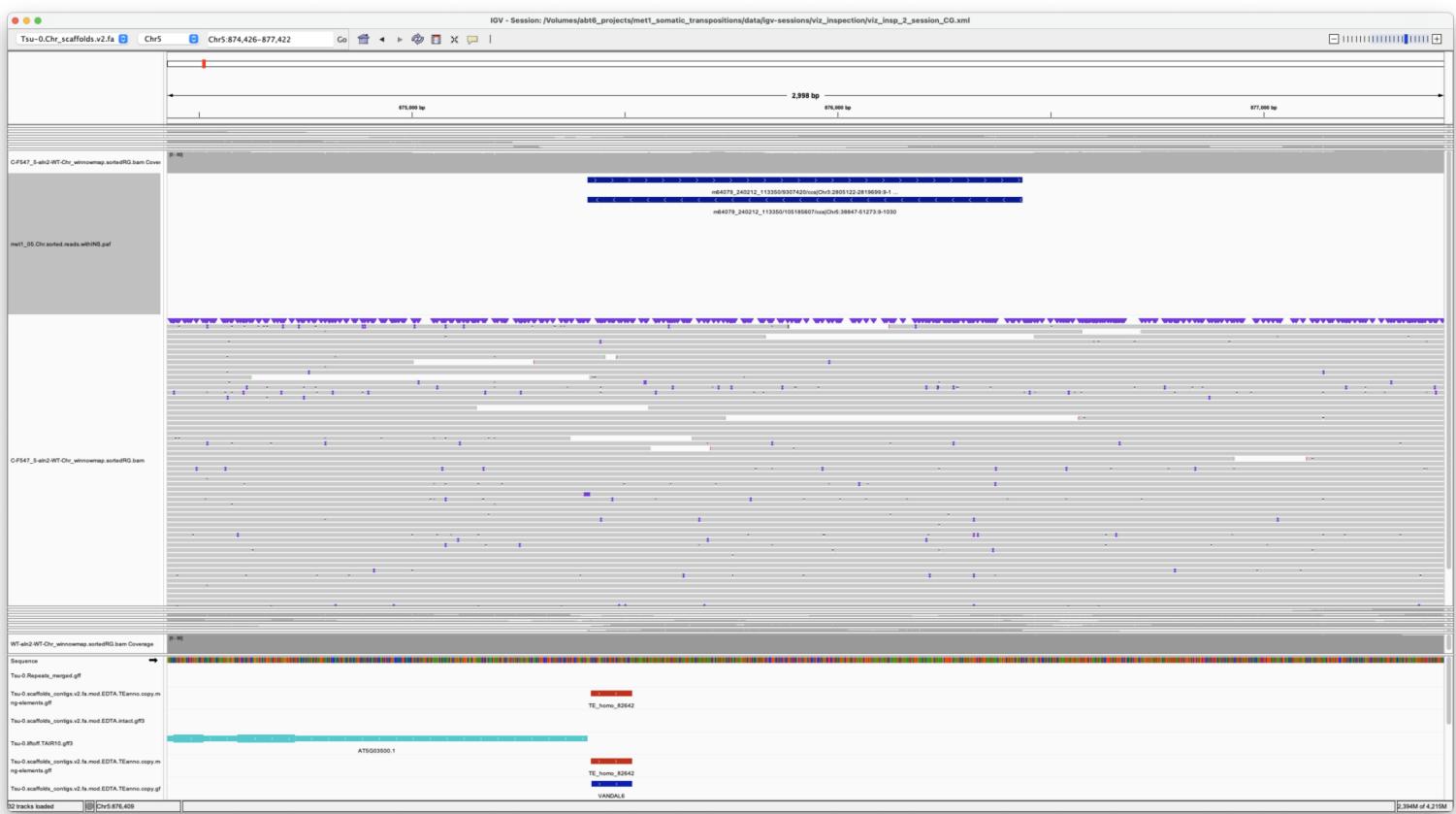
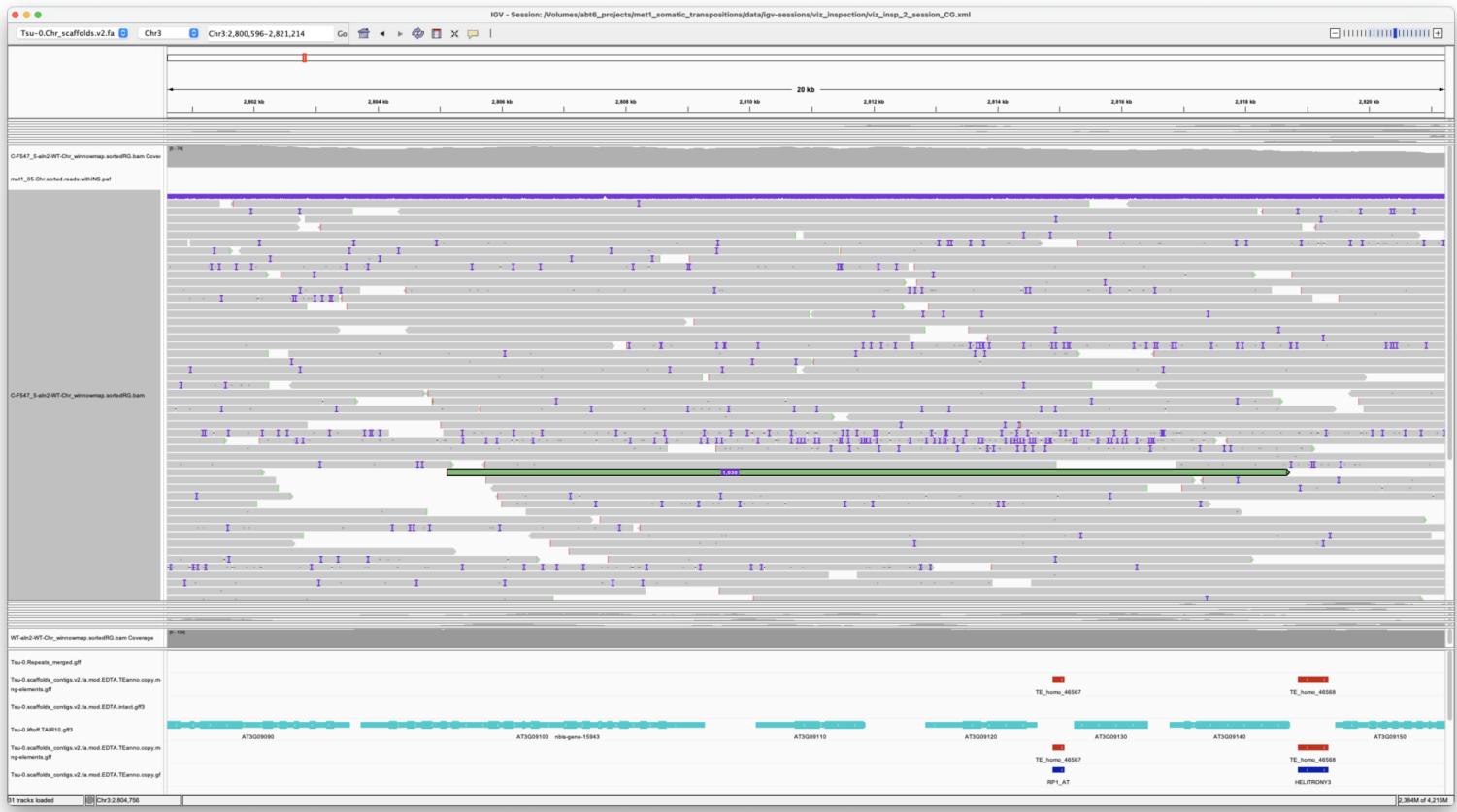
Confirmed

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Chr1|11941106|11946435|ID=LTRRT\_5;Name=ATCOPA93.2\_Evade;Classification=LTR/Copia;Sequence\_ontology=SO:0002264;ltr\_identity=1.0000;Method=structural;motif=TACA;tsd=ATATG met1\_05



Confirmed

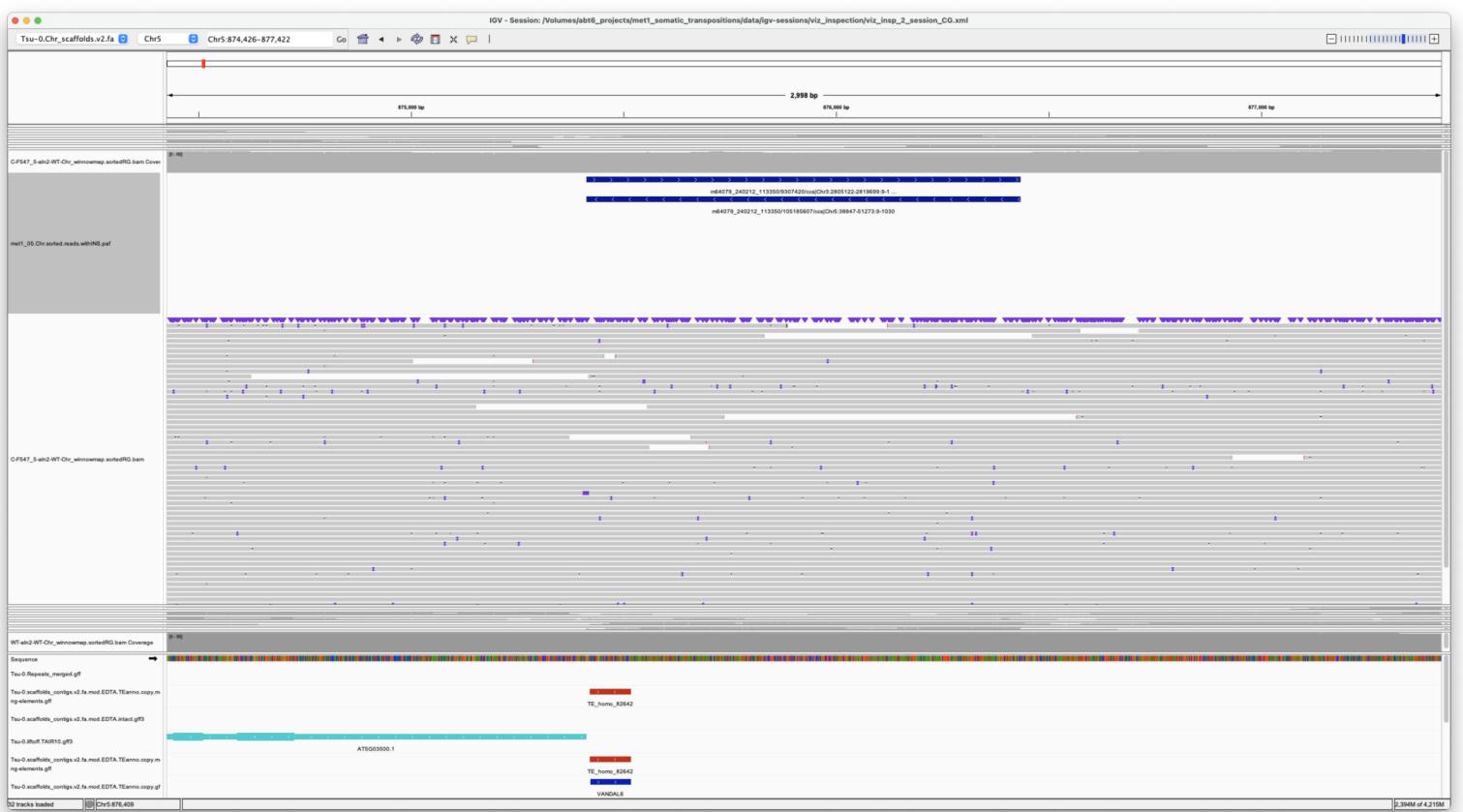
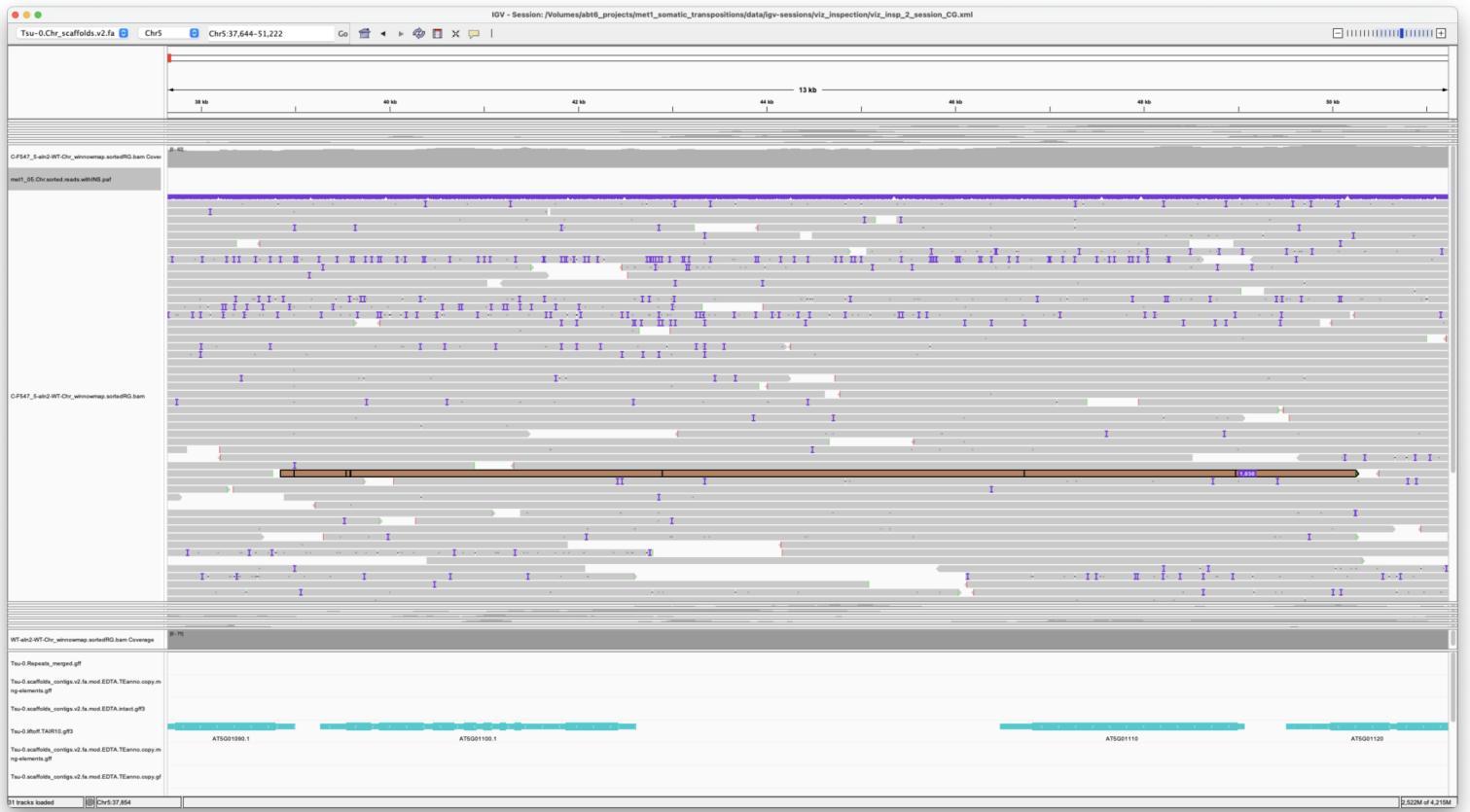
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Pack-Type

Confirmed

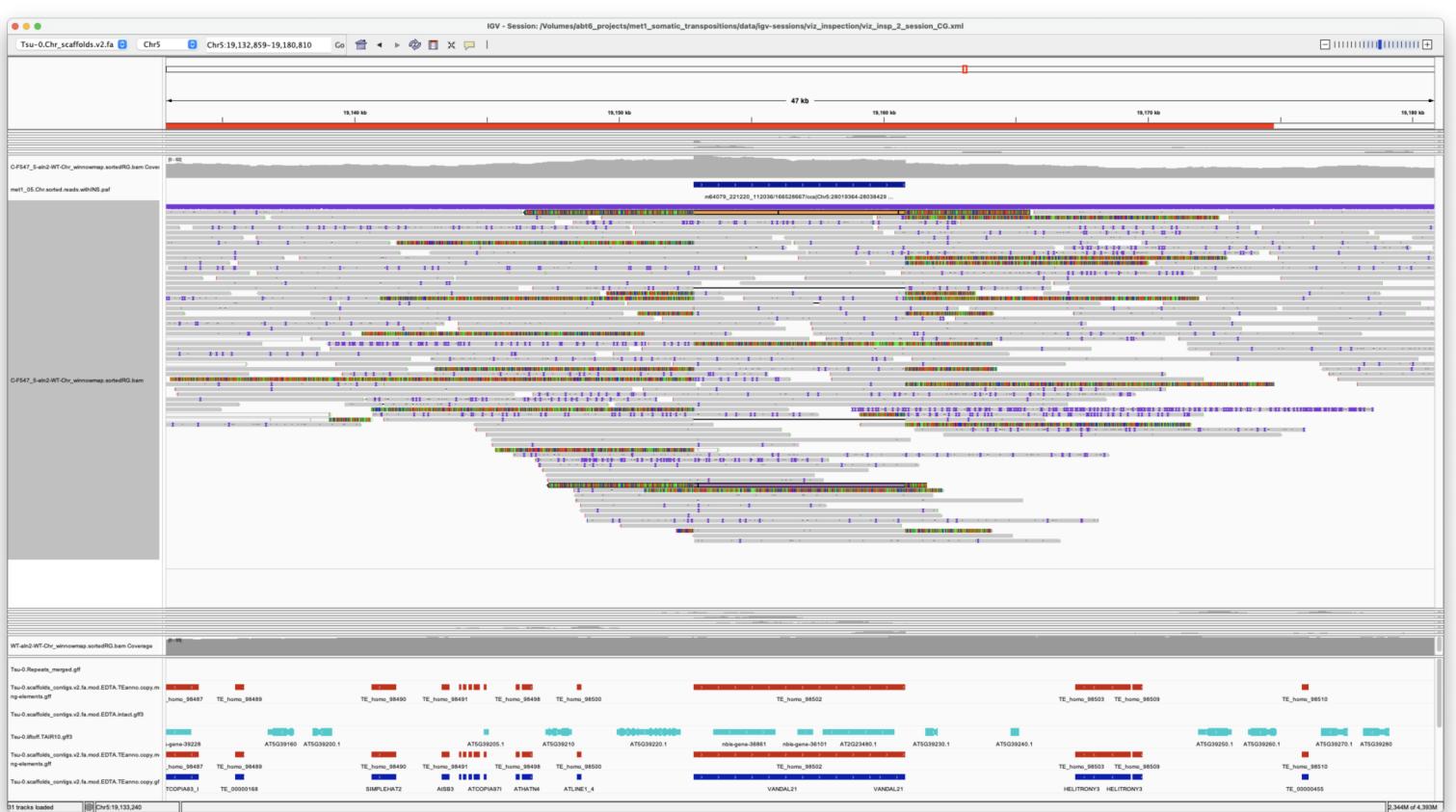
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Pack-Type

Confirmed

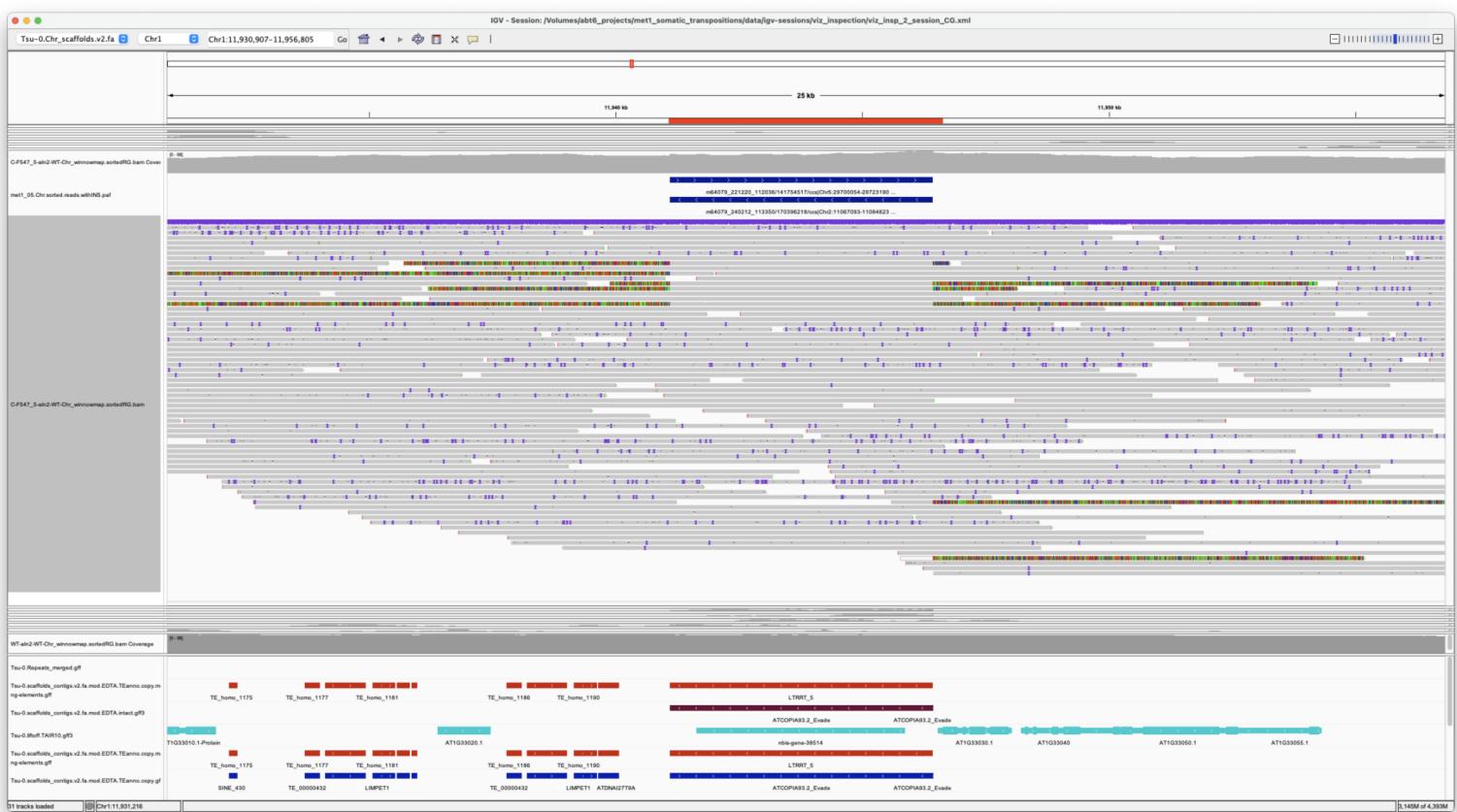
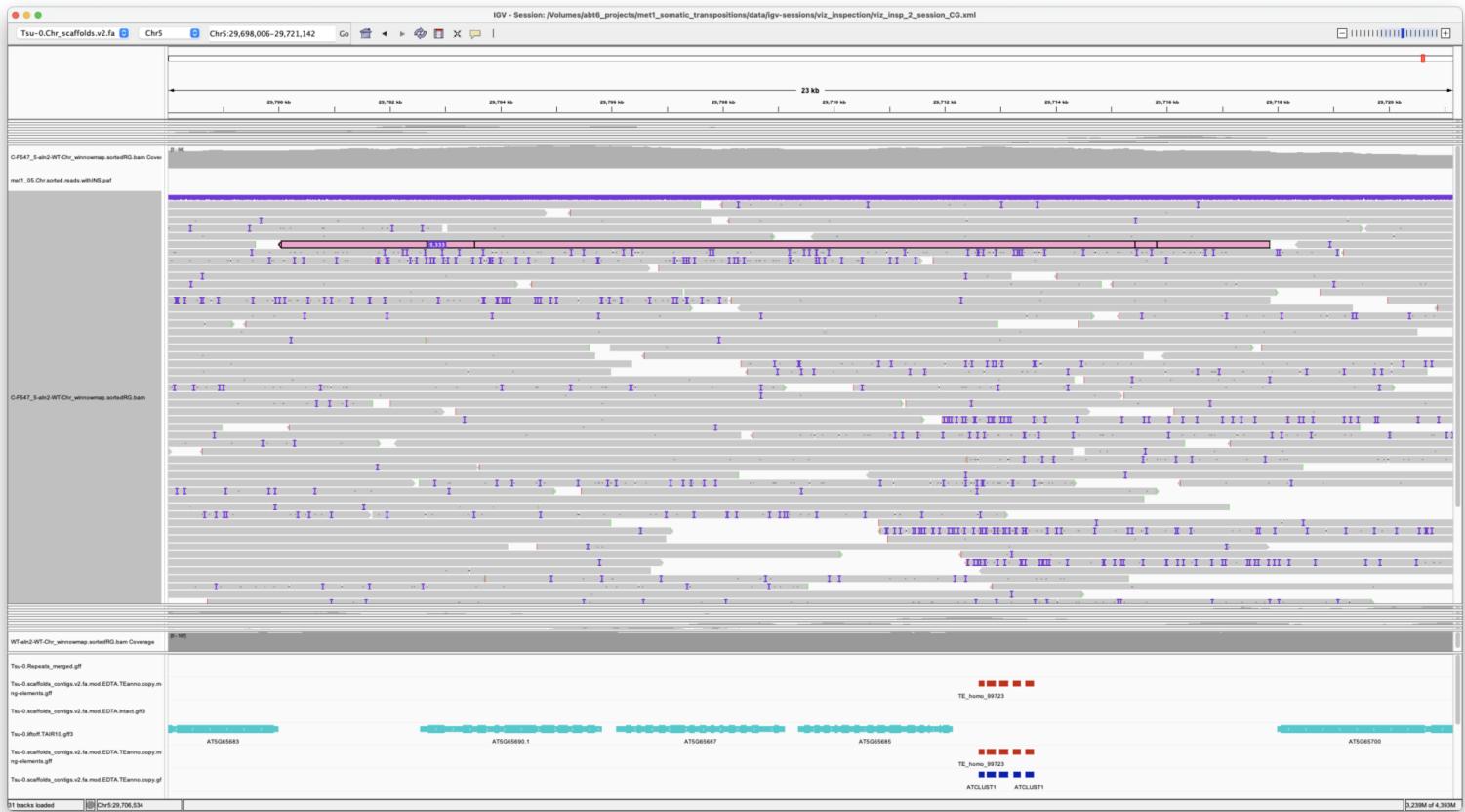
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**2X coverage for insertion**

Confirmed

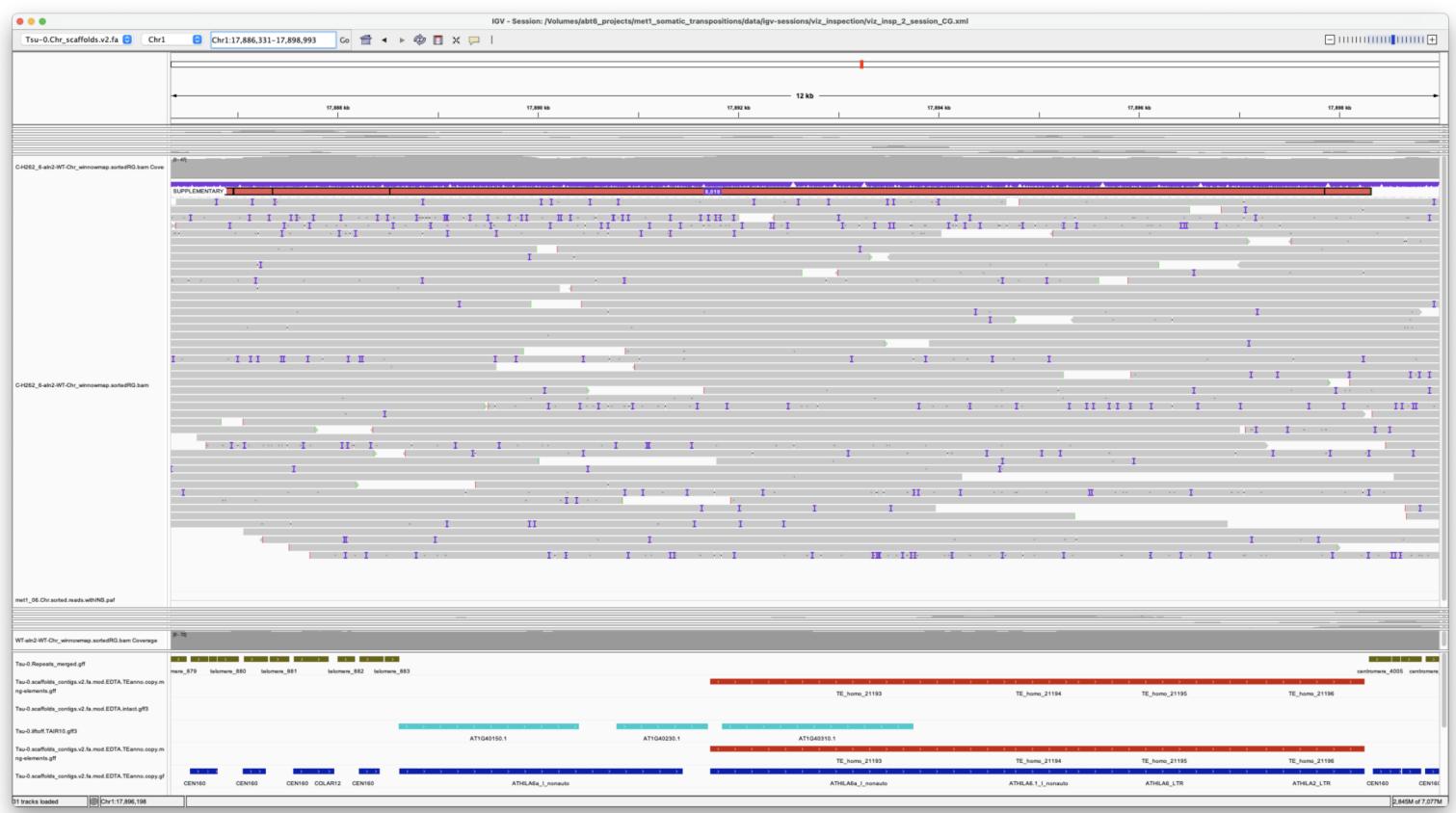
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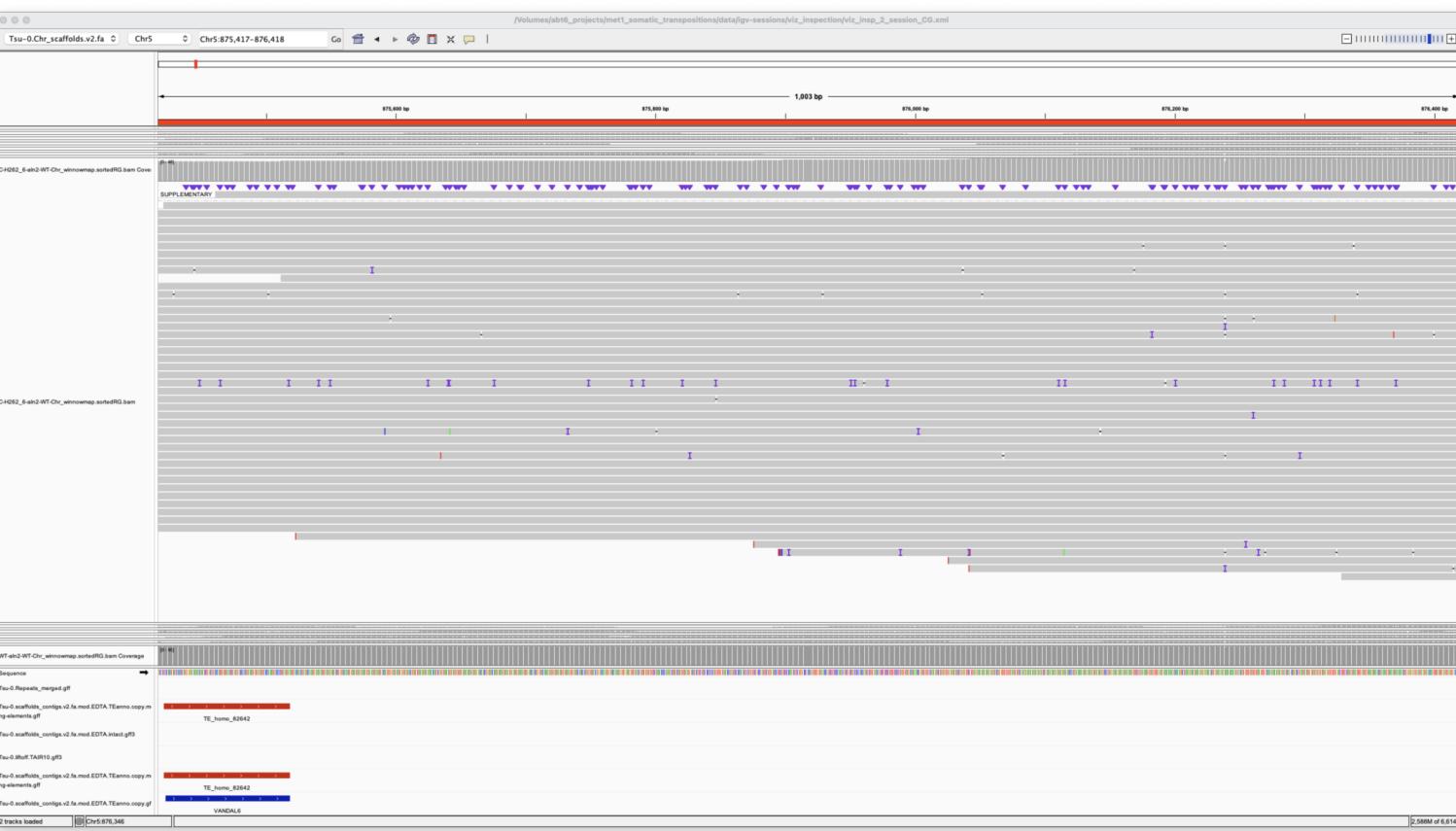
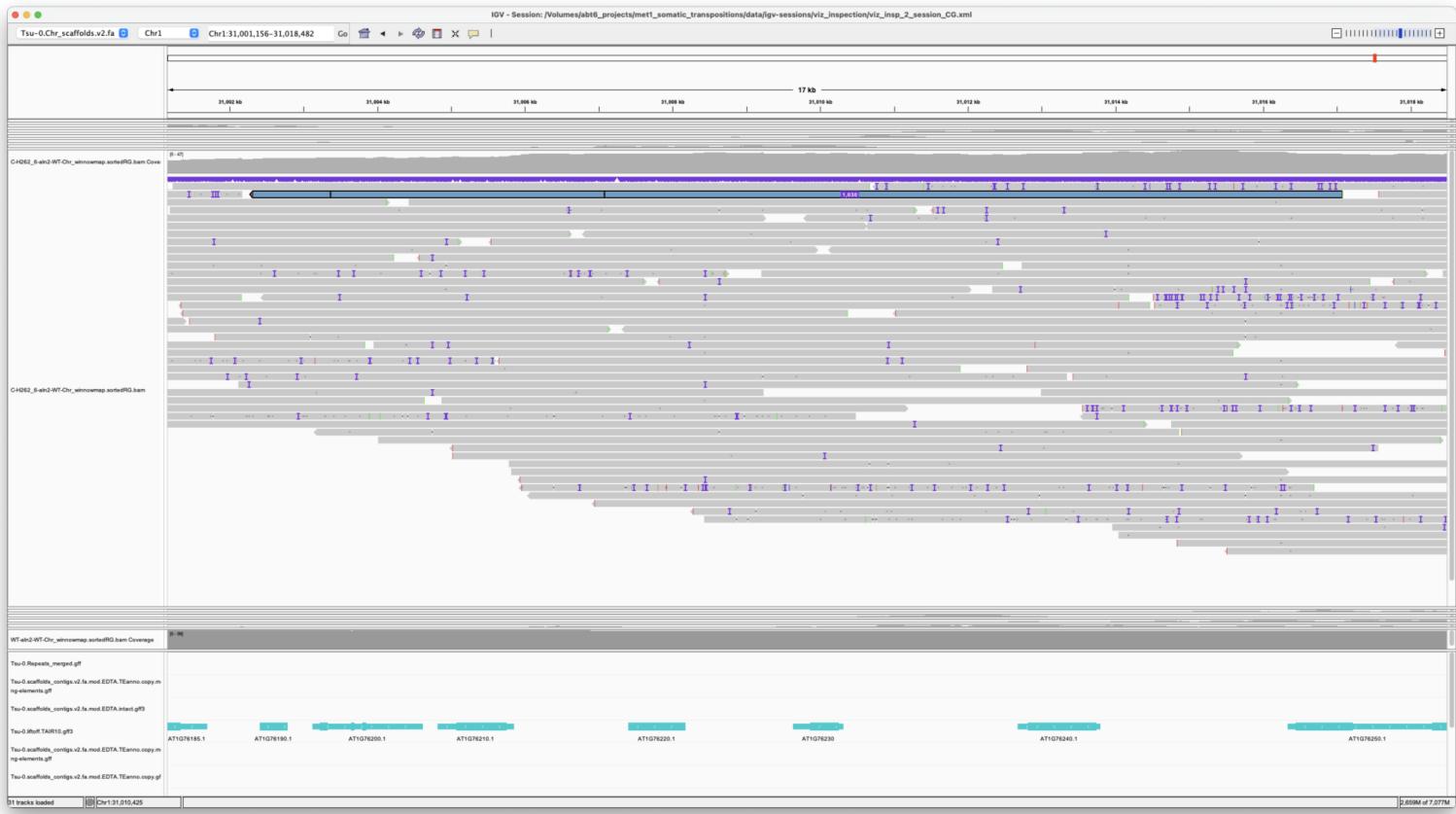
Confirmed

## met1\_06

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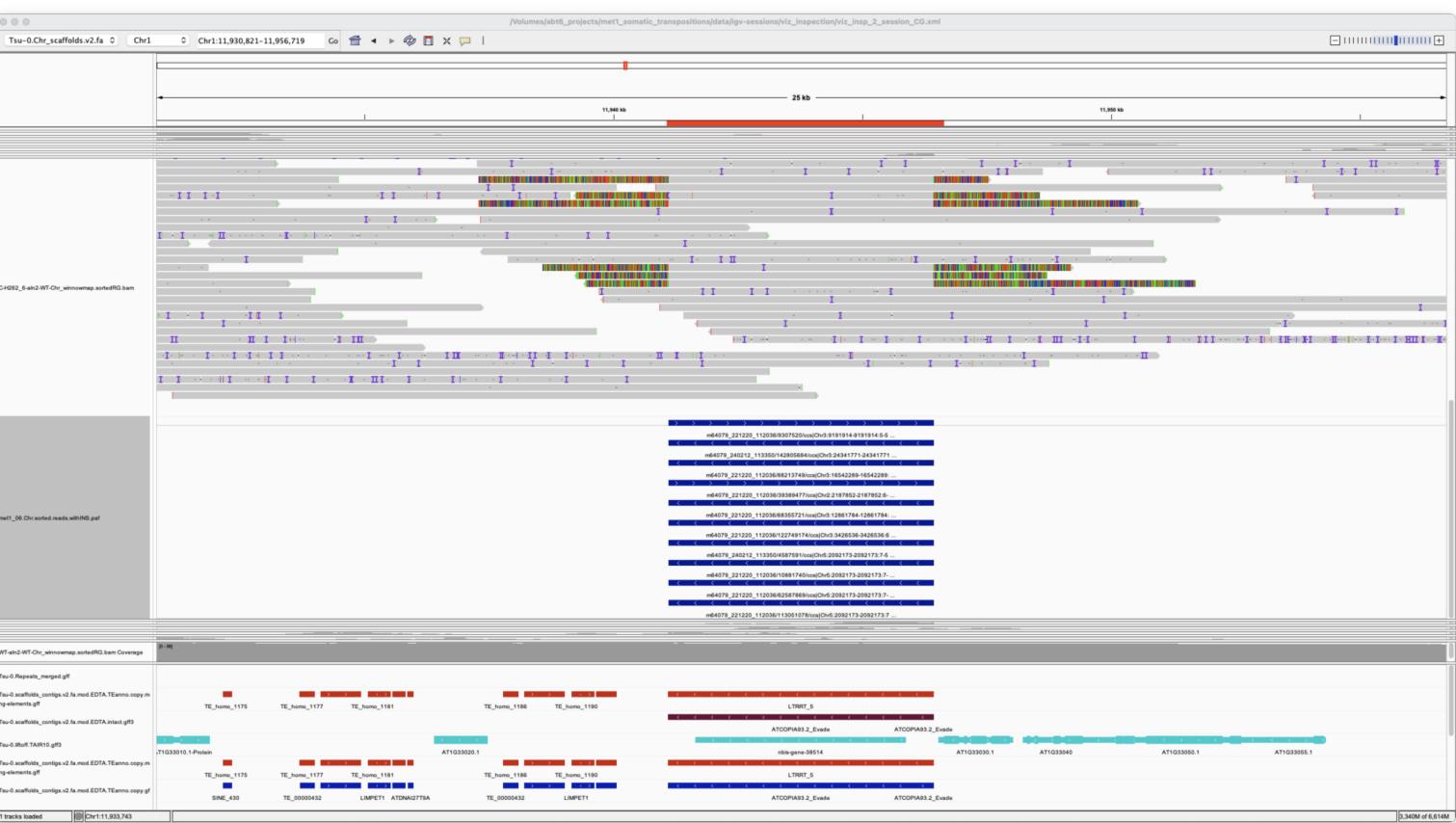
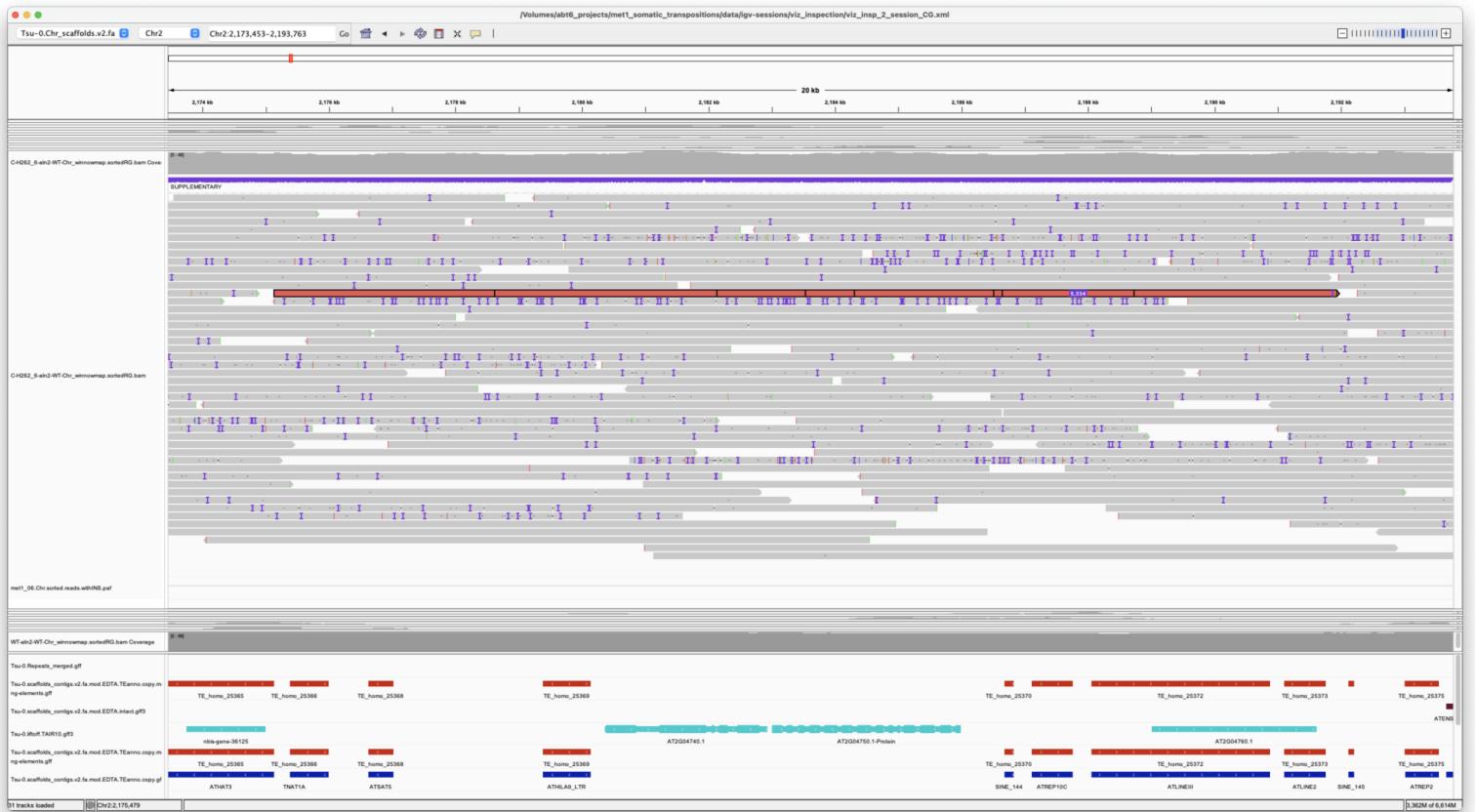


Chr131010416\_31010416\_m64079\_221220\_112036/97584208/ccs Chr5 875412 876434  
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Confirmed

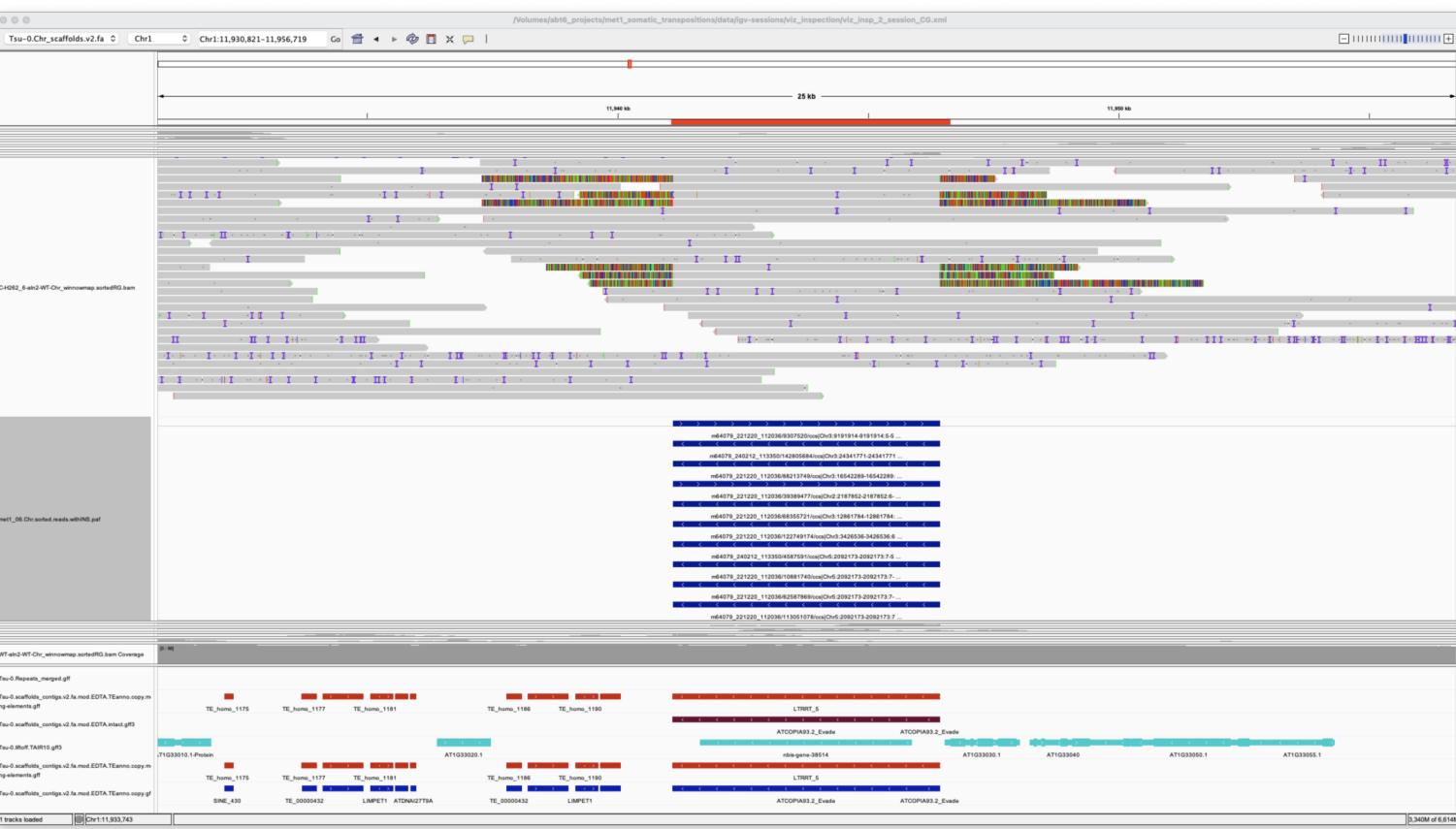
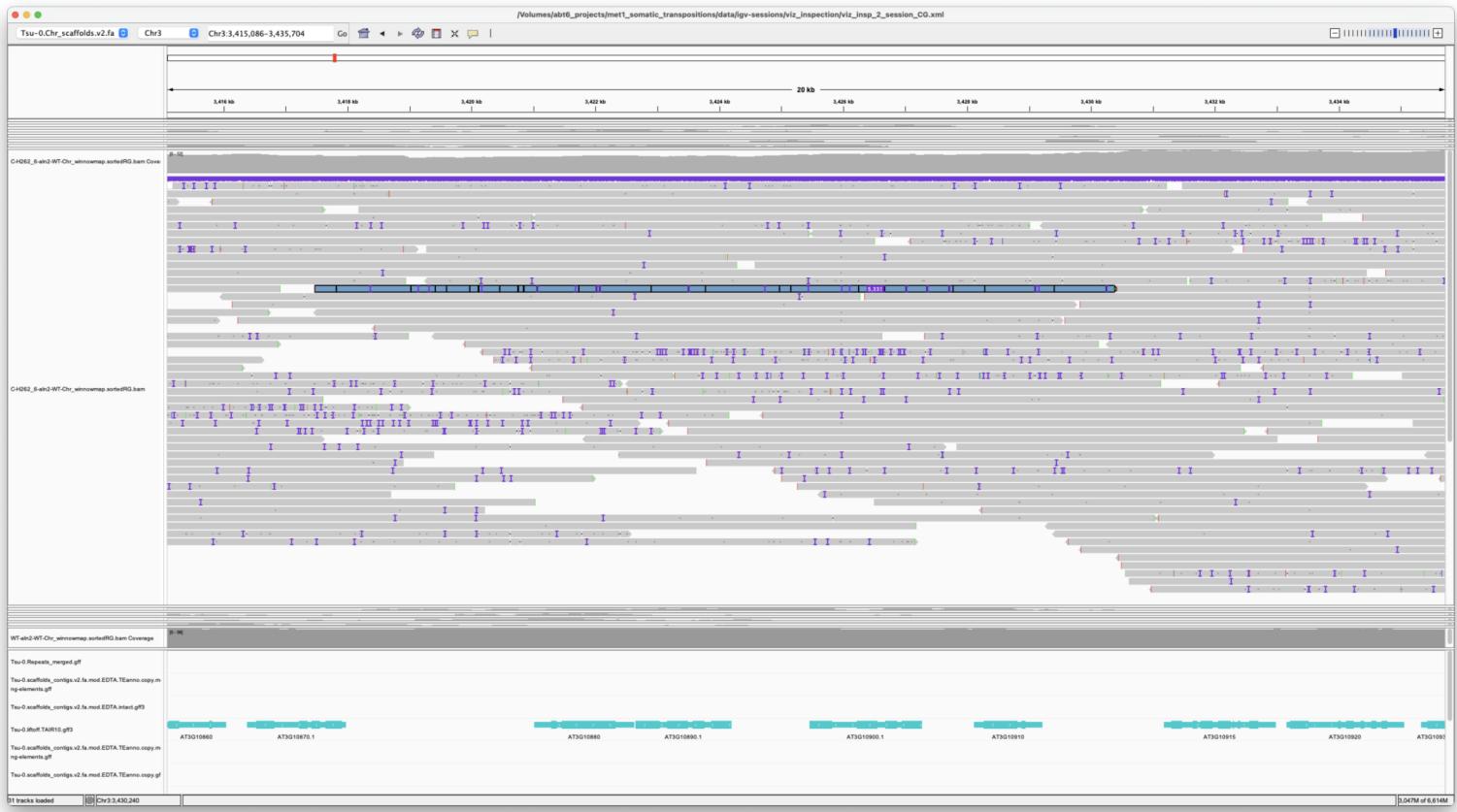
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 Chr1|11941106|11946435||ID=LTRRRT\_5;Name=ATCOPIA93.2\_Evade;Classification=LTR/Copia;Sequence\_ontology=SO:0002264;ltr\_identity=1.0000;Method=structural;motif=TACA;tsd=ATATG met1\_06



Confirmed

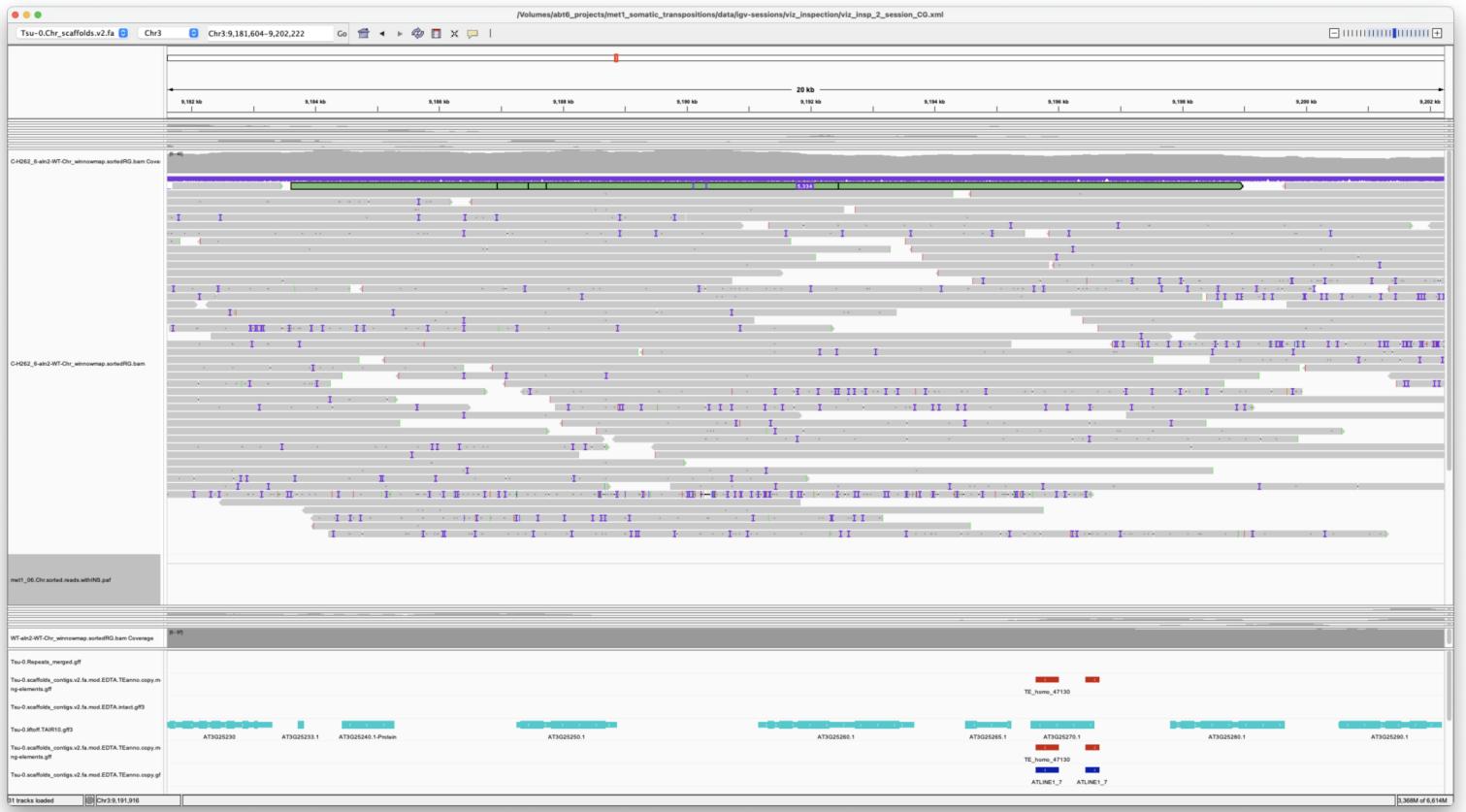
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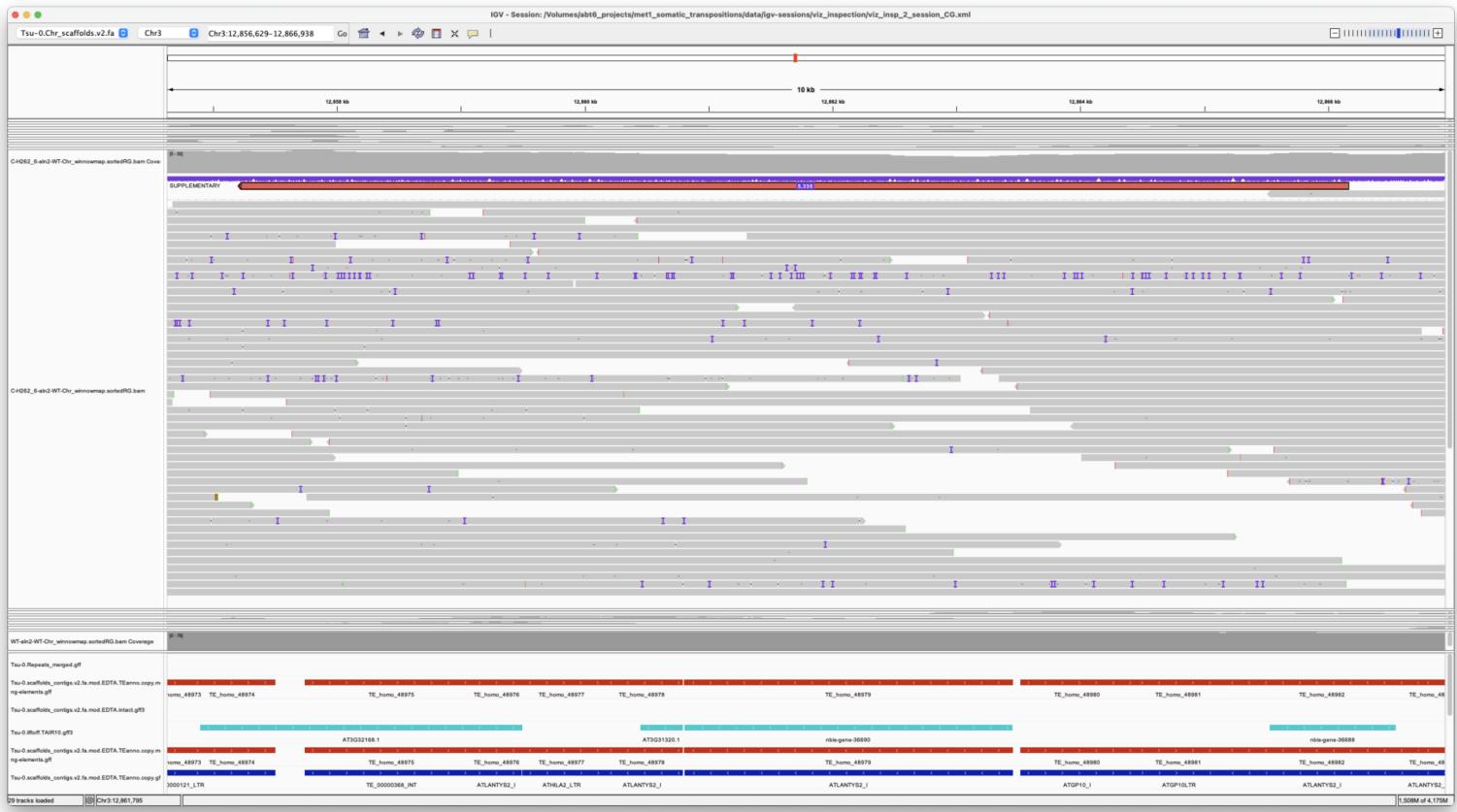
Confirmed

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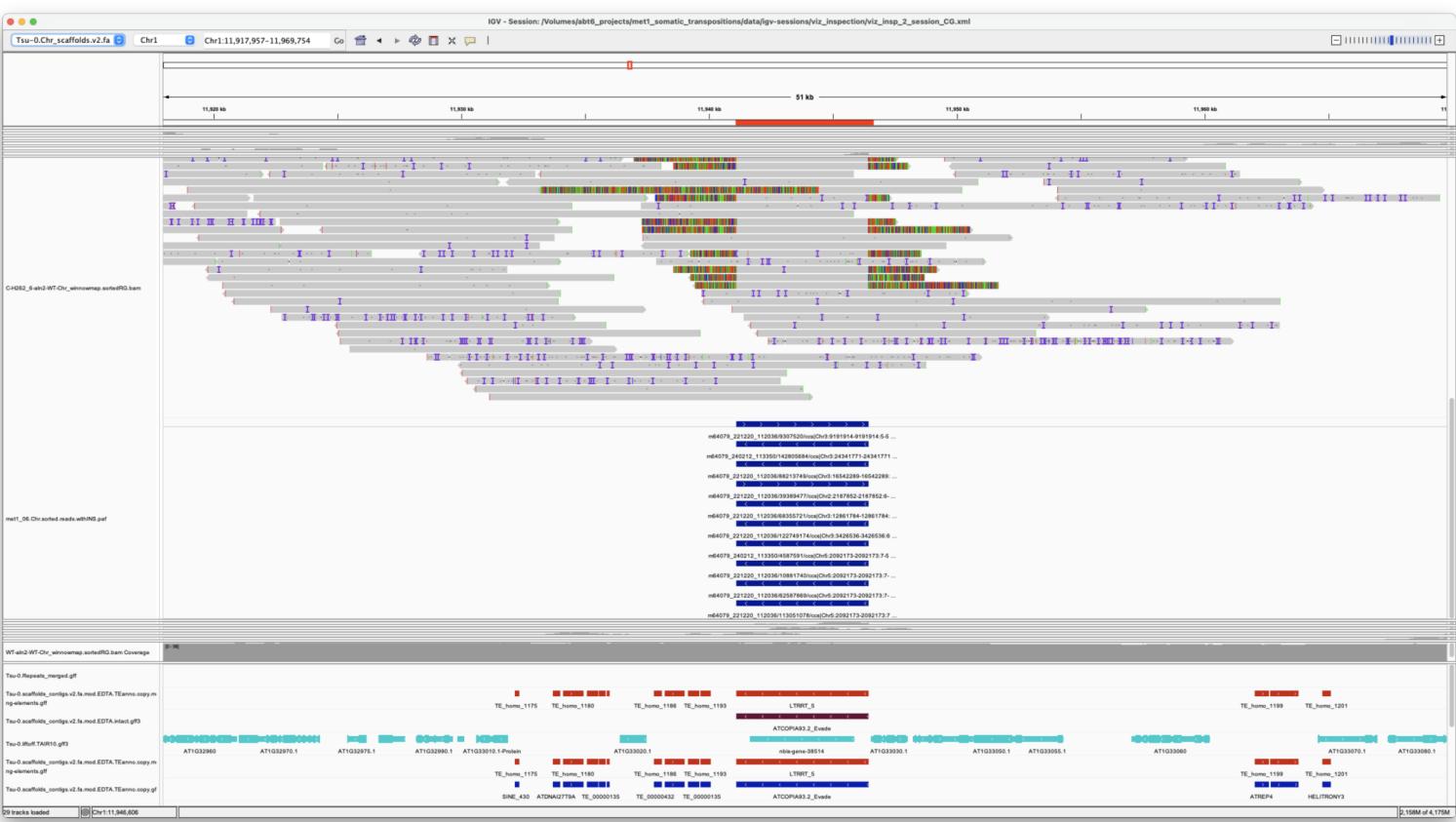
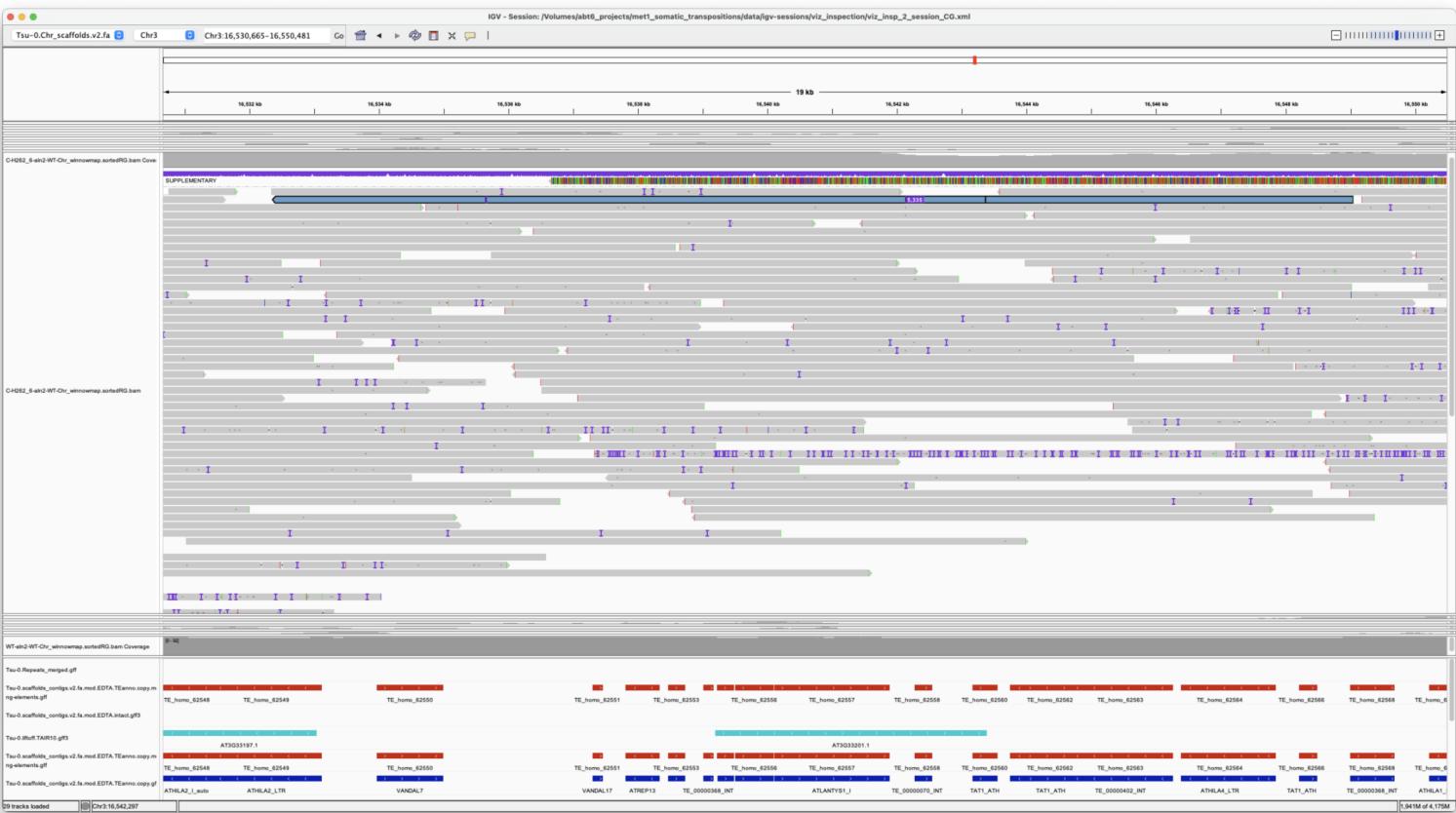
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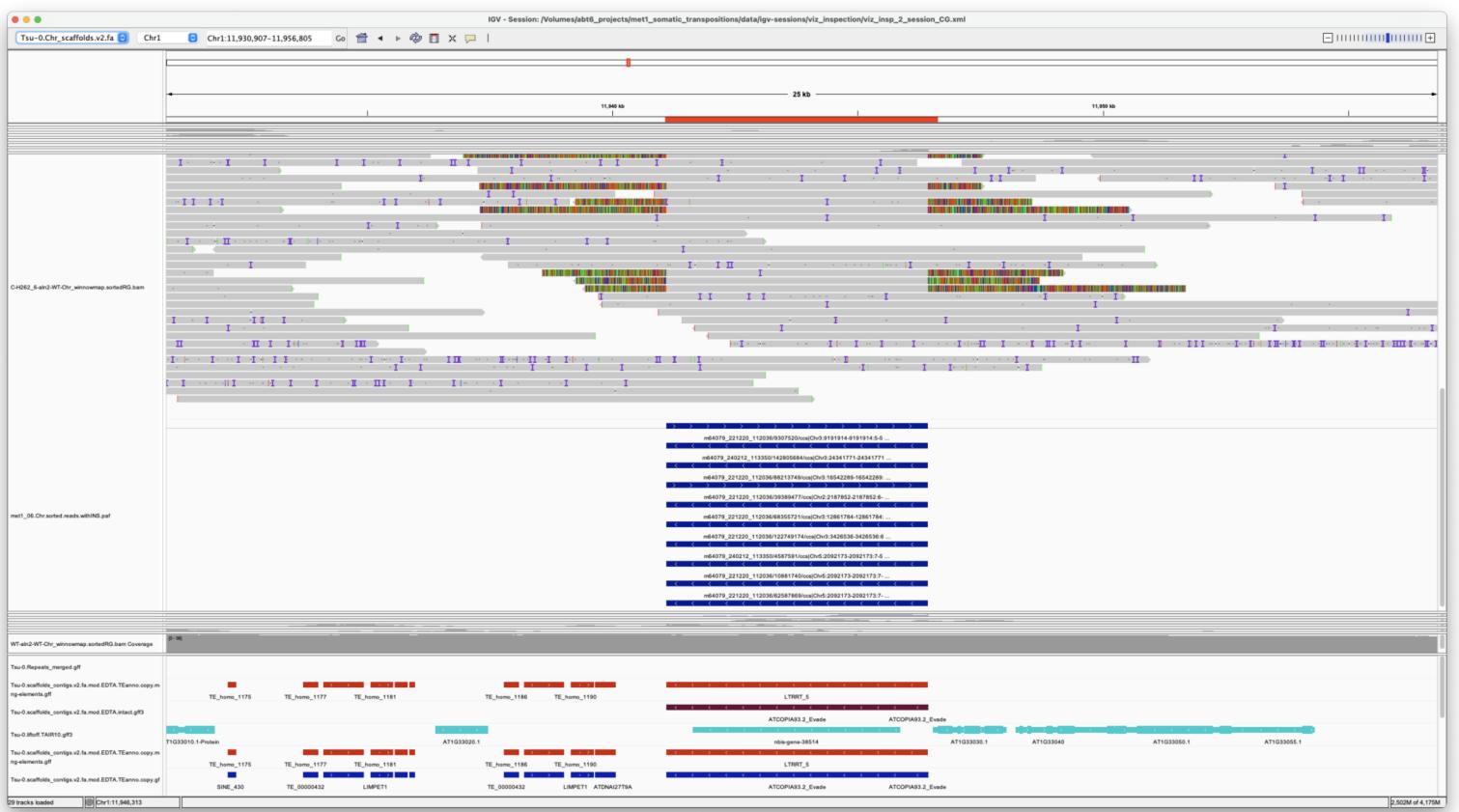
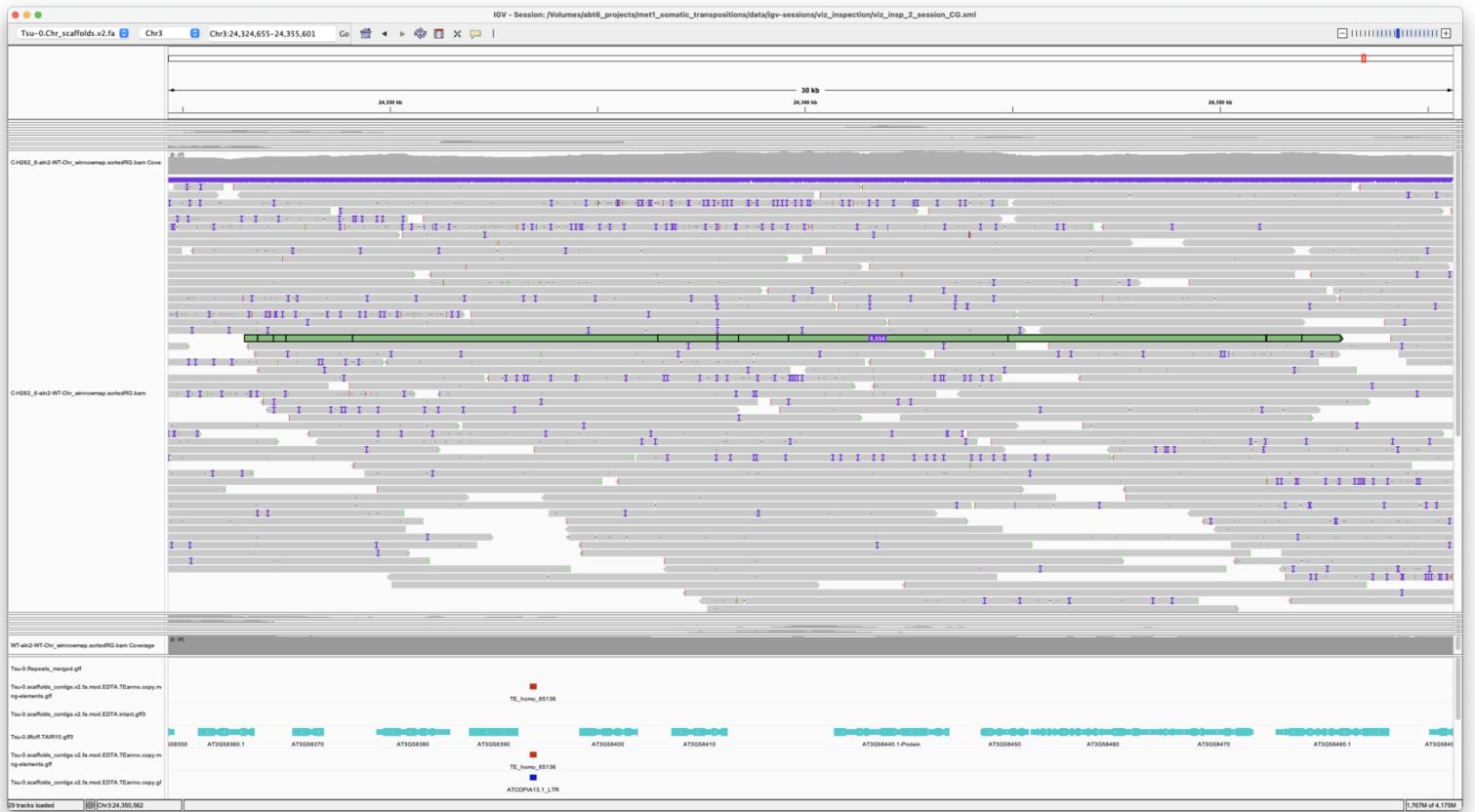
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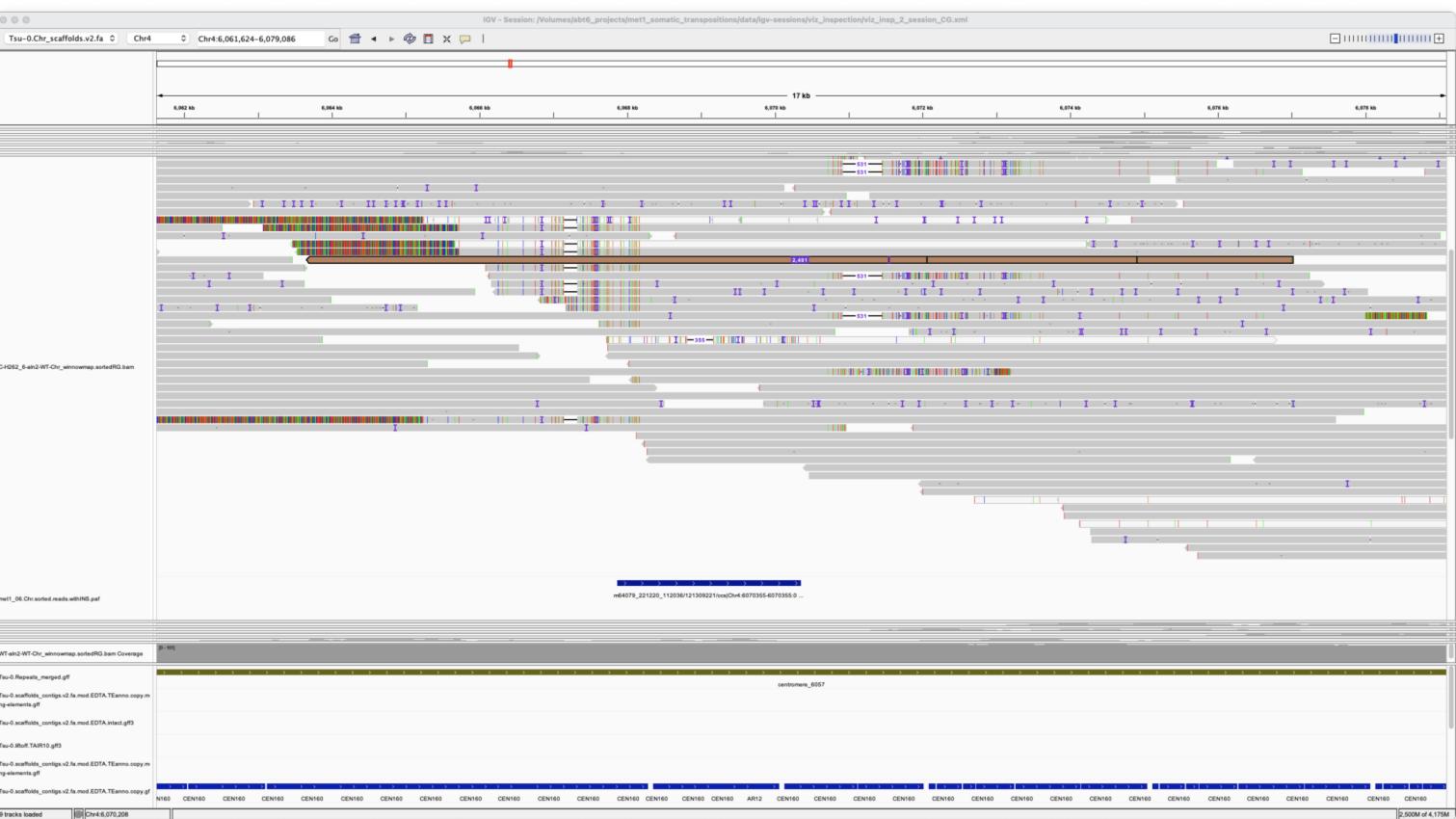
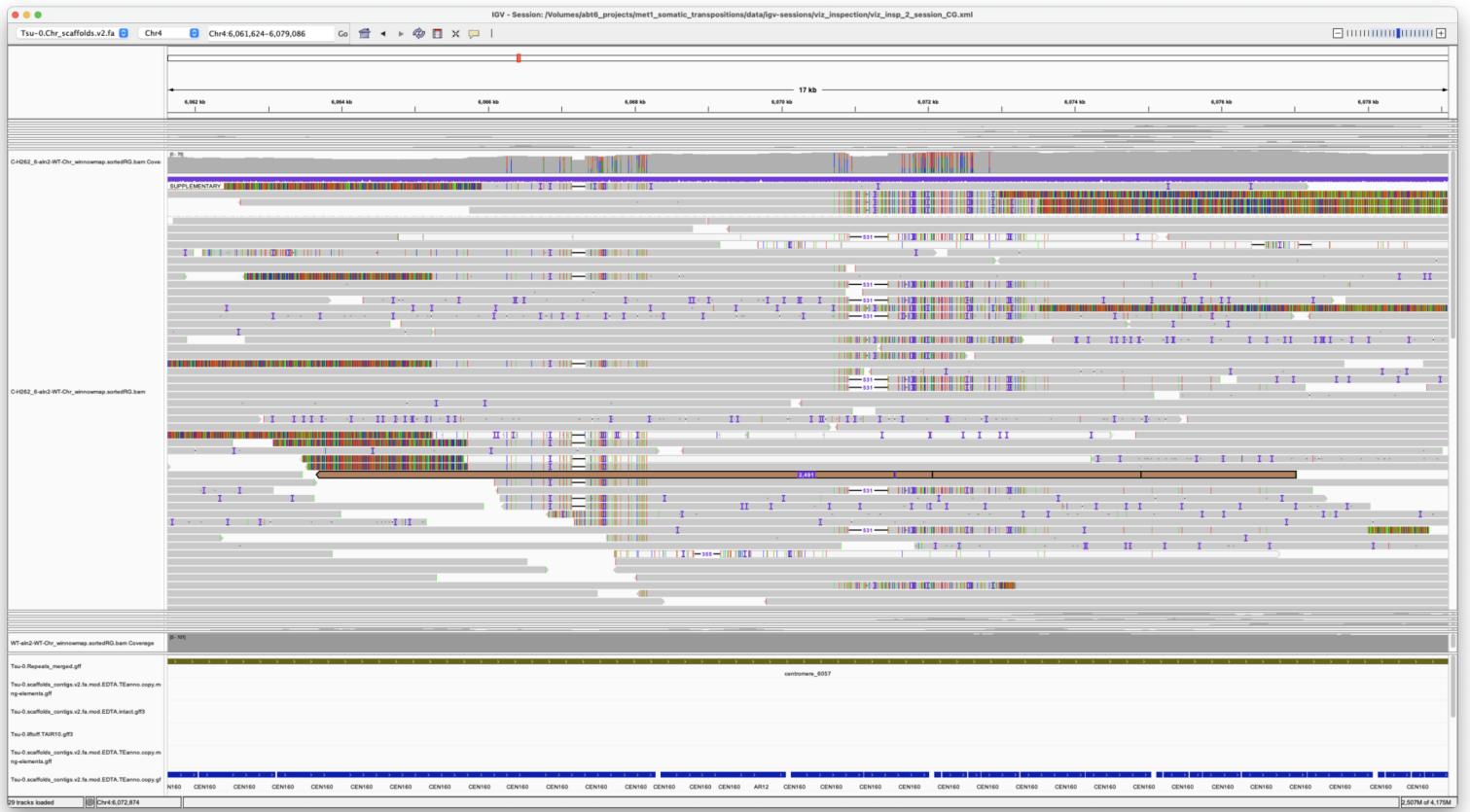
Confirmed

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Confirmed

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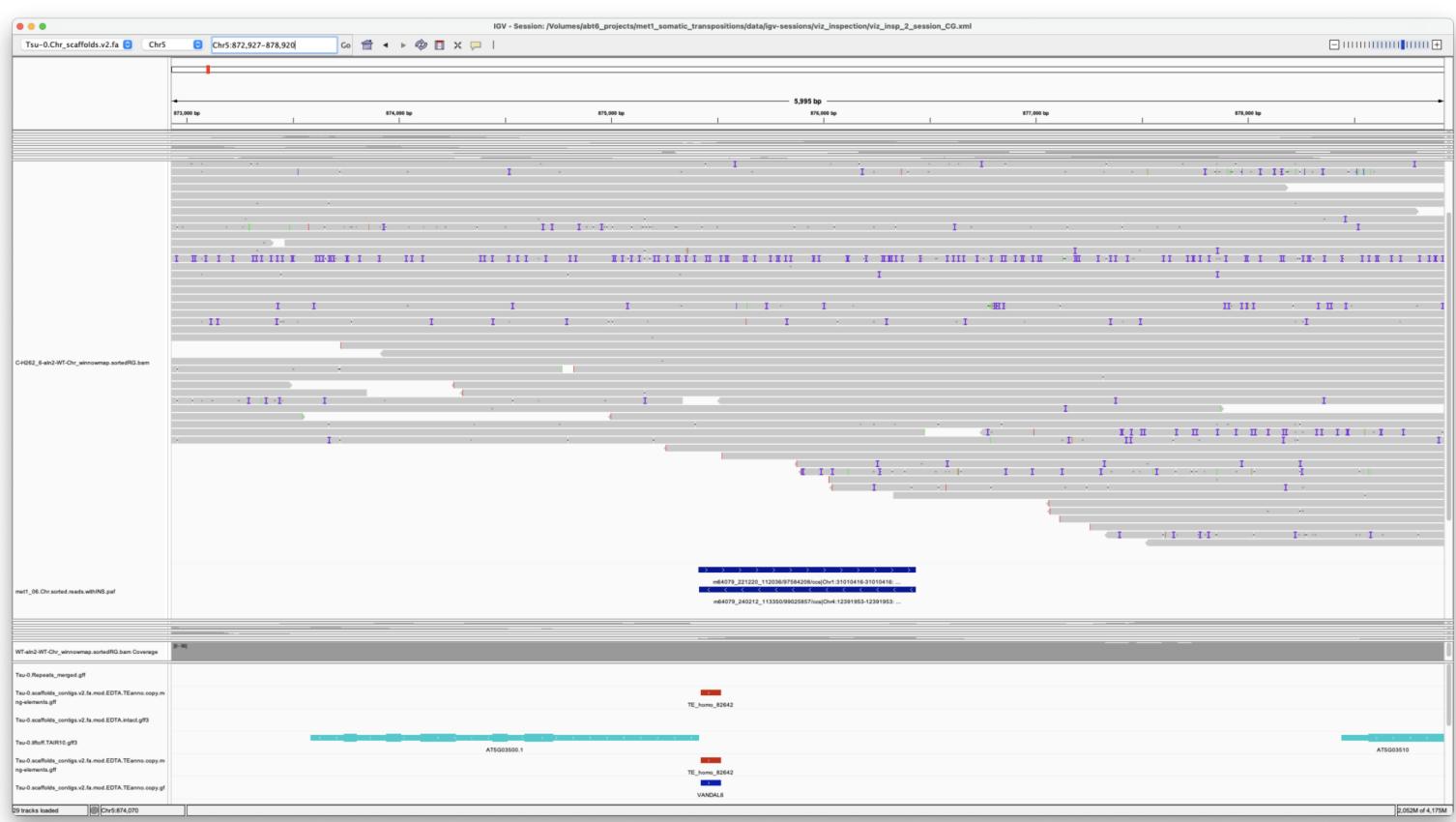
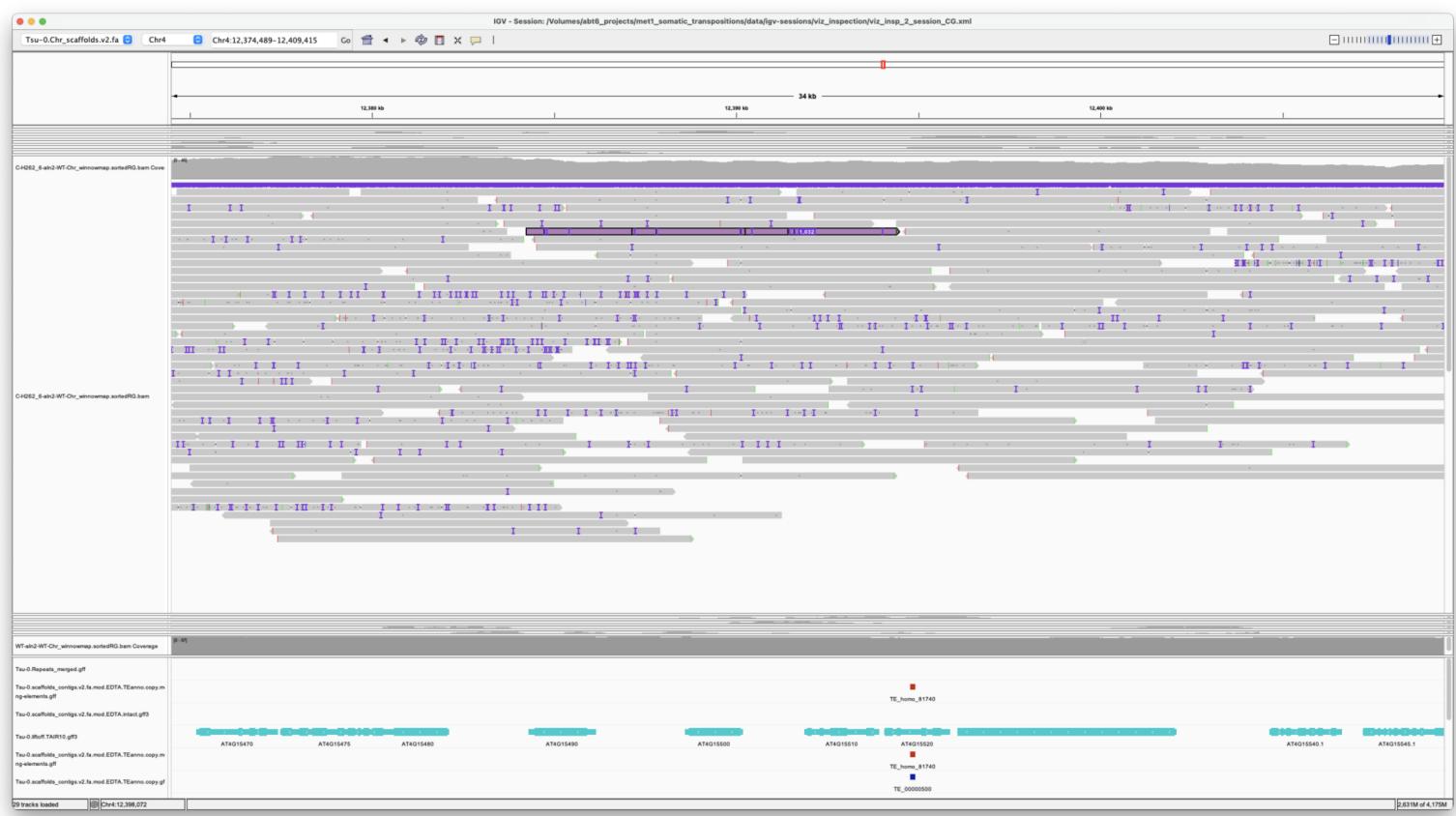


Centromeric rearrangement

*unsupported*

Chr4 12391953 12391953 m64079\_240212\_113350/99025857/ccs Chr5 875413 876434

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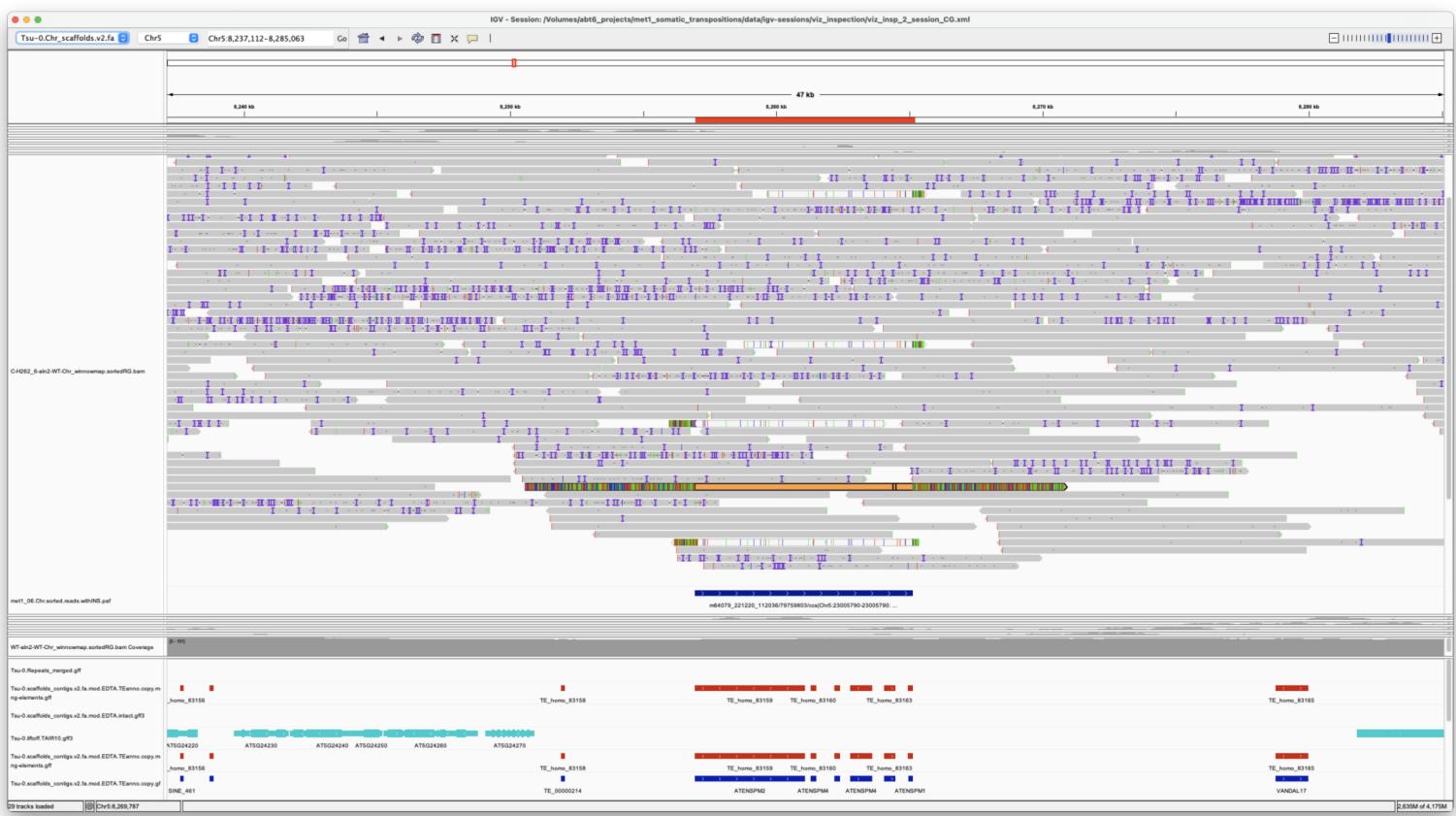
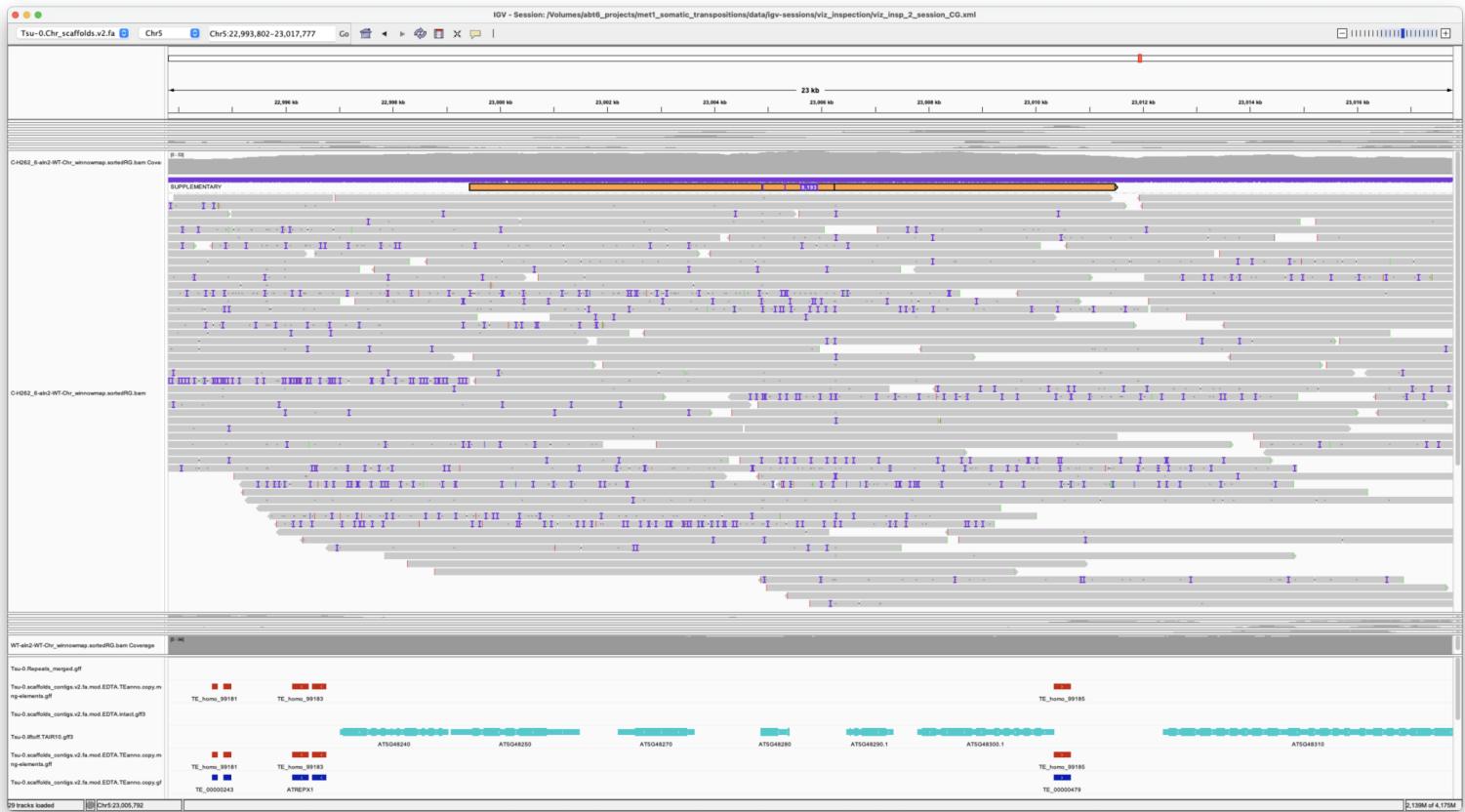
Confidential

Chr5 2092172 2092179 m64079\_221200\_112036/10881740/ccsm64079\_221200\_112036/113051078/ccsm64079\_221200\_112036/62587869/ccsm64079\_240212\_113350/4587591/ccs Chr1 11941106 11946436  
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Confirmed

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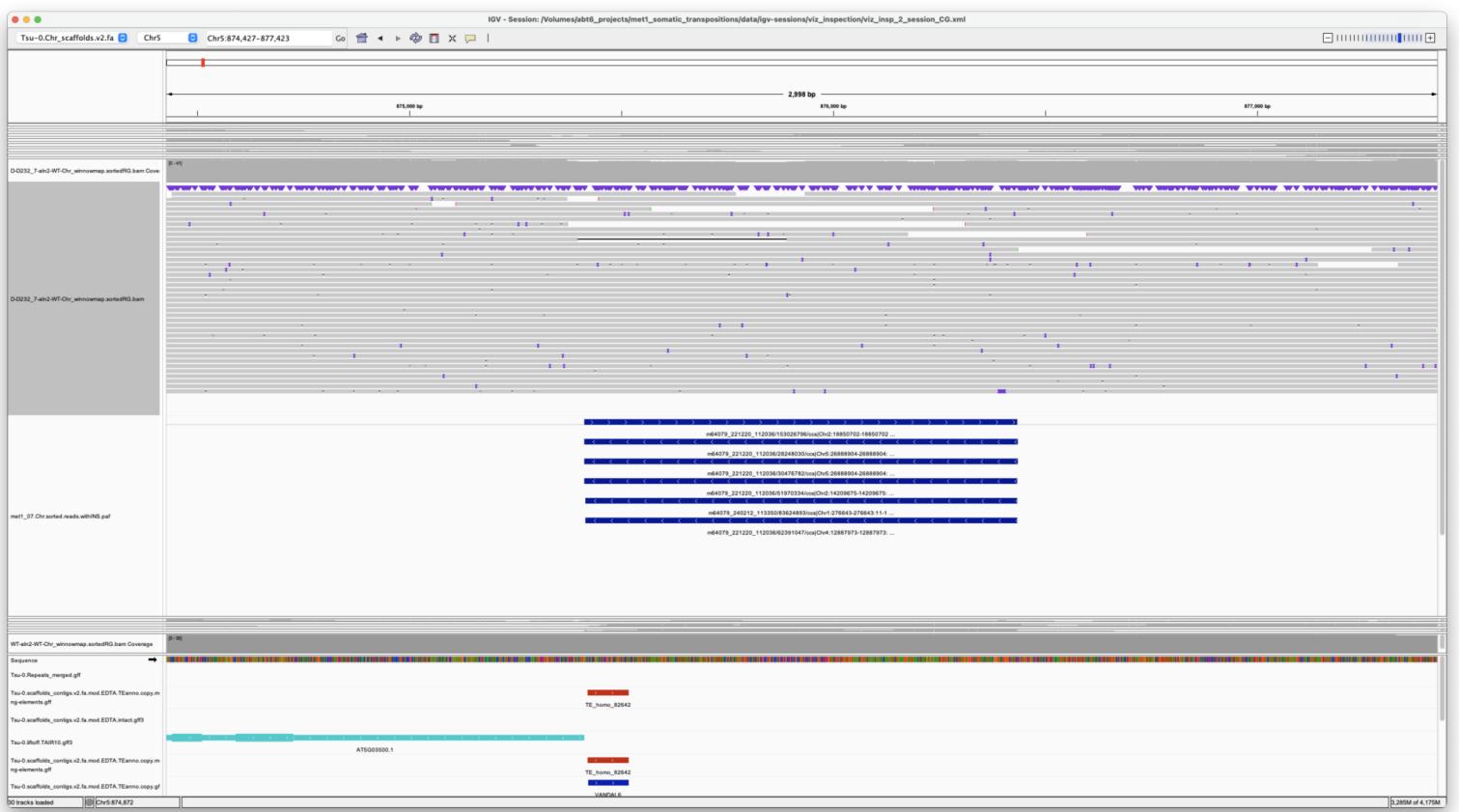
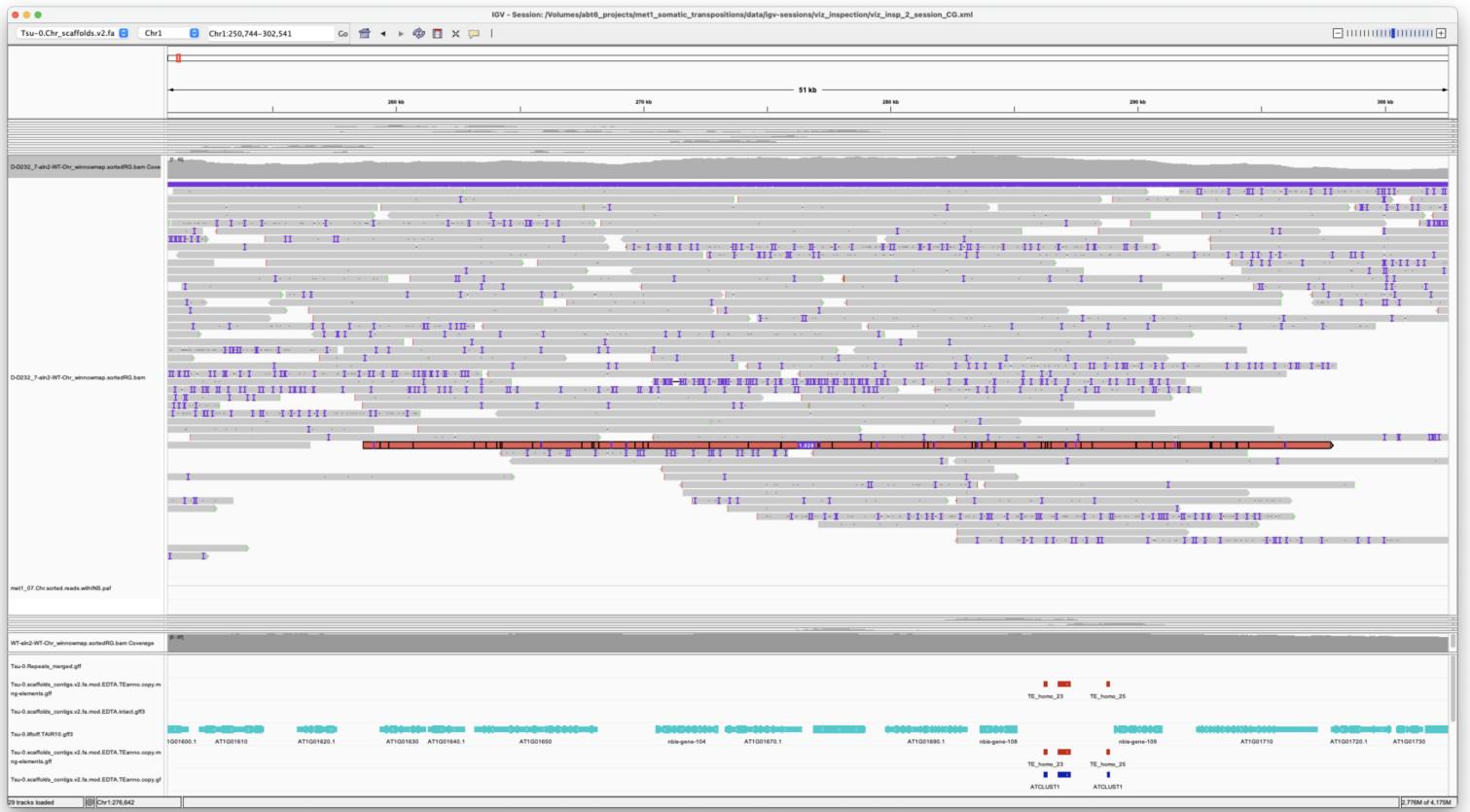


Confirmed

**met1\_07**

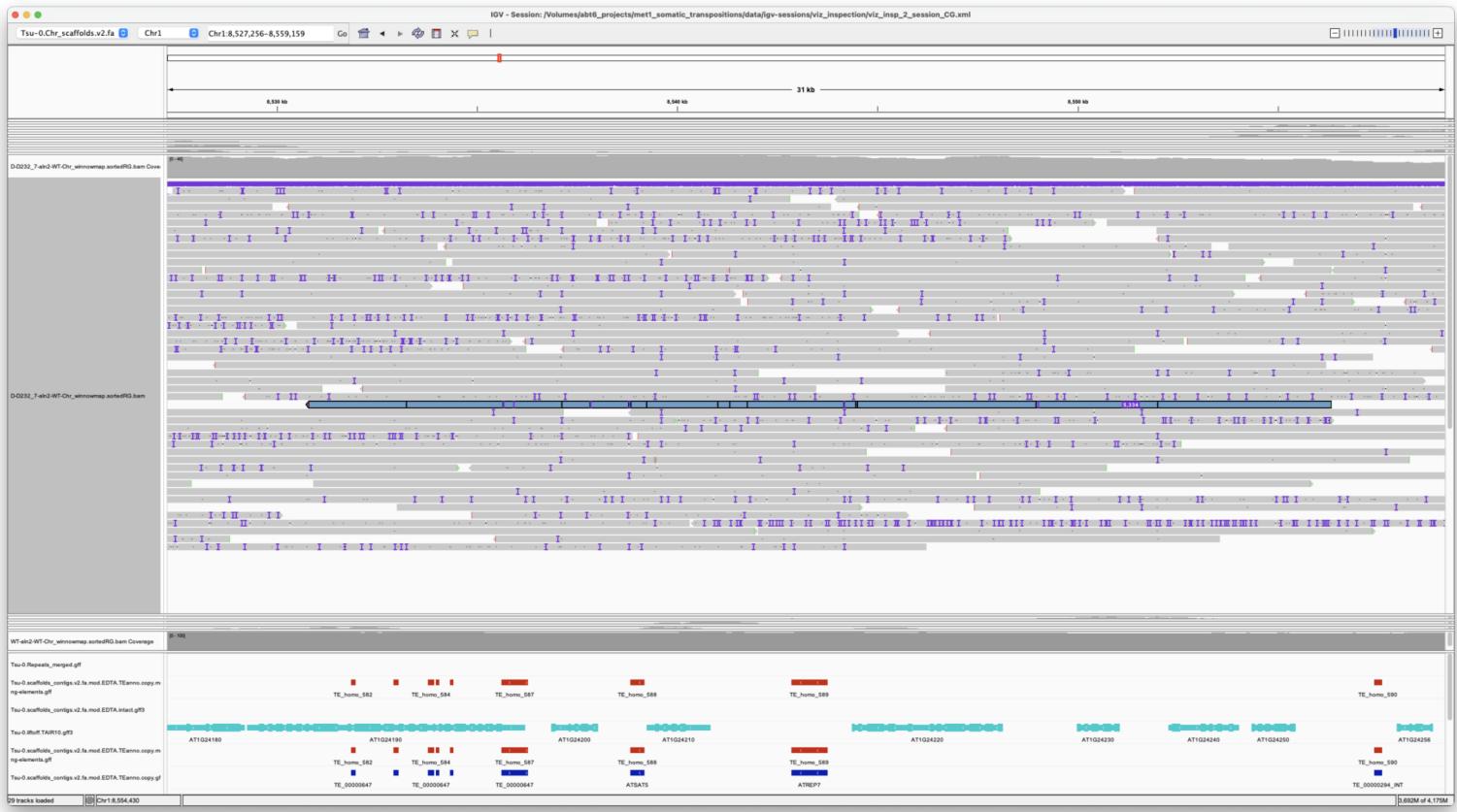
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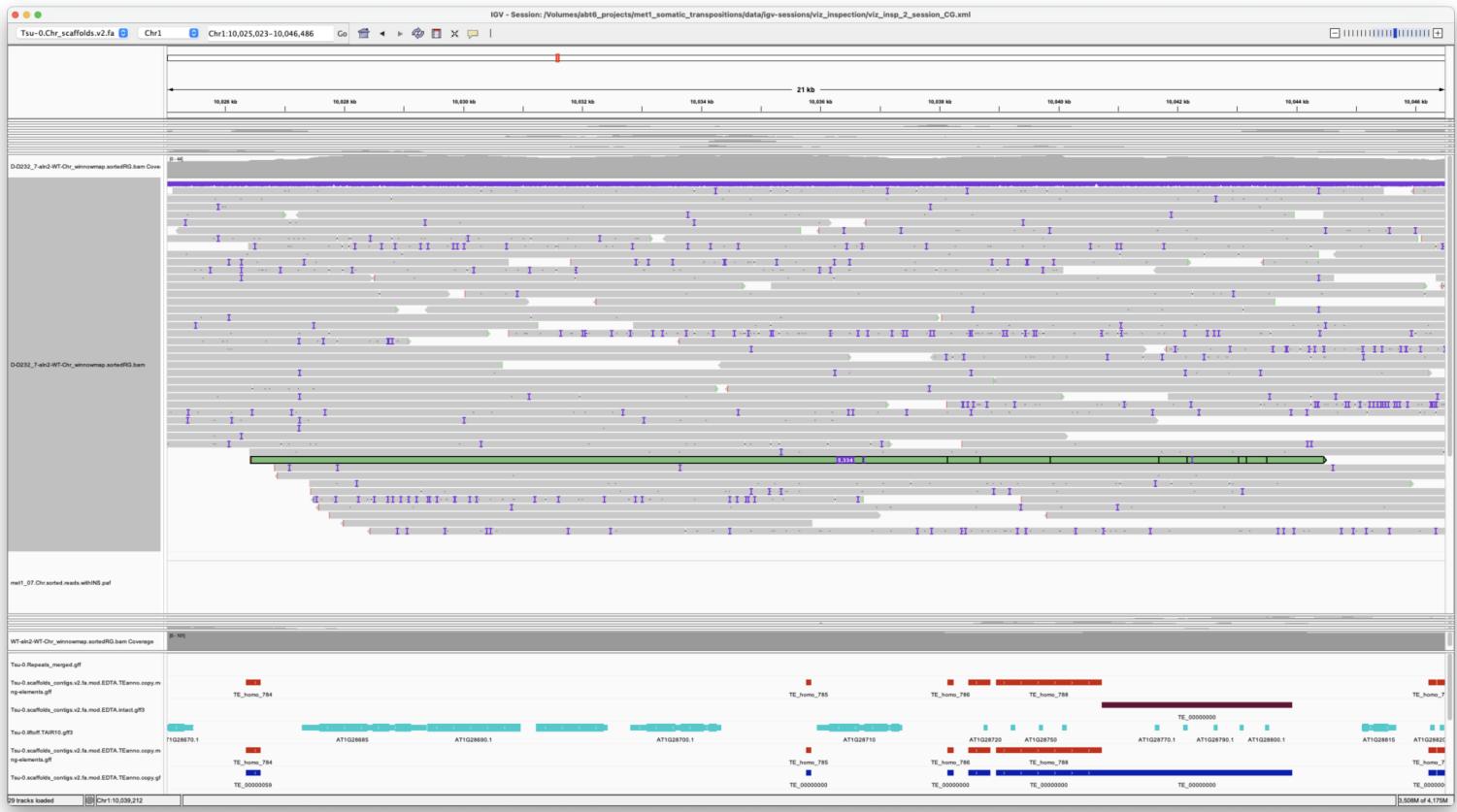
Confirmed

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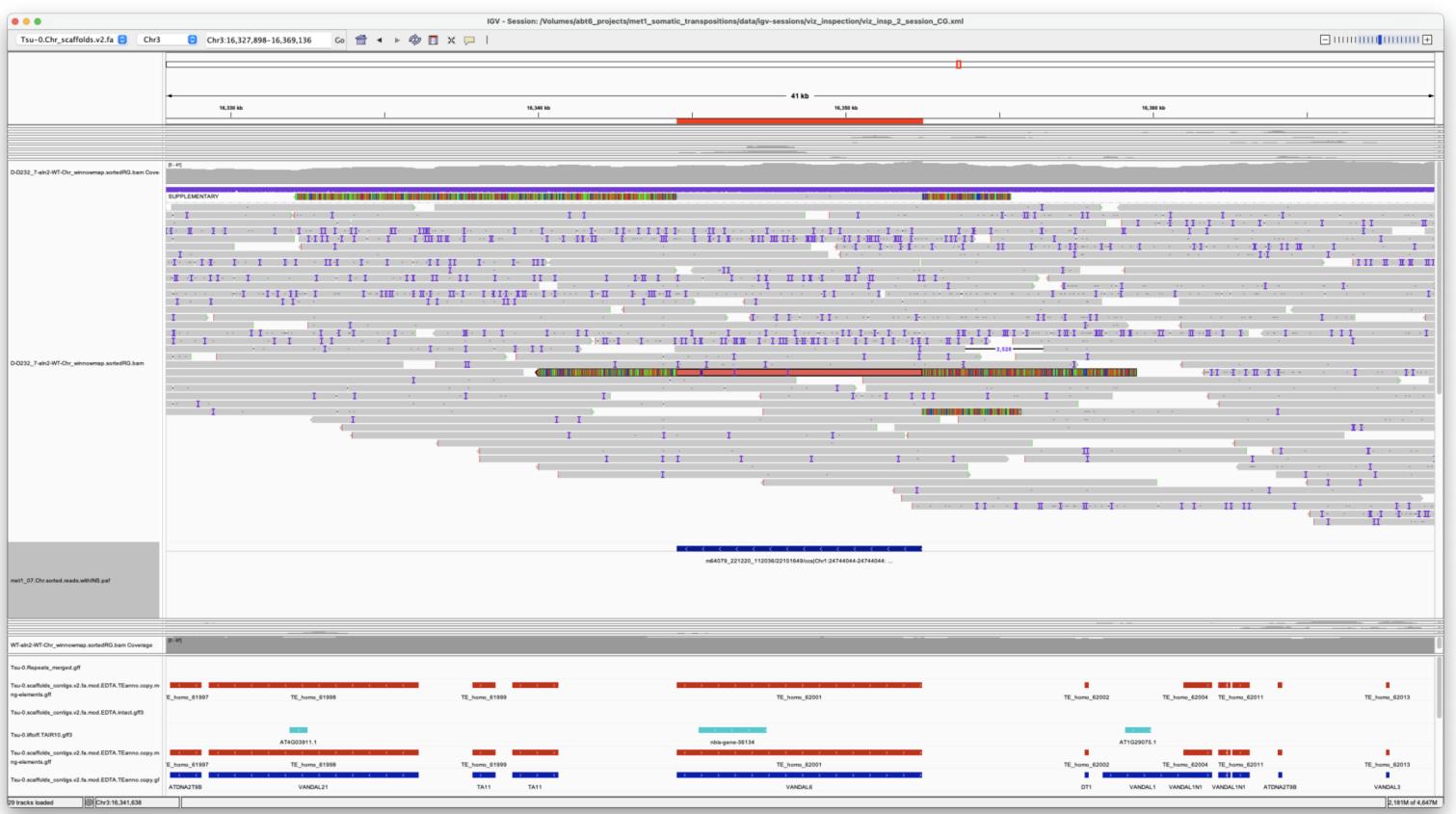
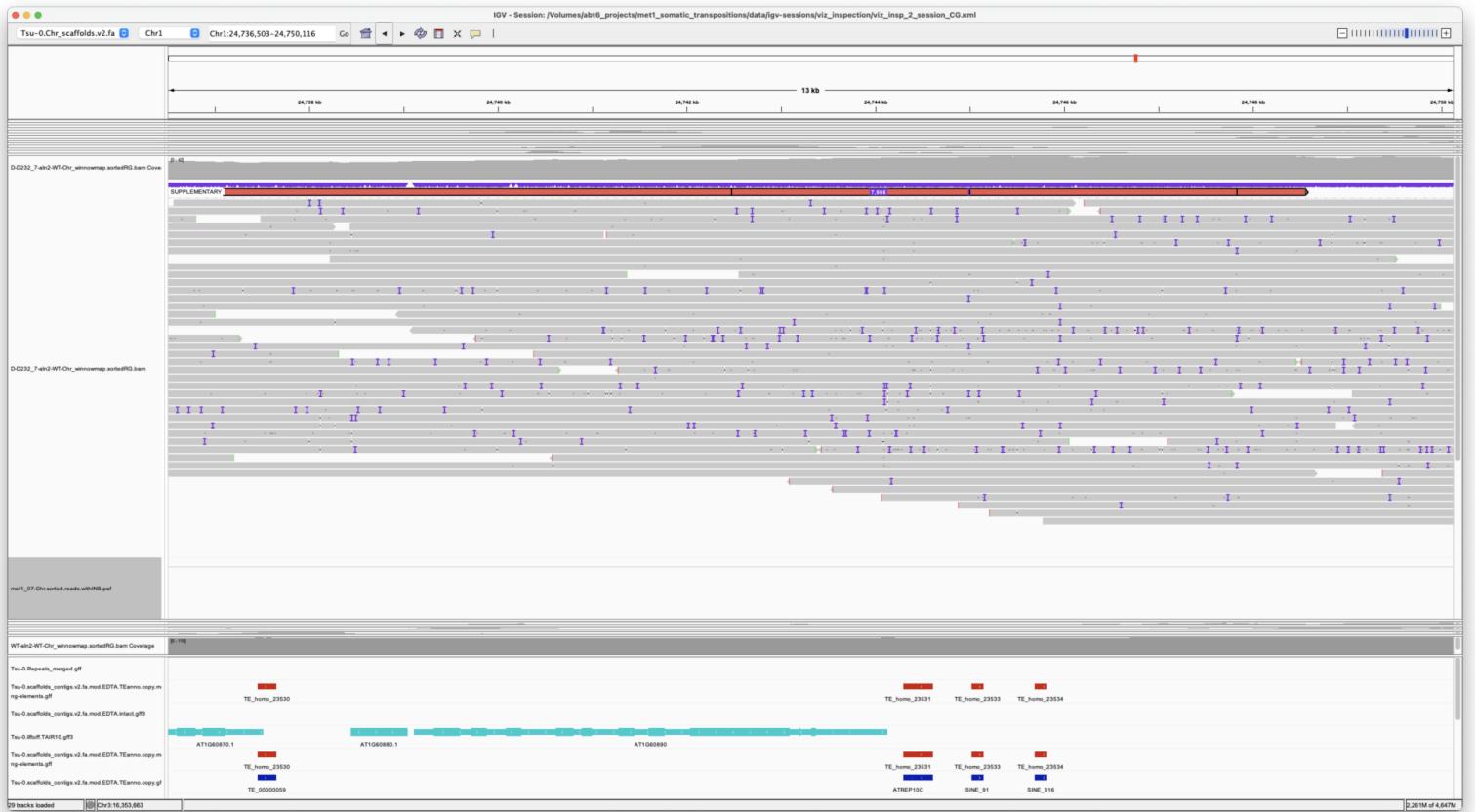
Confirmed

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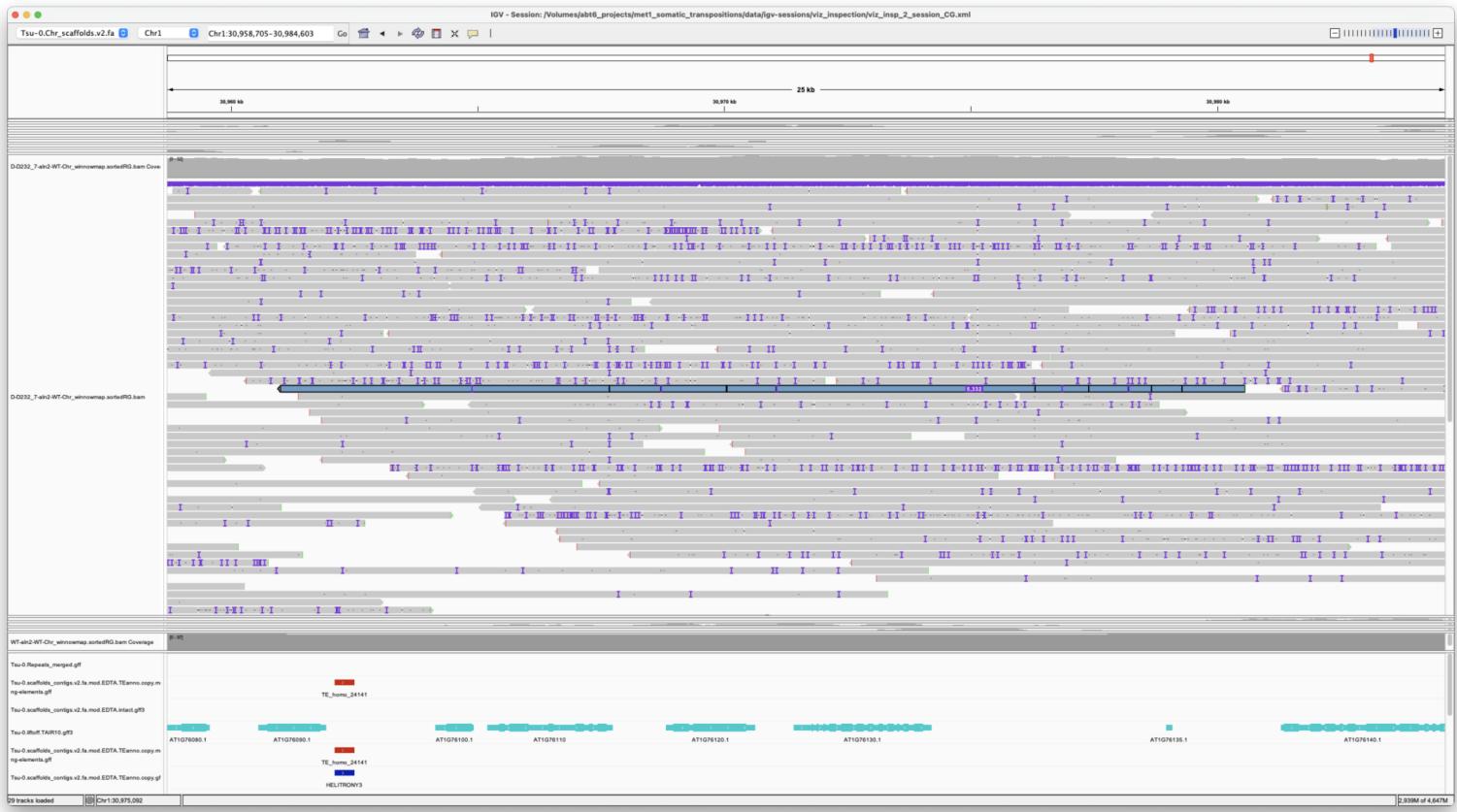
Confirmed

Chr1 24744044 24744044 m64079\_221220\_112036/22151649/ccs Chr3 16344525 16352497  
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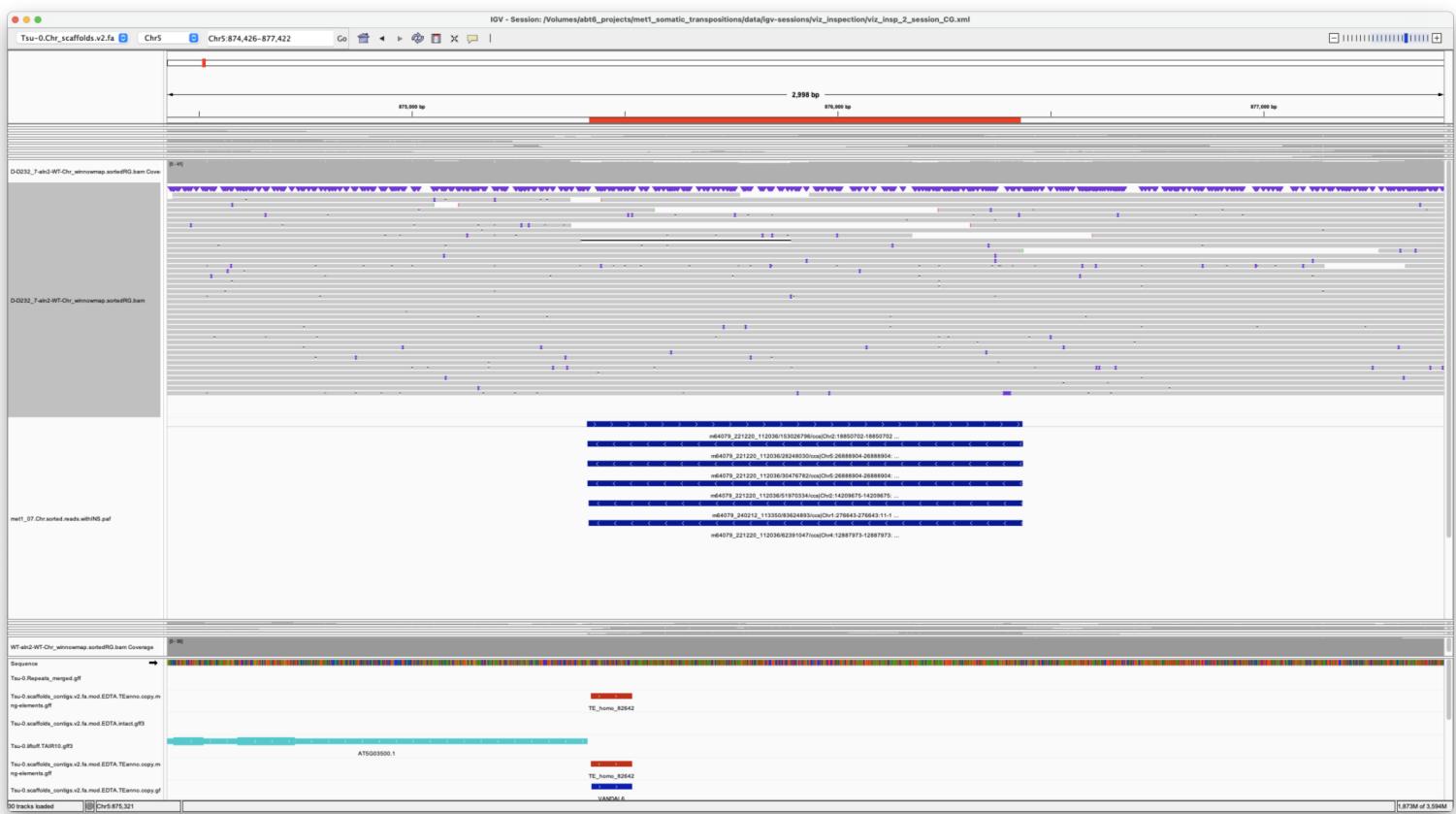
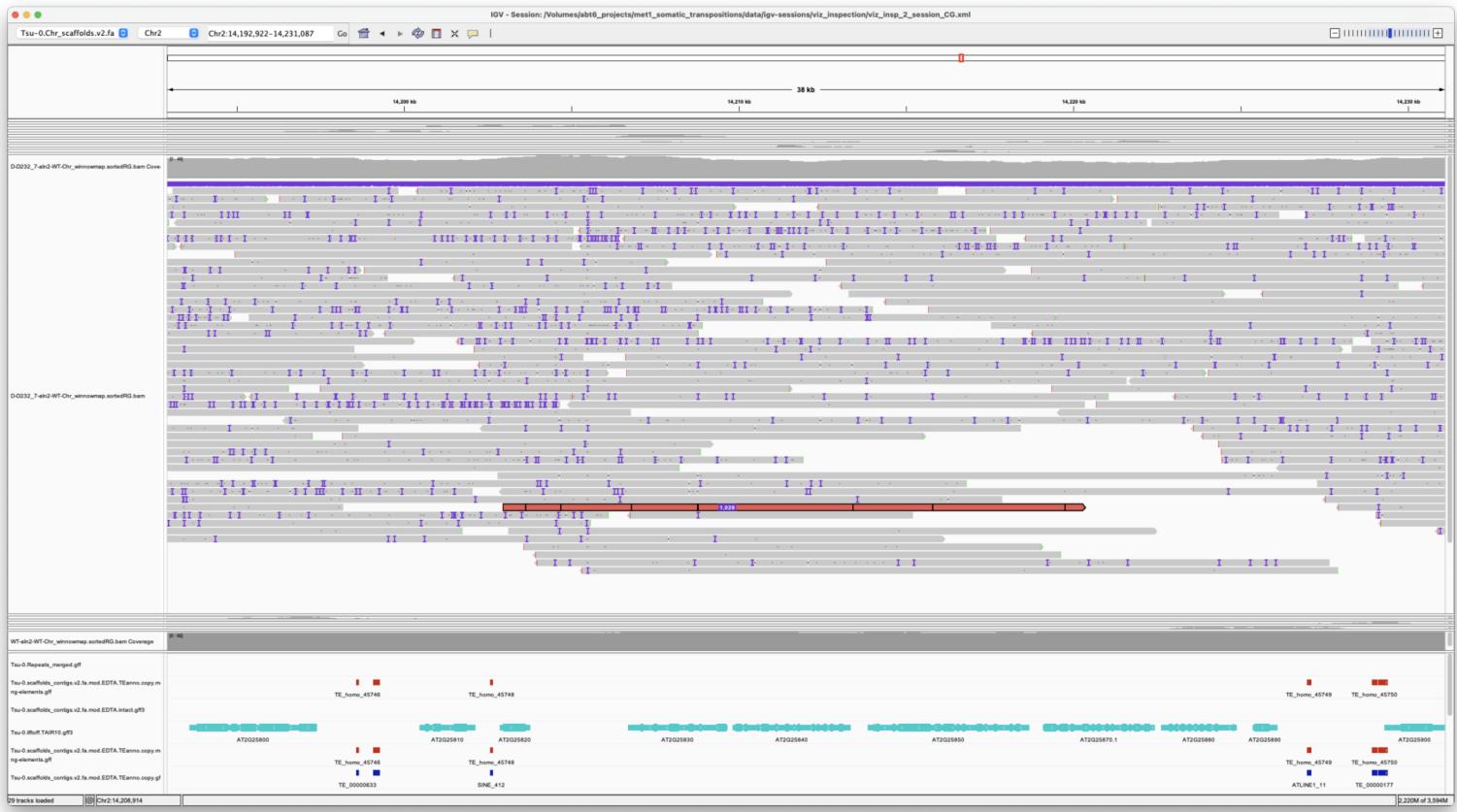
Confirmed

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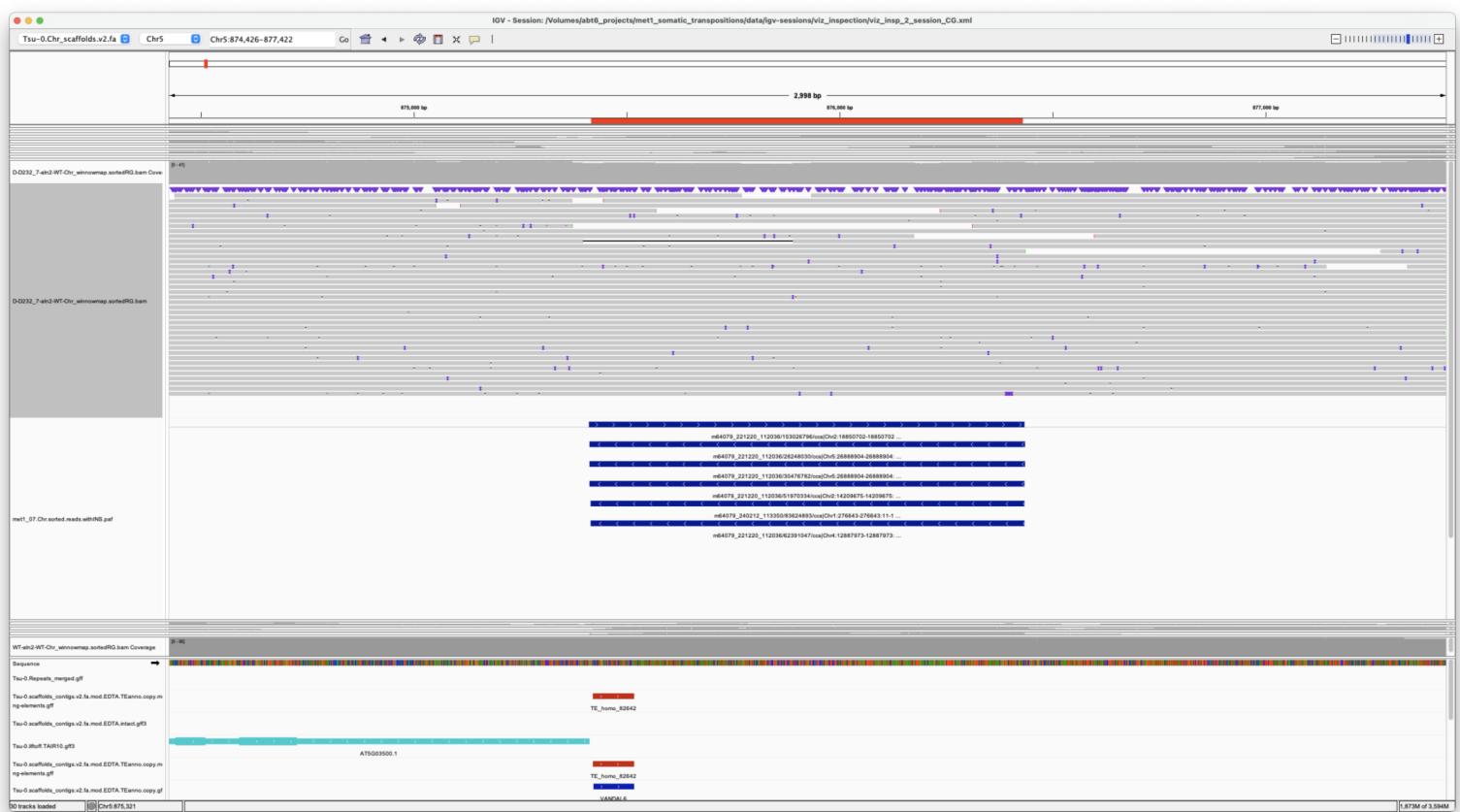
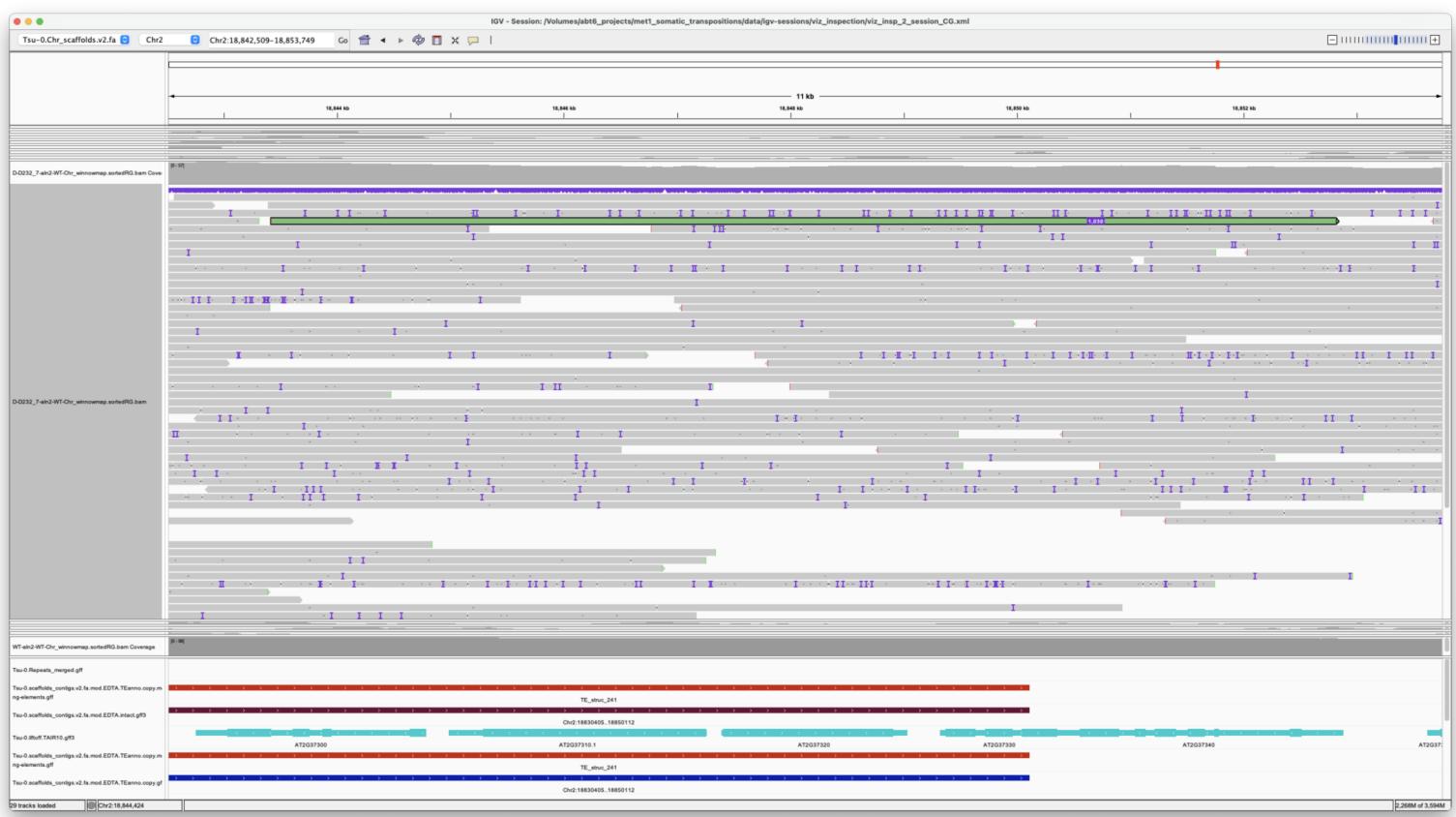
Confirmed

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Confirmed

Chr2 18850702 18850702 m64079\_221220\_112036/153026796/ccs Chr5 875412 876434  
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**Confirmed**