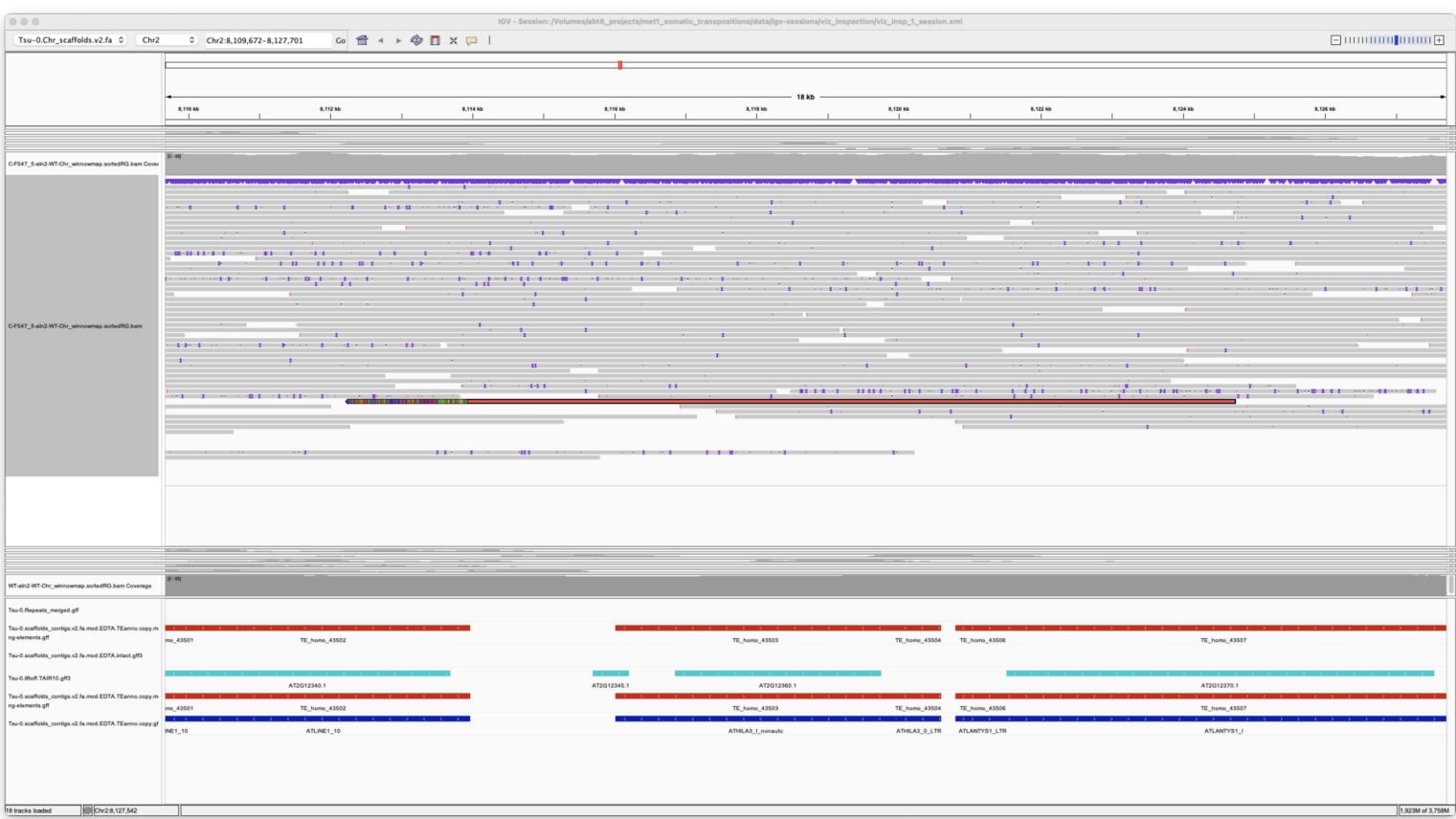


Central

TSD

Confirmed

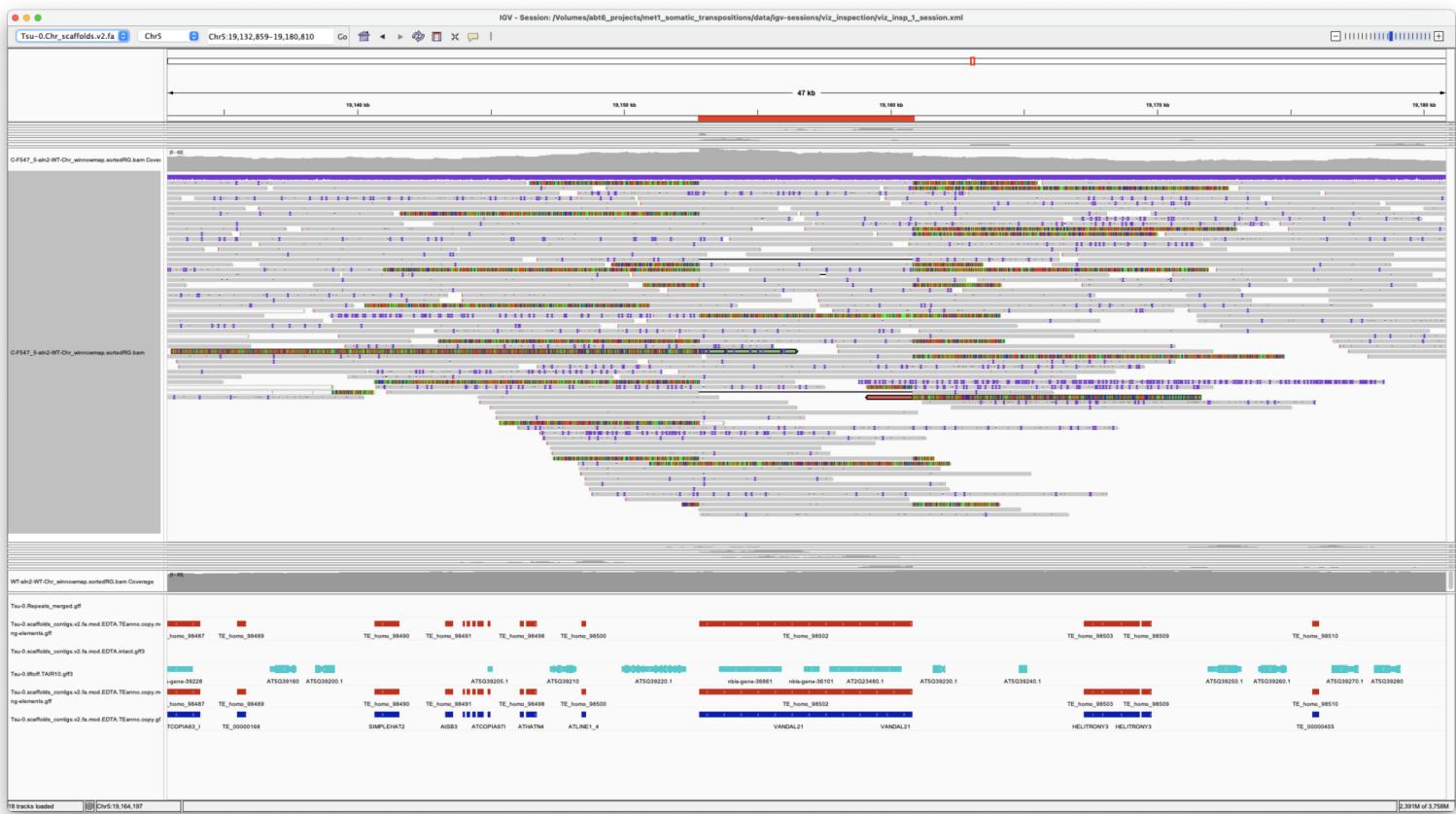
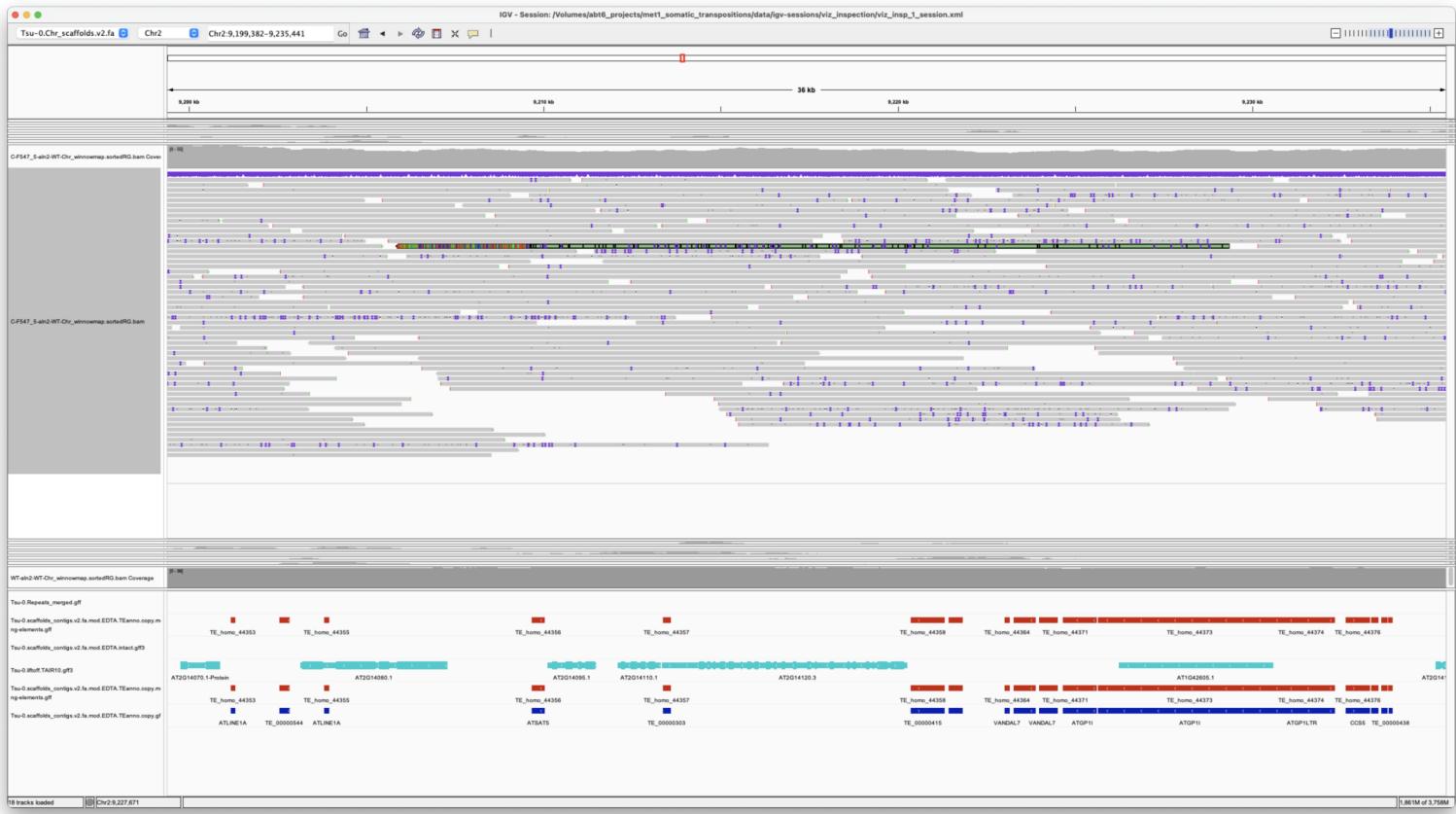
Chr2 8113932 8113932 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/174786235/ccs met1_05



Partial

Confirmed

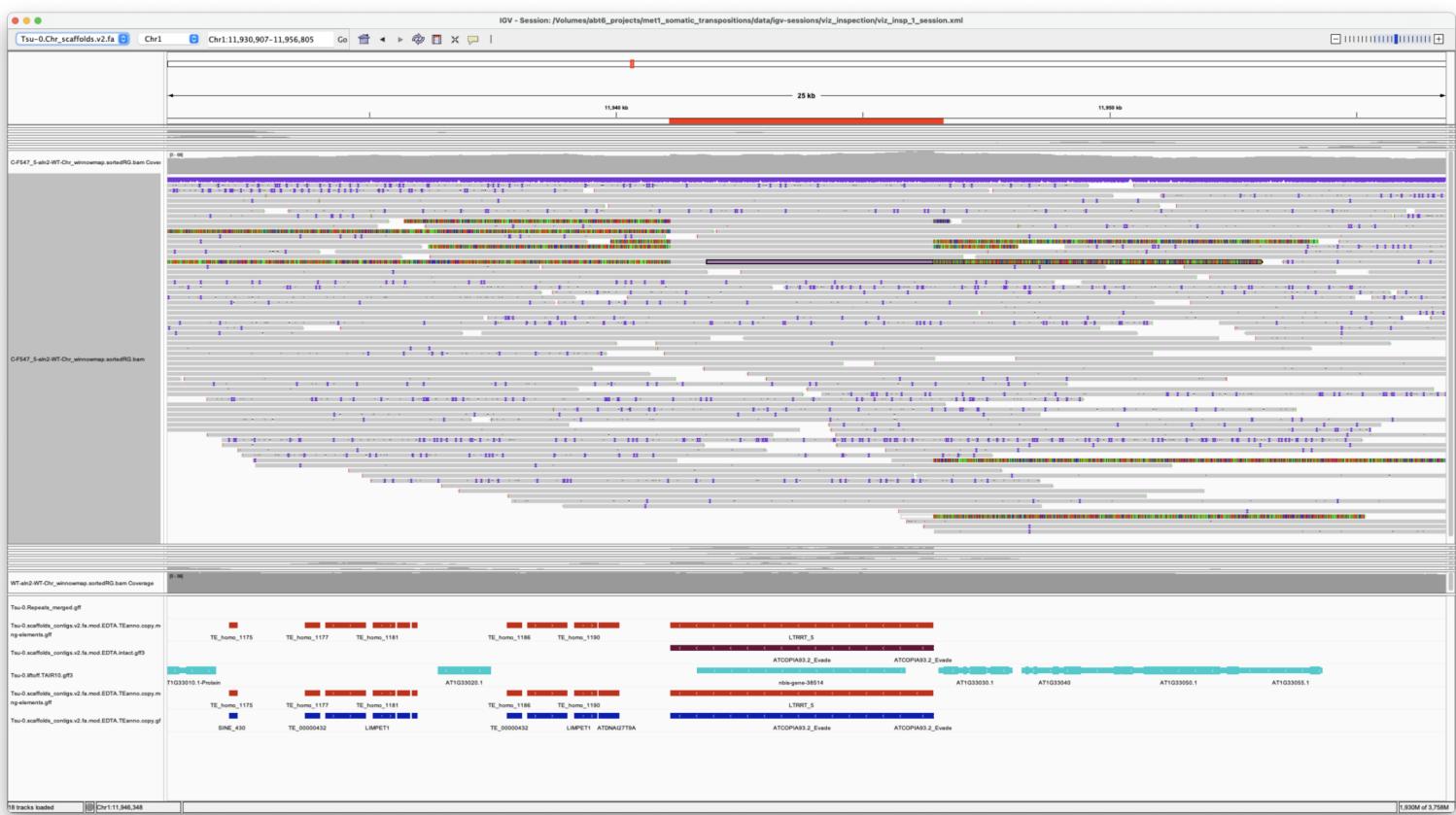
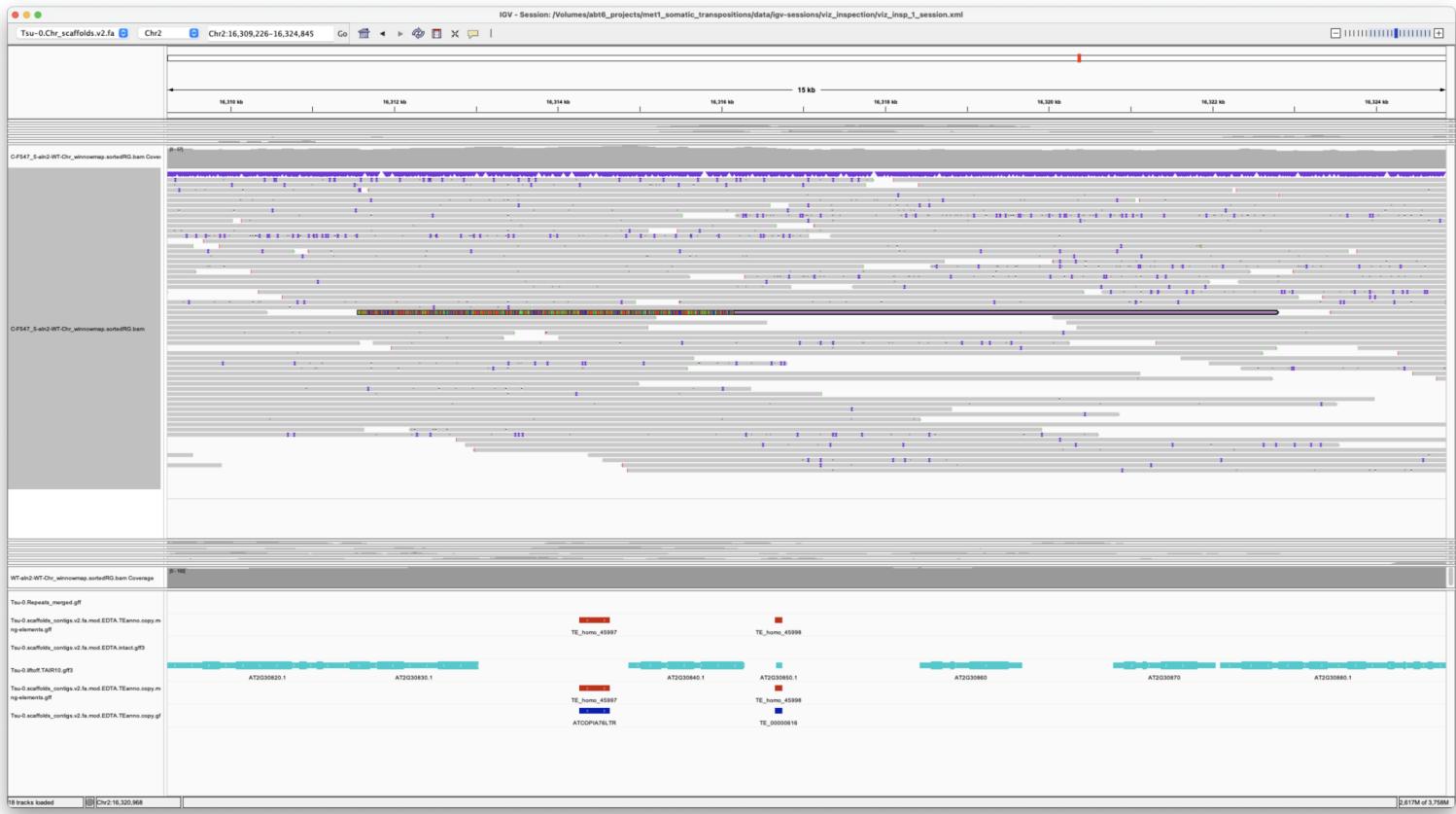
Chr2 9209529 9209529 - 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036/43910439/ccs met1_05



Partial

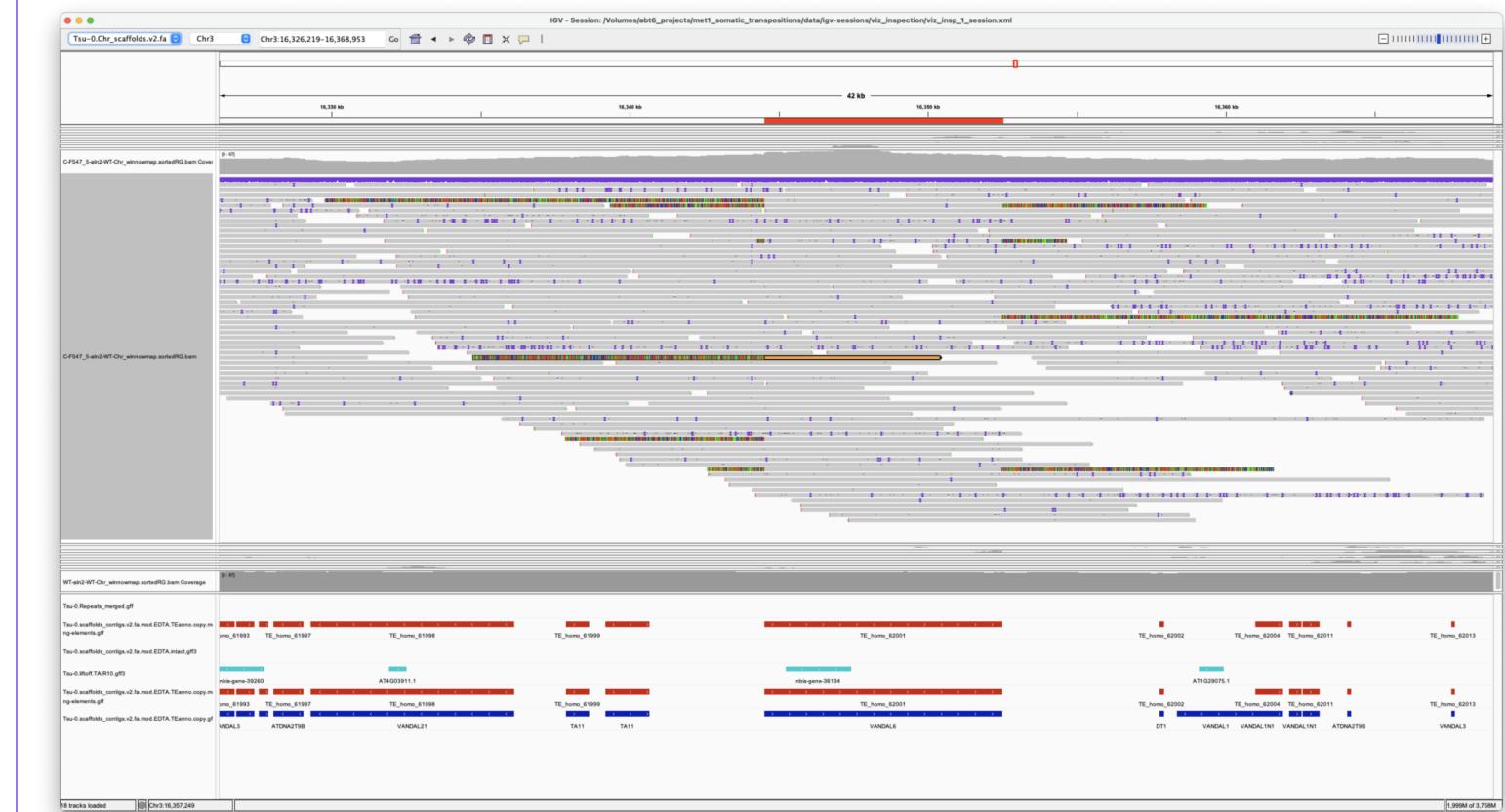
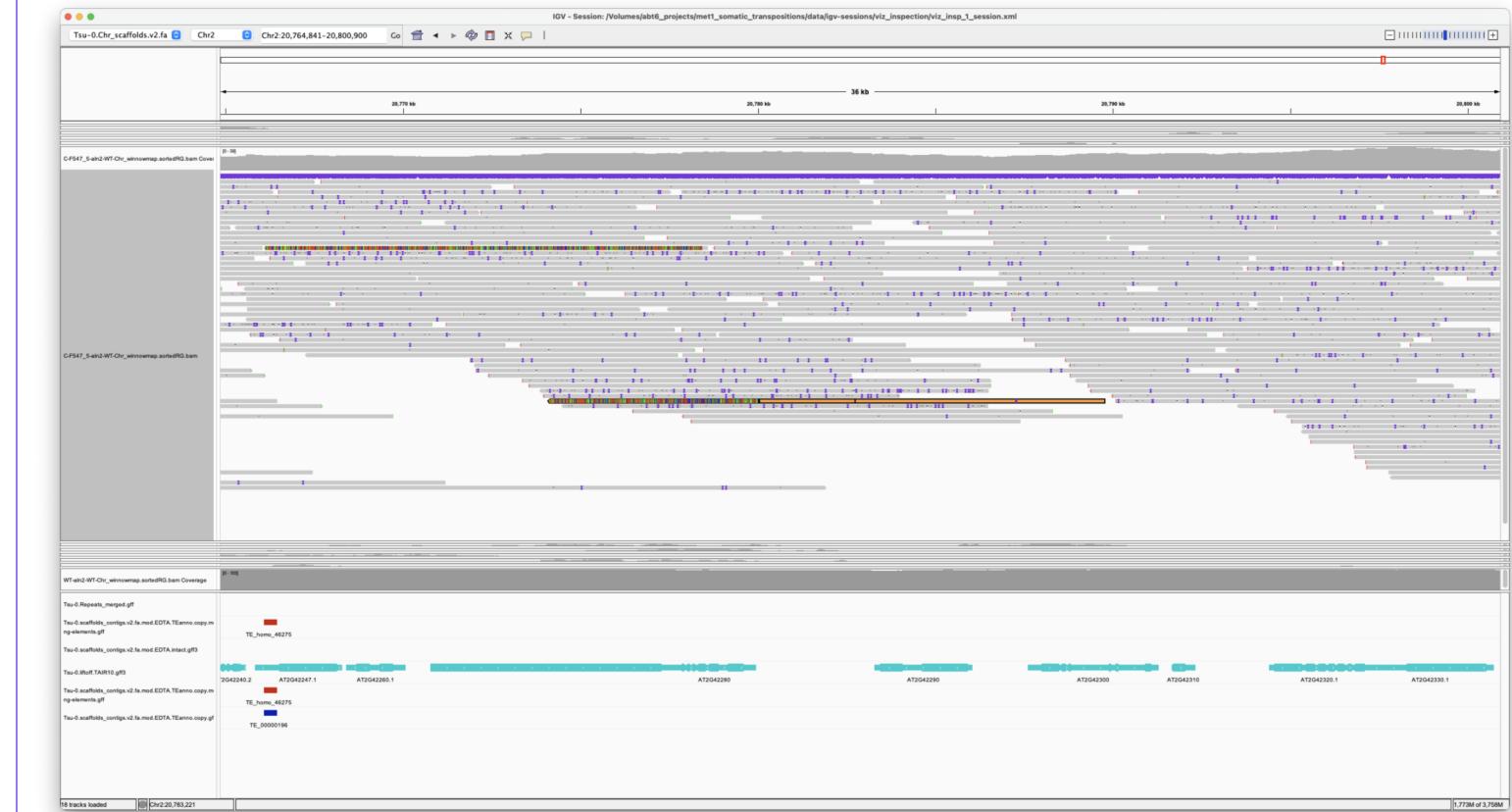
Confirmed

Chr2 16316151 16316151 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/155387511/ccs met1_05



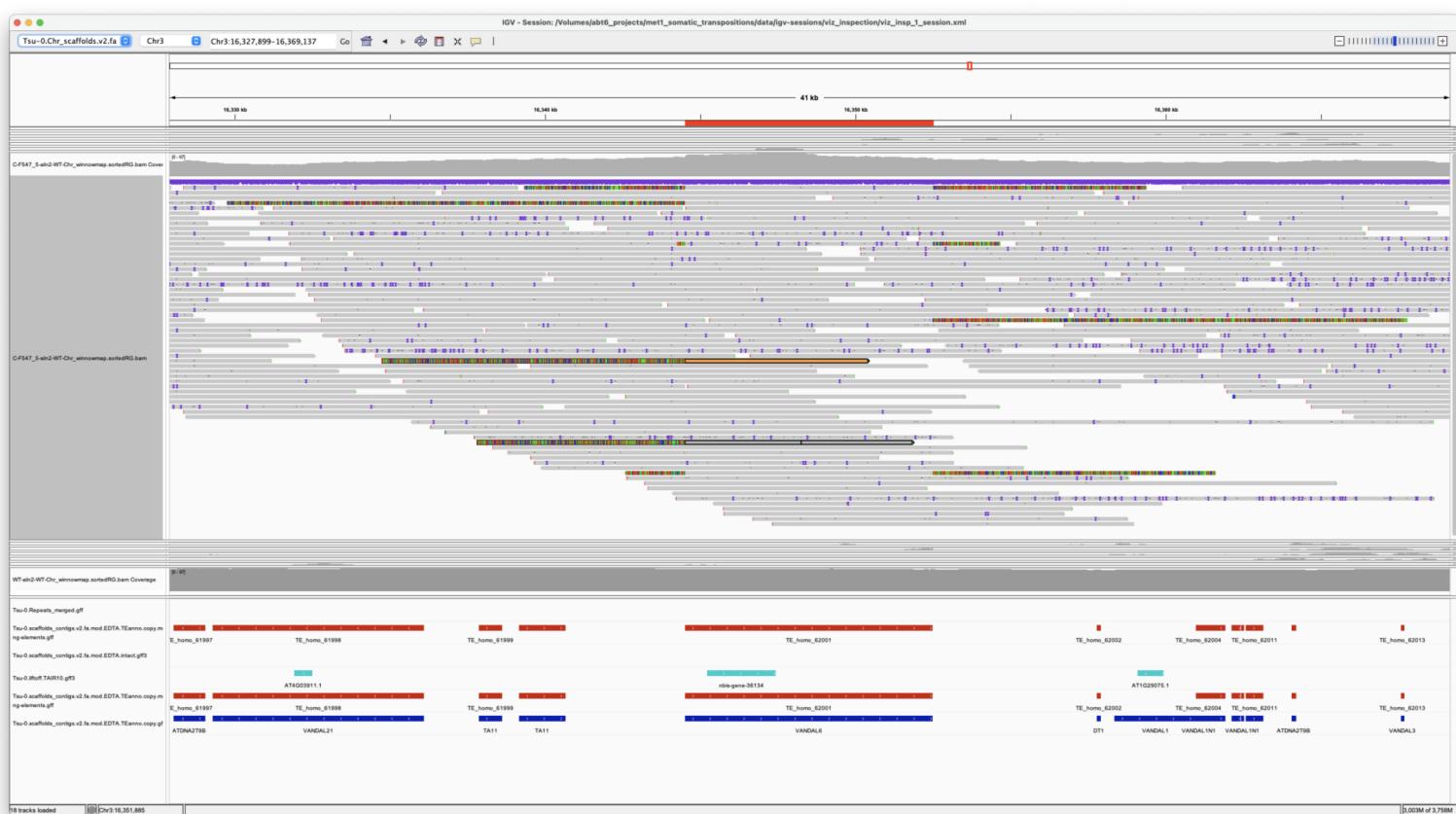
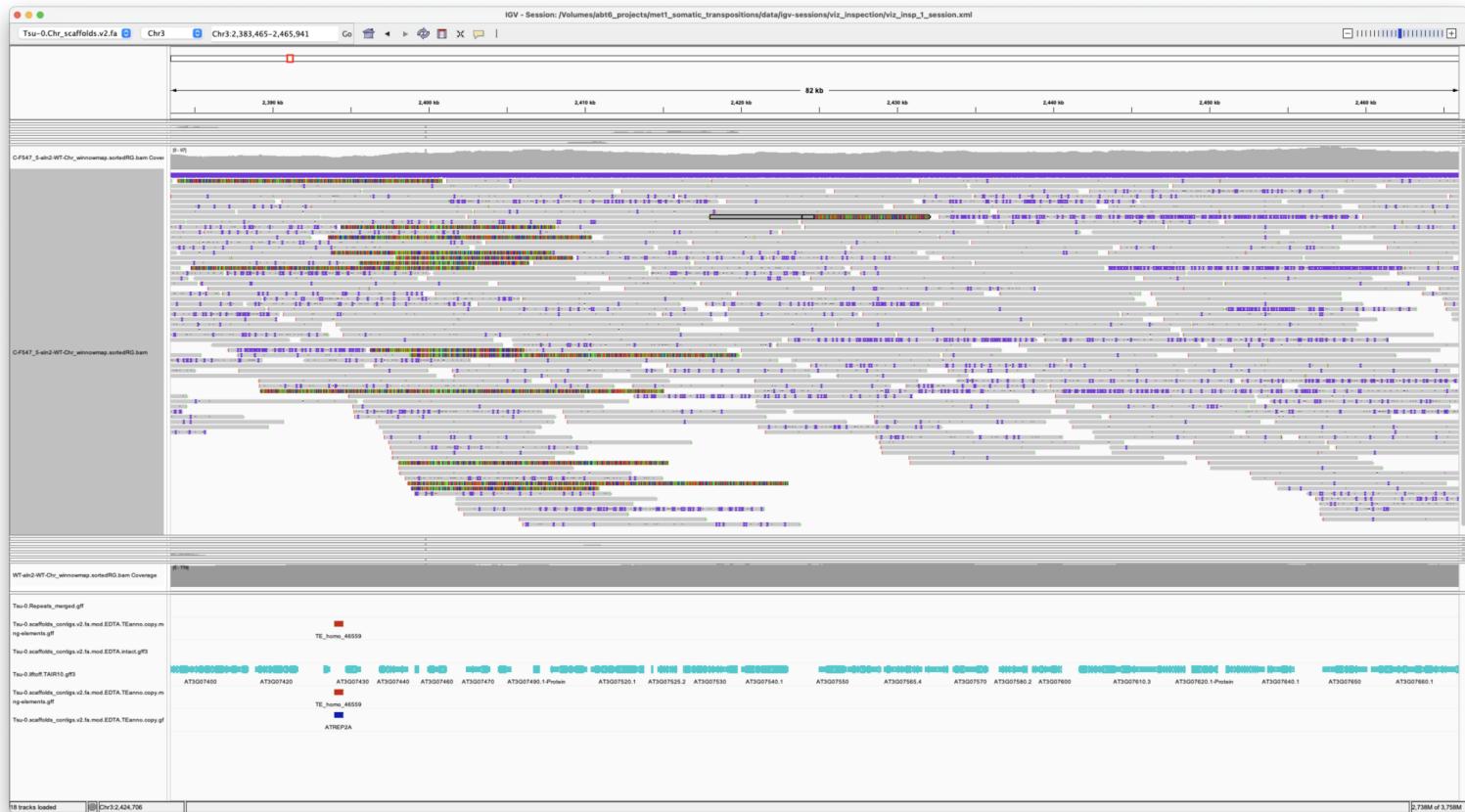
Partial

Confirmed



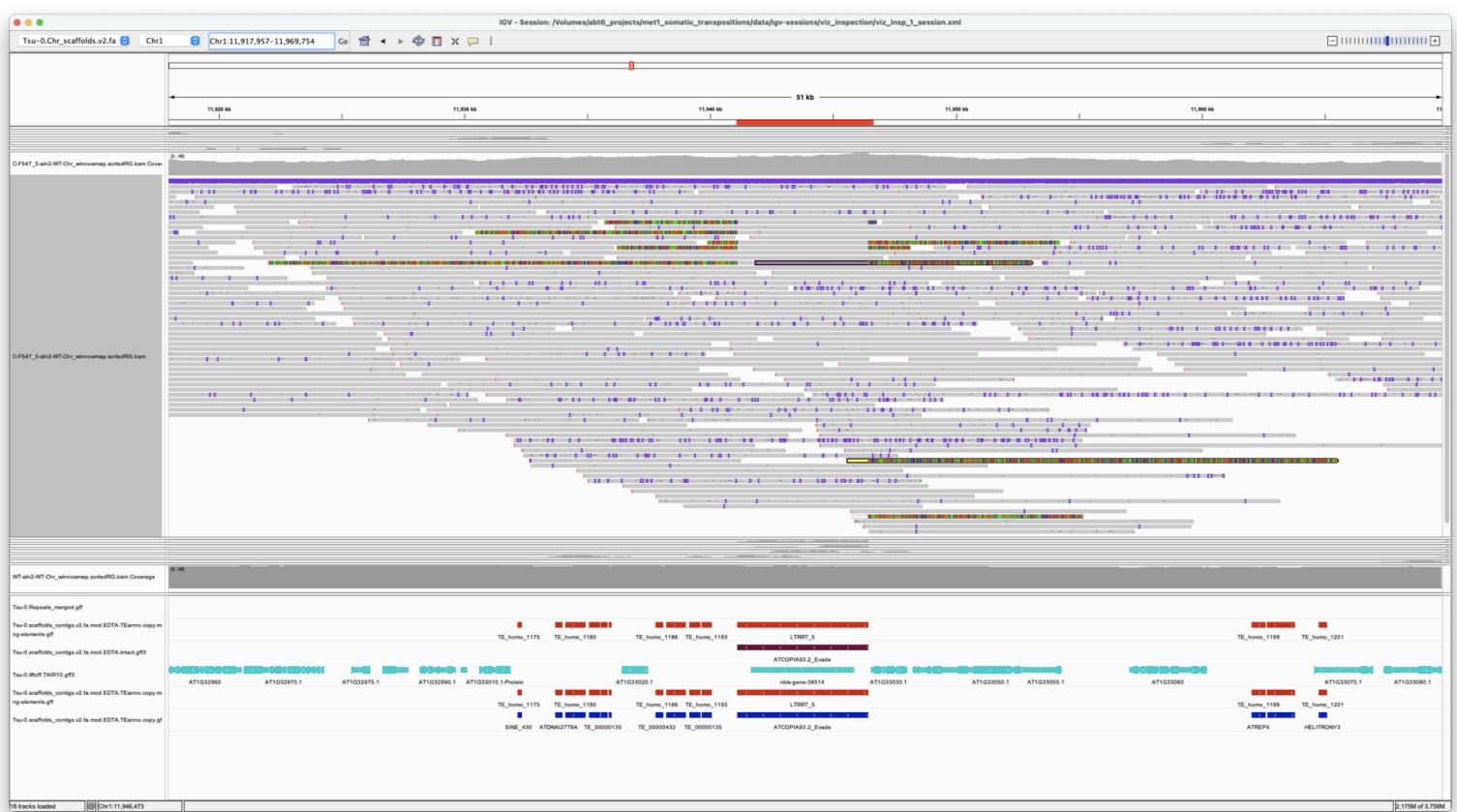
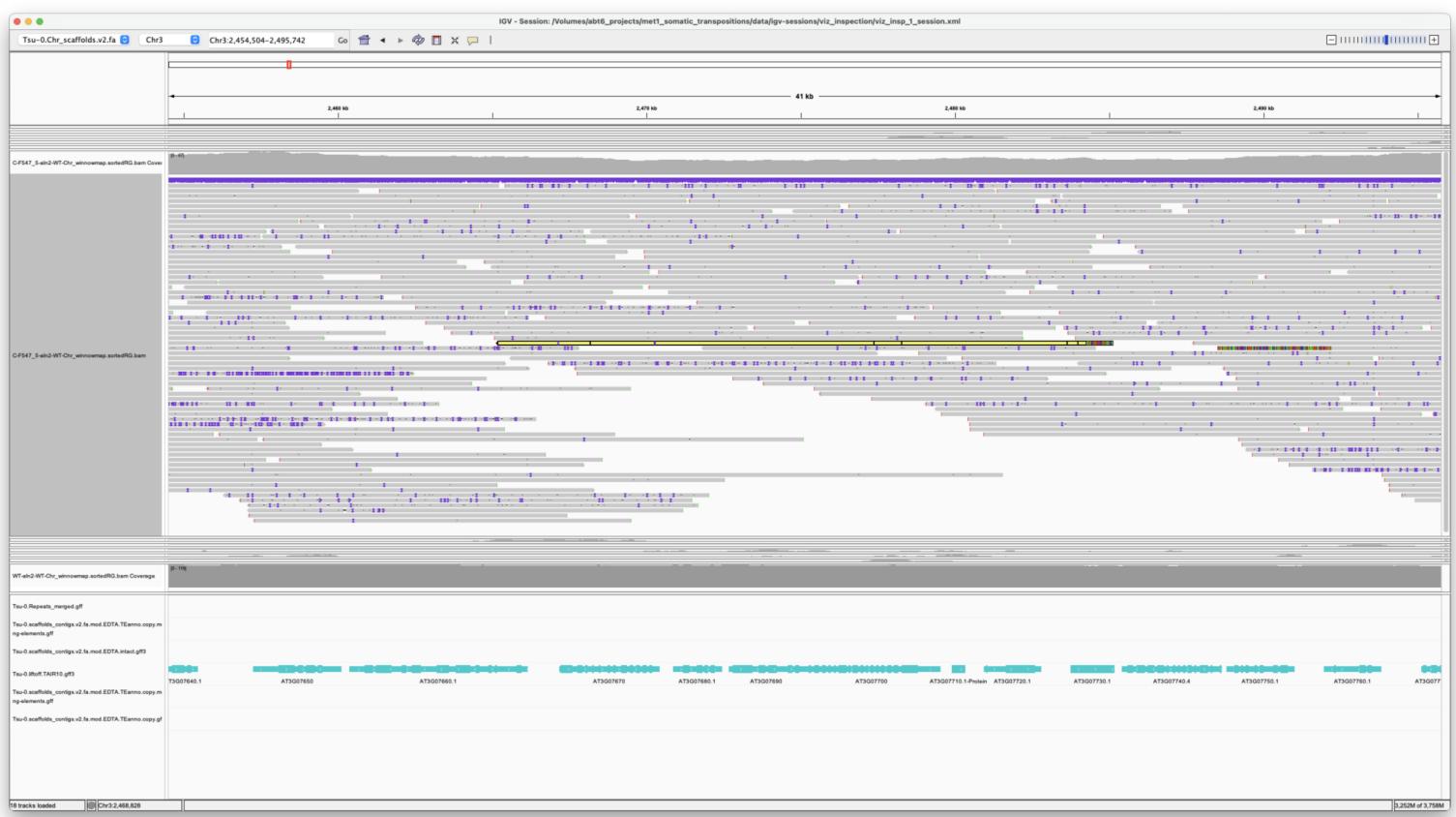
Partial

Confirmed



Partial

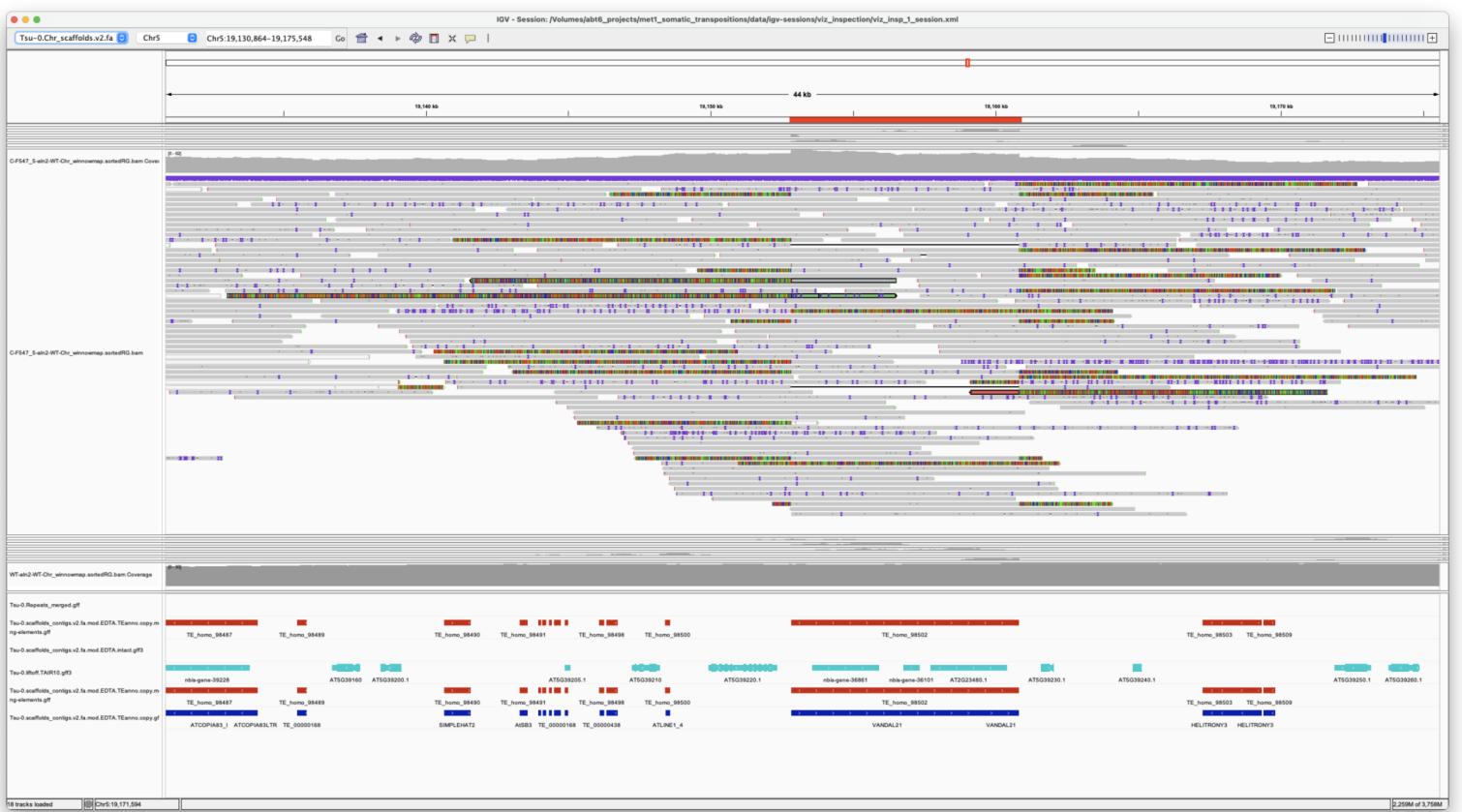
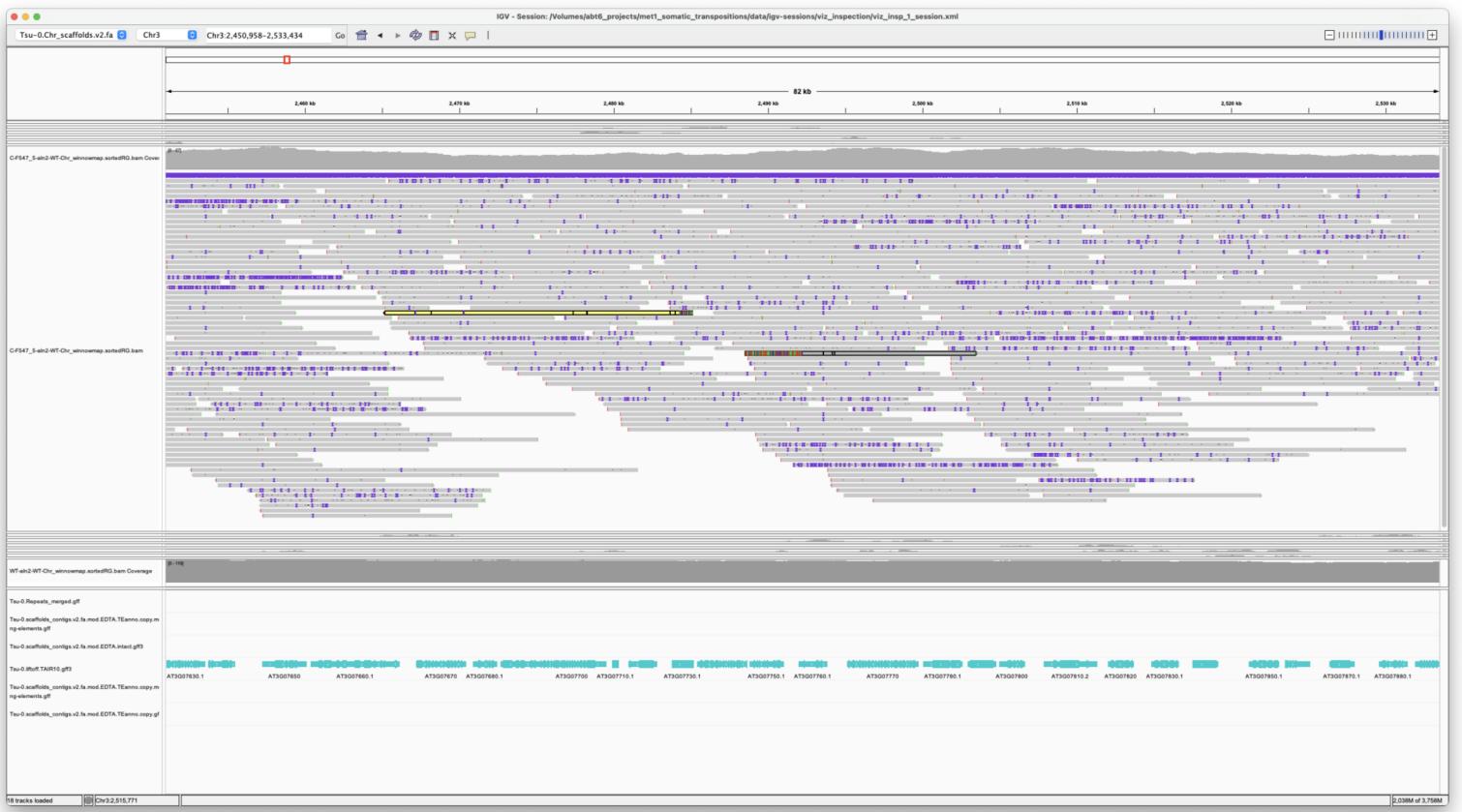
Confirmed



Partial

Confirmed

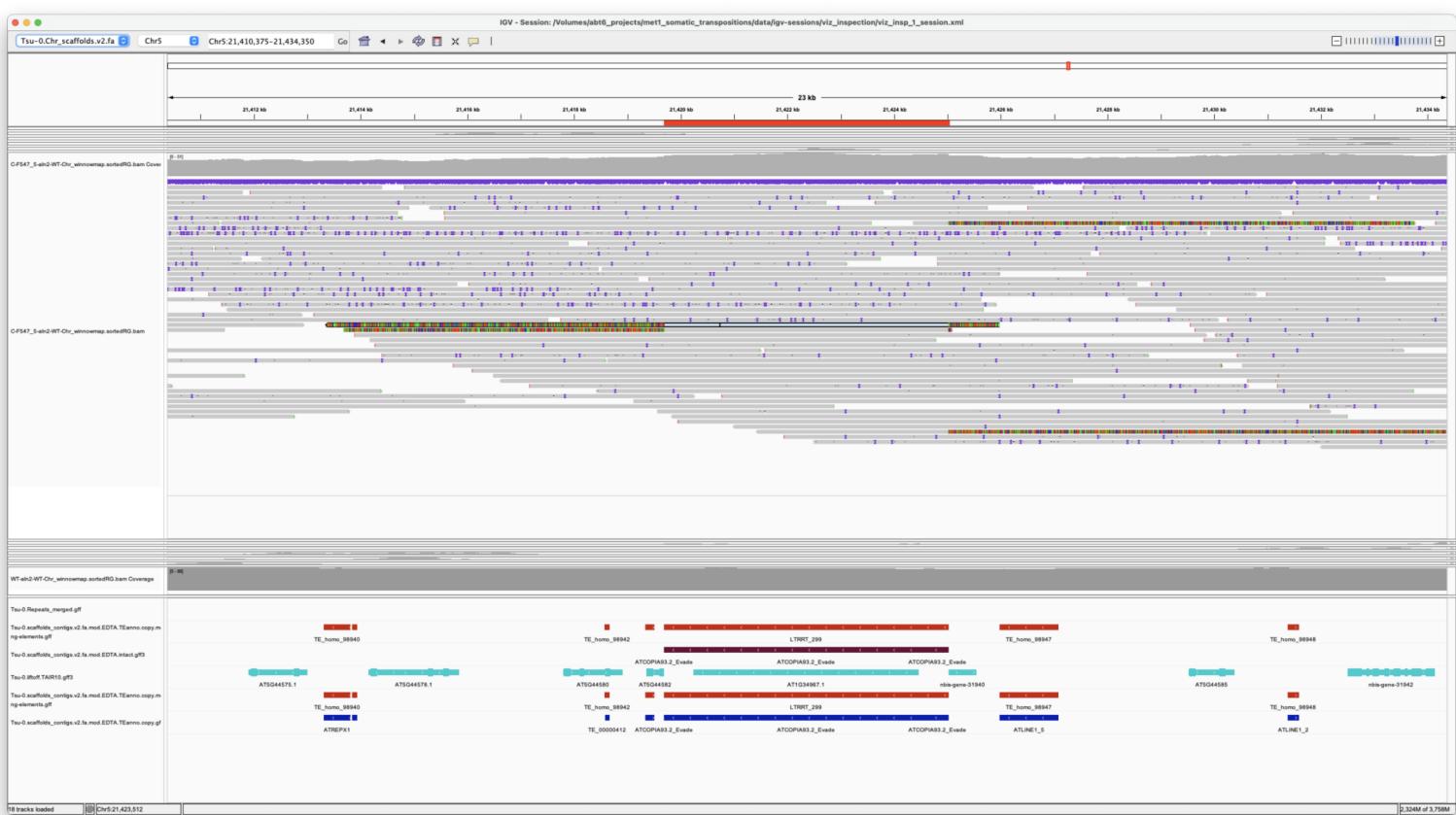
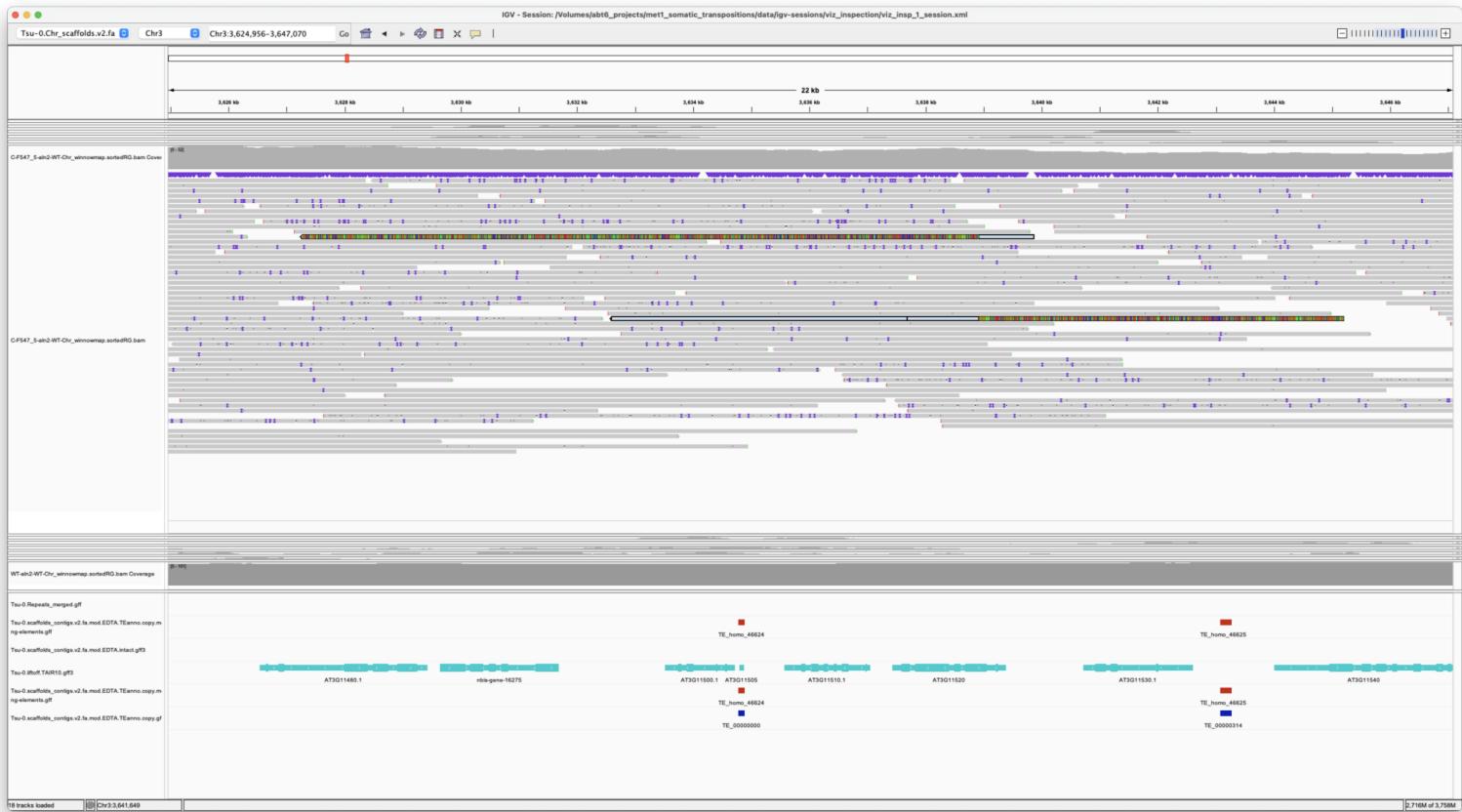
Chr3 2492197 2492197 - 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/115671051/ccs met1_05



Partial

Confirmed

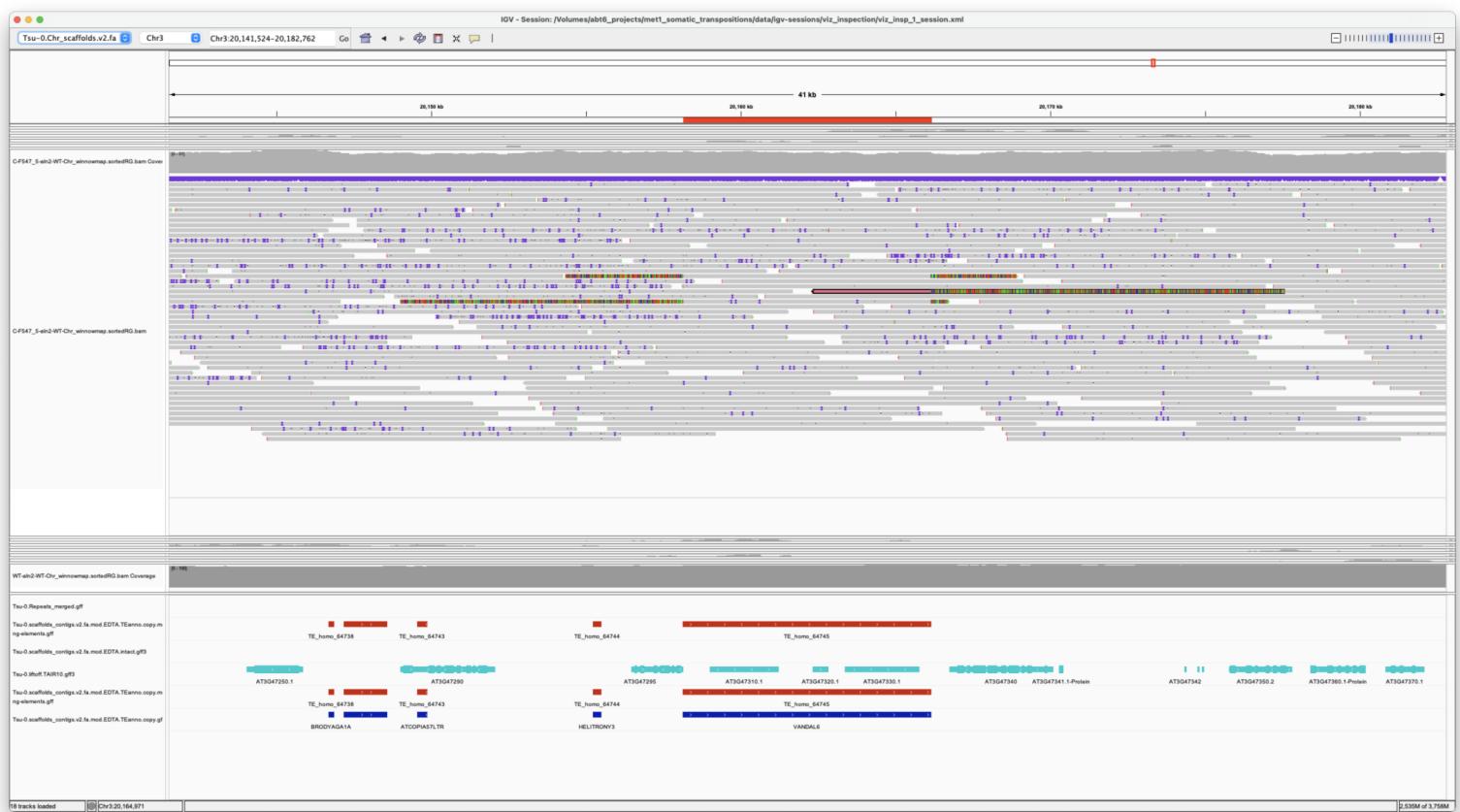
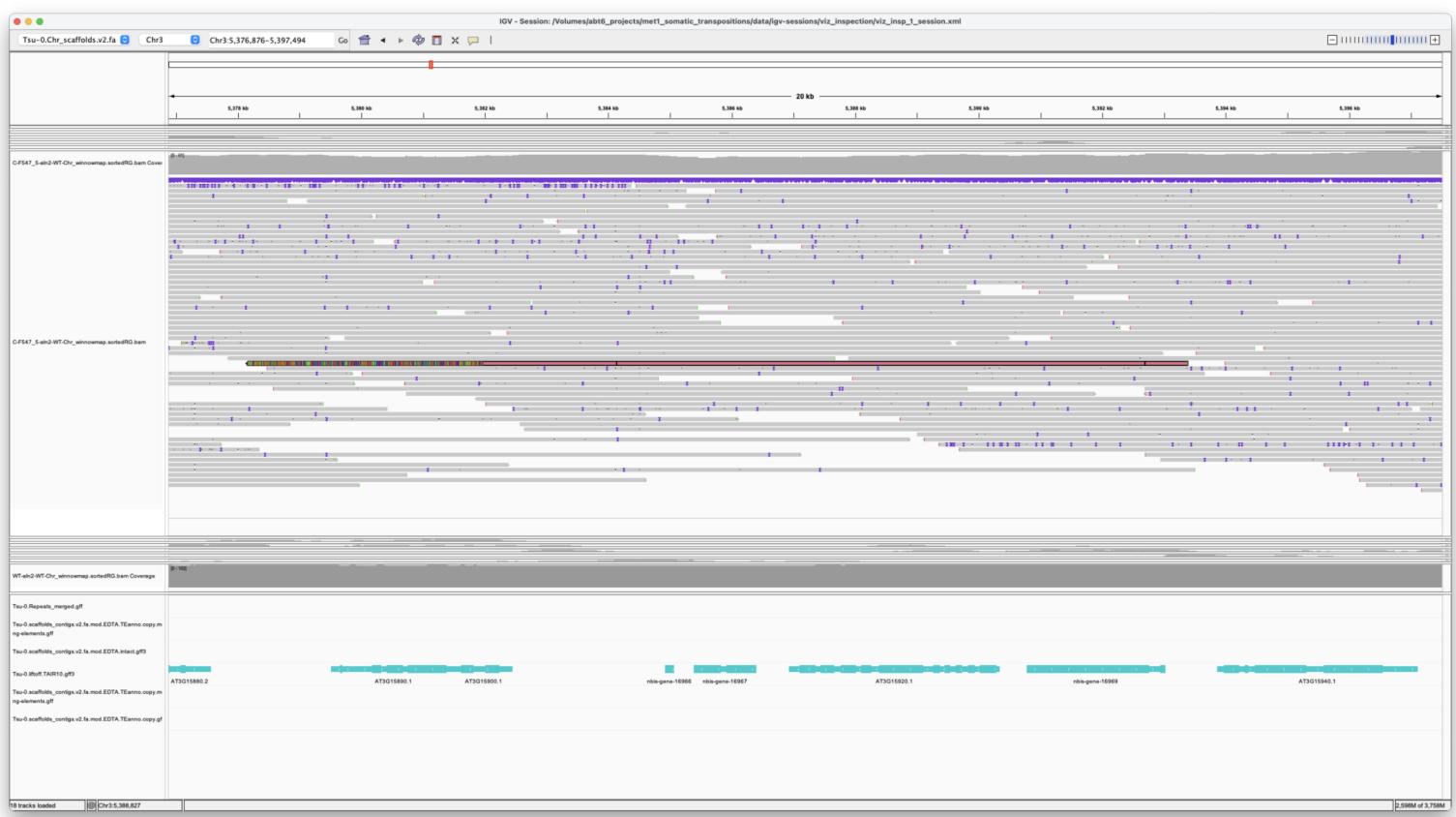
Chr3 3638915 3638915 + 1 Chr5:21419693,21425022;ATCOPIA93_Evade m64079_240212_113350/33423970/ccs met1_05



Central
TSD

Confirmed

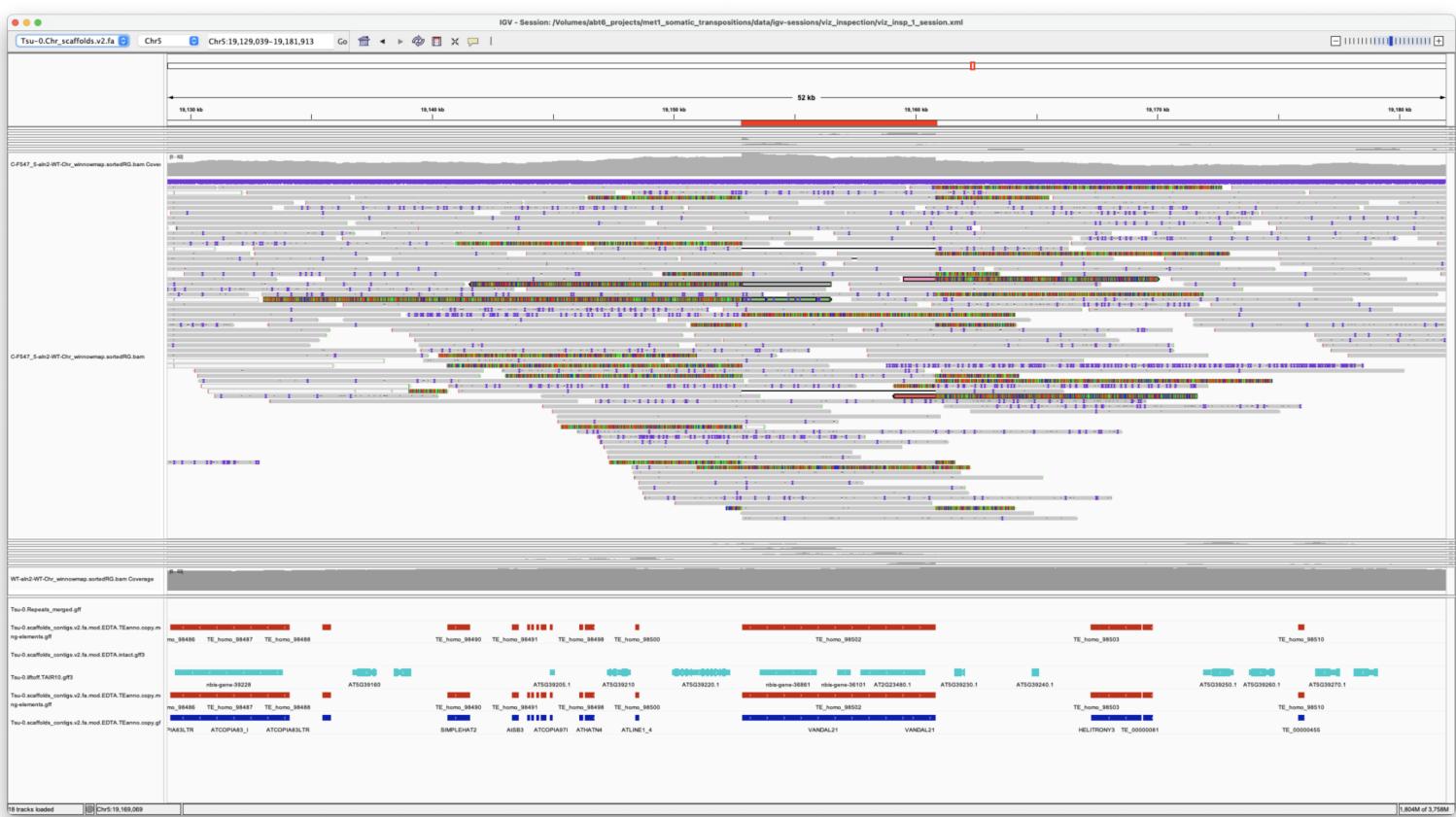
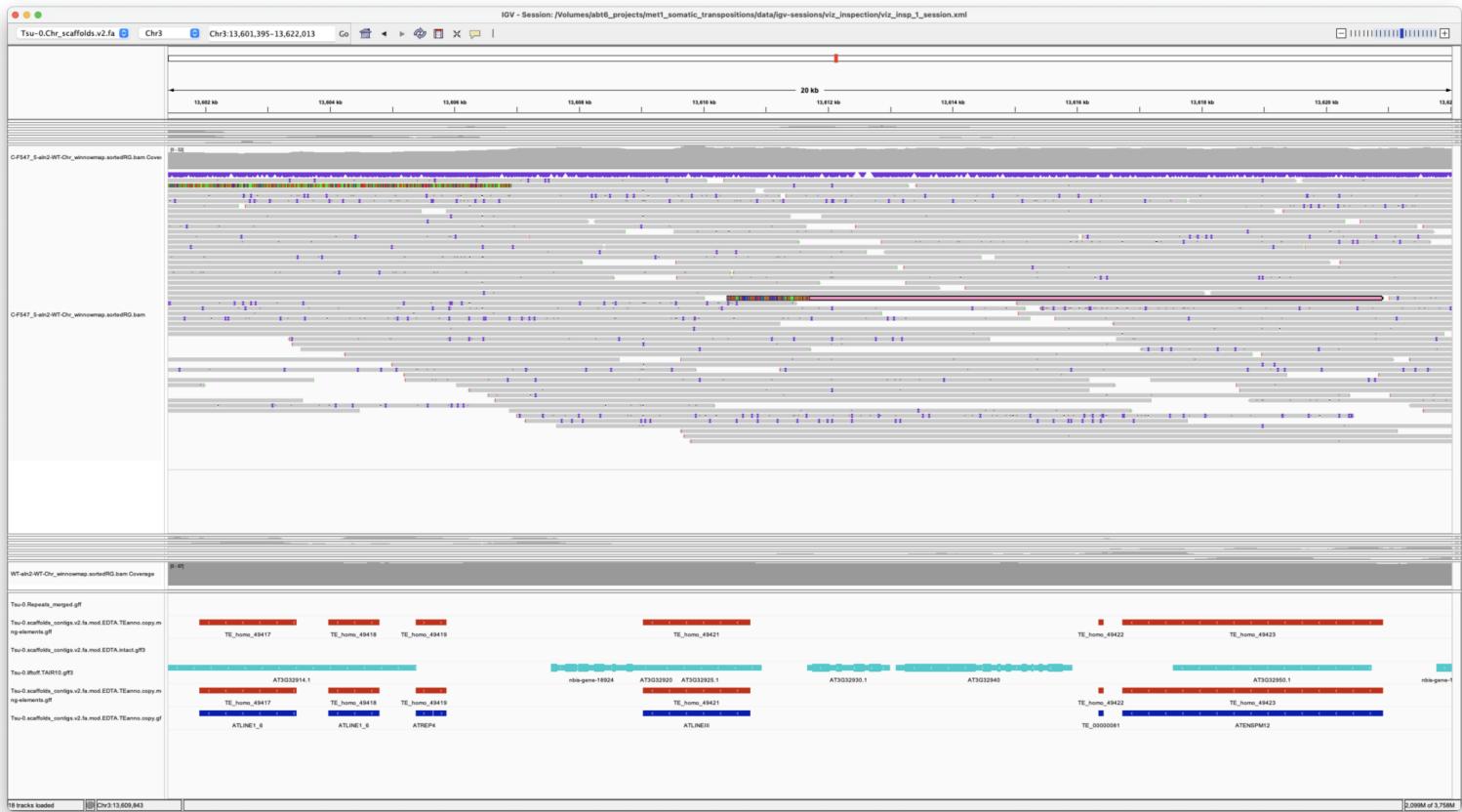
Chr3 5381967 5381967 + 1 Chr3:20158137:20166150; VANDAL6 m64079_221220_112036/173738151/ccs met1_05



Partial

Confirmed

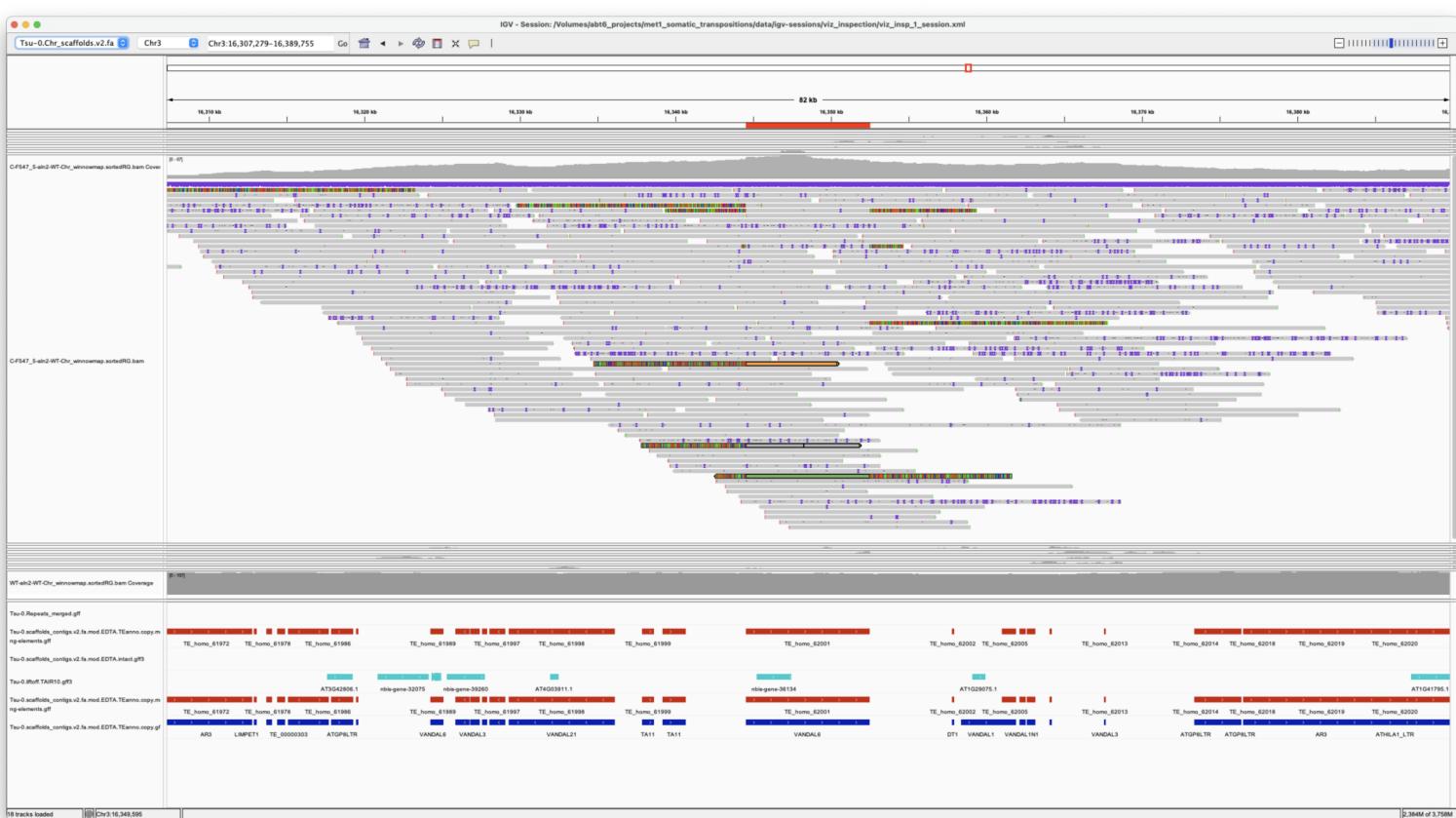
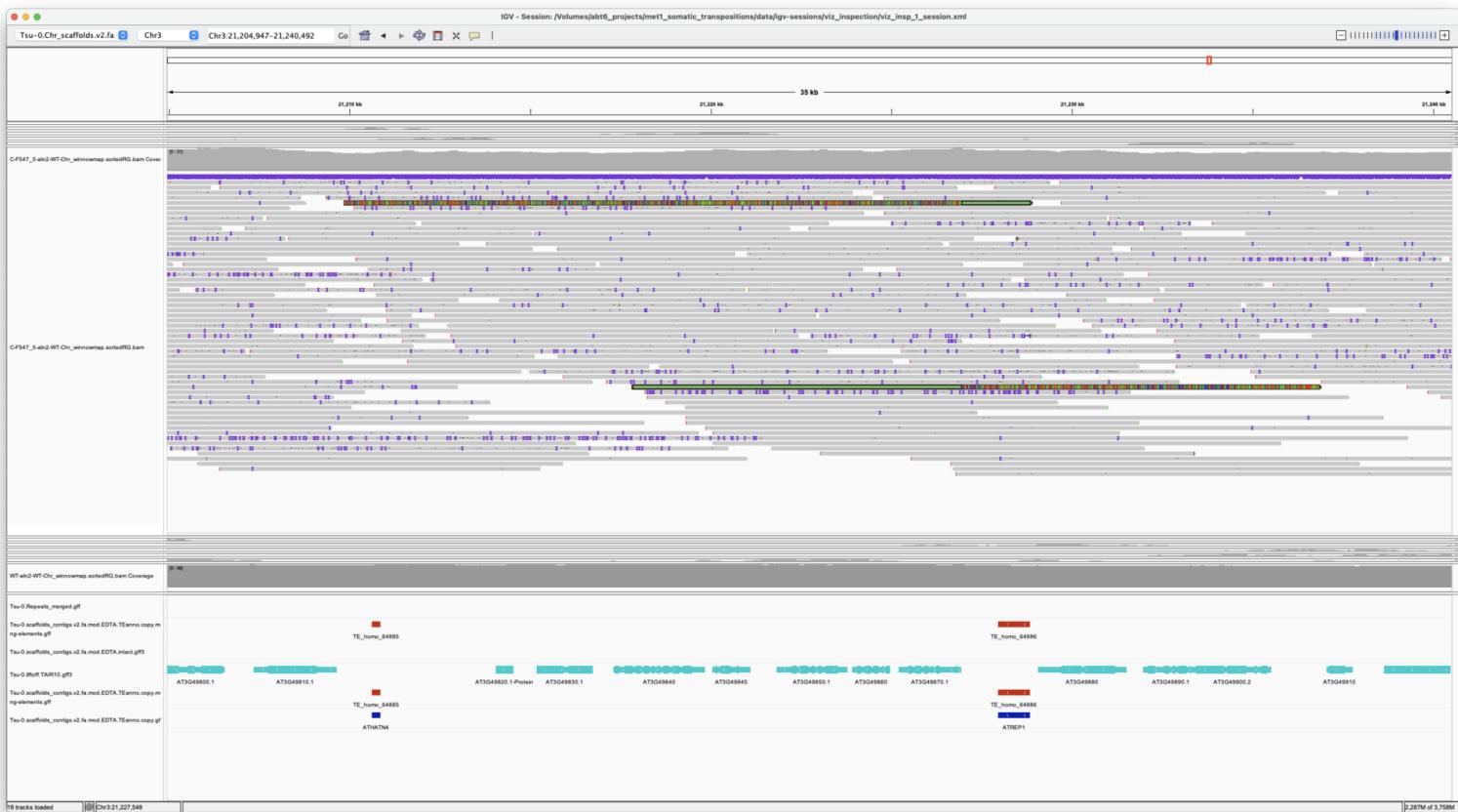
Chr3 13611705 13611705 + 1 Chr5;19152829;19160826;\VANDAL21 m64079_221220_112036/53084508/ccs met1_05



Partial

Confirmed

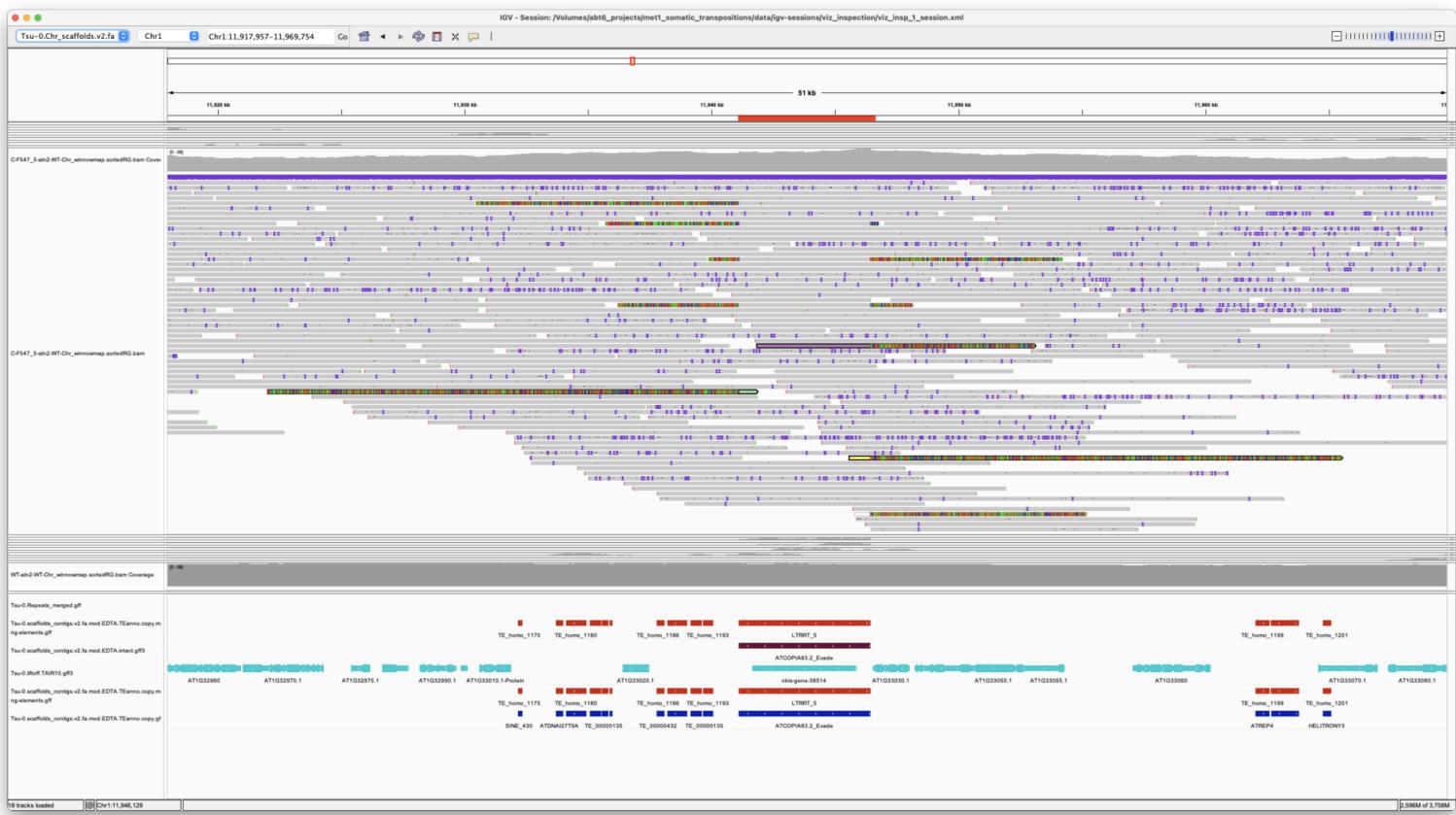
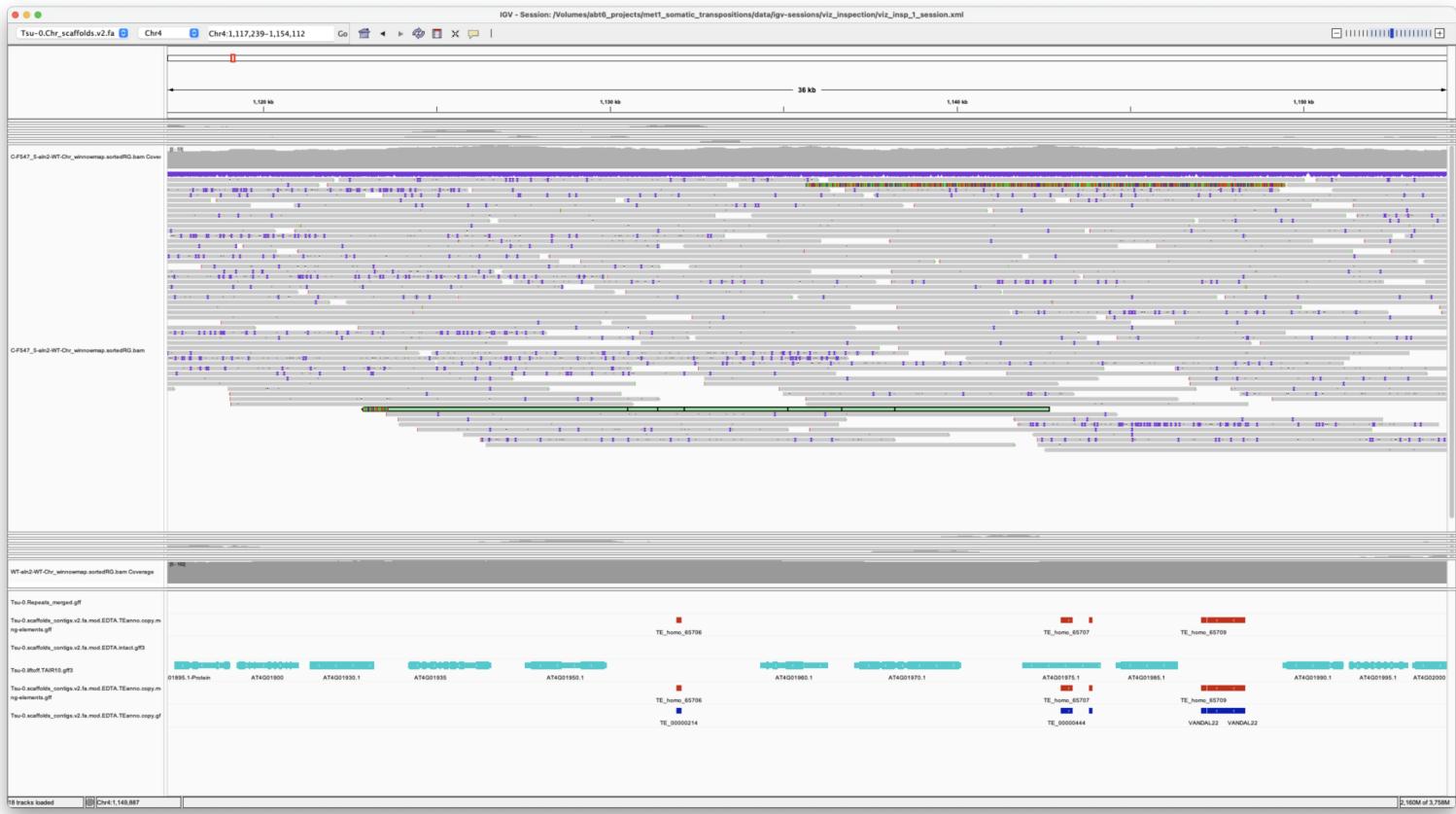
Chr3 21226953 21226953 + 1 Chr3;16344522;16352497;VANDALE6 m64079_221220_112036/133432670/ccs met1_05



Central
TSD

Confirmed

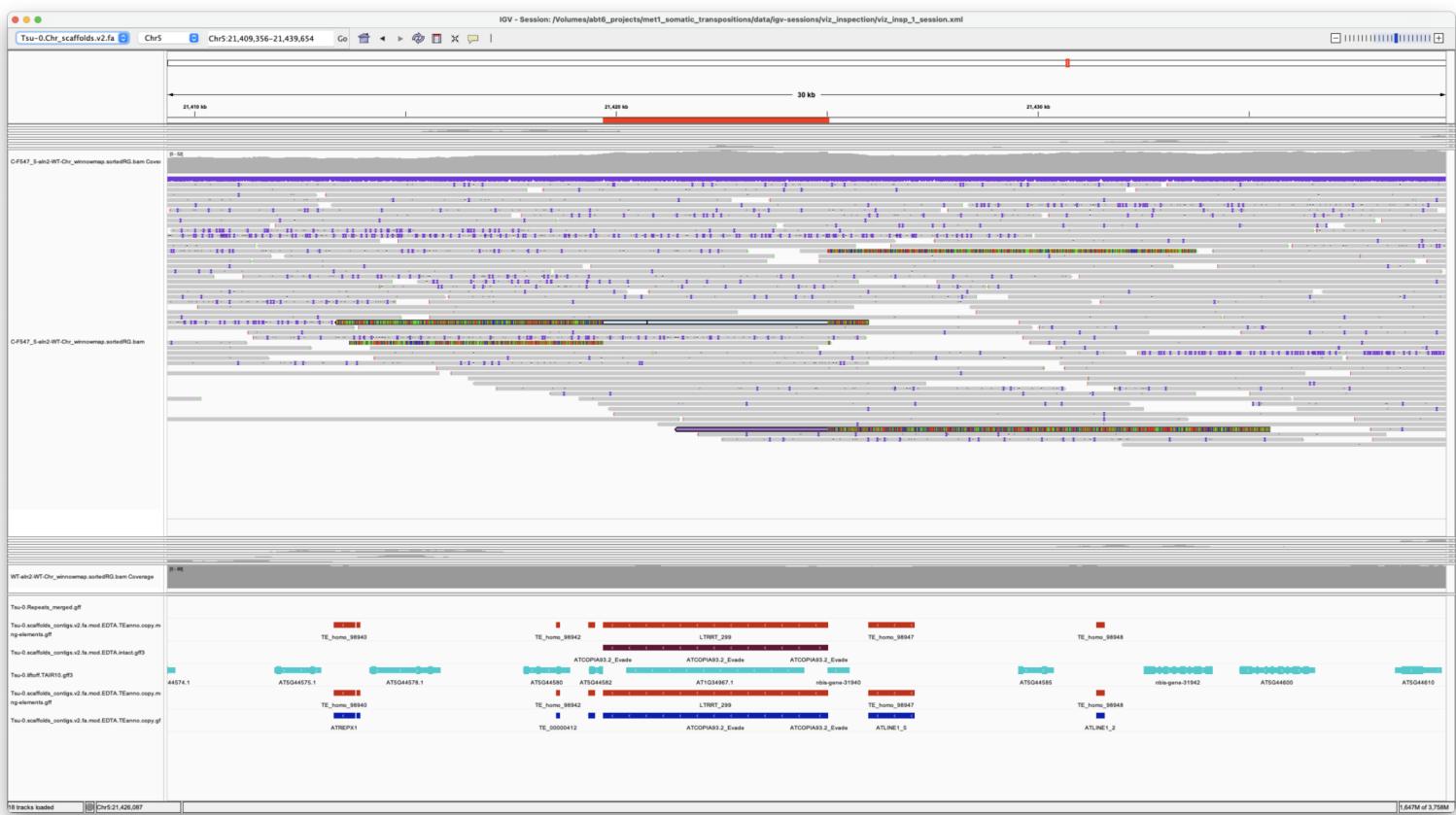
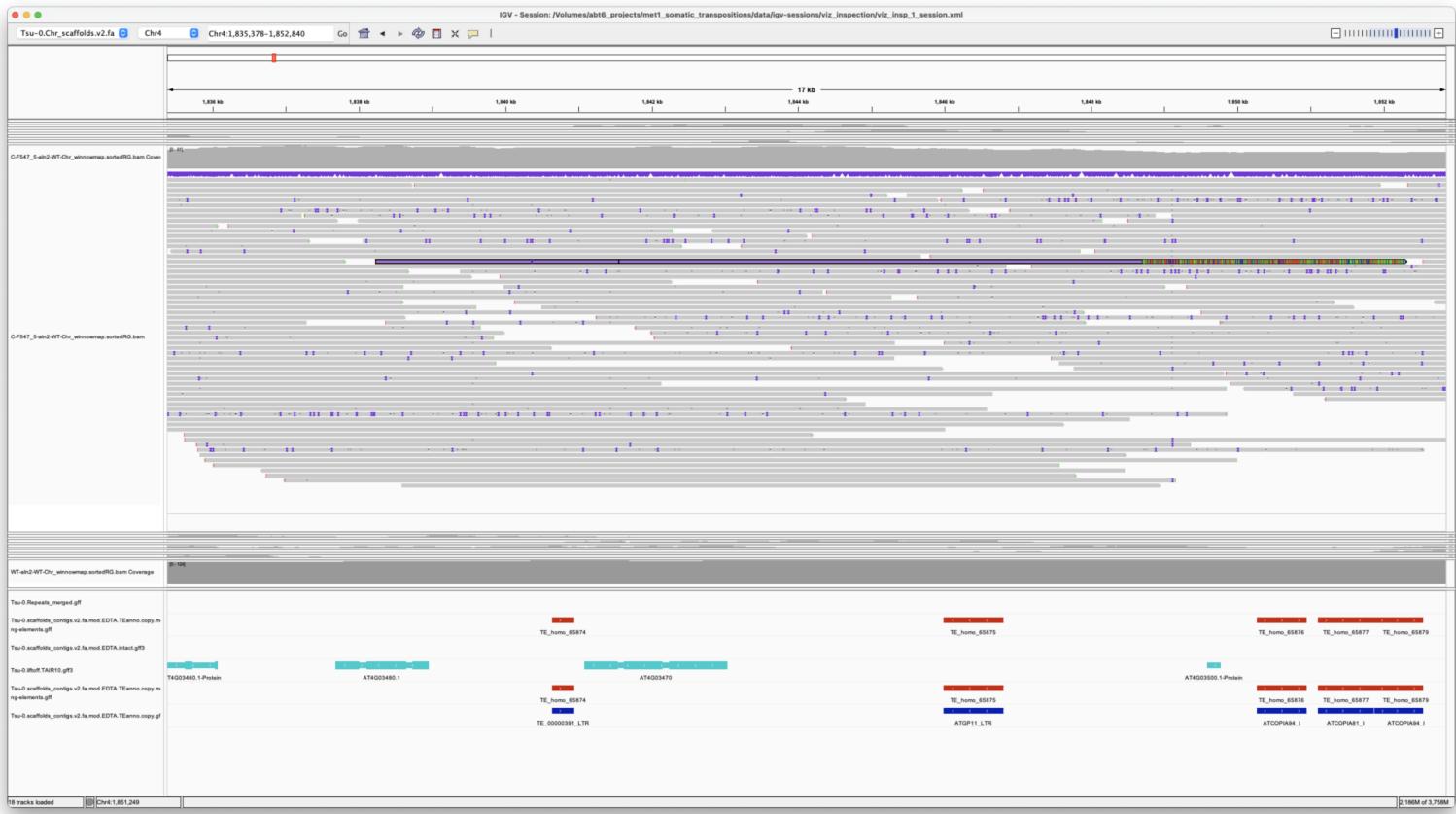
Chr4 1123607 1123607 - 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_240212_113350/8193103/ccs met1_05



Partial

Confirmed

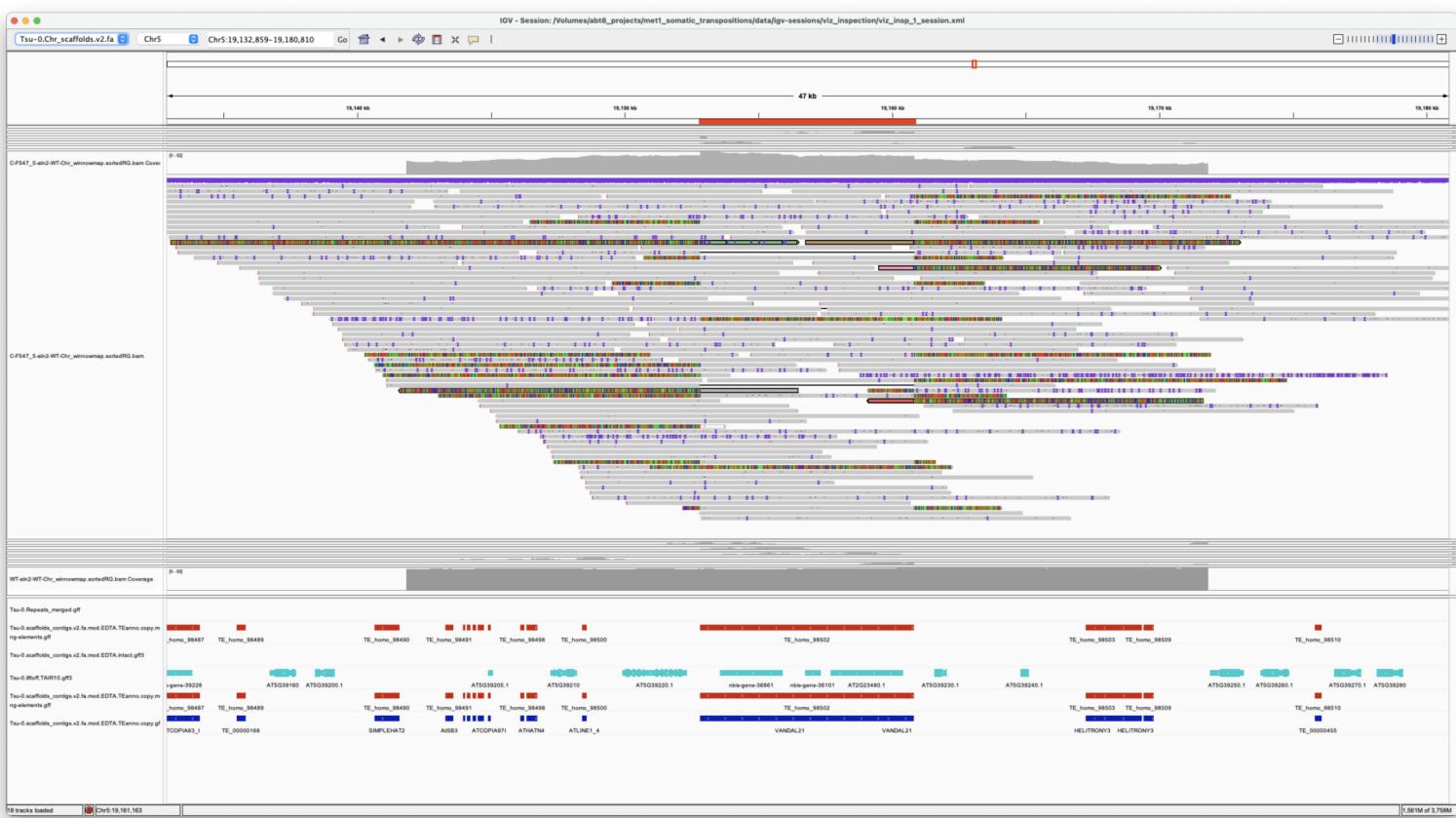
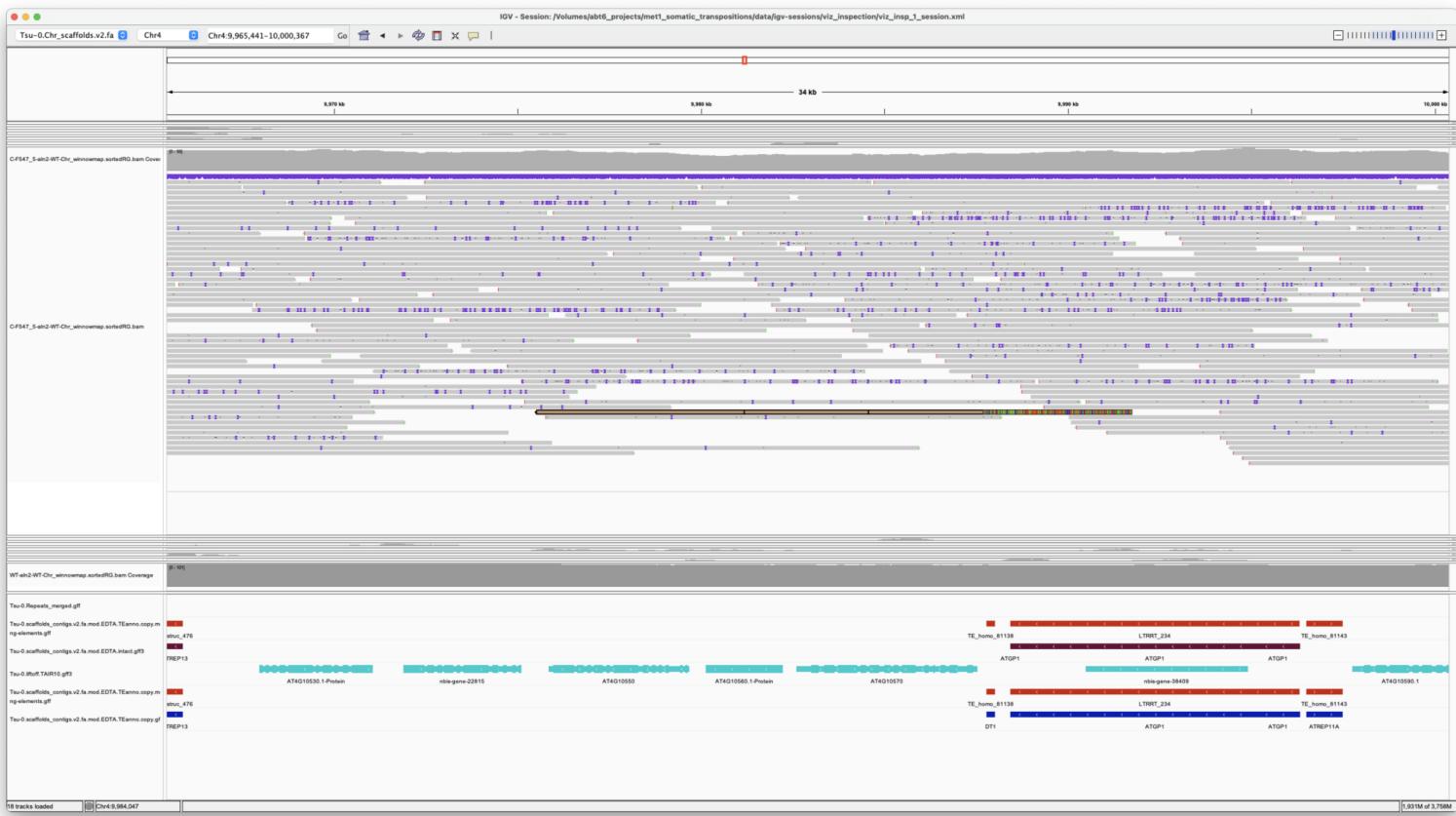
Chr4 1848707 1848707 - 1 Chr5:21419693;21425022;ATCOPIA93_Evade m64079_240212_113350/110233096/ccs met1_05



Partial

Confirmed

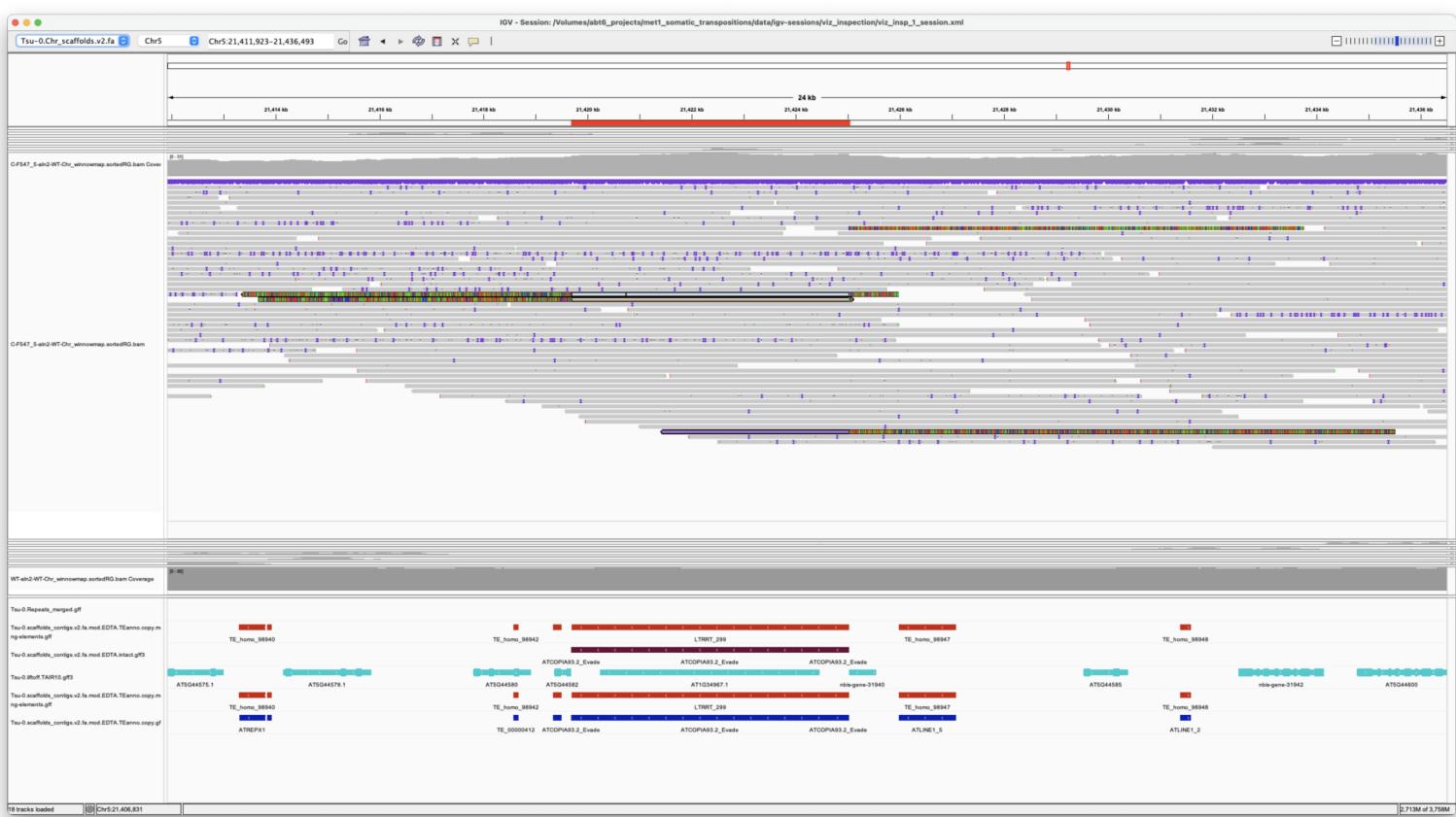
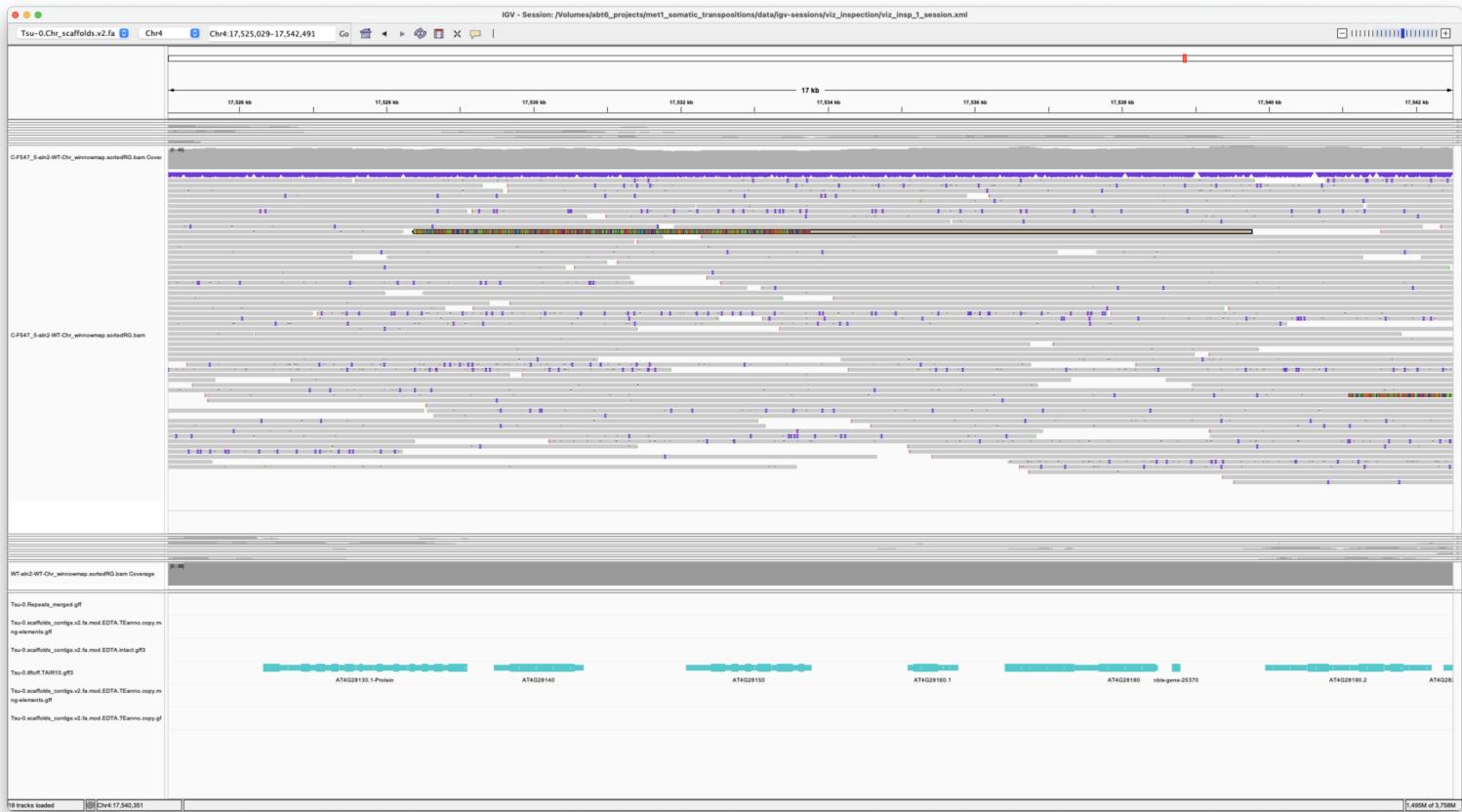
Chr4 9987688 9987688 - 1 Chr5;19152829;19160826;VANDAL21 m64079_240212_113350/135333141/ccs met1_05



Partial

Confirmed

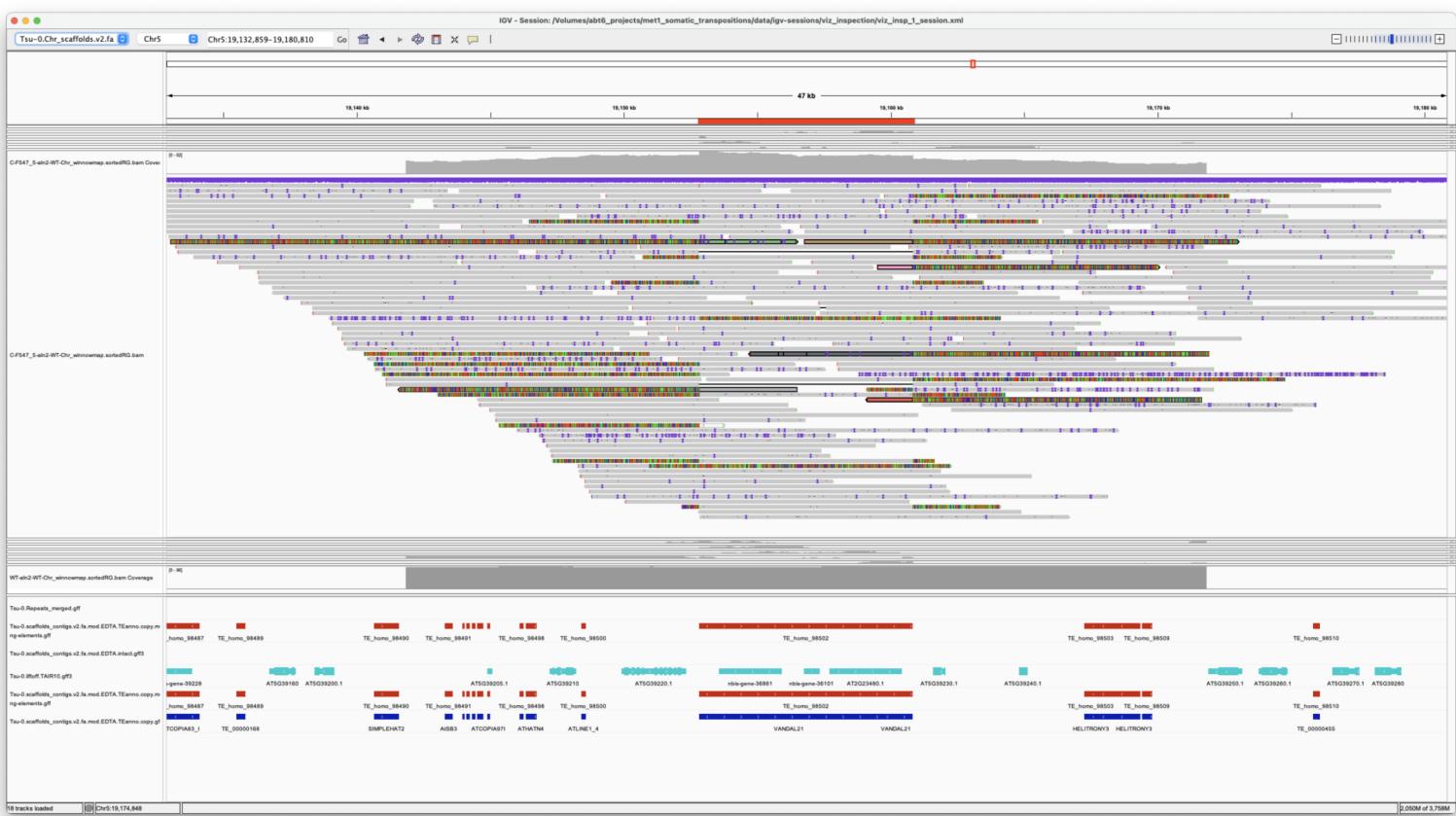
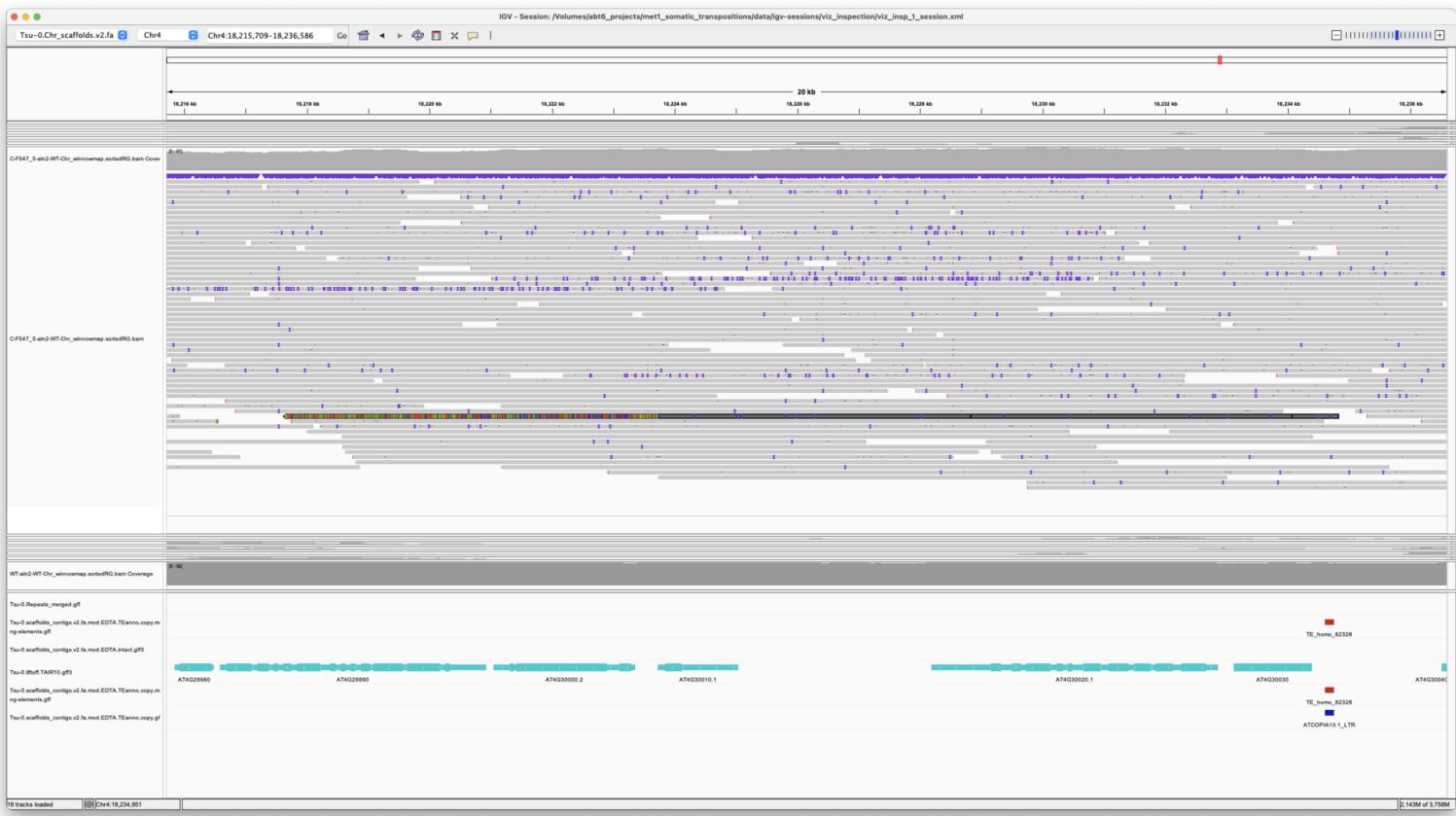
Chr4 17533761 17533761 - 1 Chr5:21419693;21425022;ATCOP1A93_Evade m64079_221220_112036/32049614/ccs met1_05



Partial

Confirmed

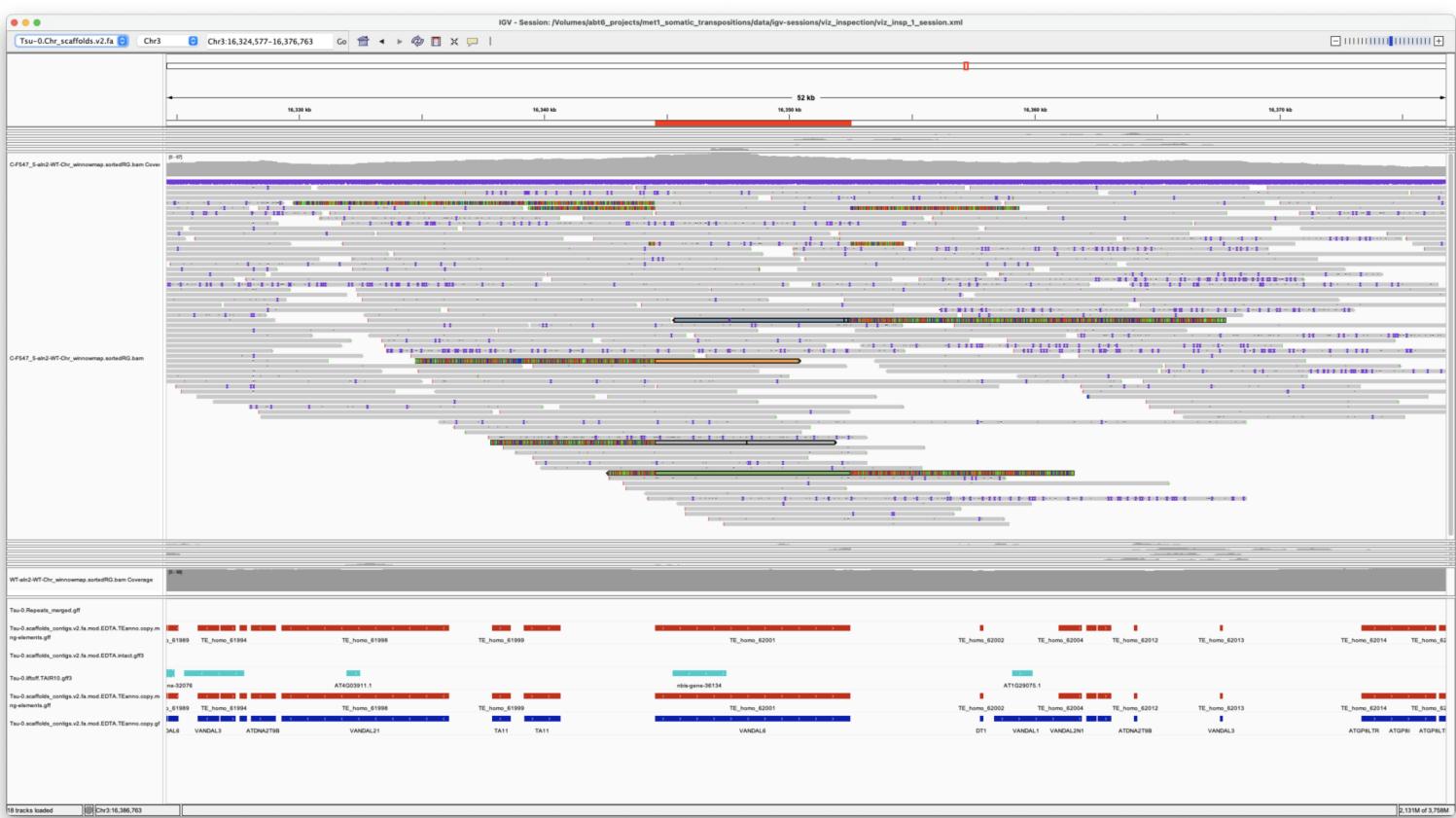
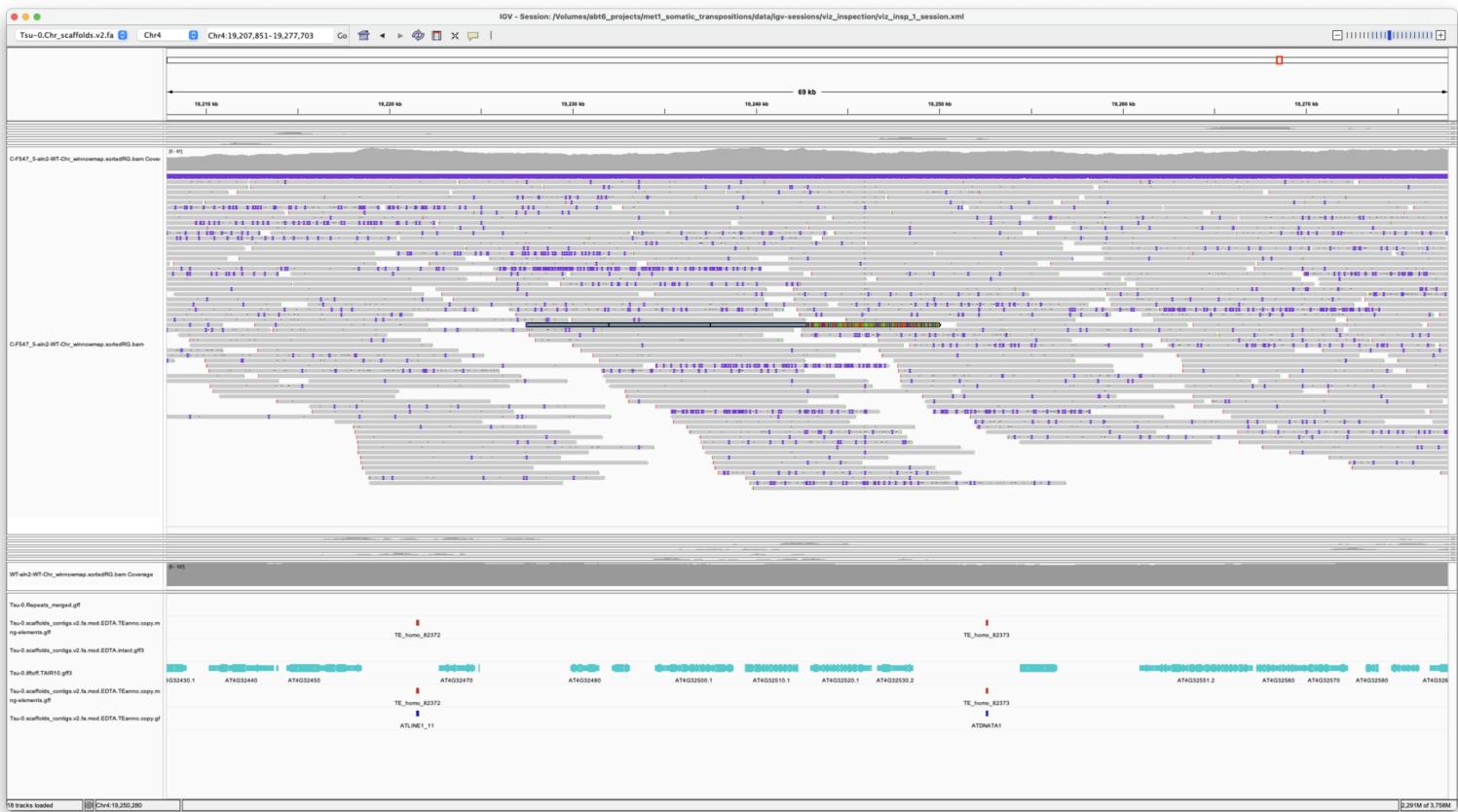
Chr4 18223745 18223745 + 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036/177211687/ccs met1_05



Partial

Confirmed

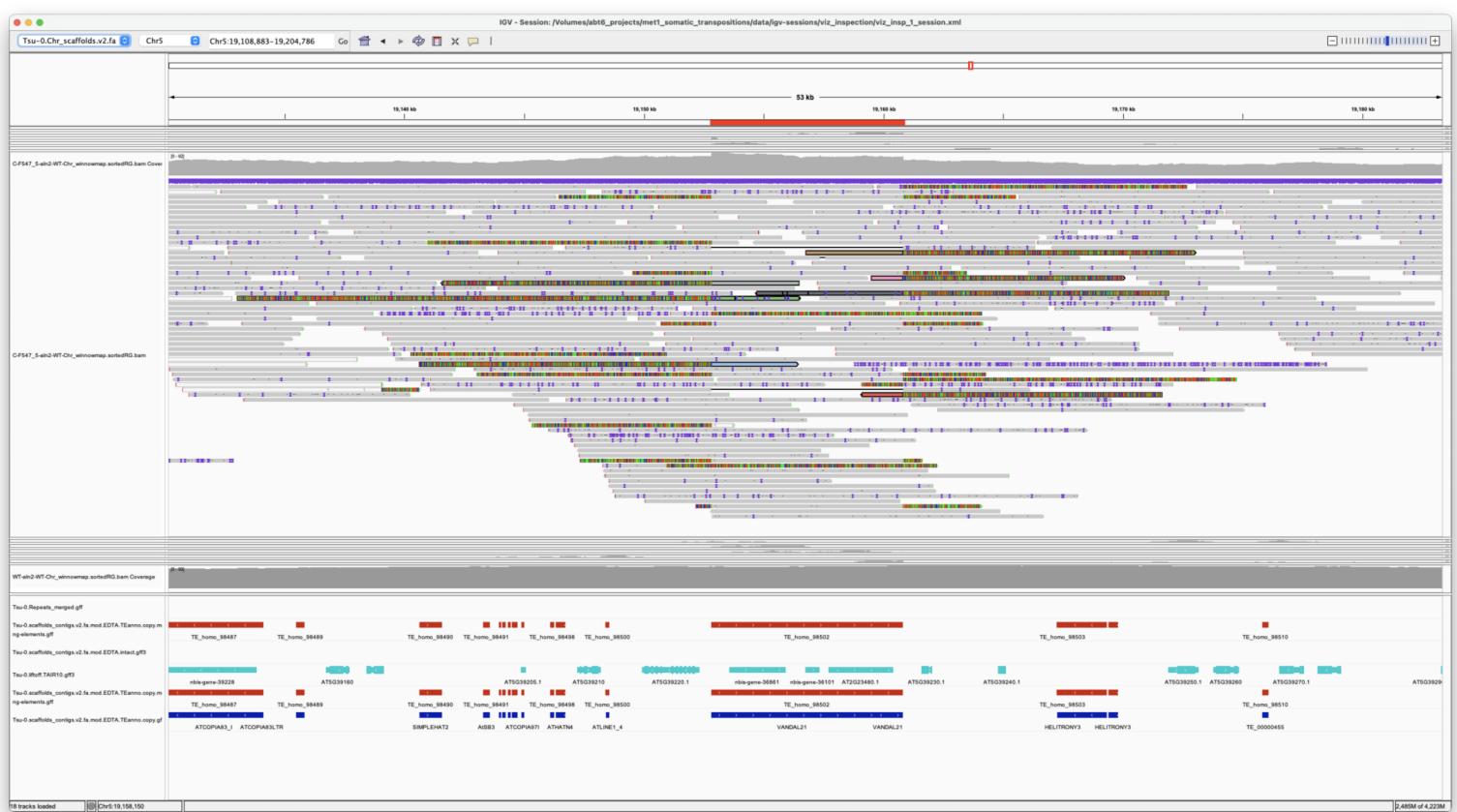
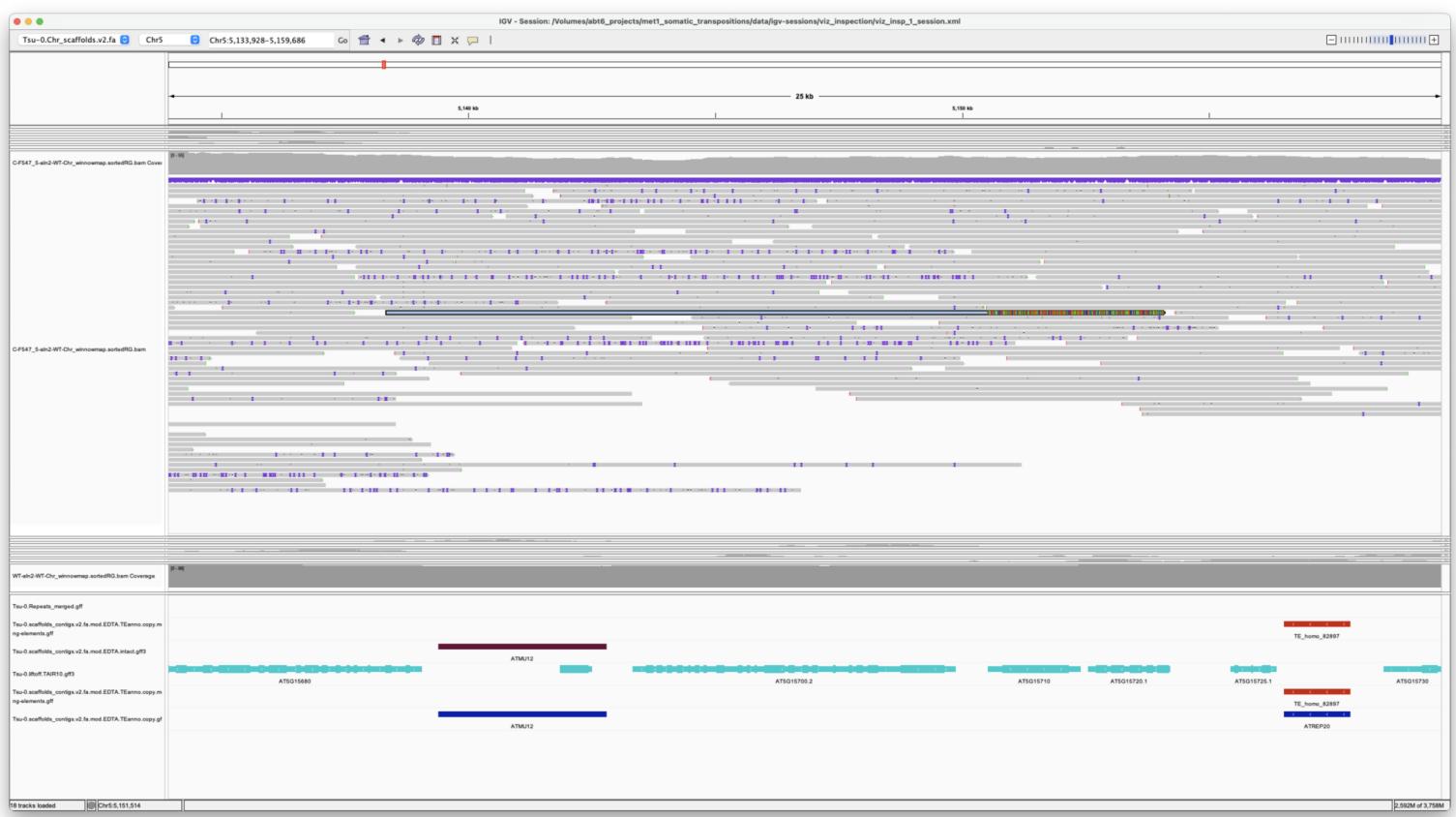
Chr4 19242778 19242778 - 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/132318972/ccs met1_05



Partial

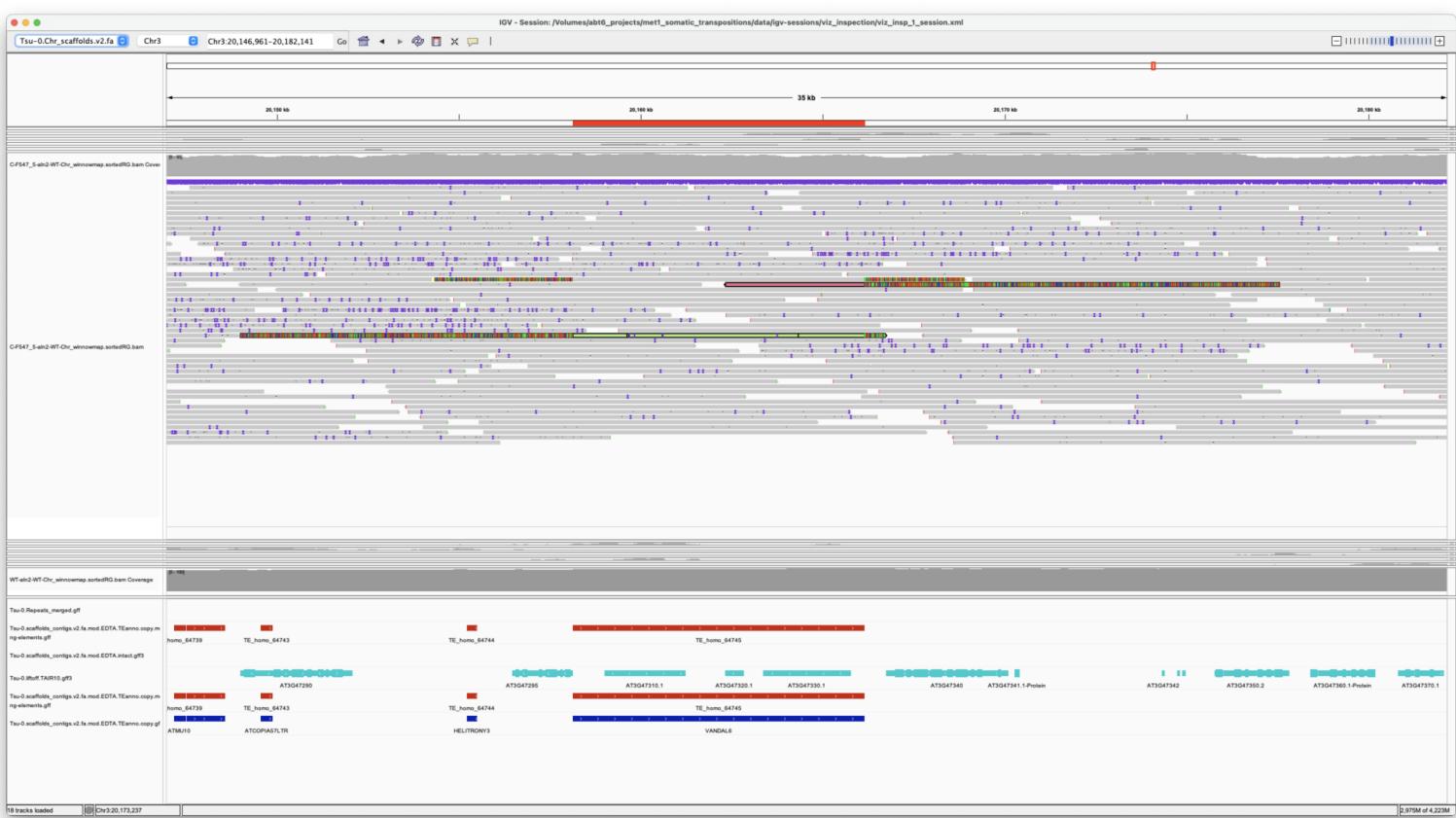
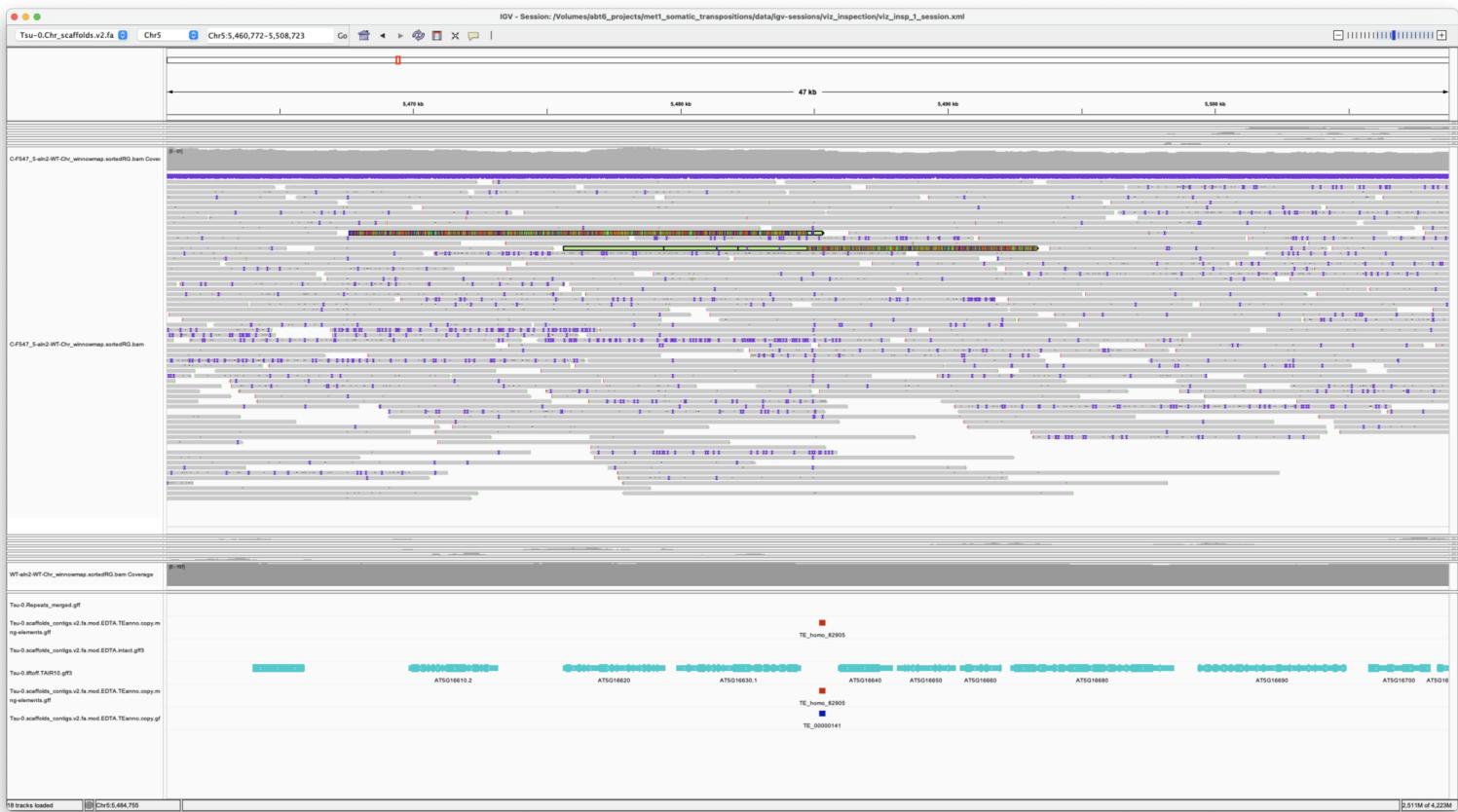
Confirmed

Chr5 5150522 5150522 + 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036/177080054/ccs met1_05



Partial

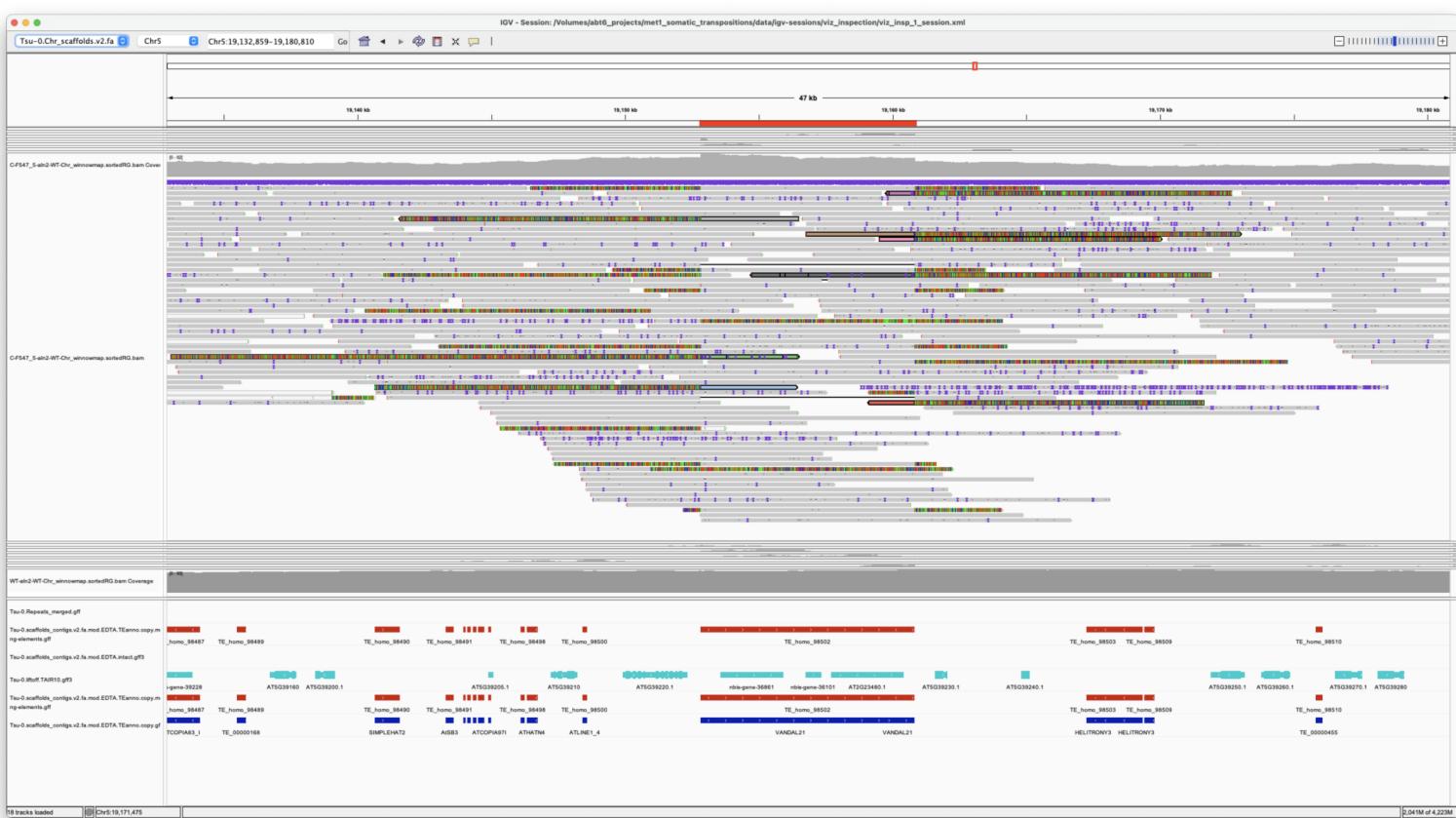
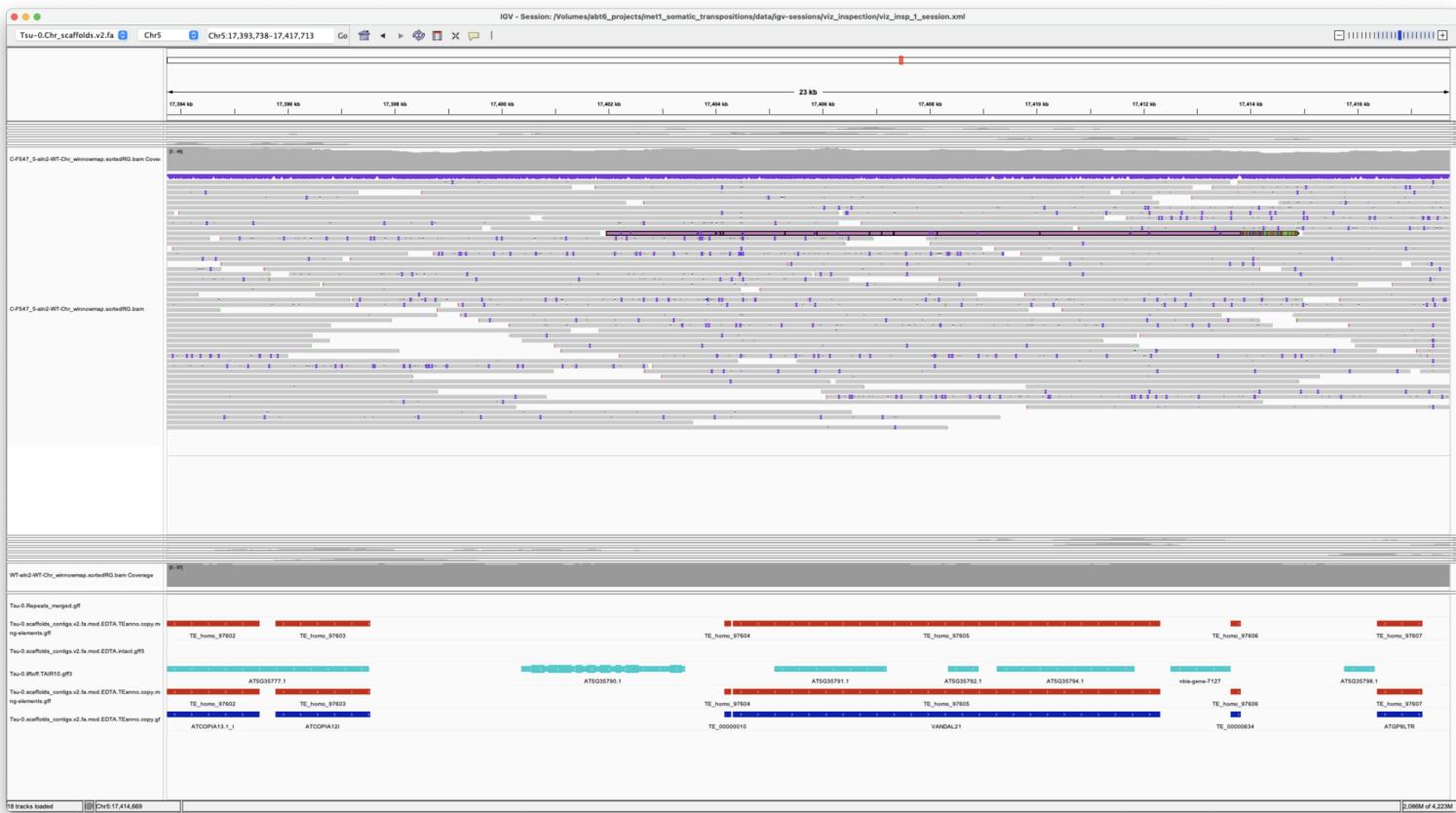
Confirmed



Central
TSD

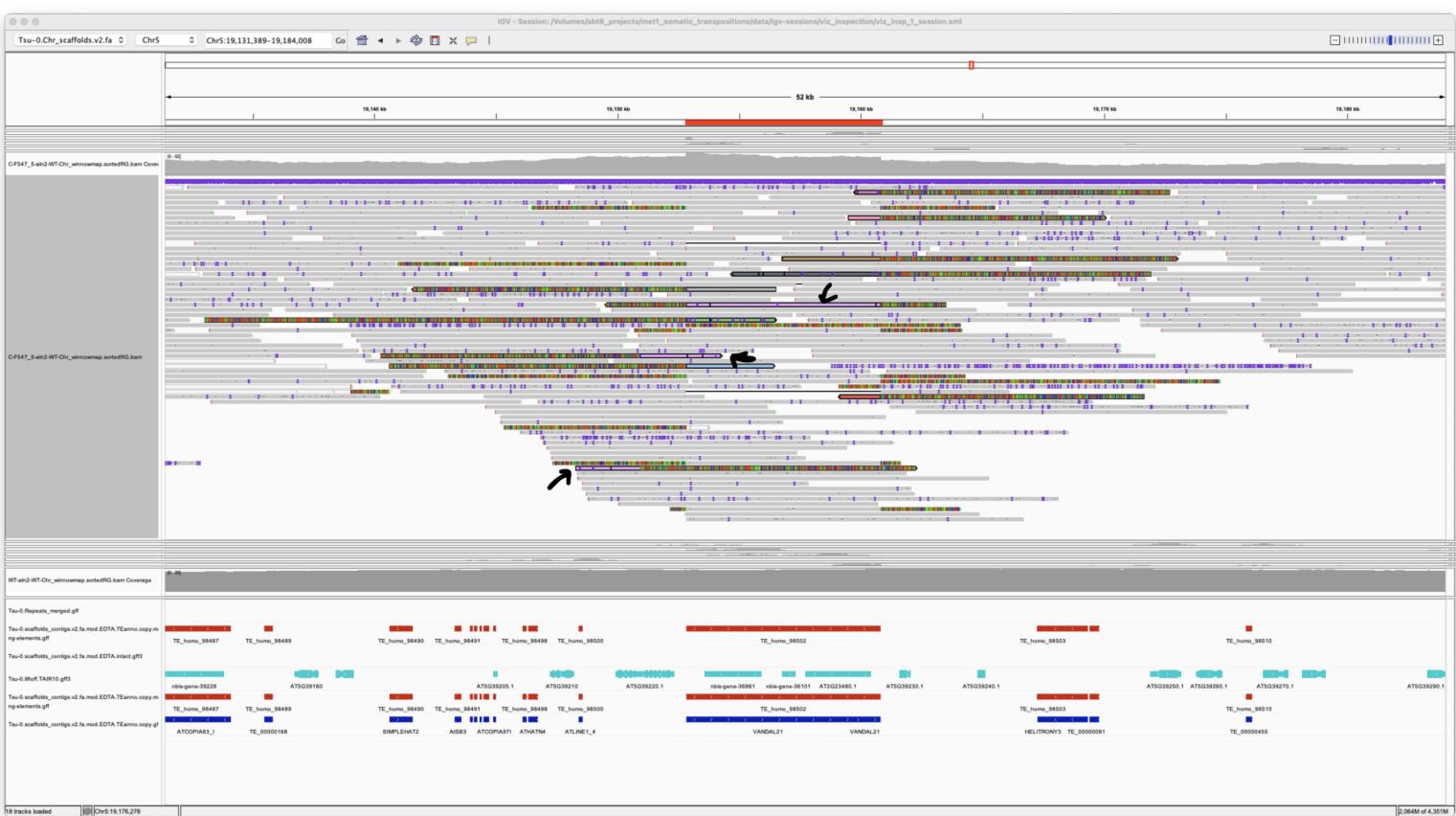
Confirmed

Chr5 17413821 17413821 - 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/160761442/ccs met1_05

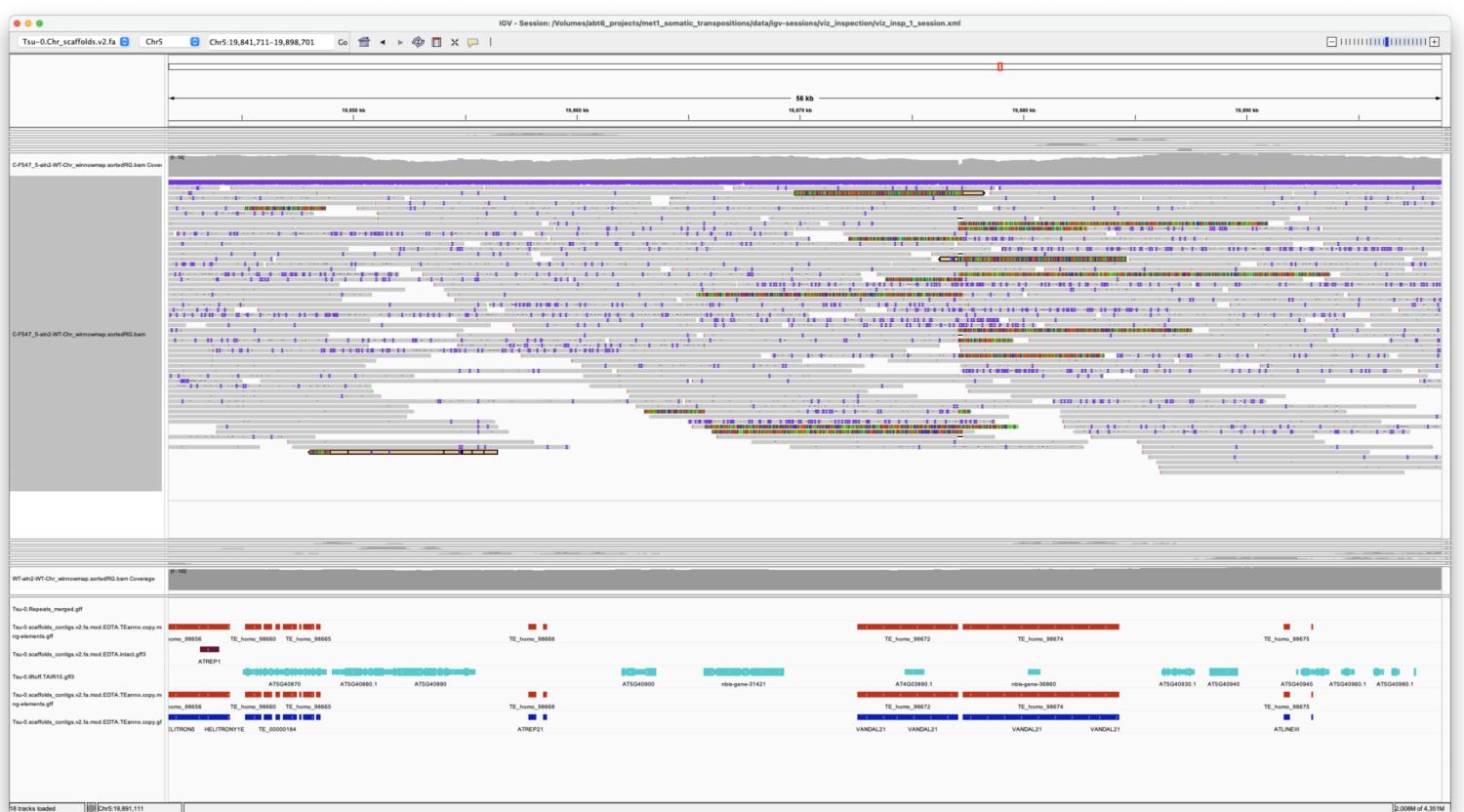


Confirmed

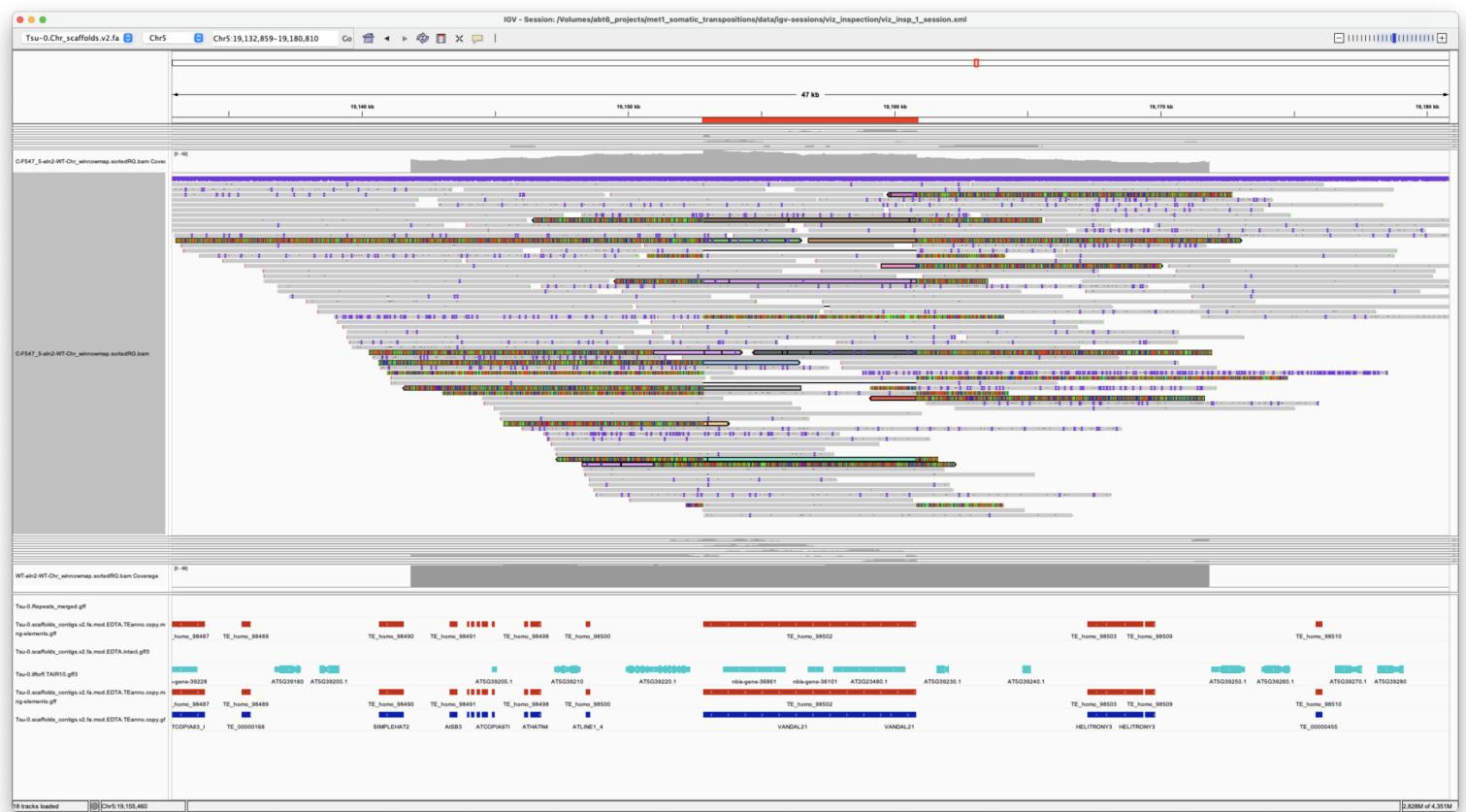
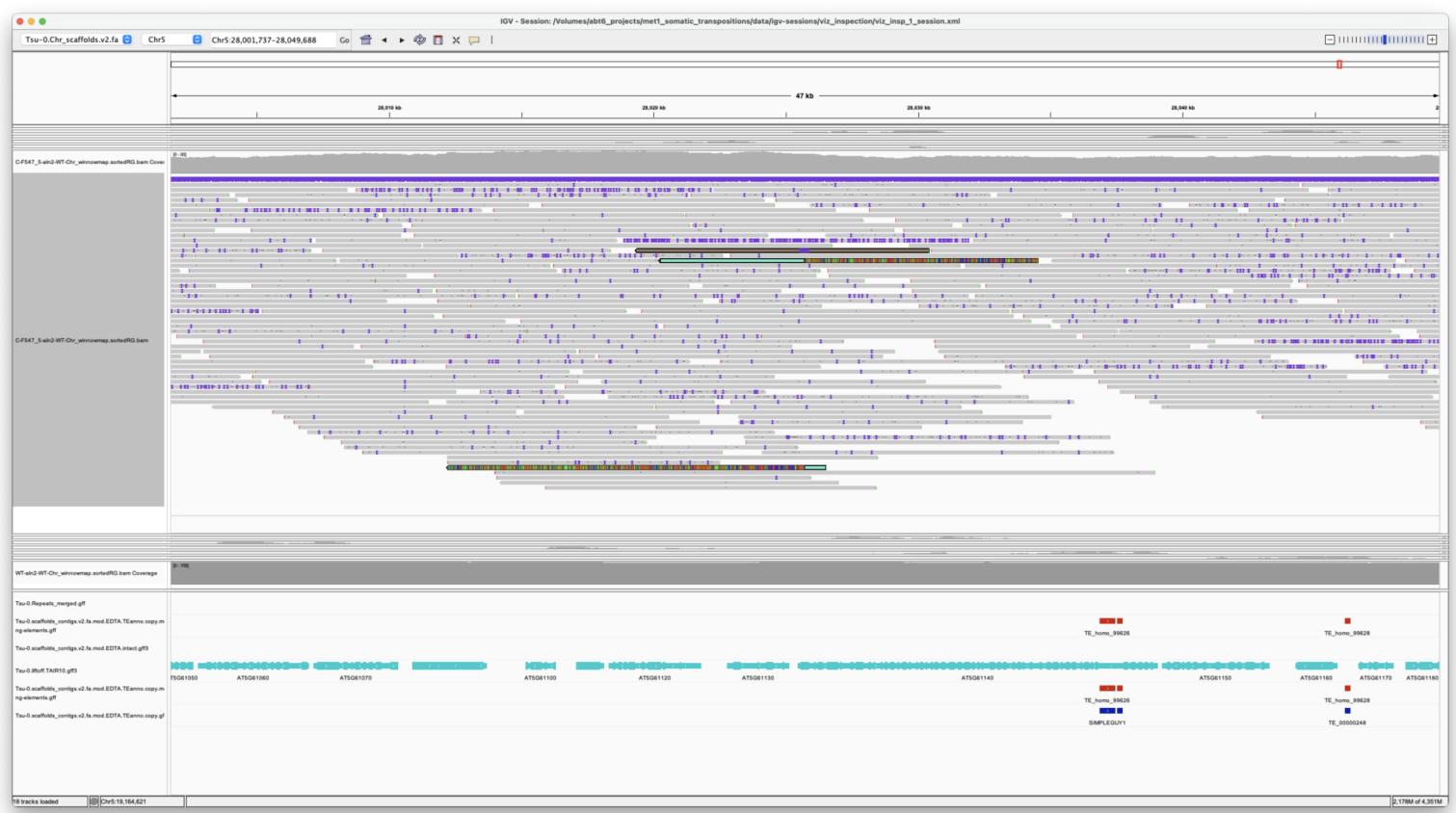
Chr5 19150958 19150958 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/34604722/ccs met1_05



Chr5 19848968 19848968 - 1 Chr5;19877283;19884298;VANDAL21 m64079_240212_113350/177145737/ccs met1_05



Chr5 28025713 28025713 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/76744176/ccs met1_05



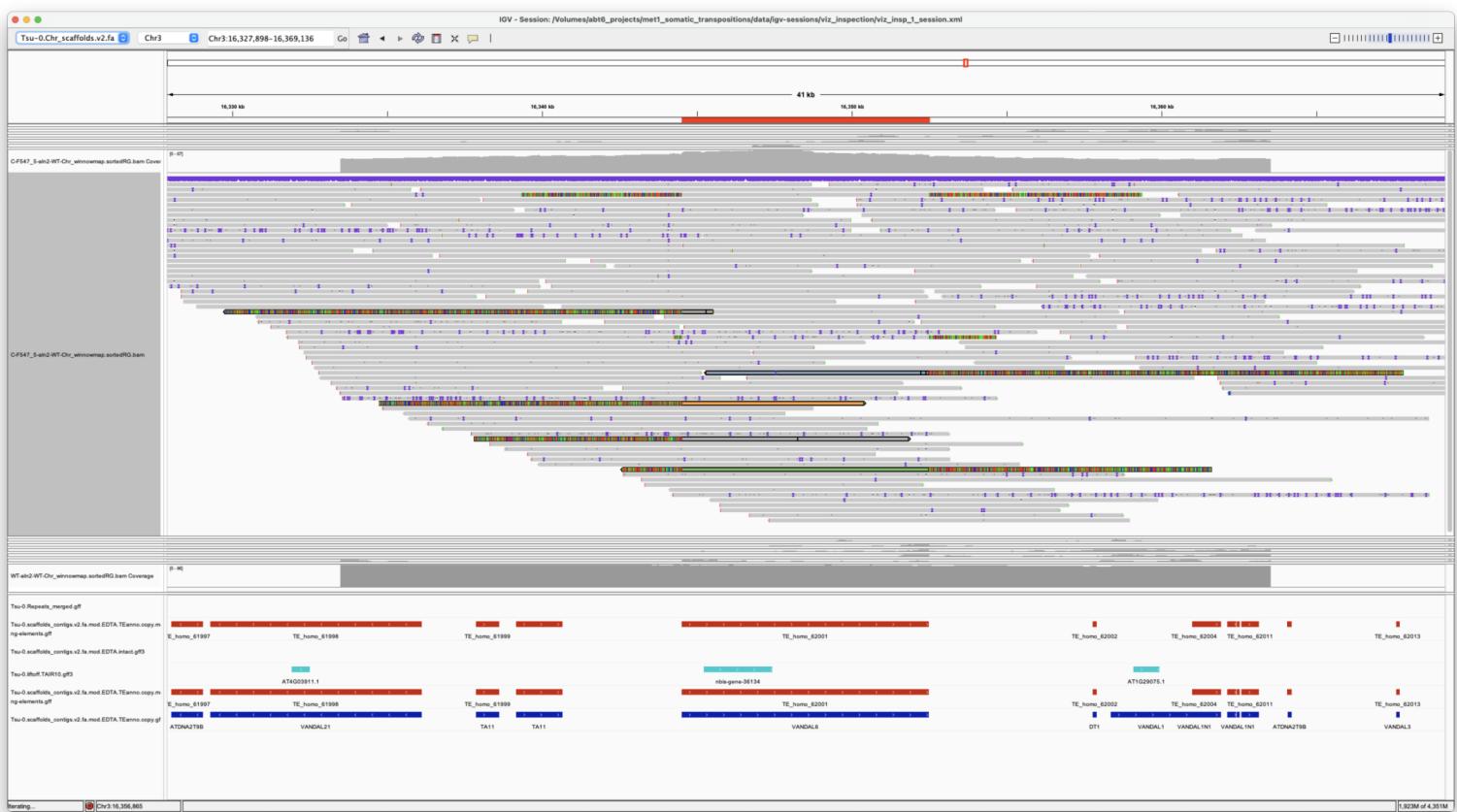
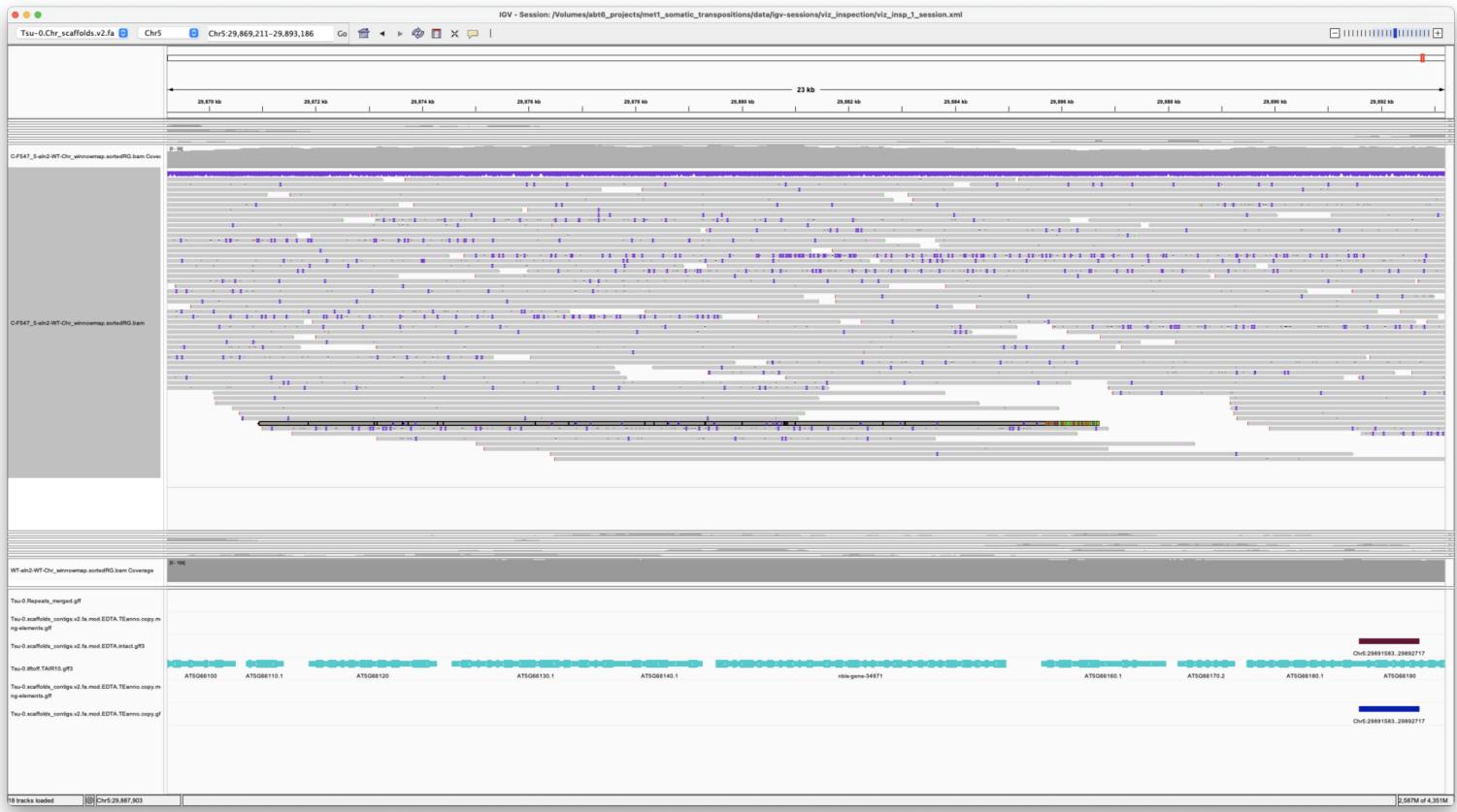
Also m64079_221220_112036/166528667/ccs explains the same insertion. But undetected by other methods 20.05.24

--> Corrected!! Coverage 2X

Central

Configured

Chr5 29885702 29885702 + 1 Chr3:16344522:16352497:VANDAI_6_m64079_221220_112036/56953538/ccs met1 0

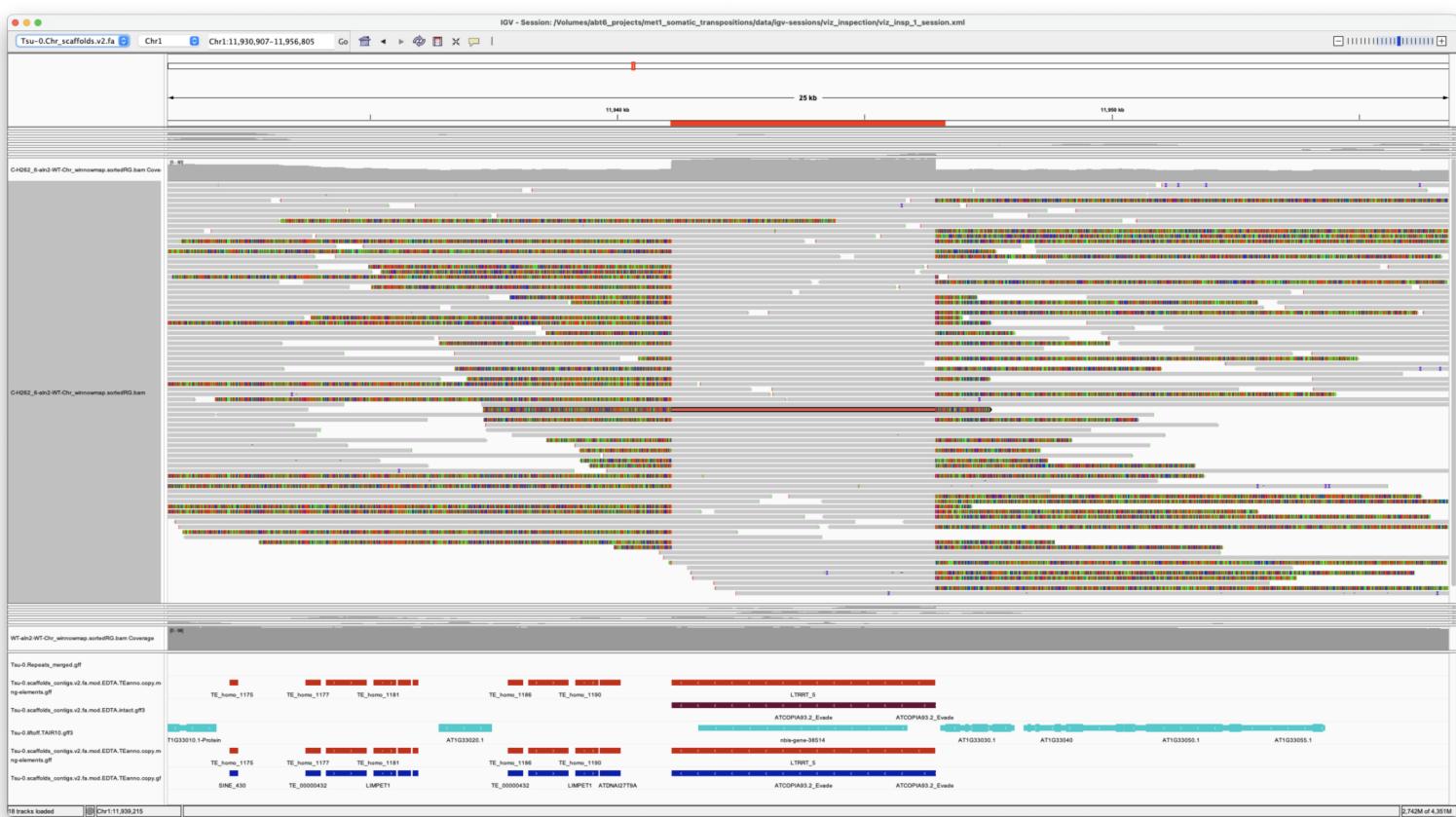
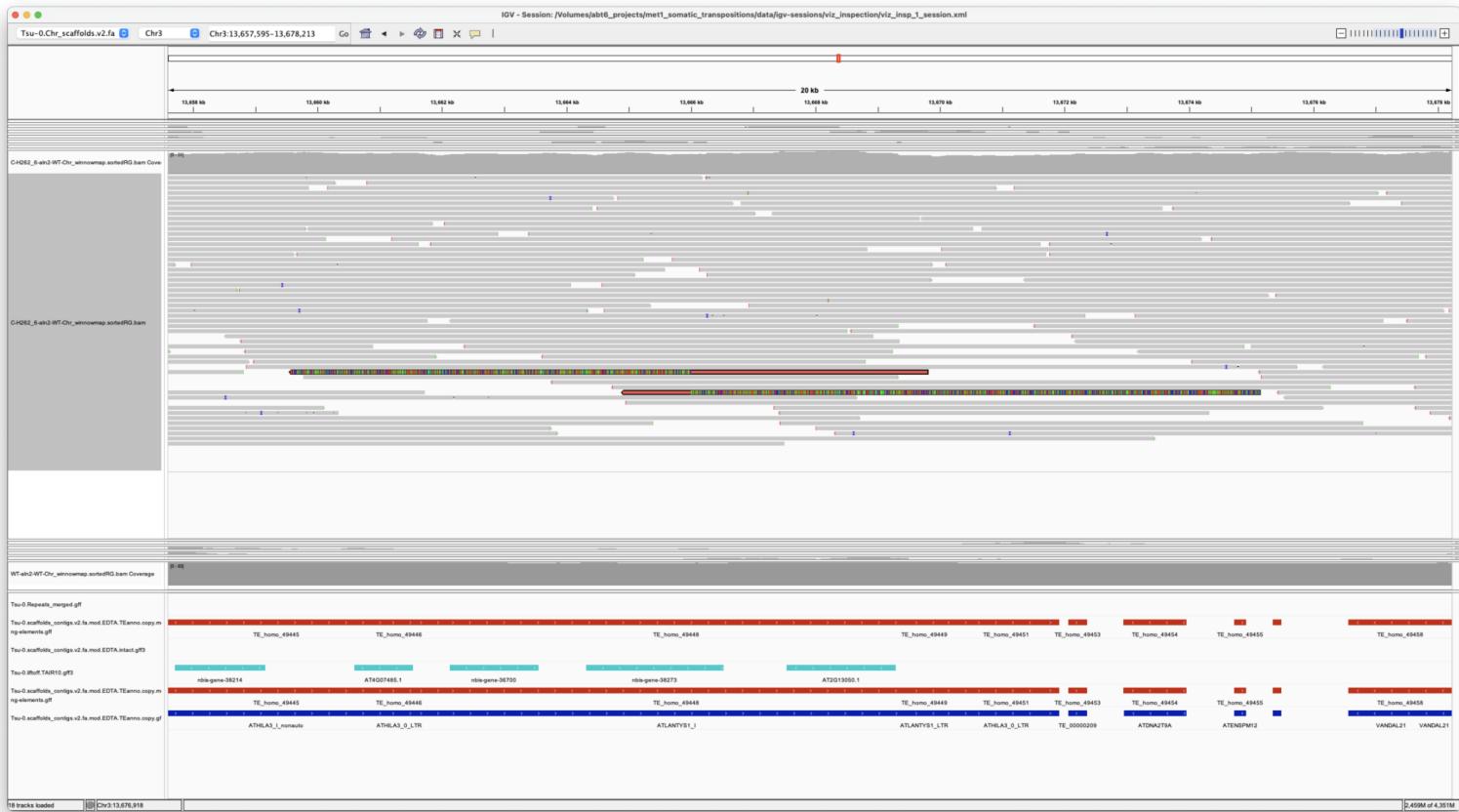


Partial

Confirmed

met1_06

DIFFICULT CASE TO AUTOMATE: m64079_221220_112036/24053759/ccs 0 3812 Chr3 13665998 13669810 10237 - ATLANTYS1_LTR m64079_221220_112036/24053759/ccs 3811 9141 Chr1 11941106 11946436 10237 + ATCOPIA93.2_Evade m64079_221220_112036/24053759/ccs 9141 10236 Chr3 13664909 13666004 10237 - ATLANTYS1_LTR

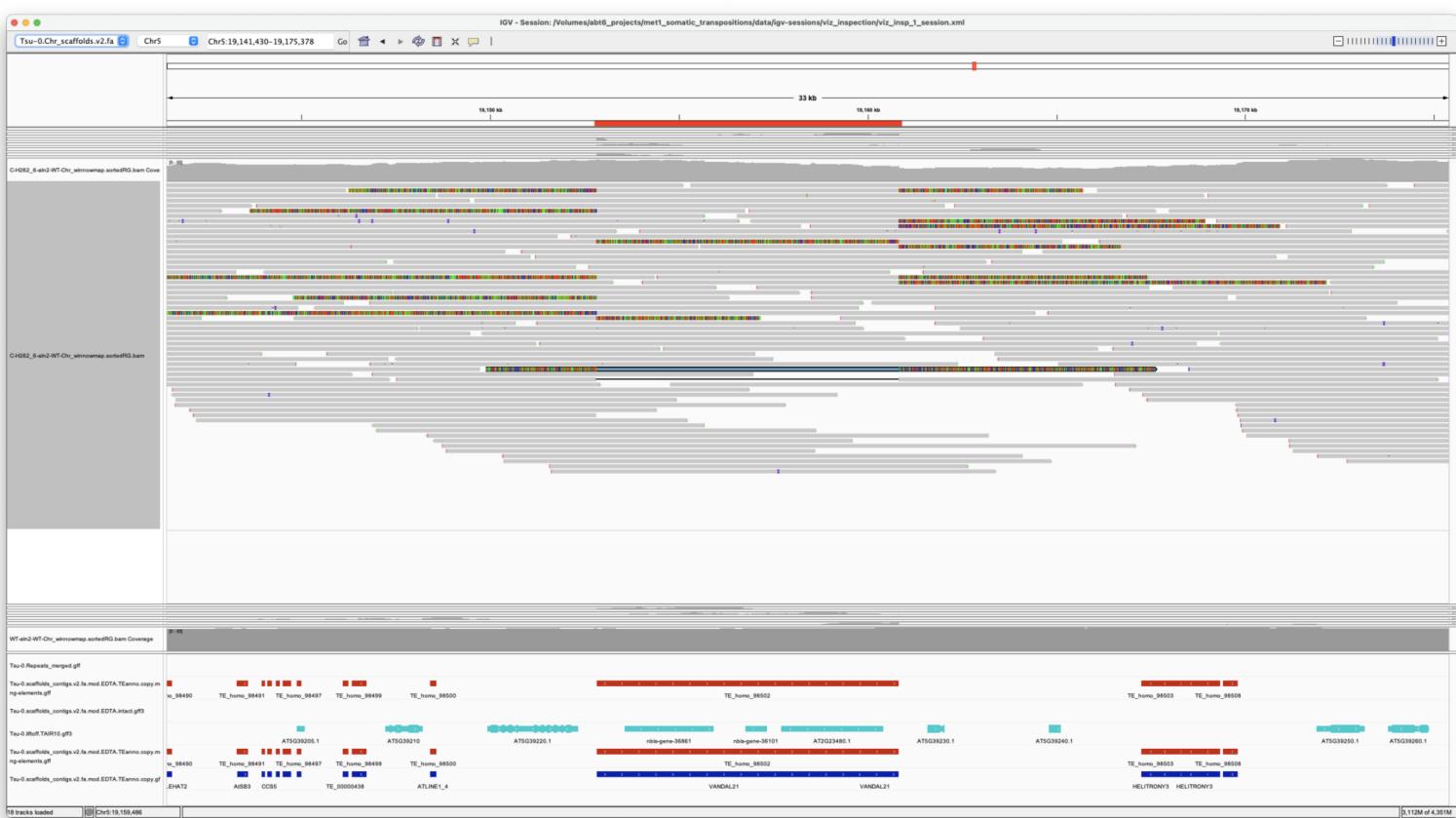
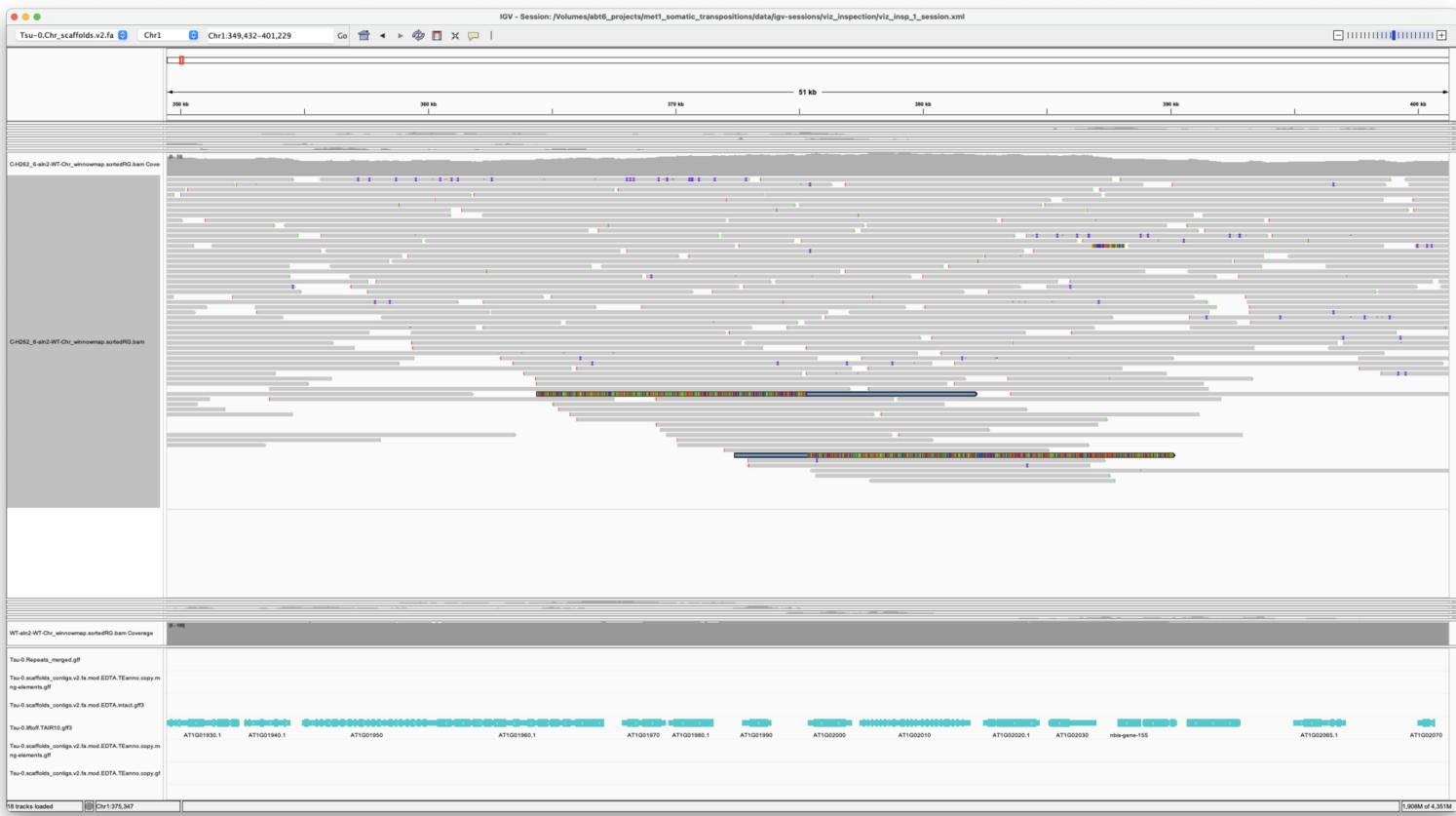


EVD insertion!

Central
TSD

Confirmed

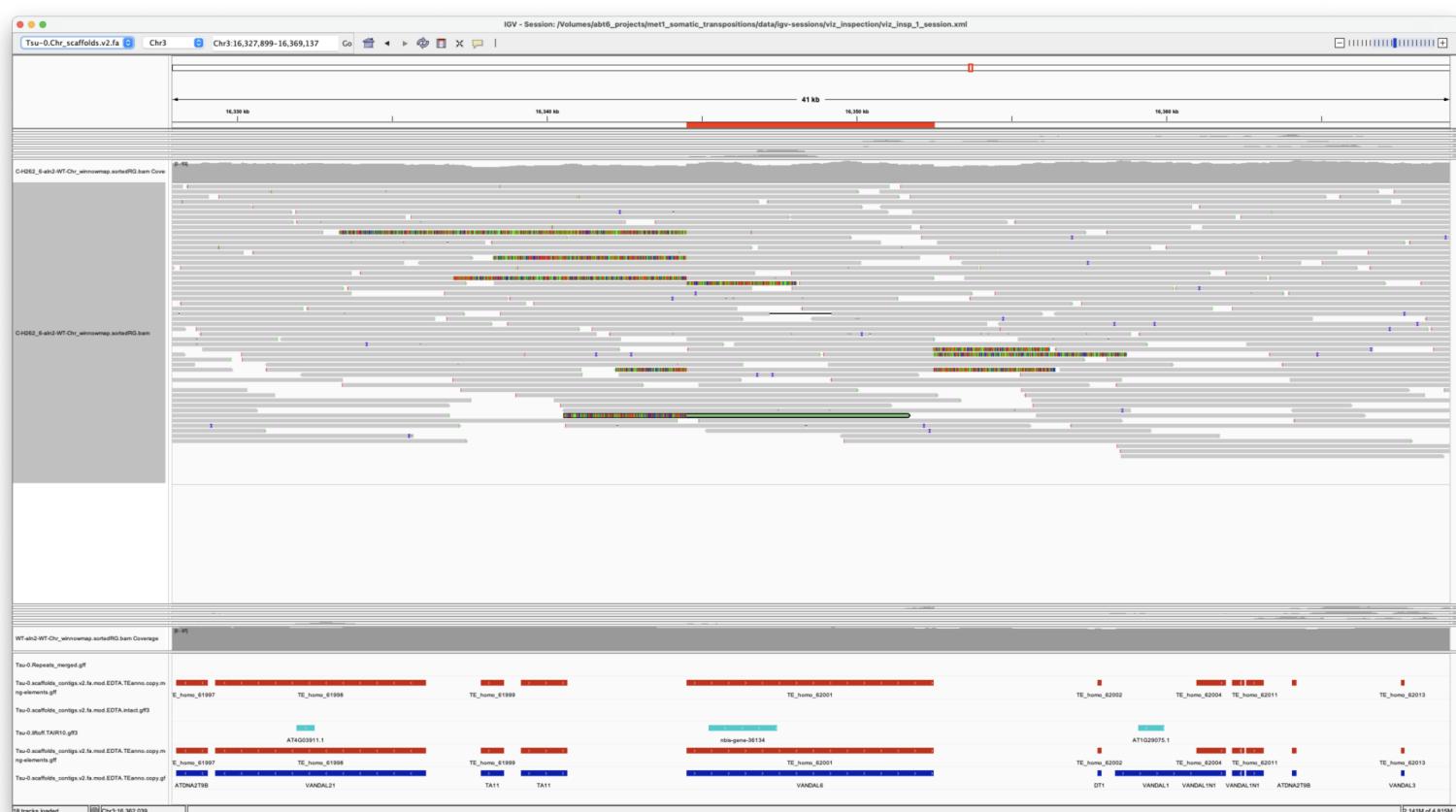
Chr1 375331 375331 + 1 Chr5;19152829;19160826;VANDAL21 m64079_240212_113350/30476632/ccs met1_06



Central
TSD

Confirmed

Chr1 12724218 12724218 + 1 Chr3:16344522;16352497;VANDAL6 m64079_240212_113350/109709174/ccs met1_06

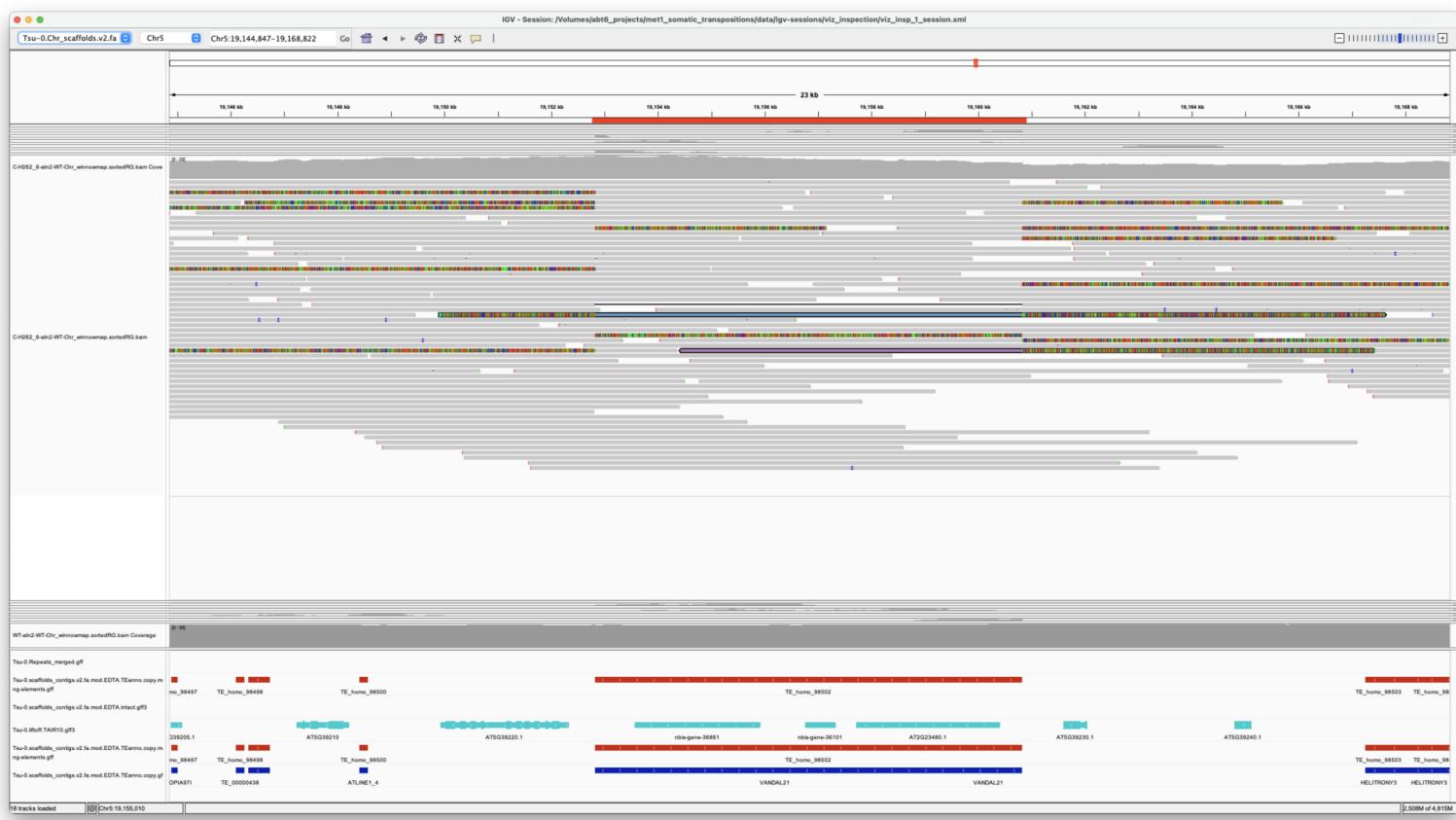
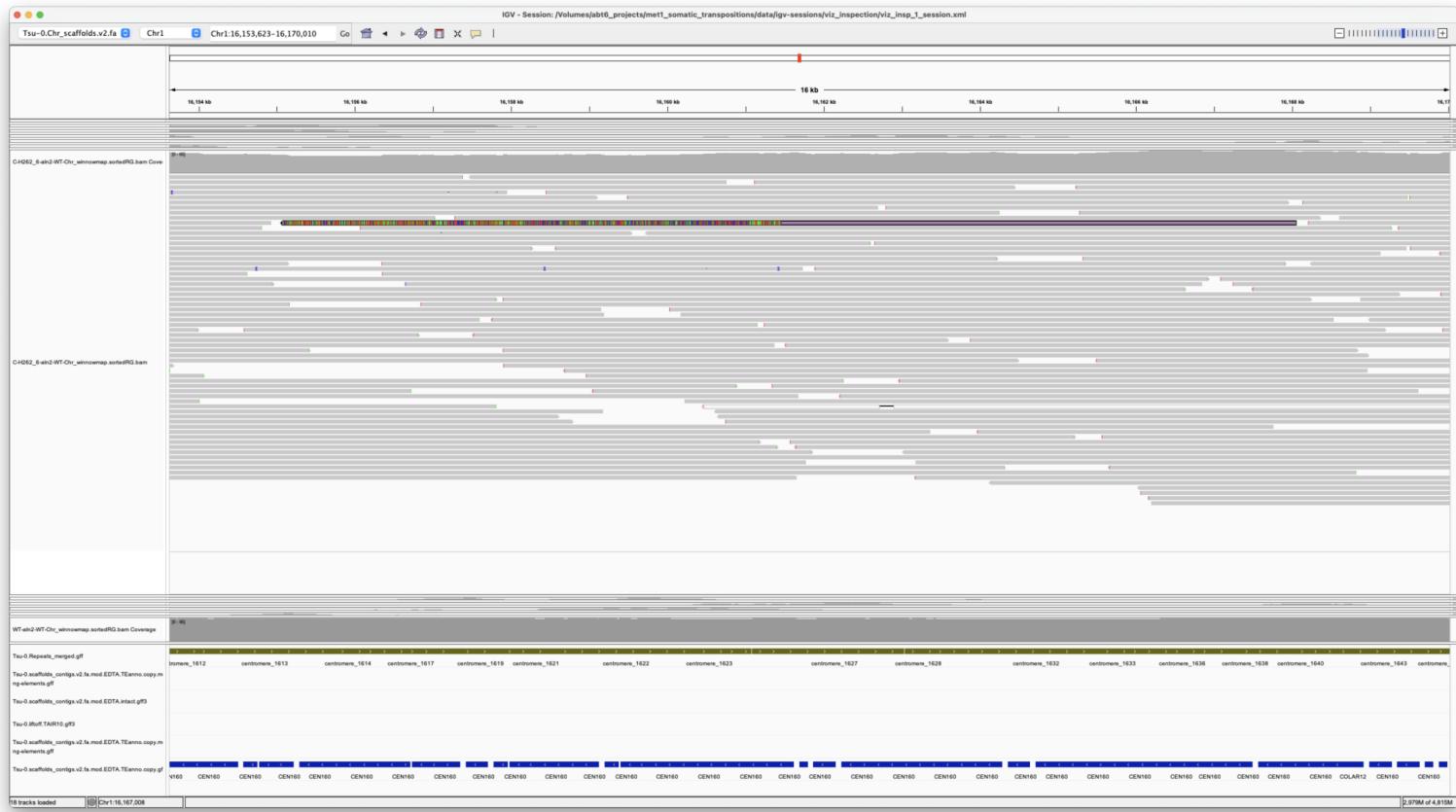


Next to Chloroplast insertion but seems ok

Partial

Confirmed

Chr1 16161461 16161461 + 1 Chr5:19152829:19160826;VANDAL21 m64079_221220_112036/112133071/ccs met1_06

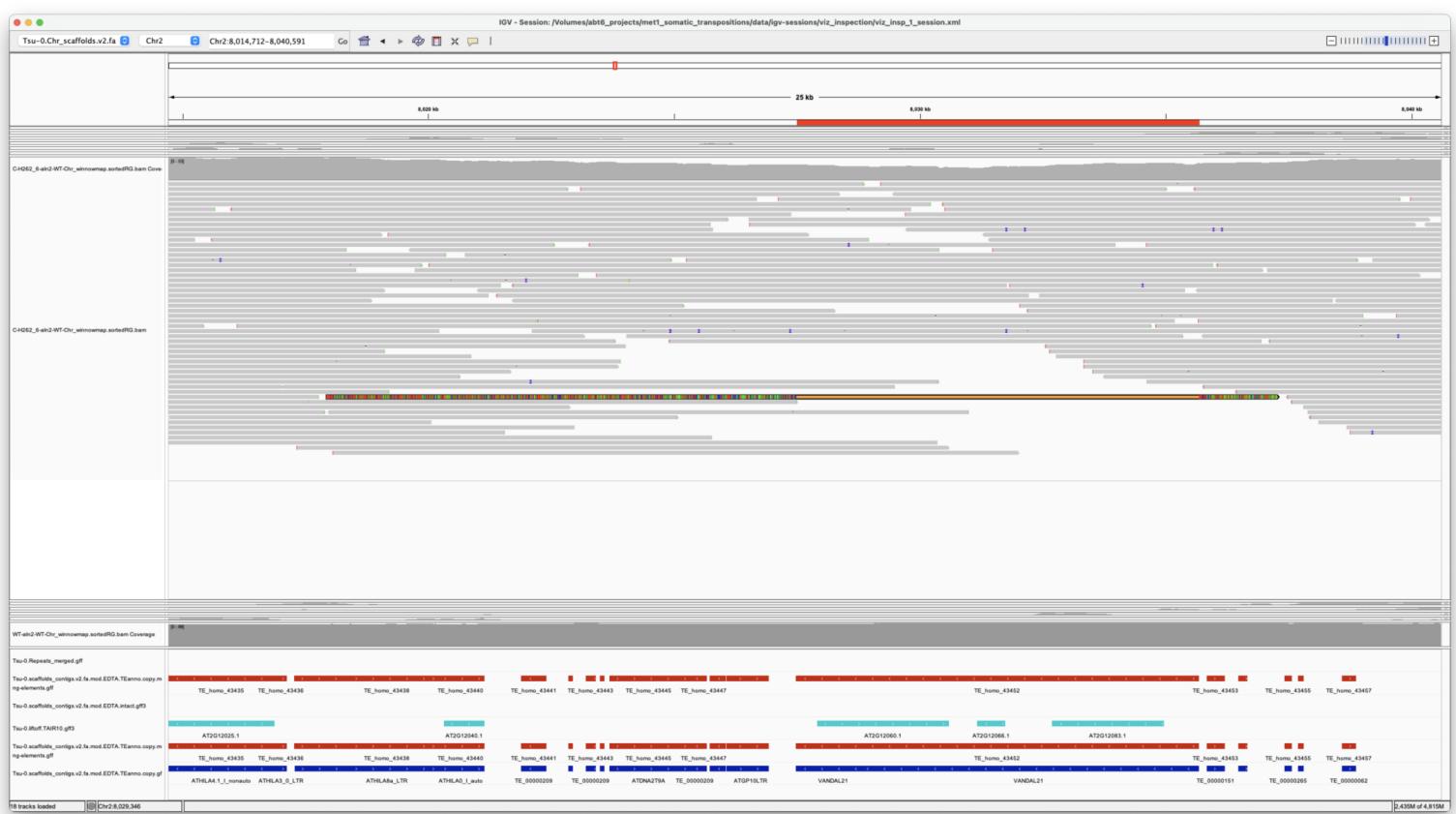
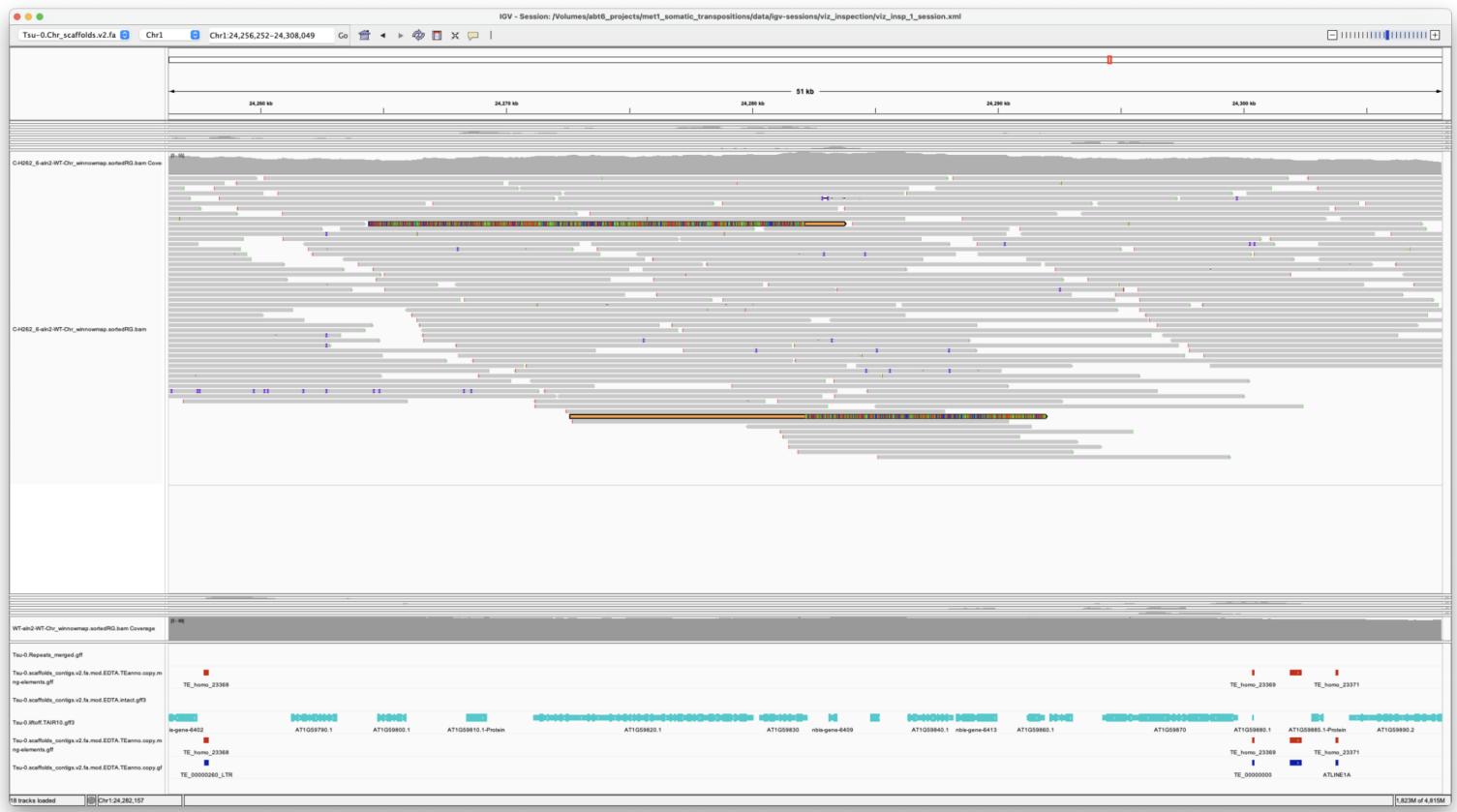


Centromeric

Partial

Confirmed

Chr1 24282152 24282152 + 1 Chr2;8027483;8035680;VANDAL21 m64079_221220_112036/73794588/ccs met1_0

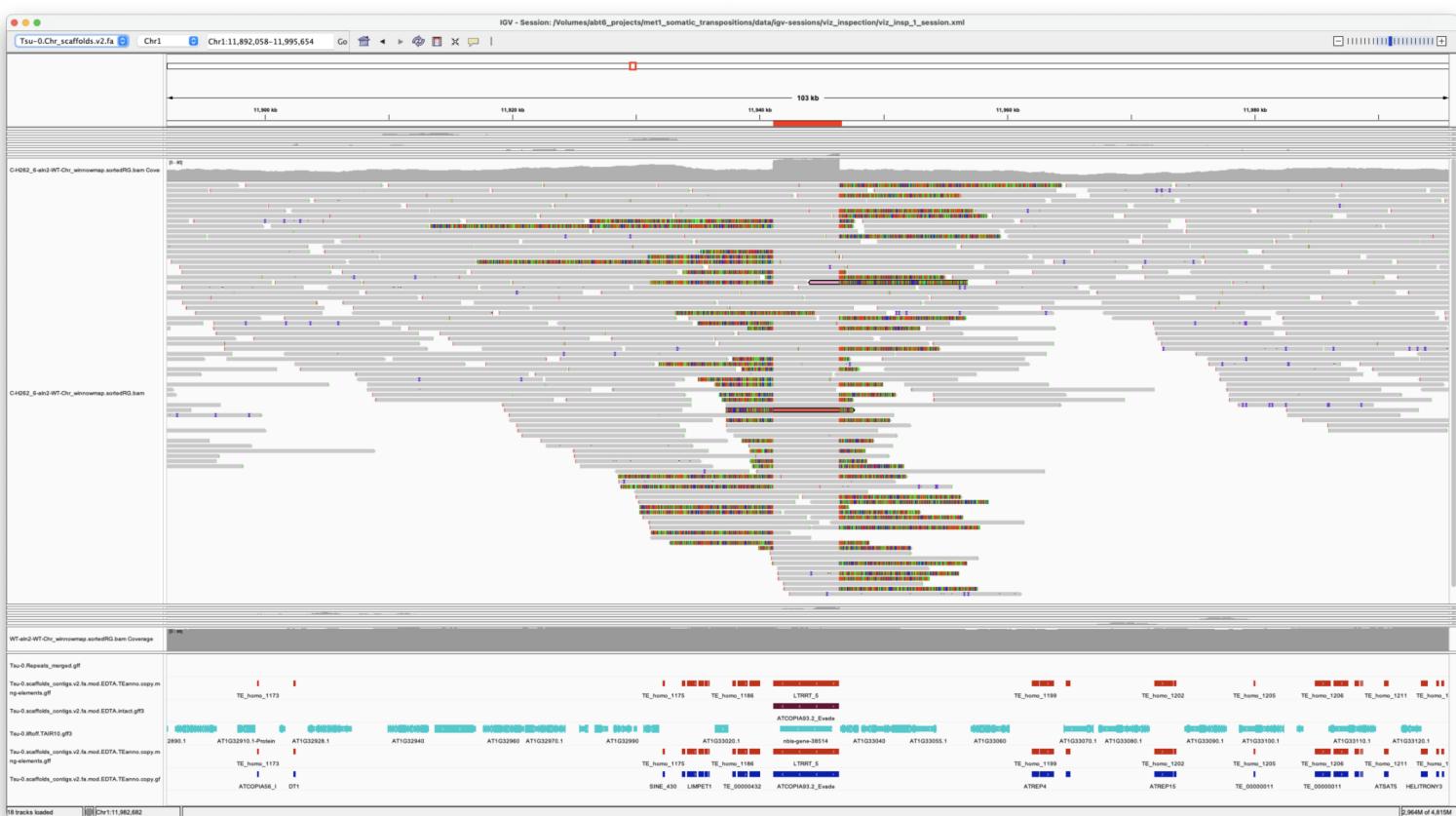
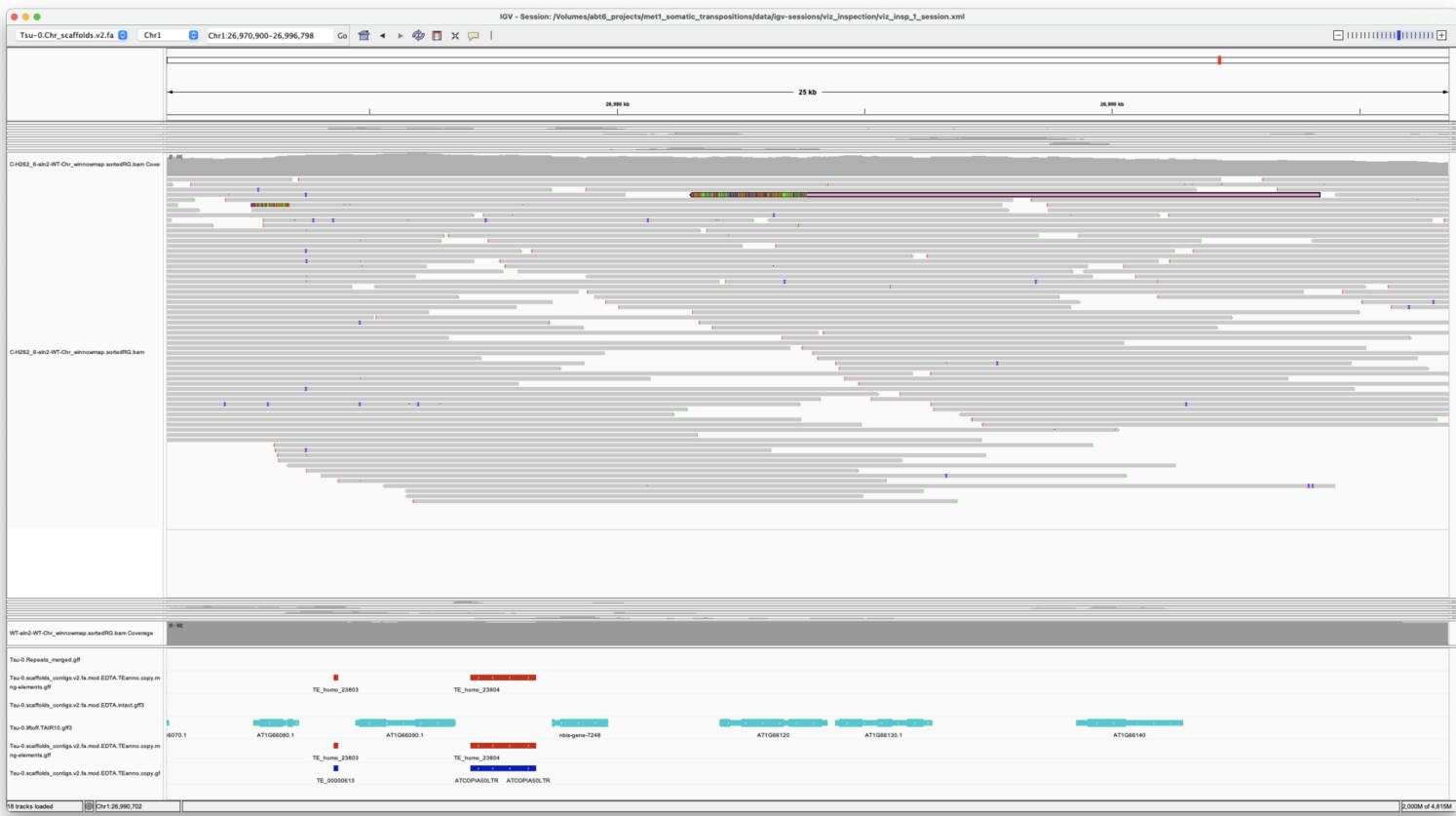


First instance of this TE so far

Partial

Confirmed

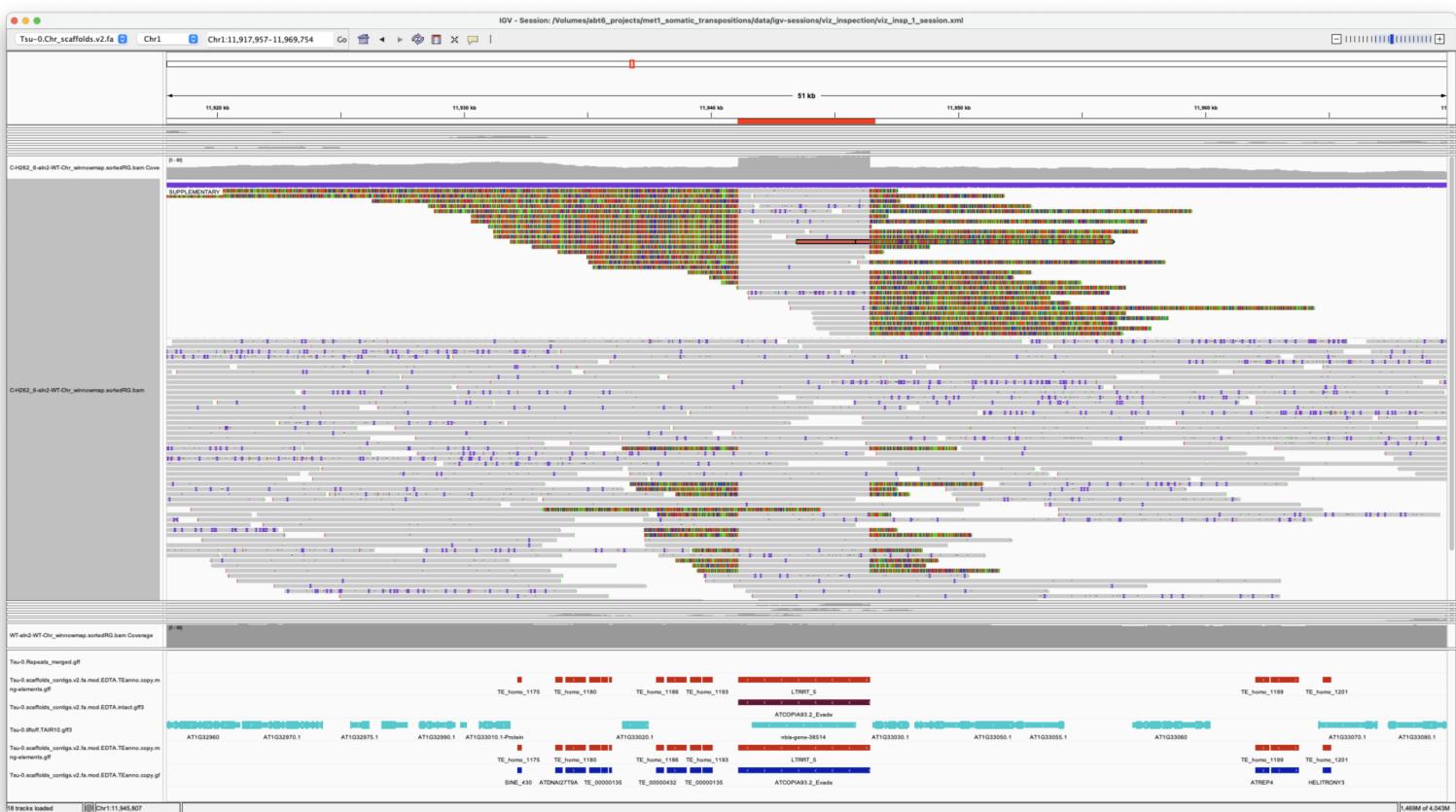
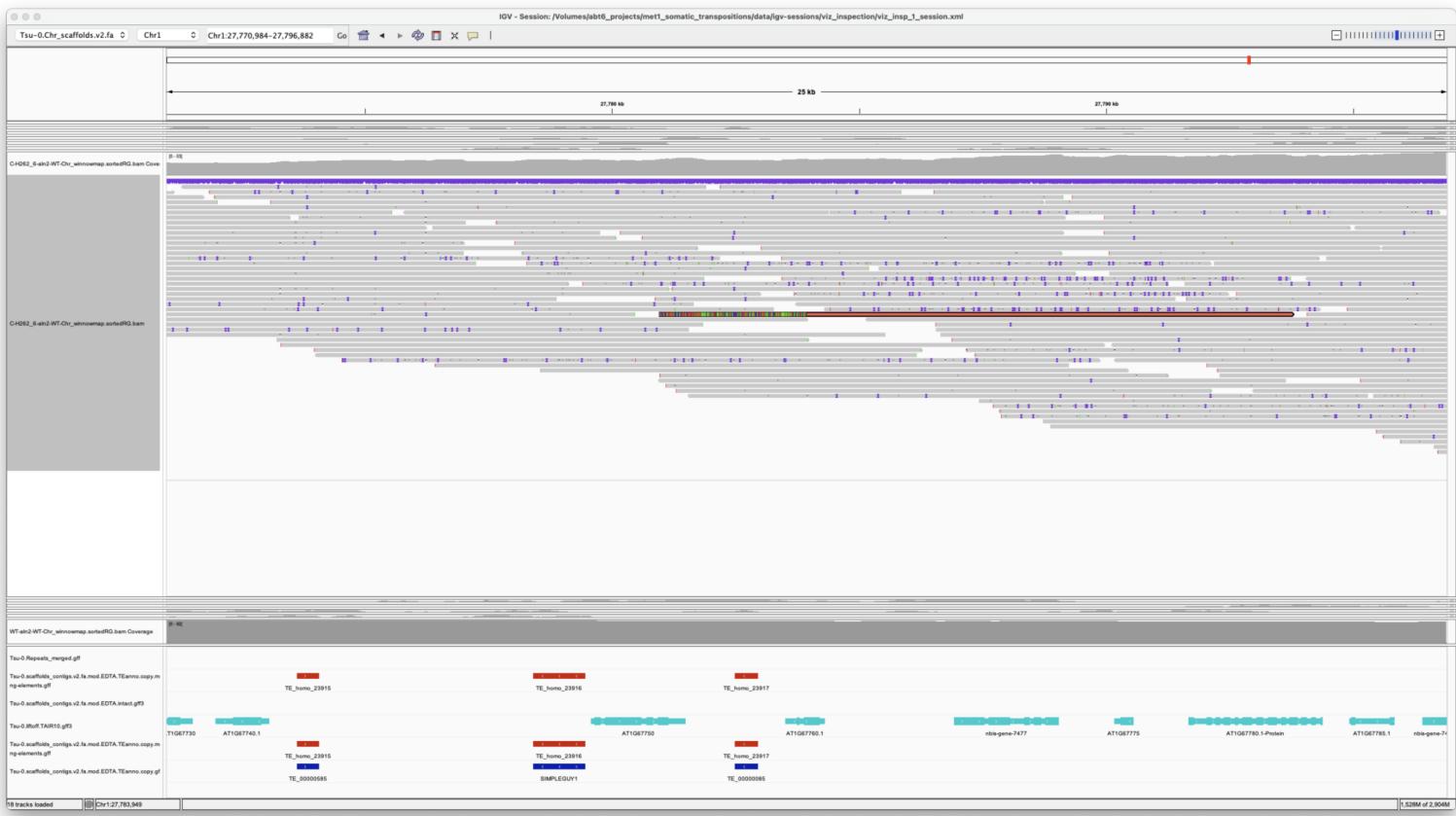
Chr1 26983849 26983849 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/107217507/ccs met1_06



Partial

Confirmed

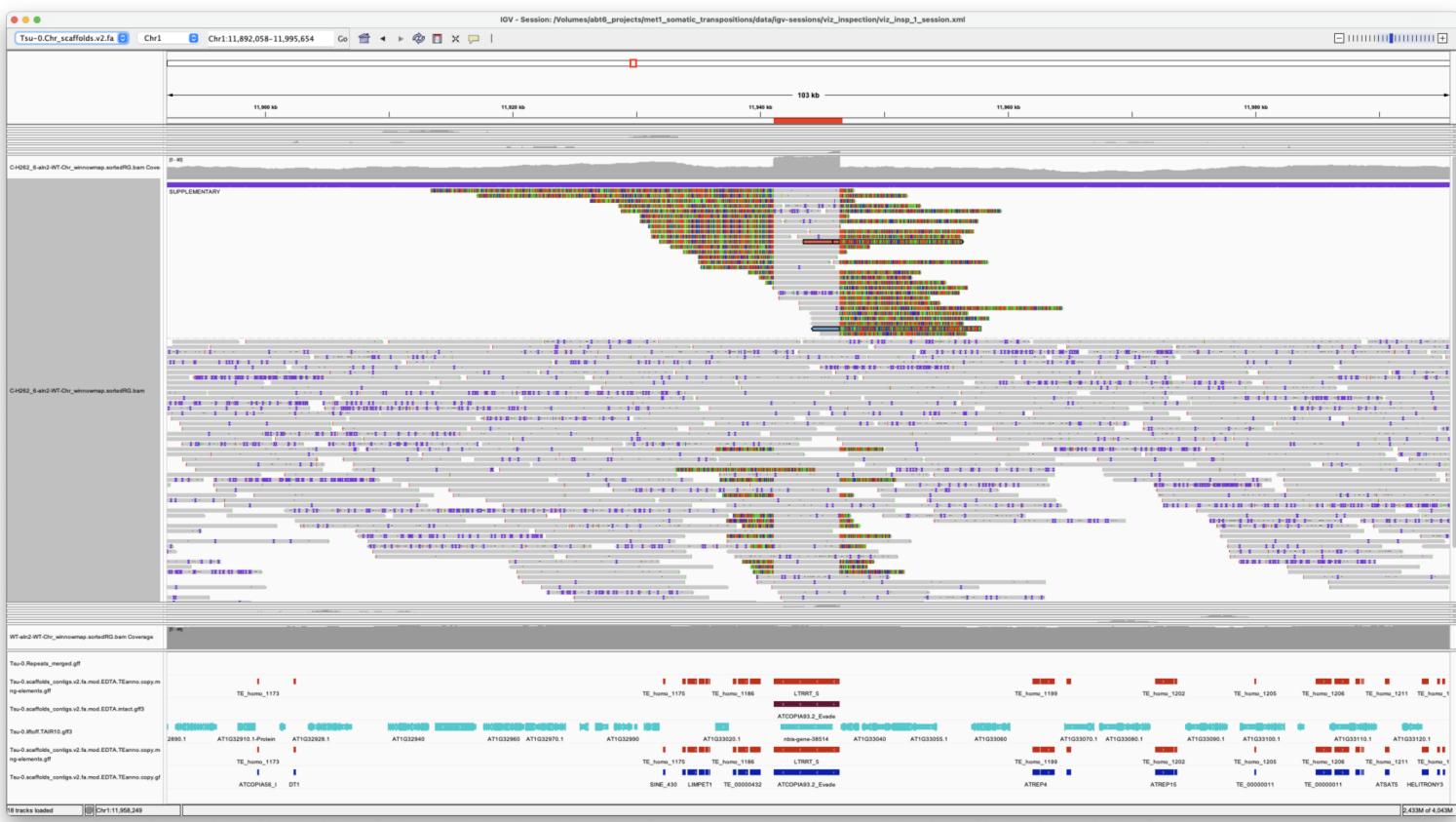
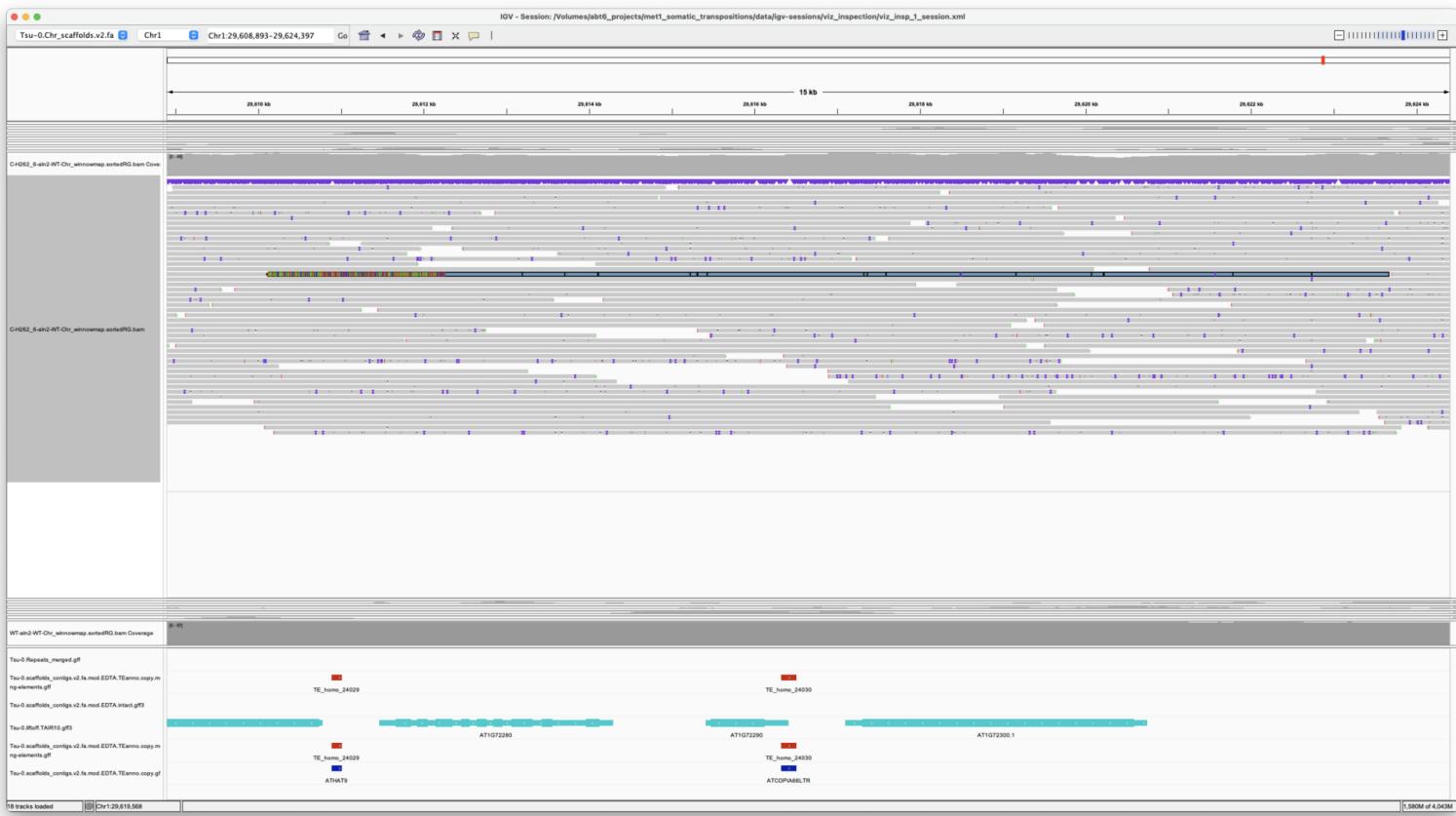
Chr1 27783933 27783933 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/149487936/ccs met1_06



Partial

Confirmed

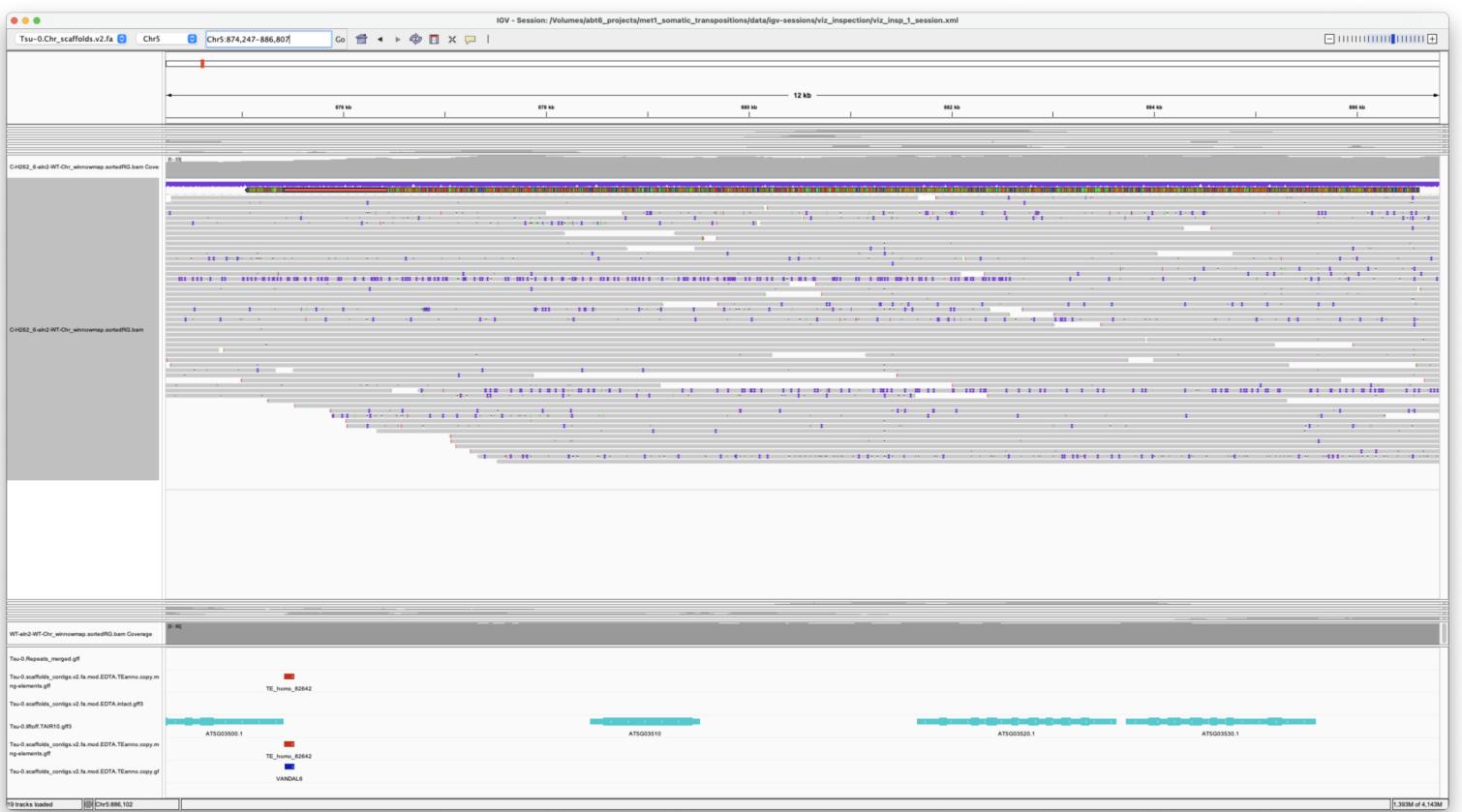
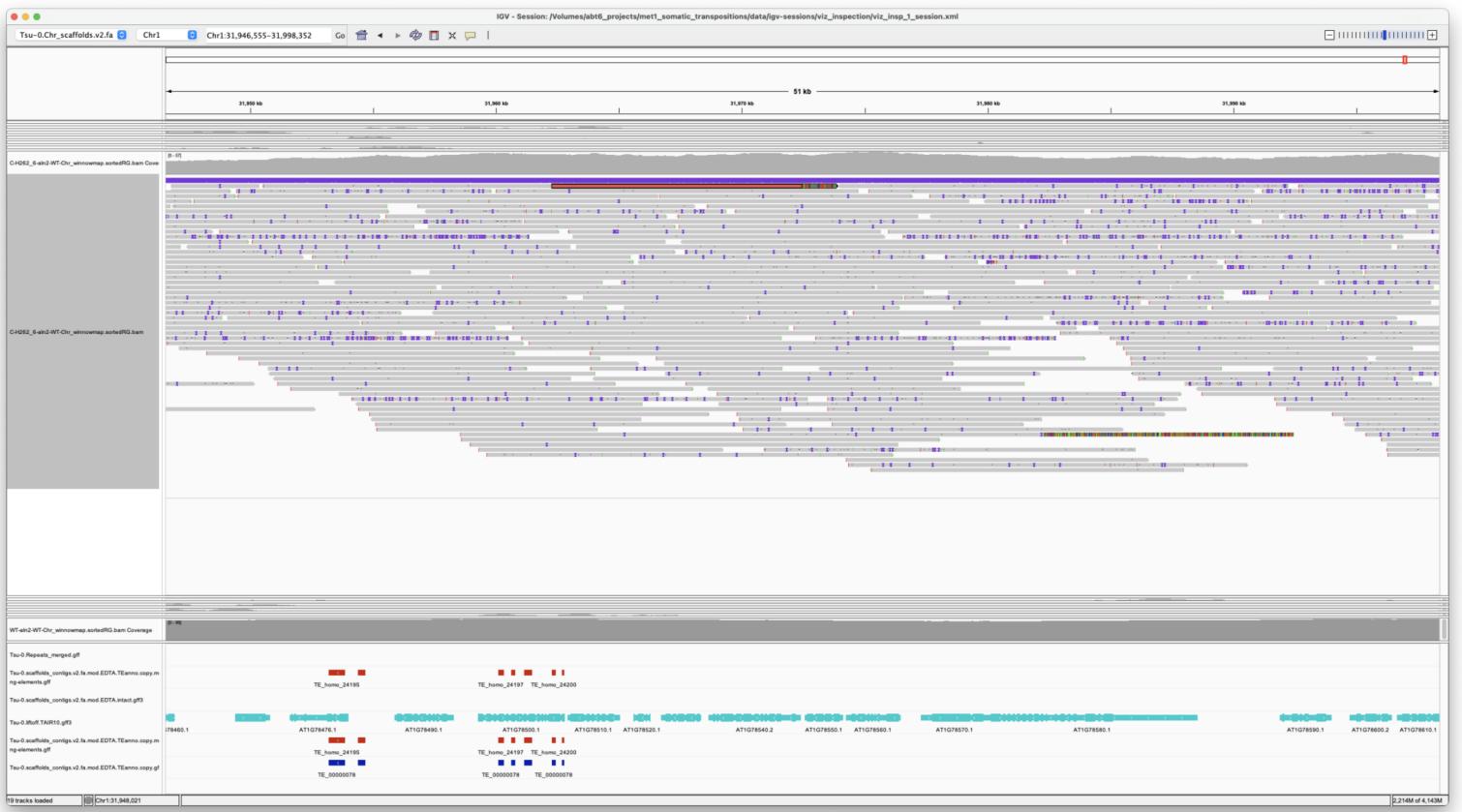
Chr1 29612263 29612263 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/91359146/ccs met1_06



Partial

Confirmed

Chr1 31972454 31972454 - 1 Chr5;875414;876434;PAC m64079_240212_113350/82839561/ccs met1_06



Annotation not present in the bottom tracks -> PAC

Partial

Confirmed

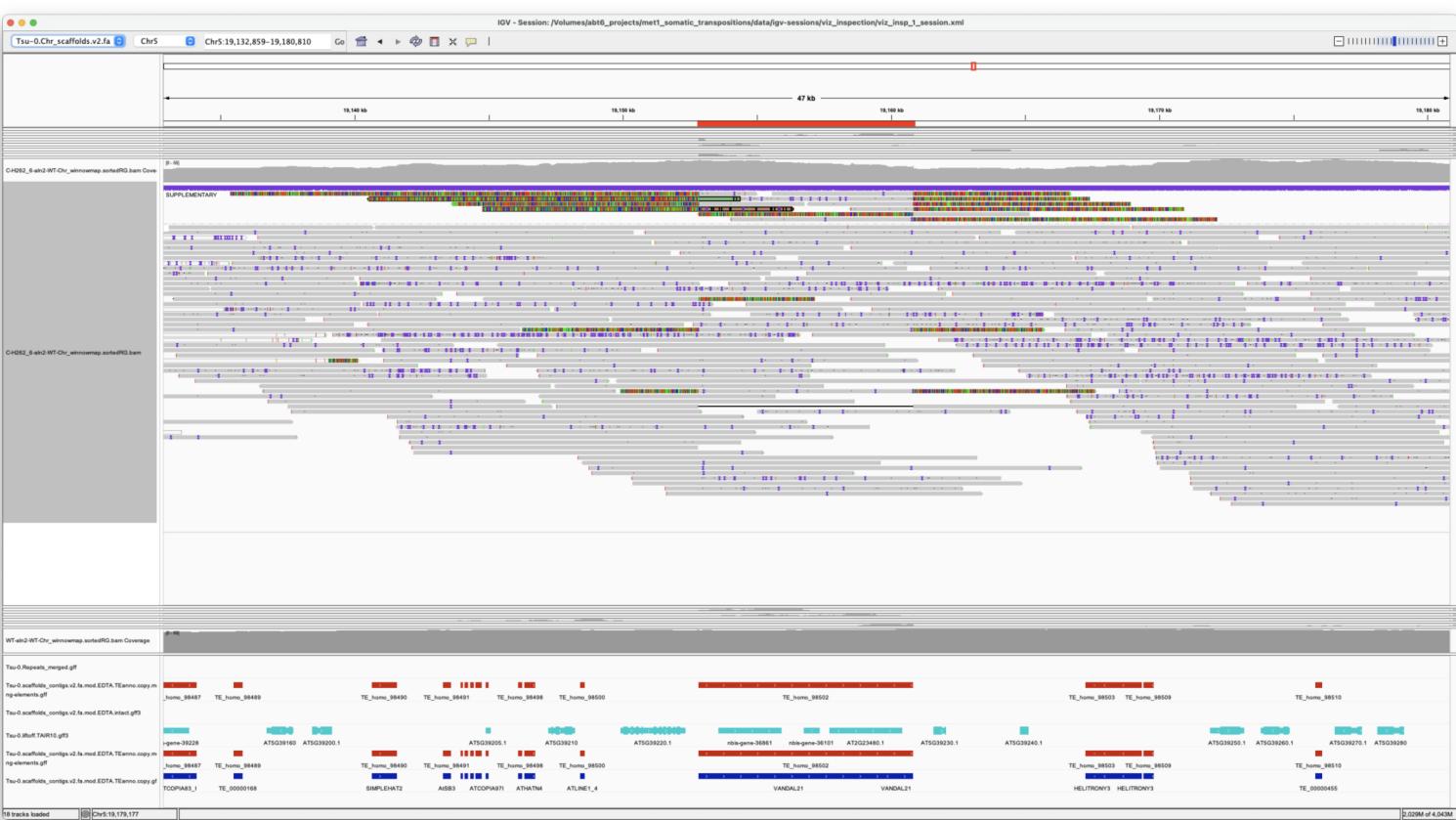
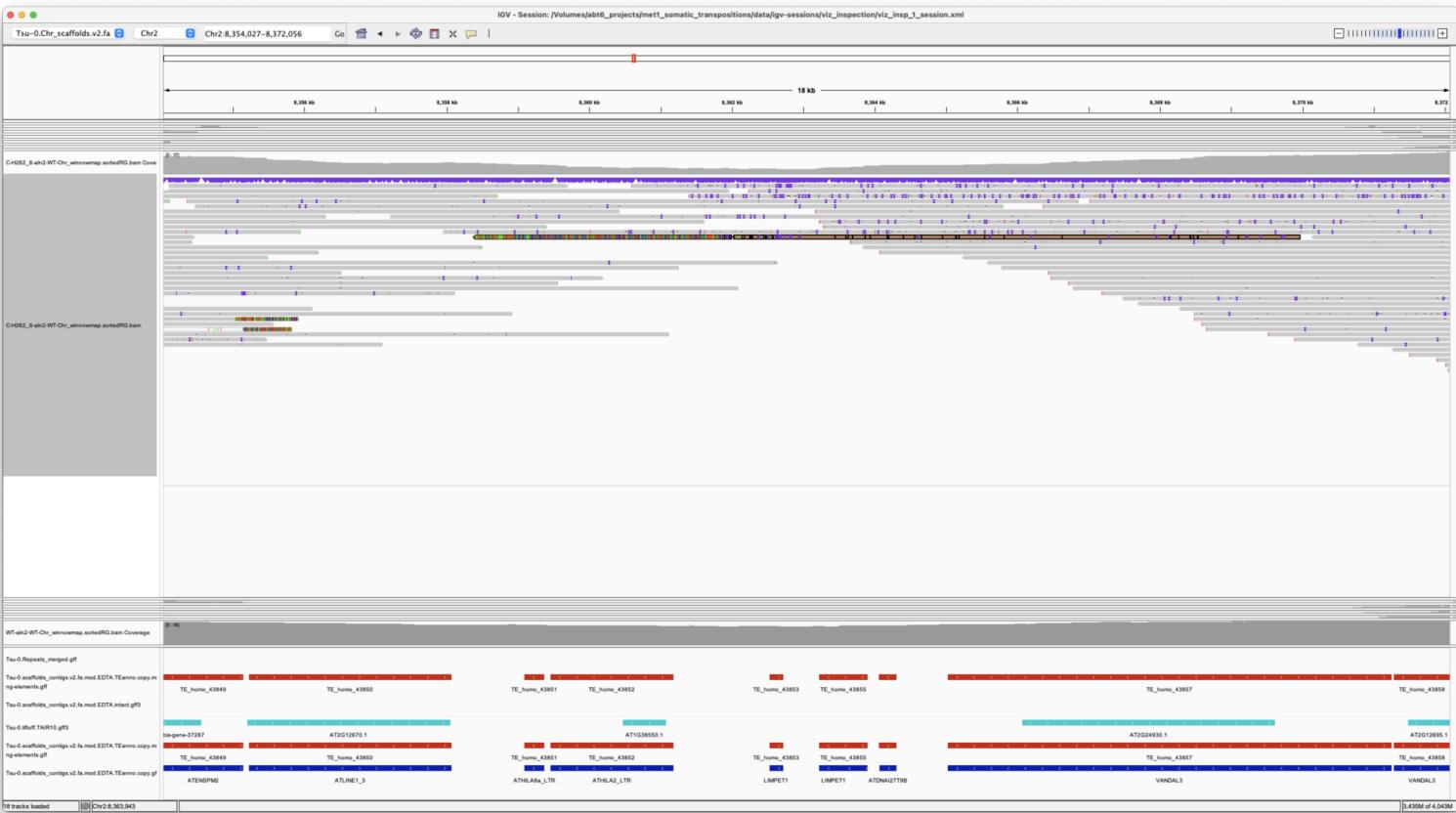
Chr2 1551971 1551971 + 1 Chr5:19152829:19160826; VANDAL21 m64079_221220_112036/157550110/ccs met1_06



Partial

Confirmed

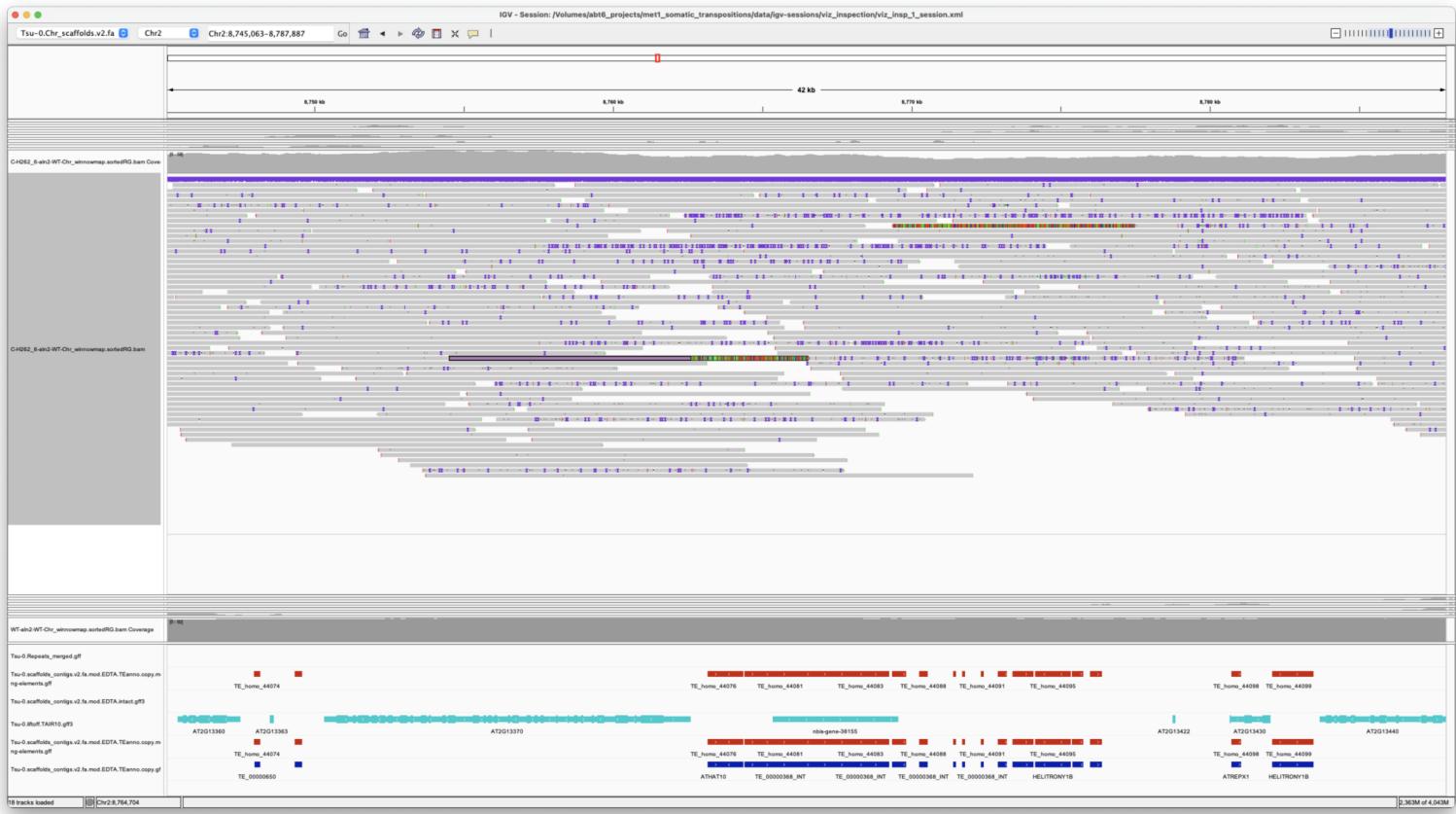
Chr2 8361870 8361870 - 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/122029913/ccs met1_0



Partial

Confirmed

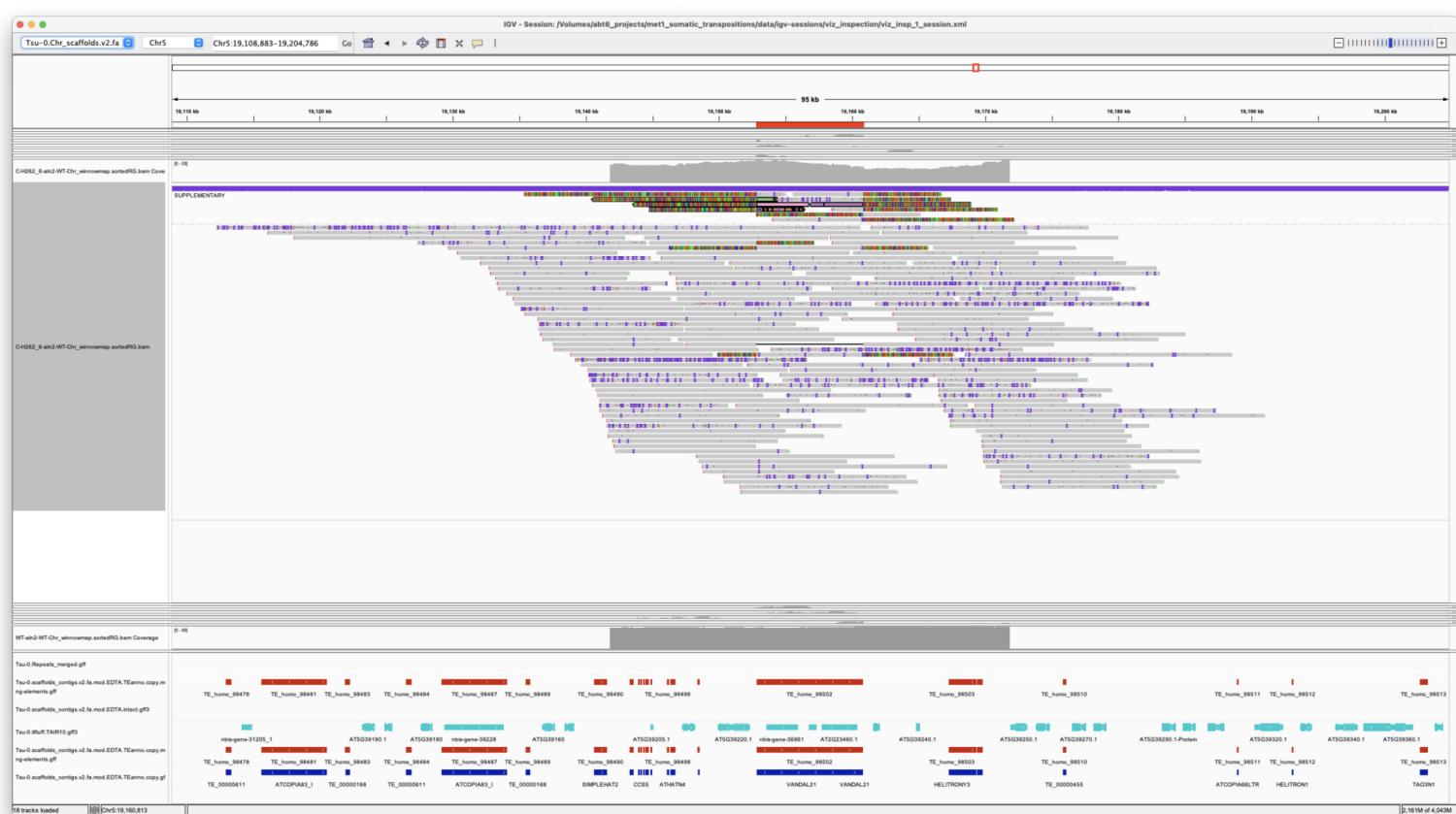
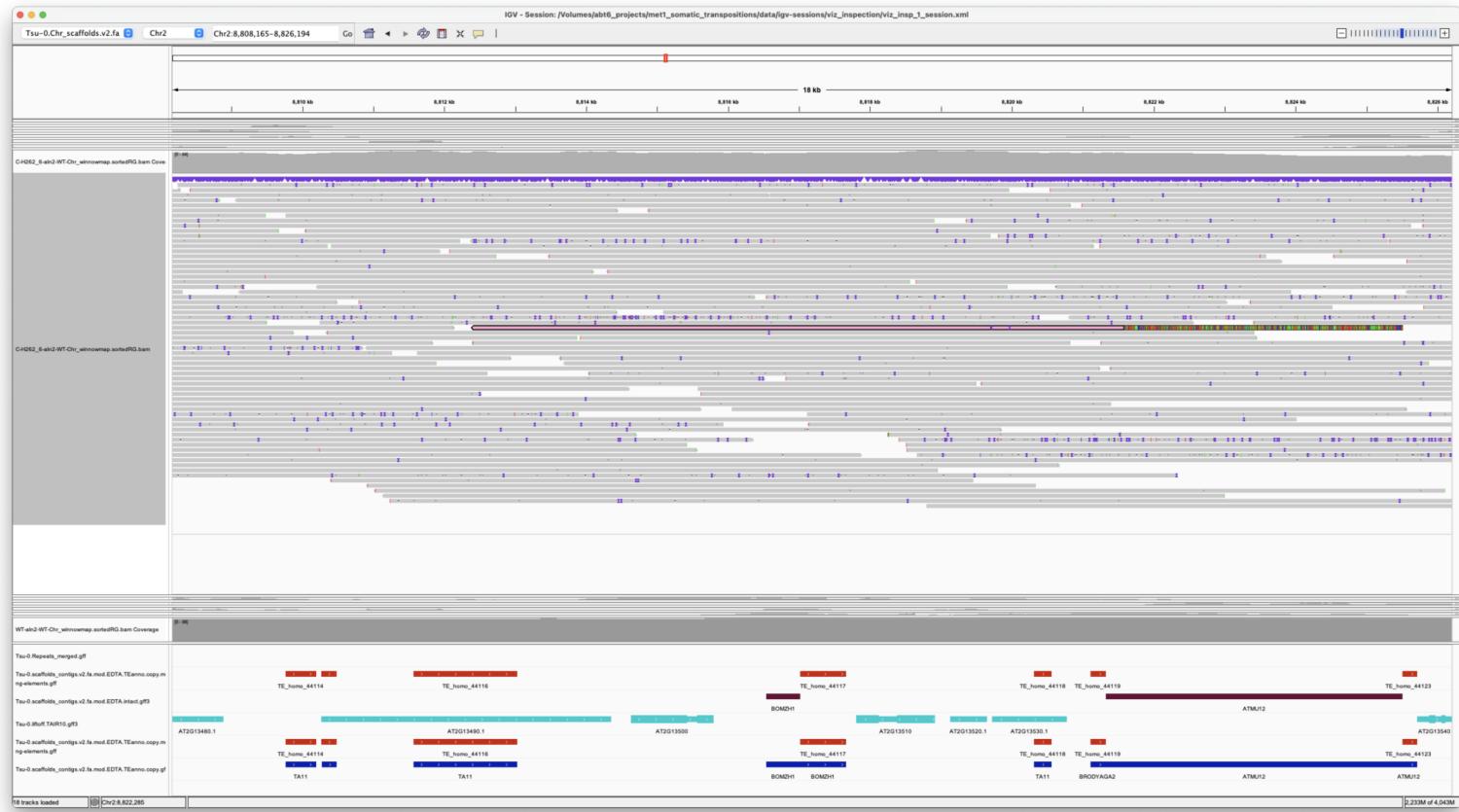
Chr2 8762630 8762630 - 1 Chr5:19152829:19160826;VANDAL21 m64079_221220_112036/21300945/ccs met1_06



Partial

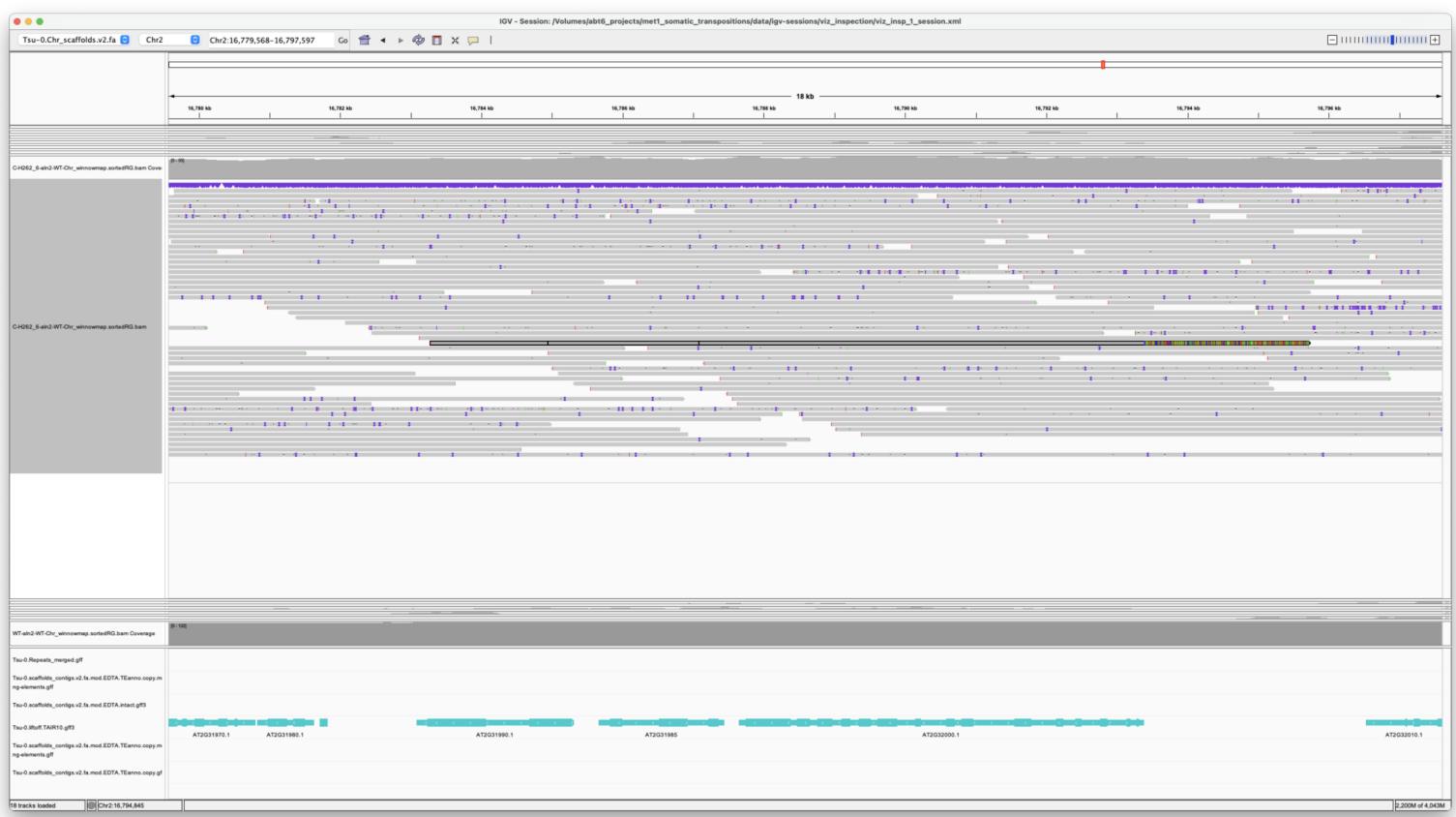
Confirmed

Chr2 8821583 8821583 + 1 Chr5:19152829;19160826;VANDAL21 m64079_240212_113350/89457913/ccs met1_06



Partial

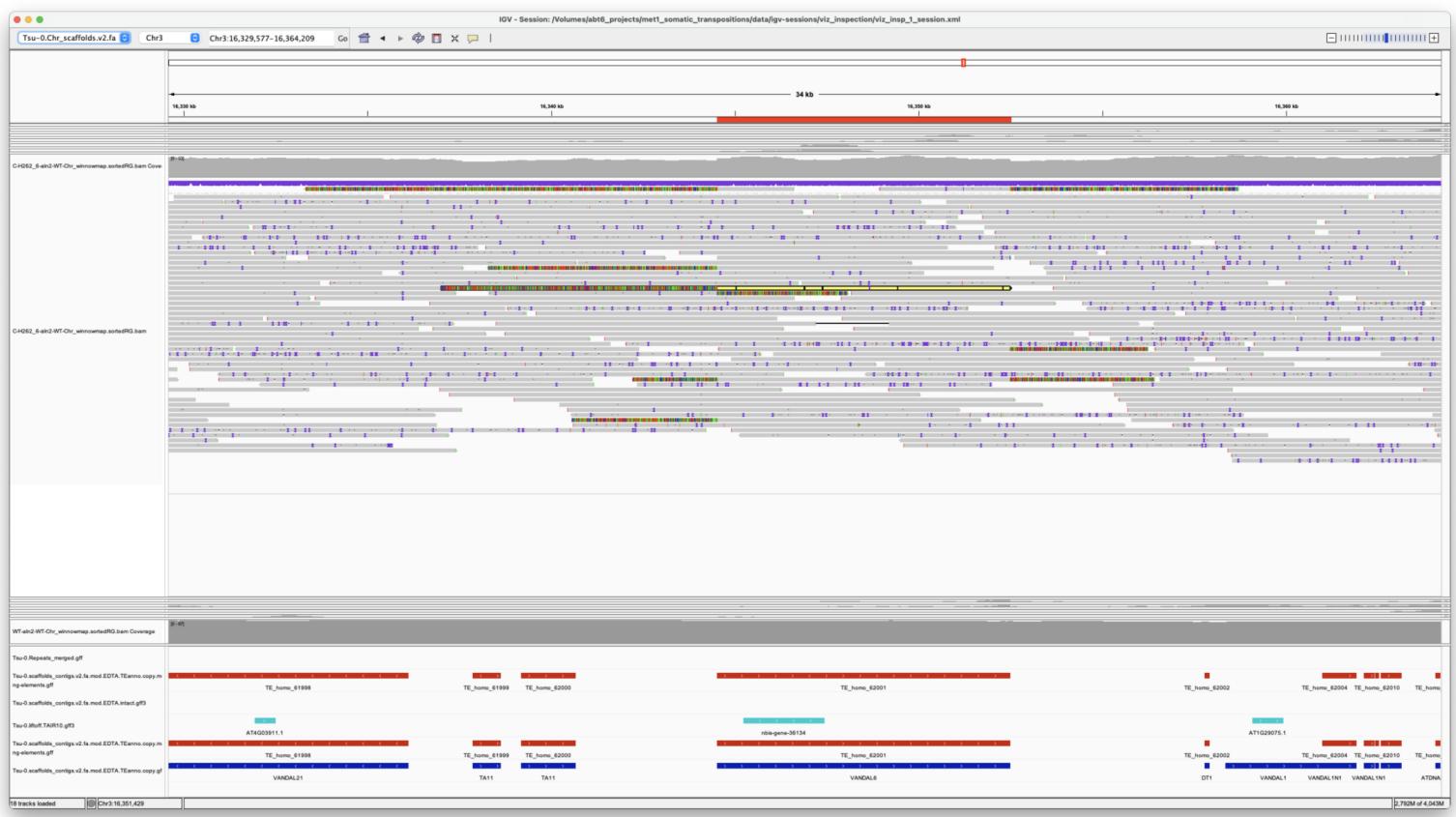
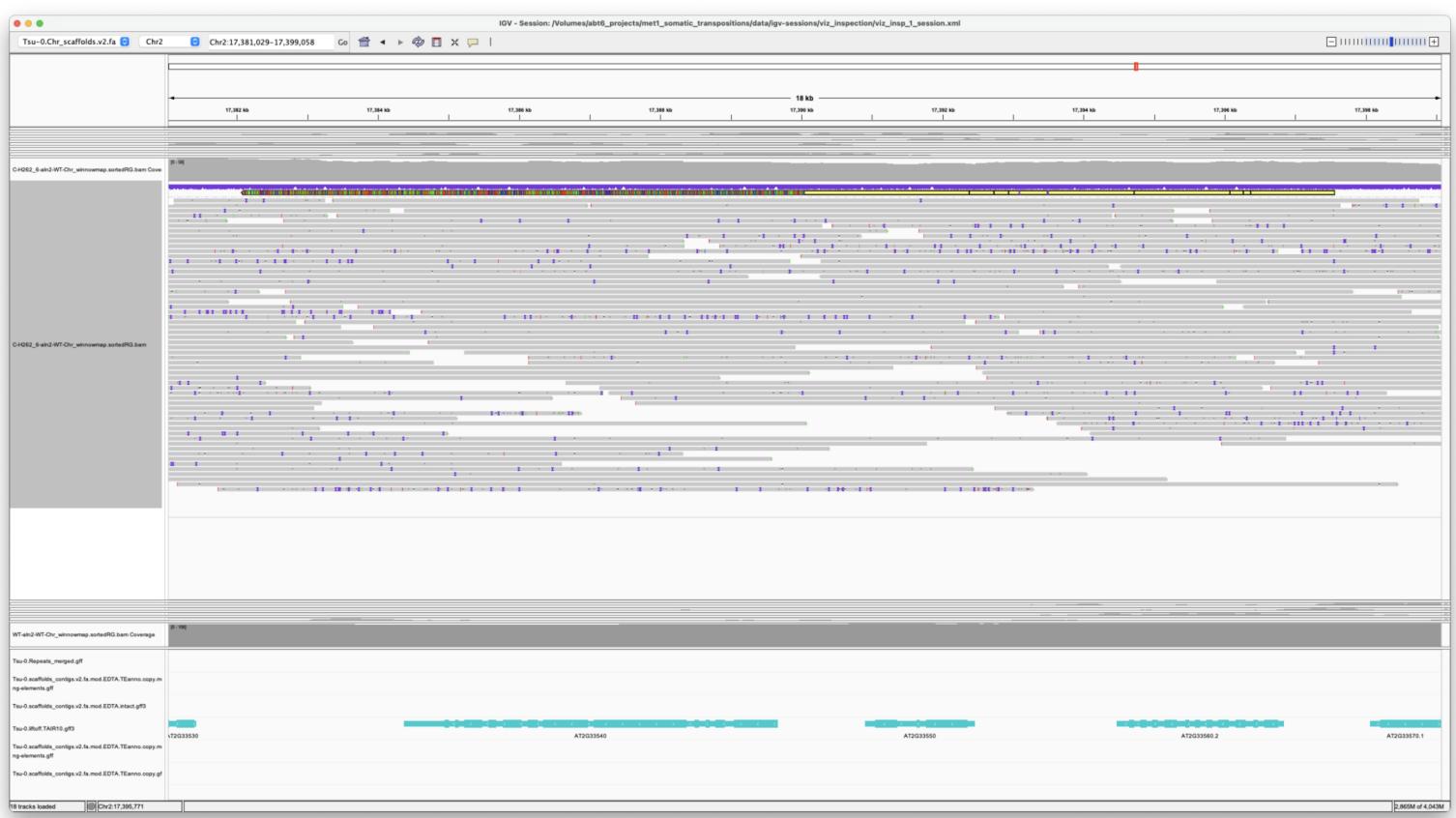
Confirmed



Partial

Confirmed

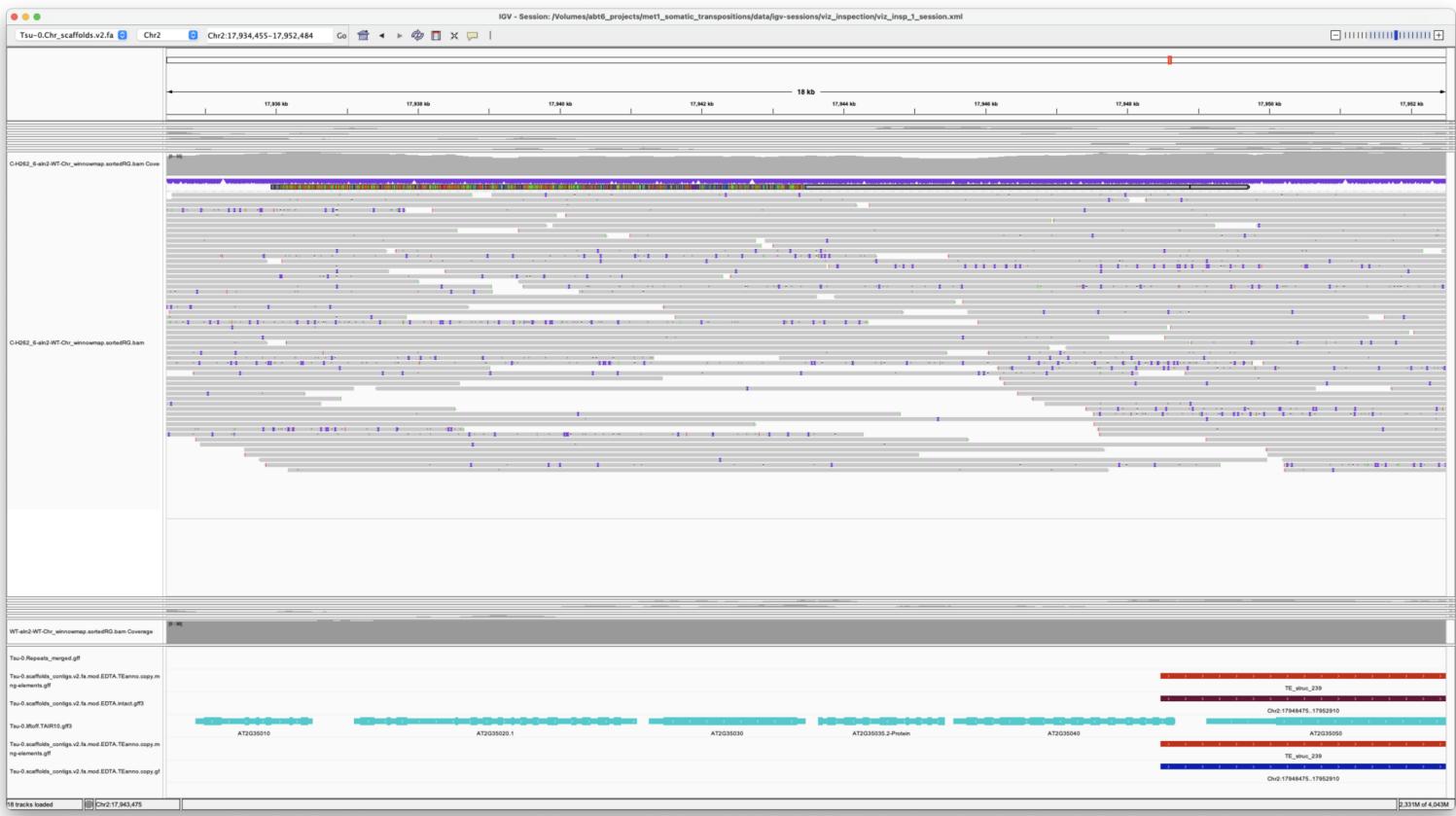
Chr2 17390044 17390044 - 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/76742734/ccs met1_0



Partial

Confirmed

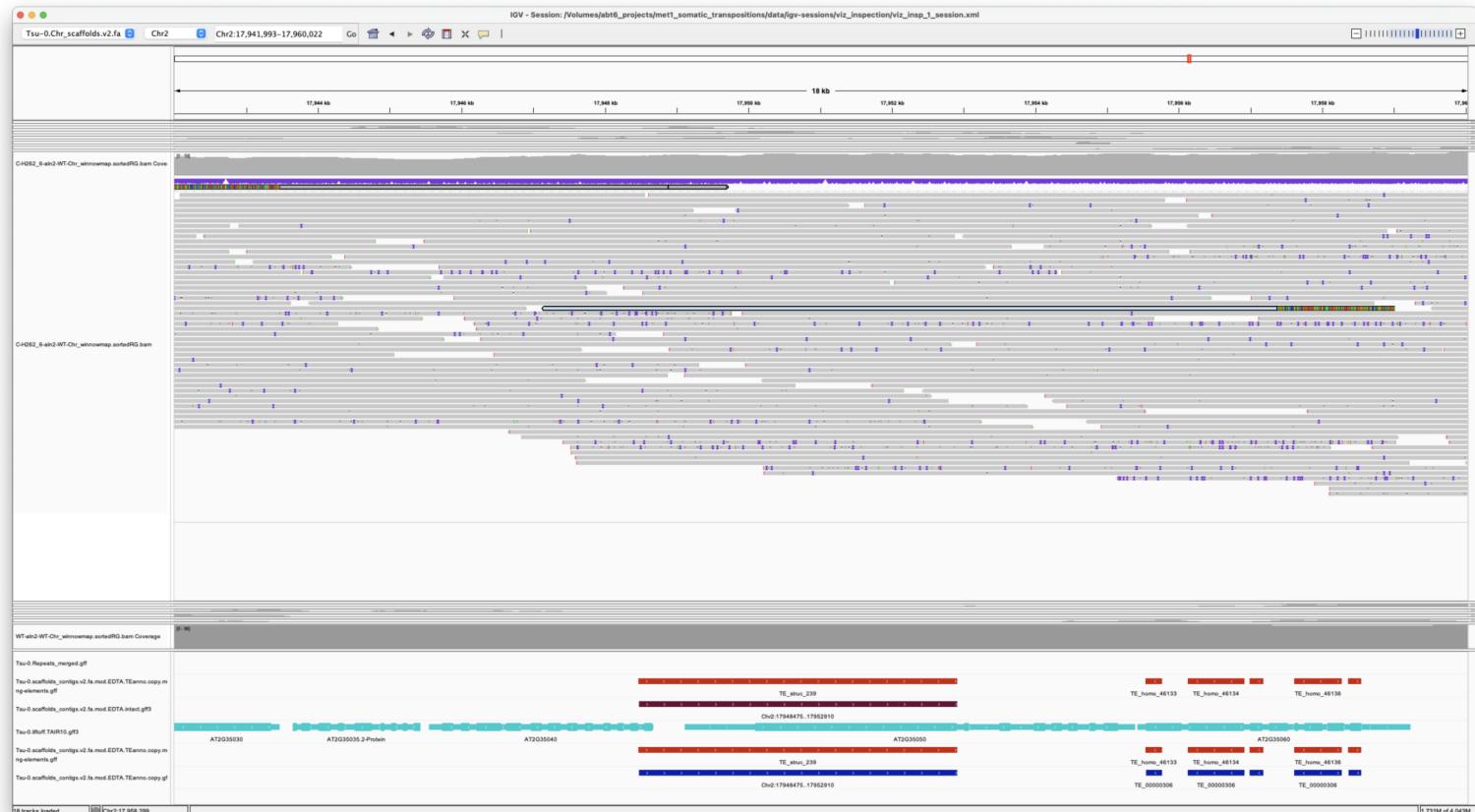
Chr2 17943470 17943470 - 1 Chr3;16344522;16352497;VANDAL6 m64079 240212 113350/1507864/ccs met1 0E



Partial

Confirmed

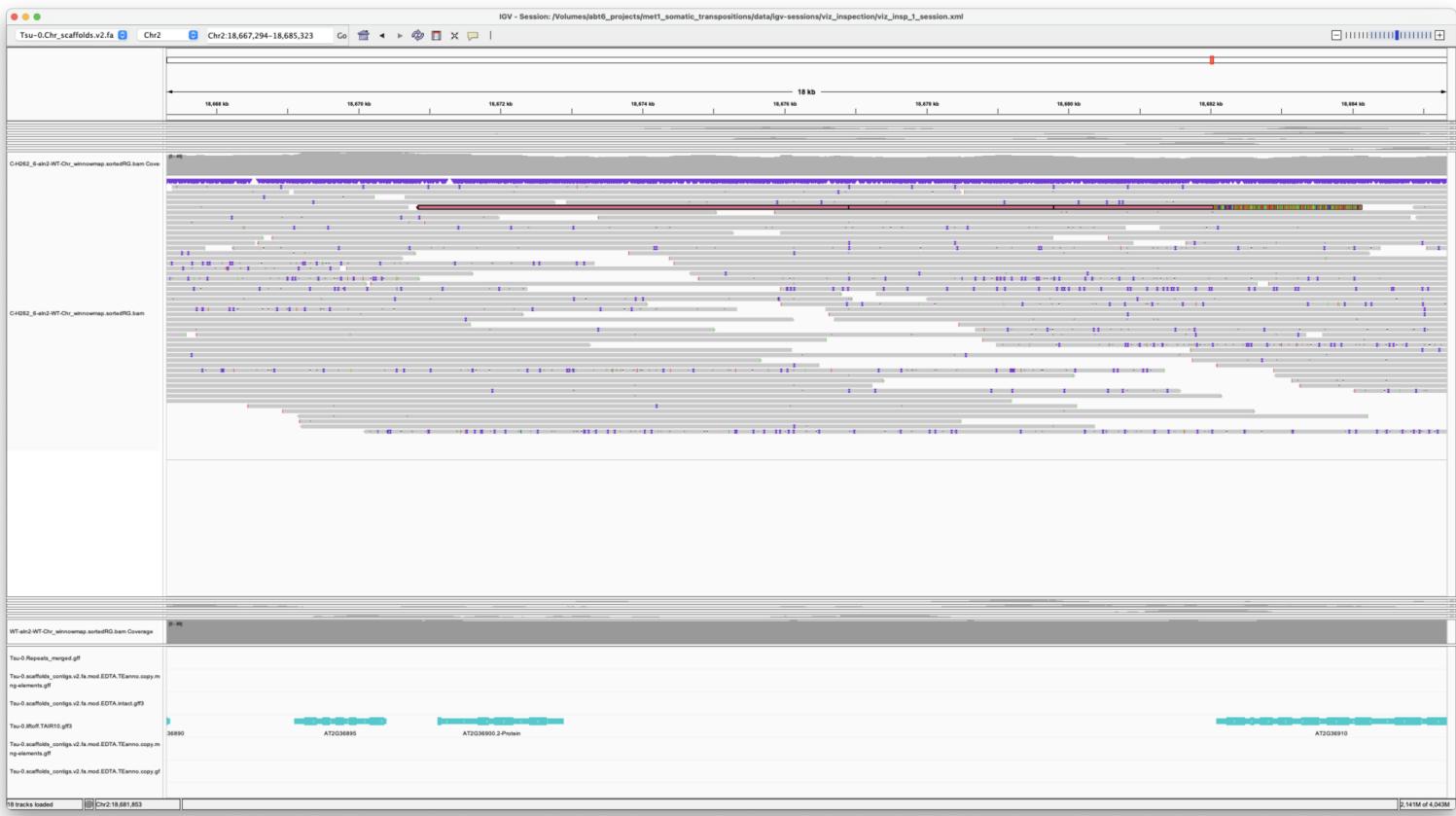
Chr2 17957374 17957374 - 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_240212_113350/85527024/ccs met1_06



Partial

Confirmed

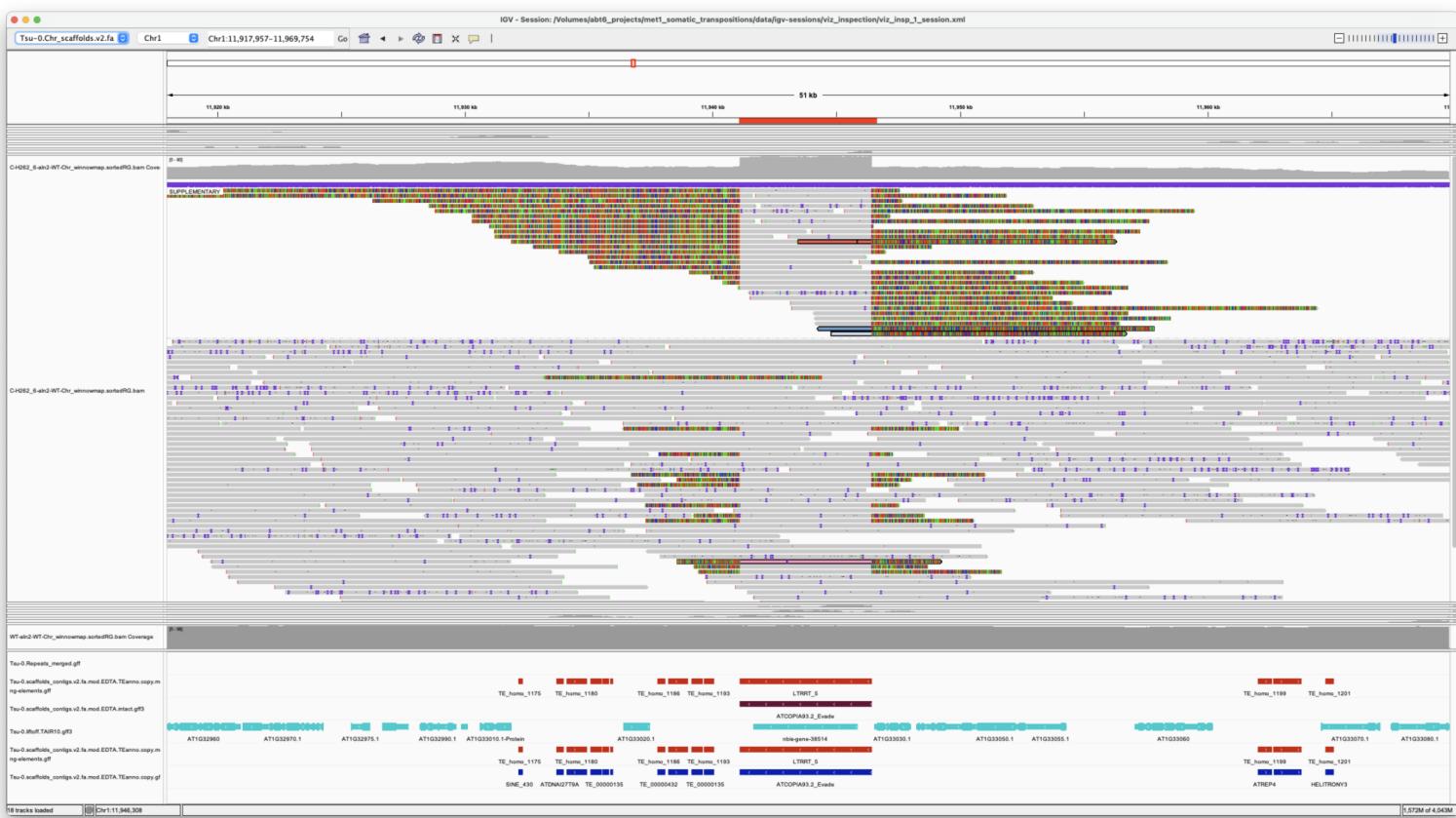
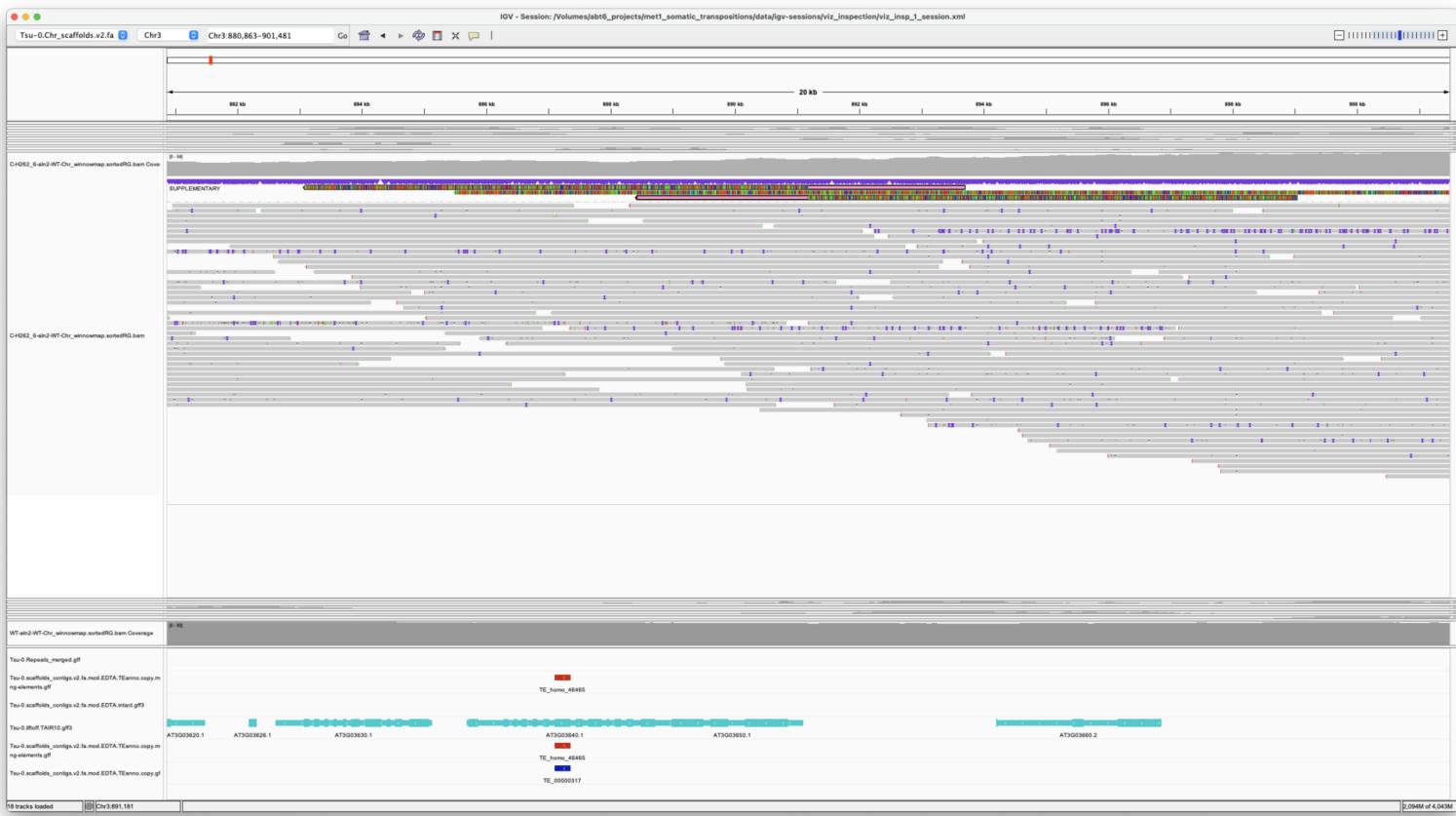
Chr2 18682044 18682044 + 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/17106667/ccs met1_0



Partial

Confirmed

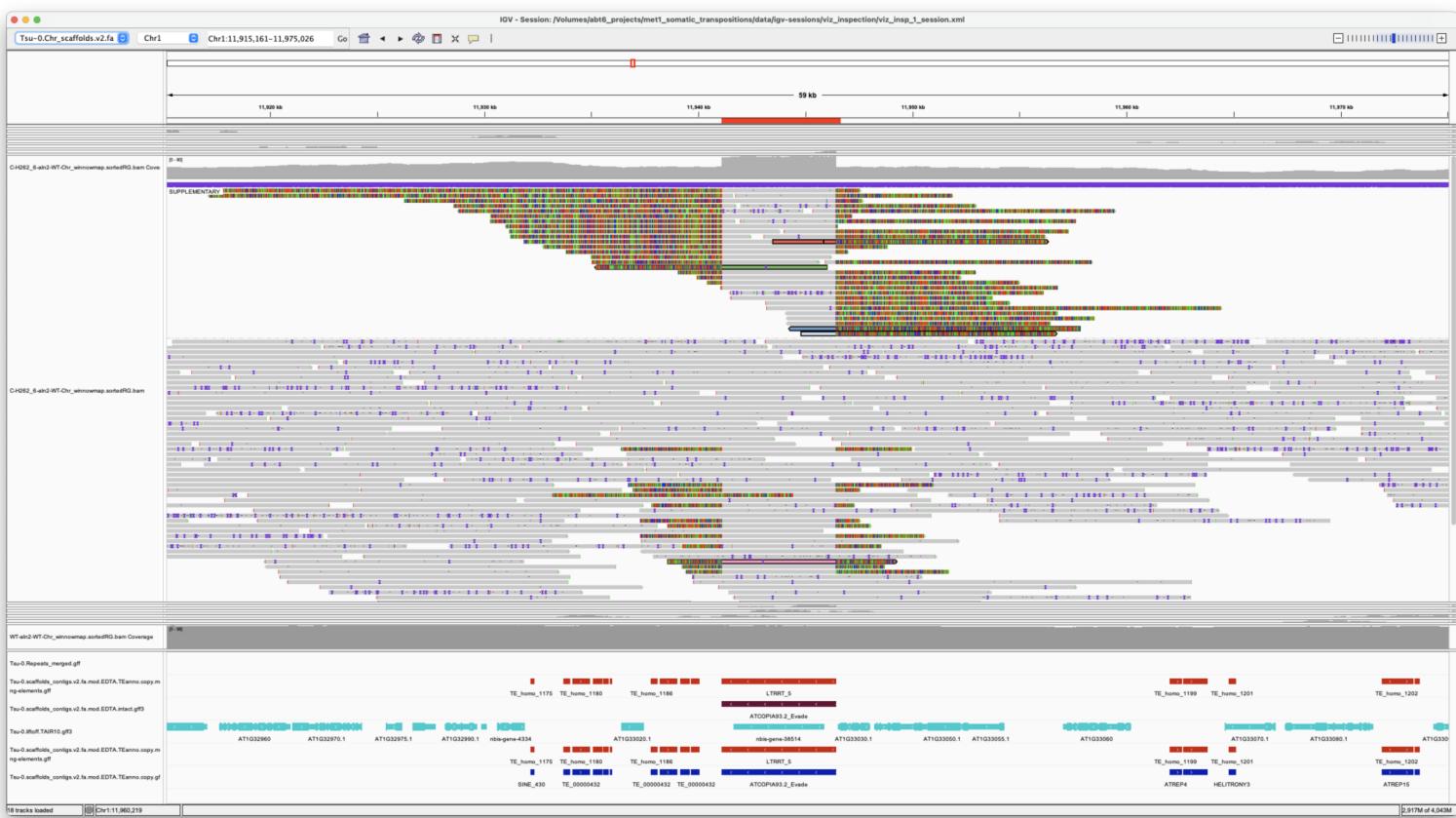
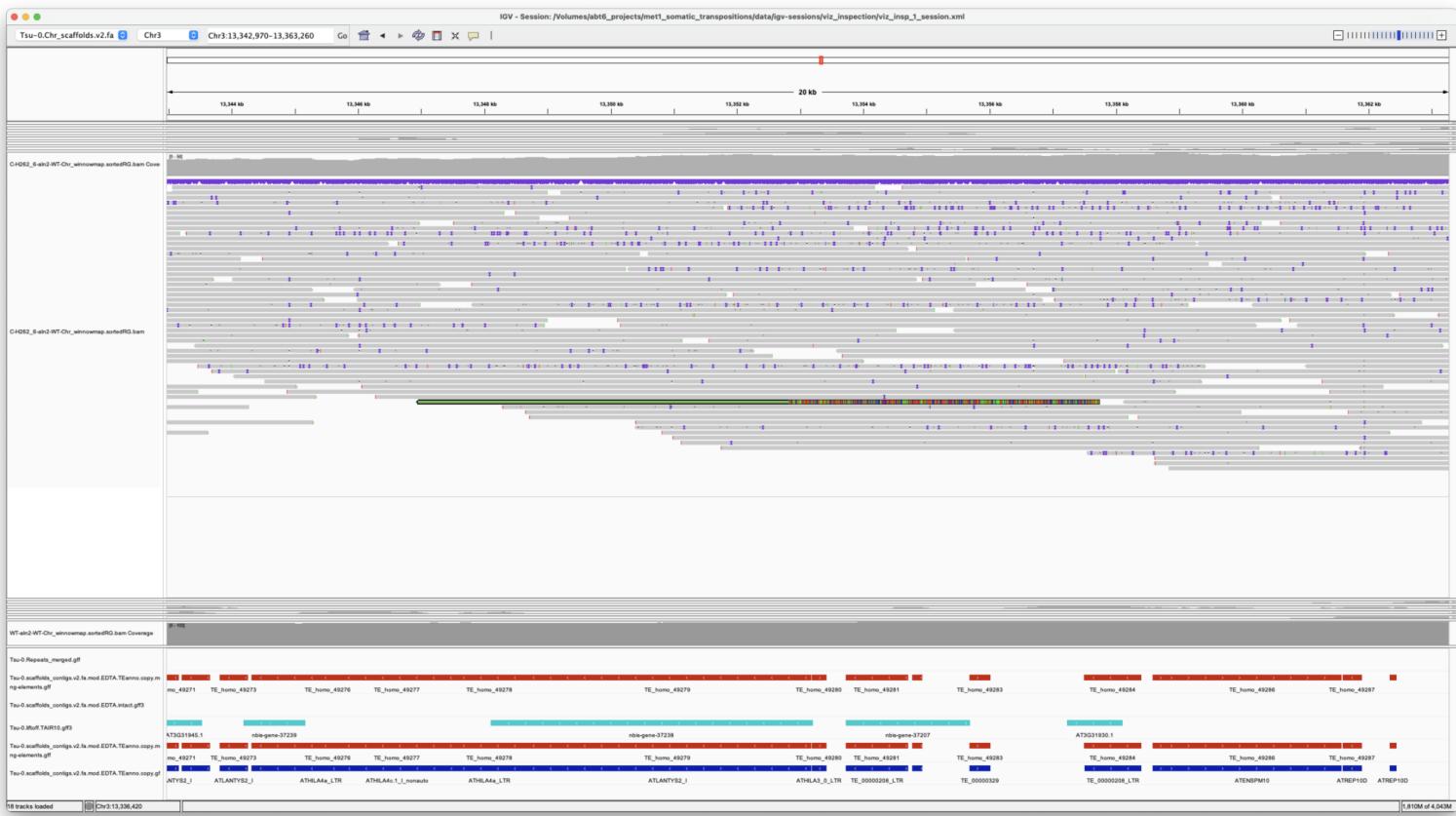
Chr3 891173 891173 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/172623965/ccs met1_06



Central
TSD

Confirmed

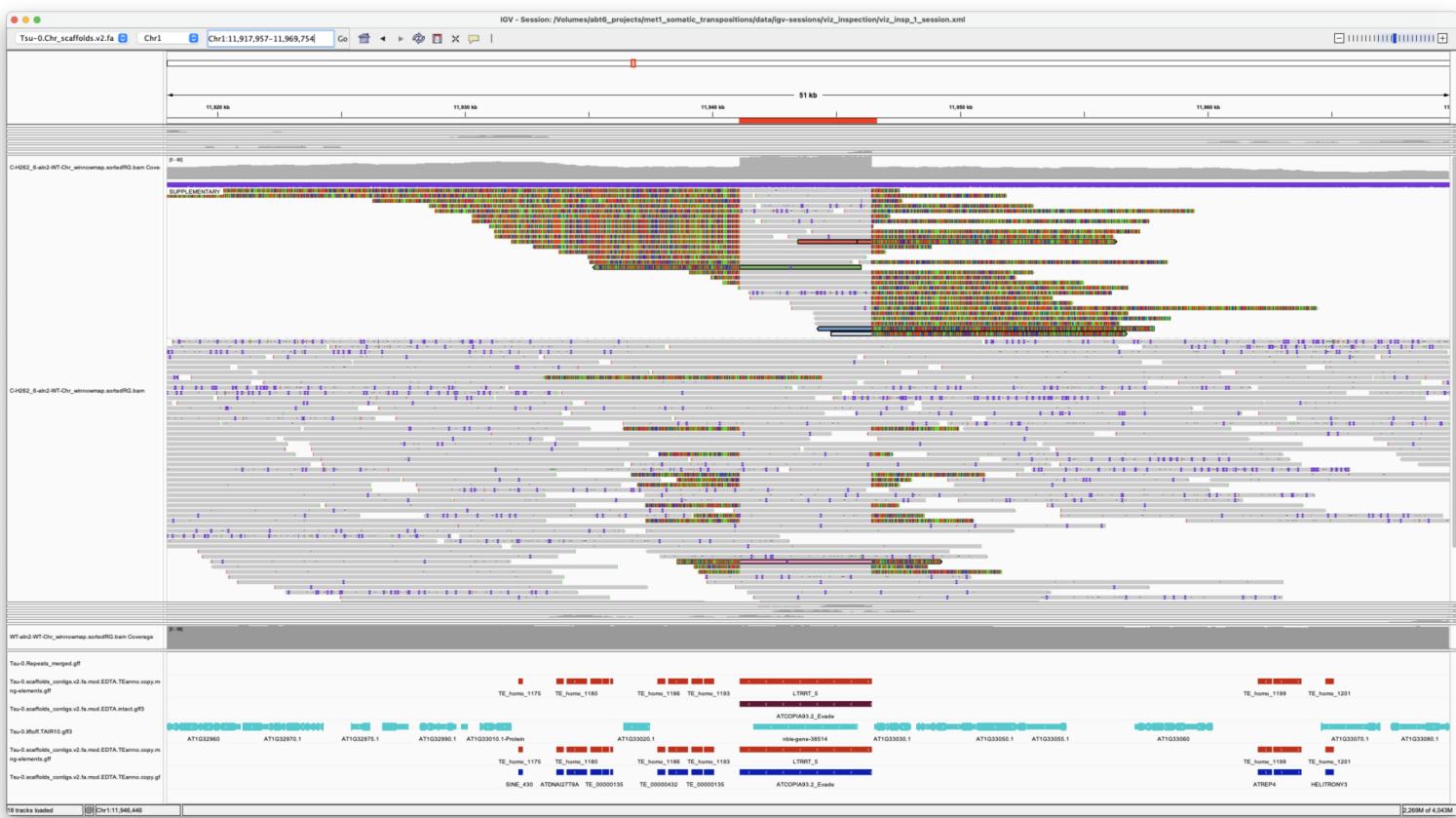
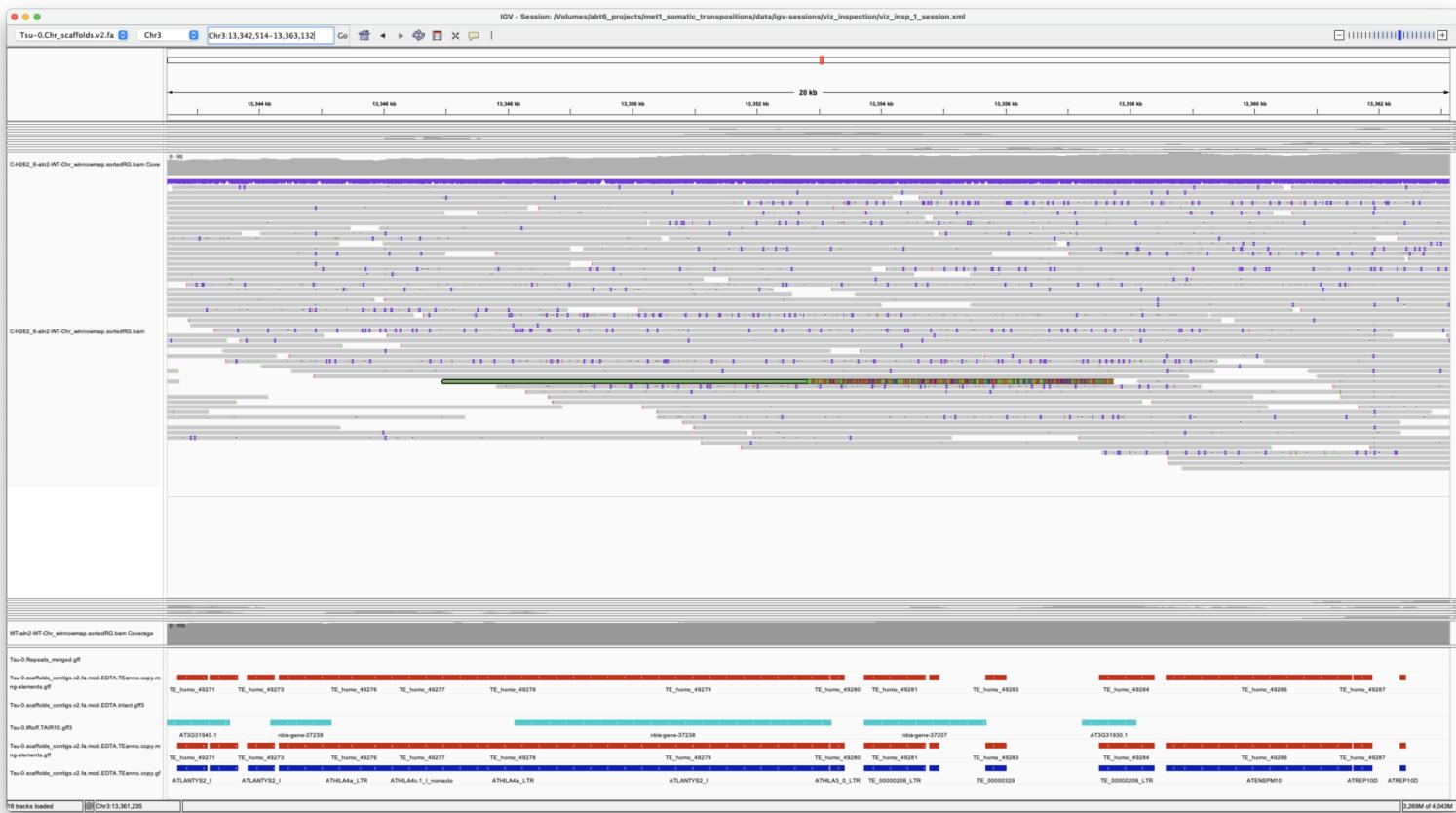
Chr3 13352824 13352824 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/169738614/ccs met1_06



Partial

Confirmed

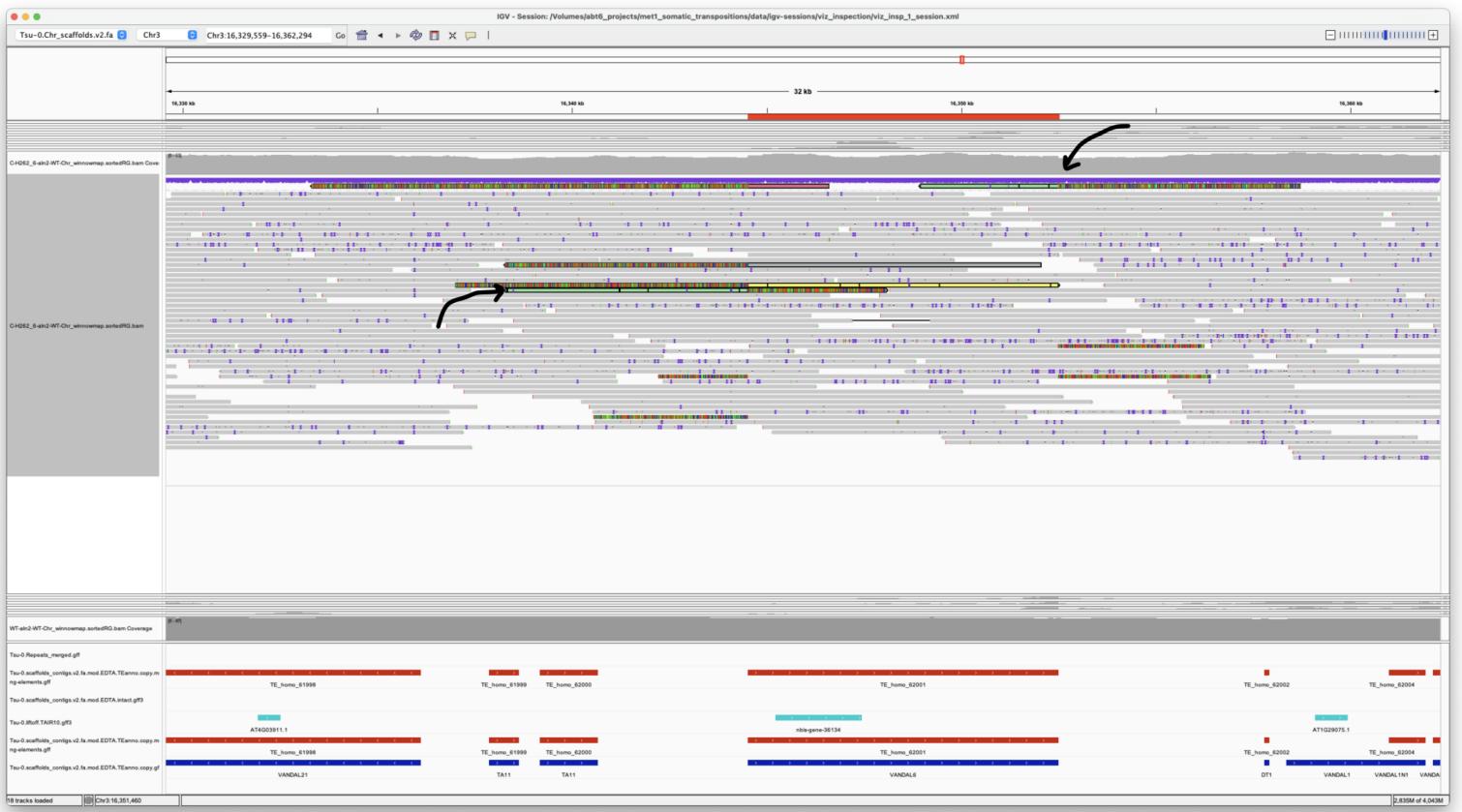
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Partial

Confirmed

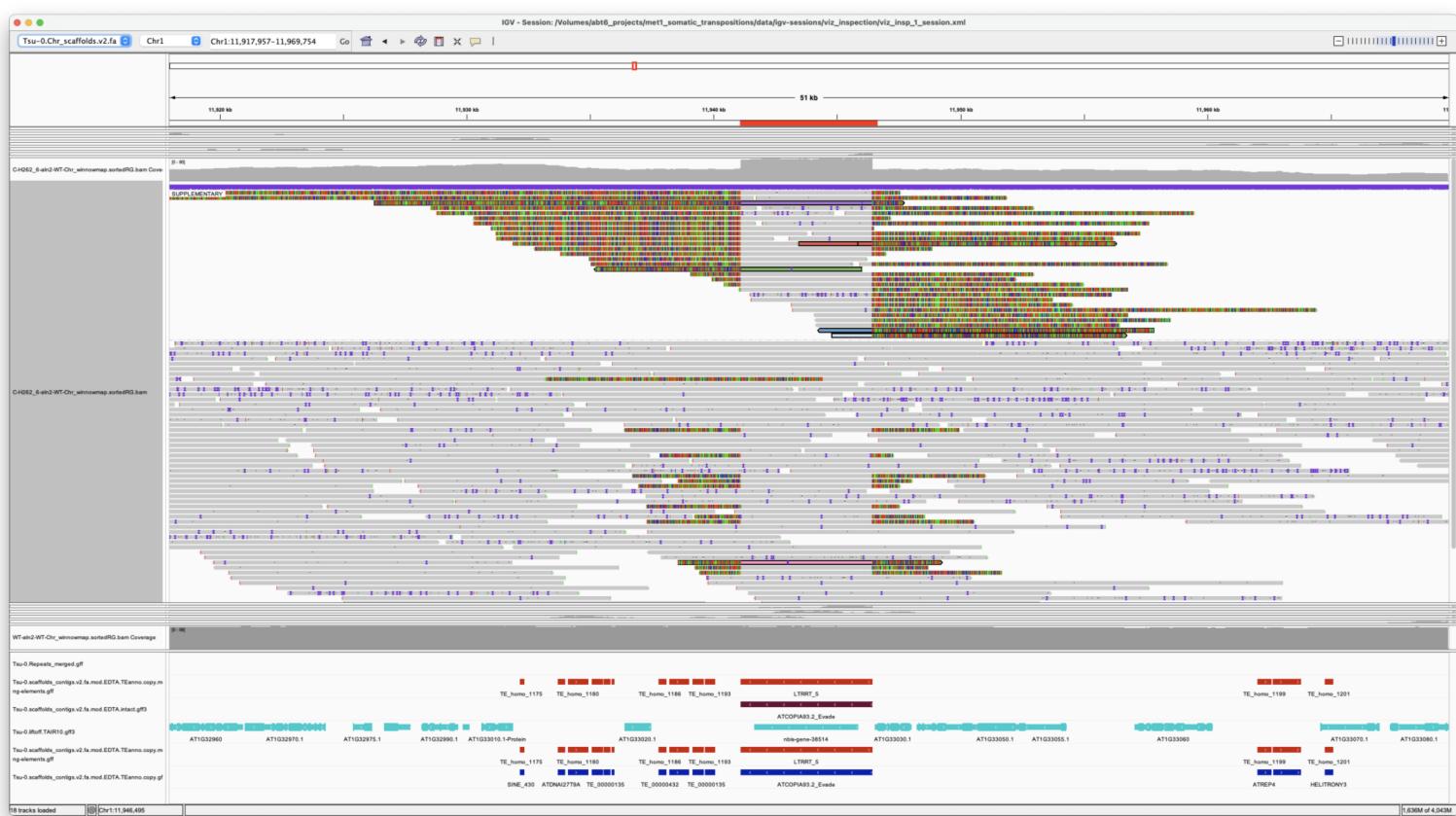
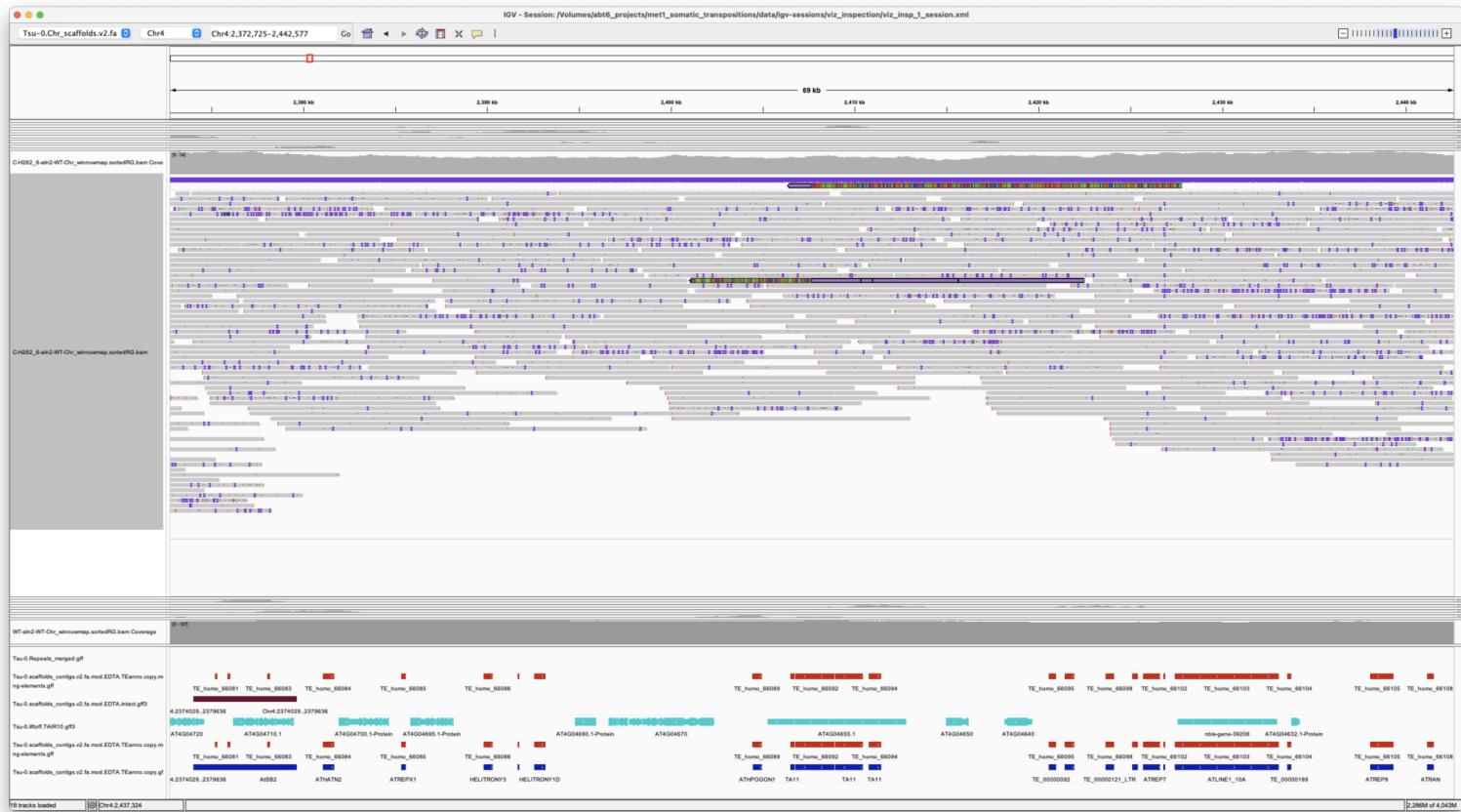
Chr3 16344523 16344523 - 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/71633312/ccs met1_06



Rearrangement

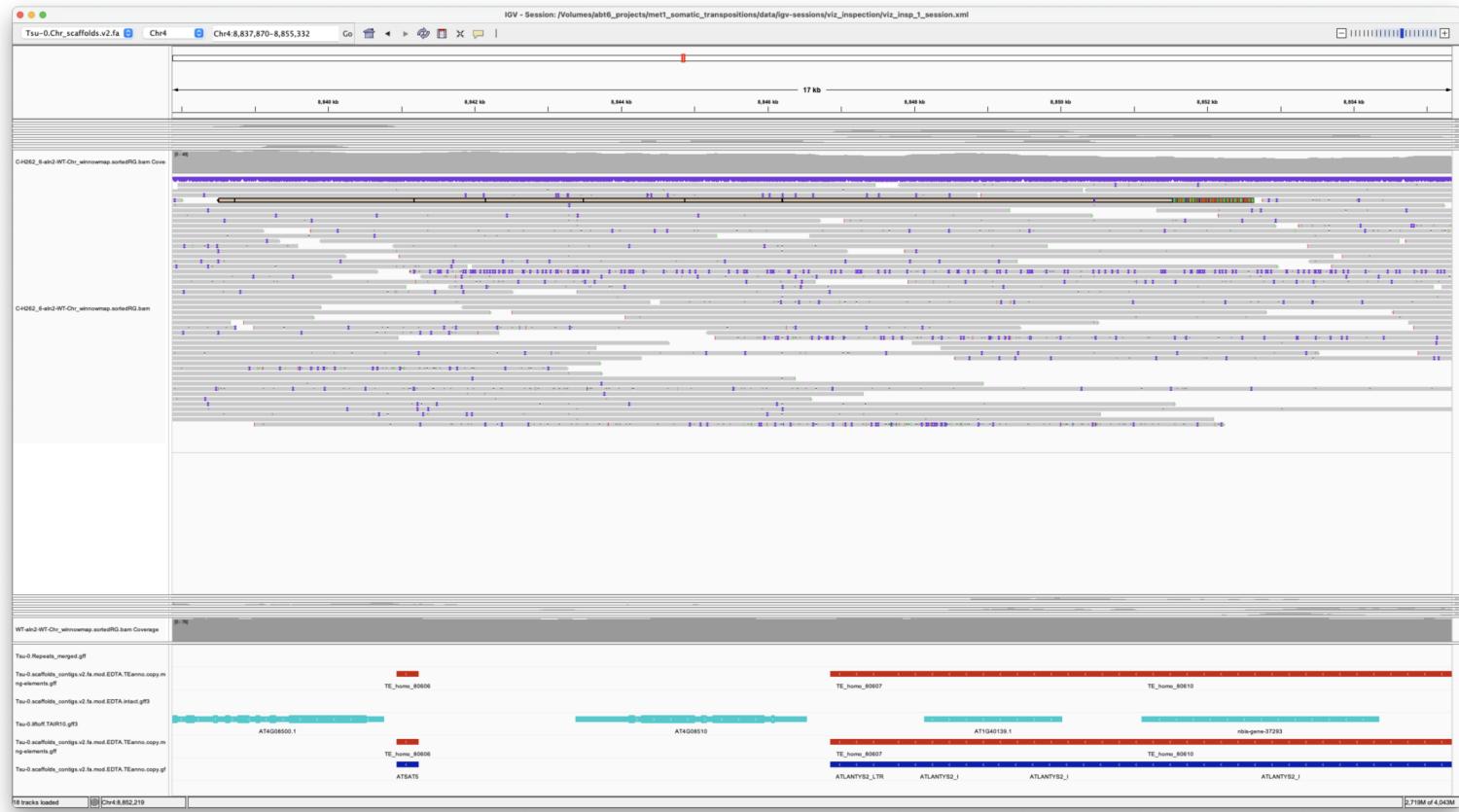
unsupported

Chr4 2407651 2407651 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/11666852/ccs met1_06



Central
TSD

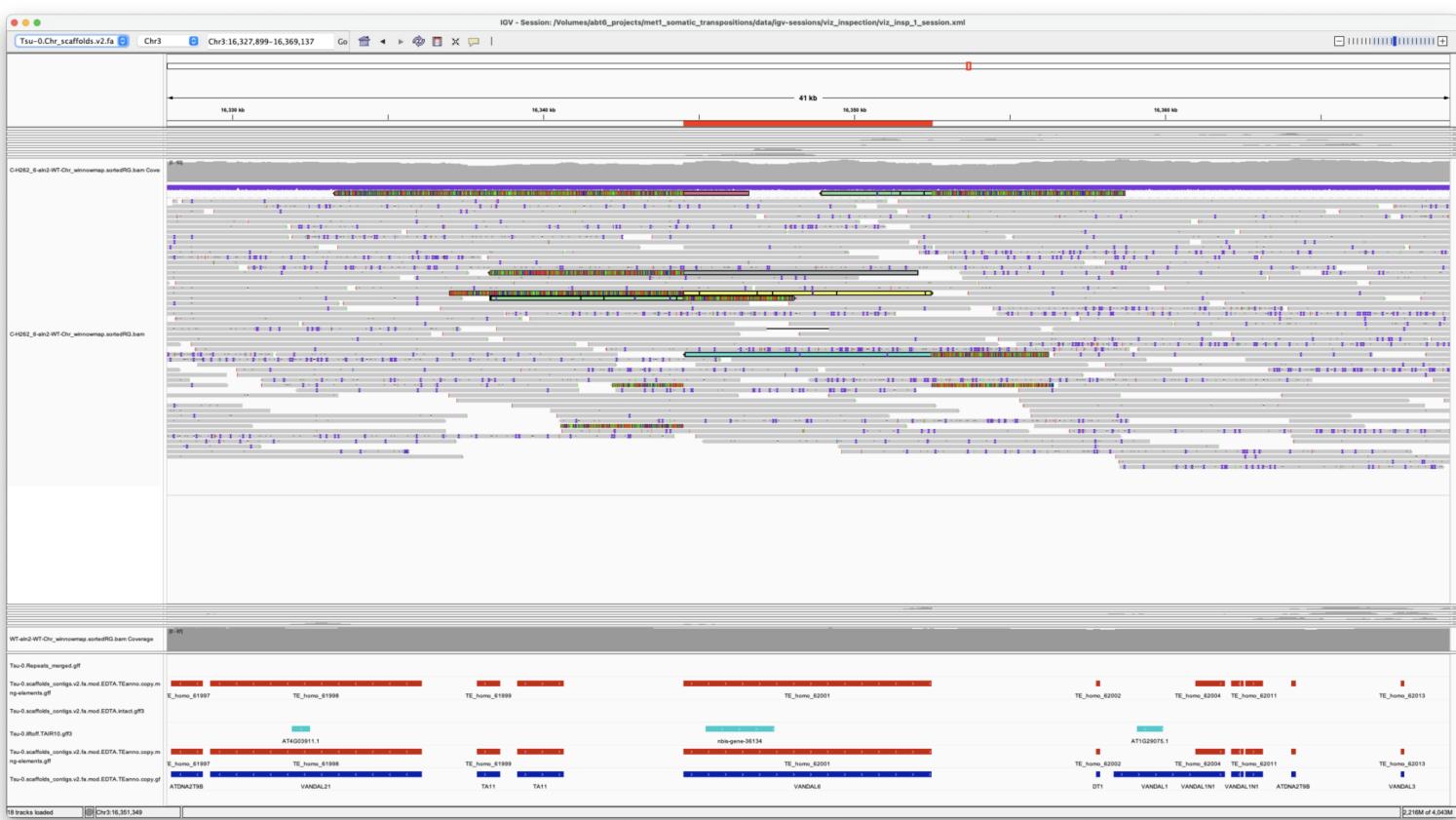
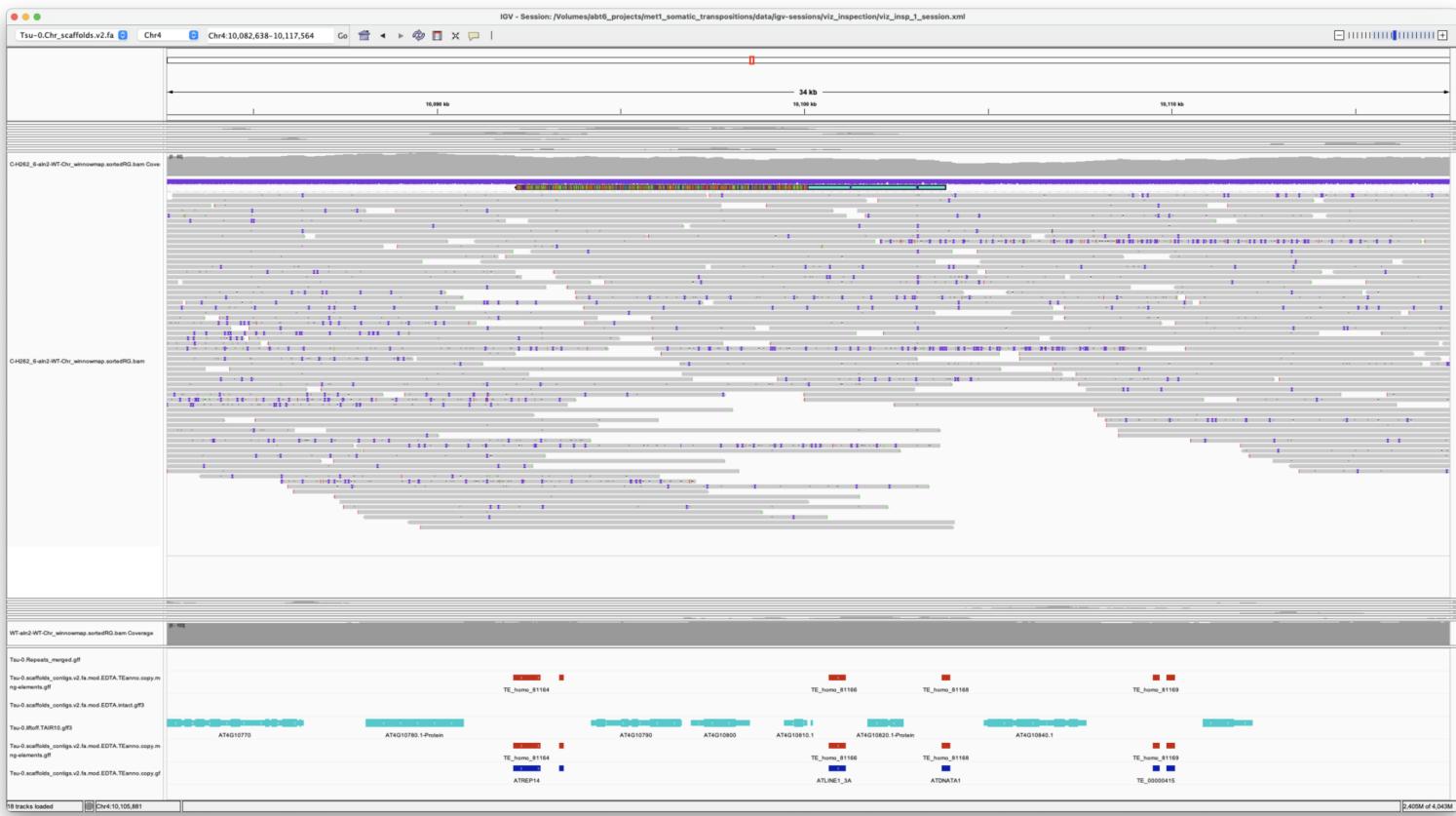
Confirmed



Partial

Confirmed

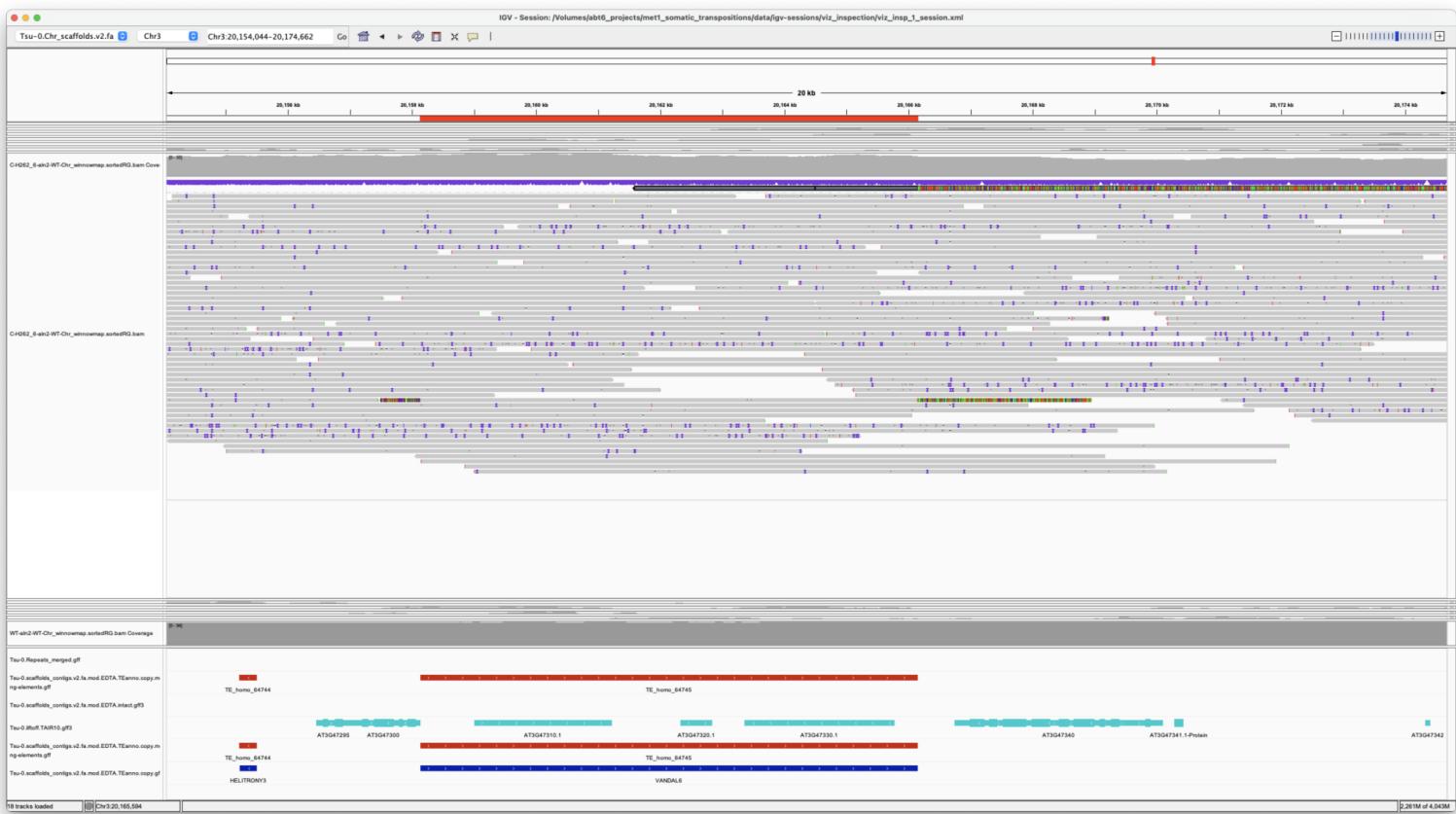
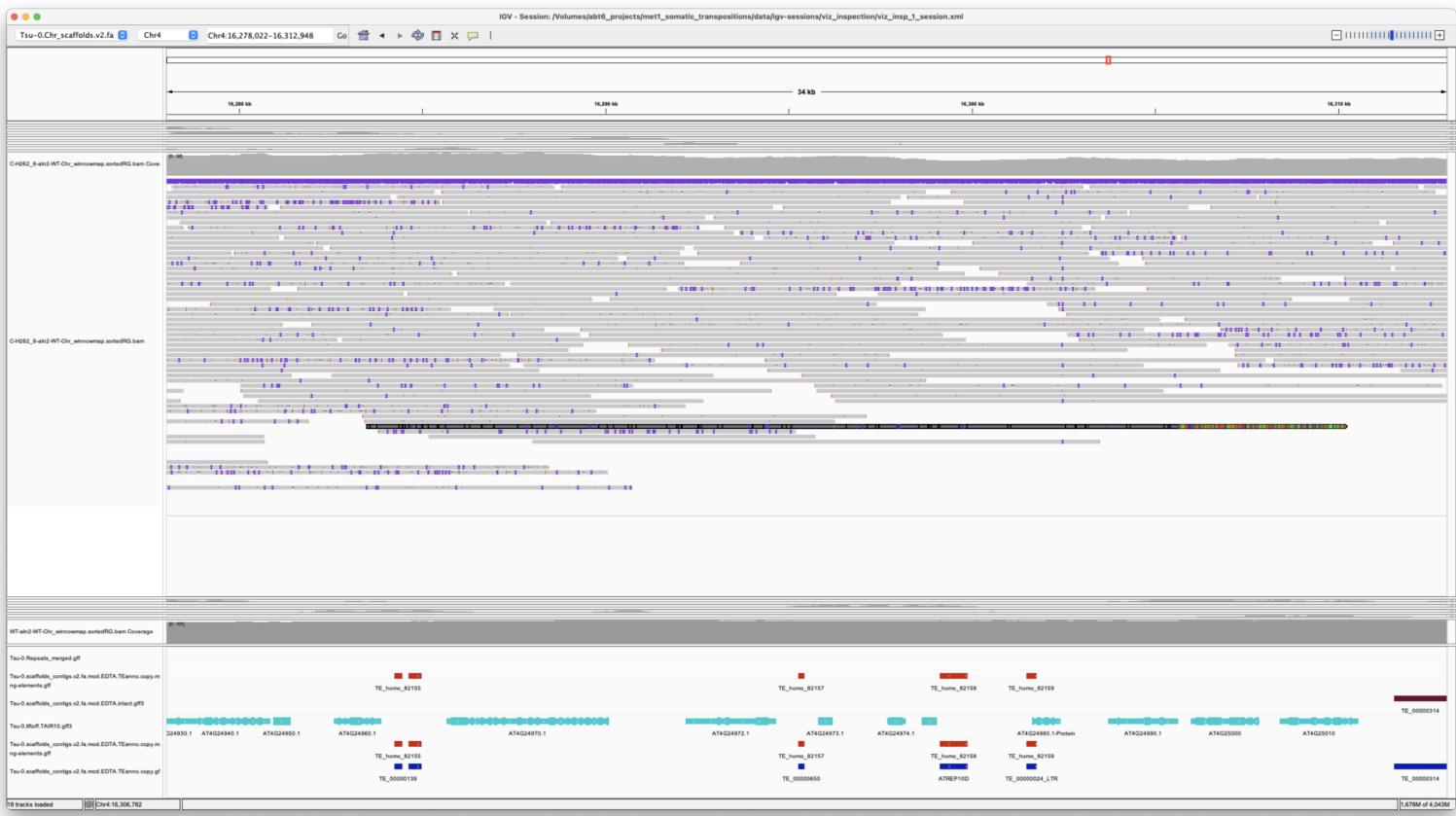
Chr4 10100102 10100102 + 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/27658802/ccs met1_0



Partial

Confirmed

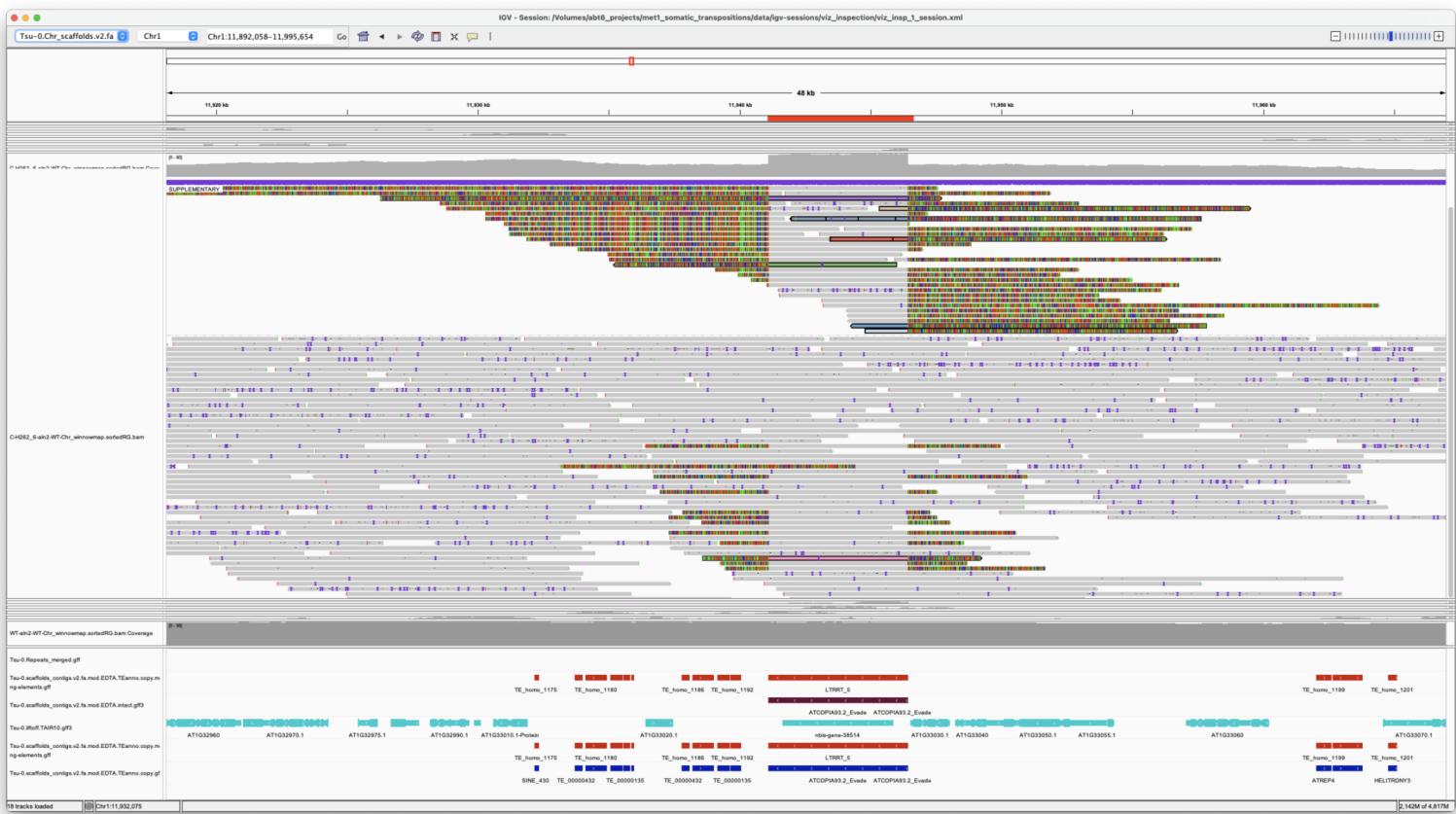
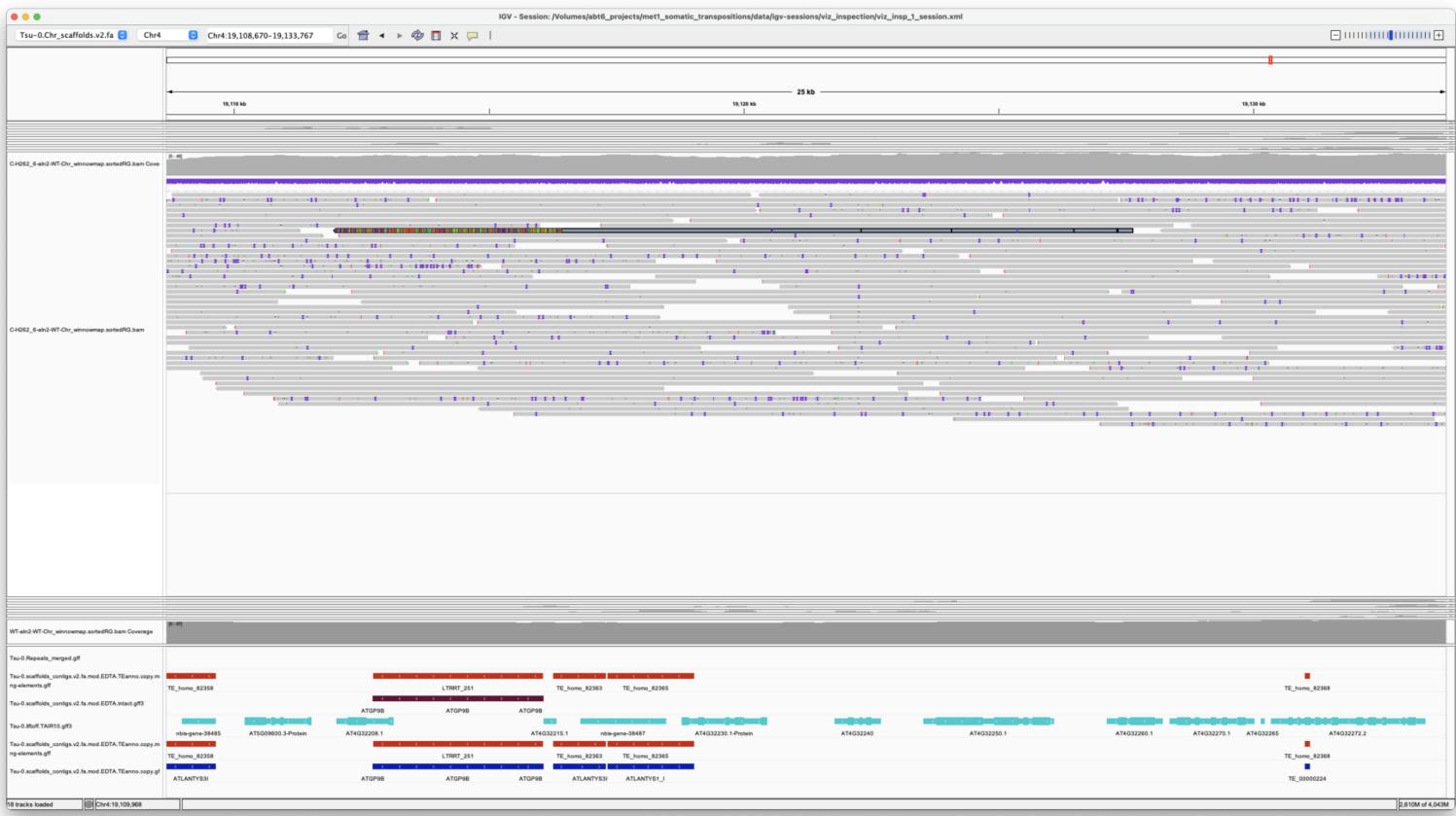
Chr4 16305632 16305632 - 1 Chr3:20158137:20166150;VANDAL6 m64079_240212_113350/51382961/ccs met1_06



Partial

Confirmed

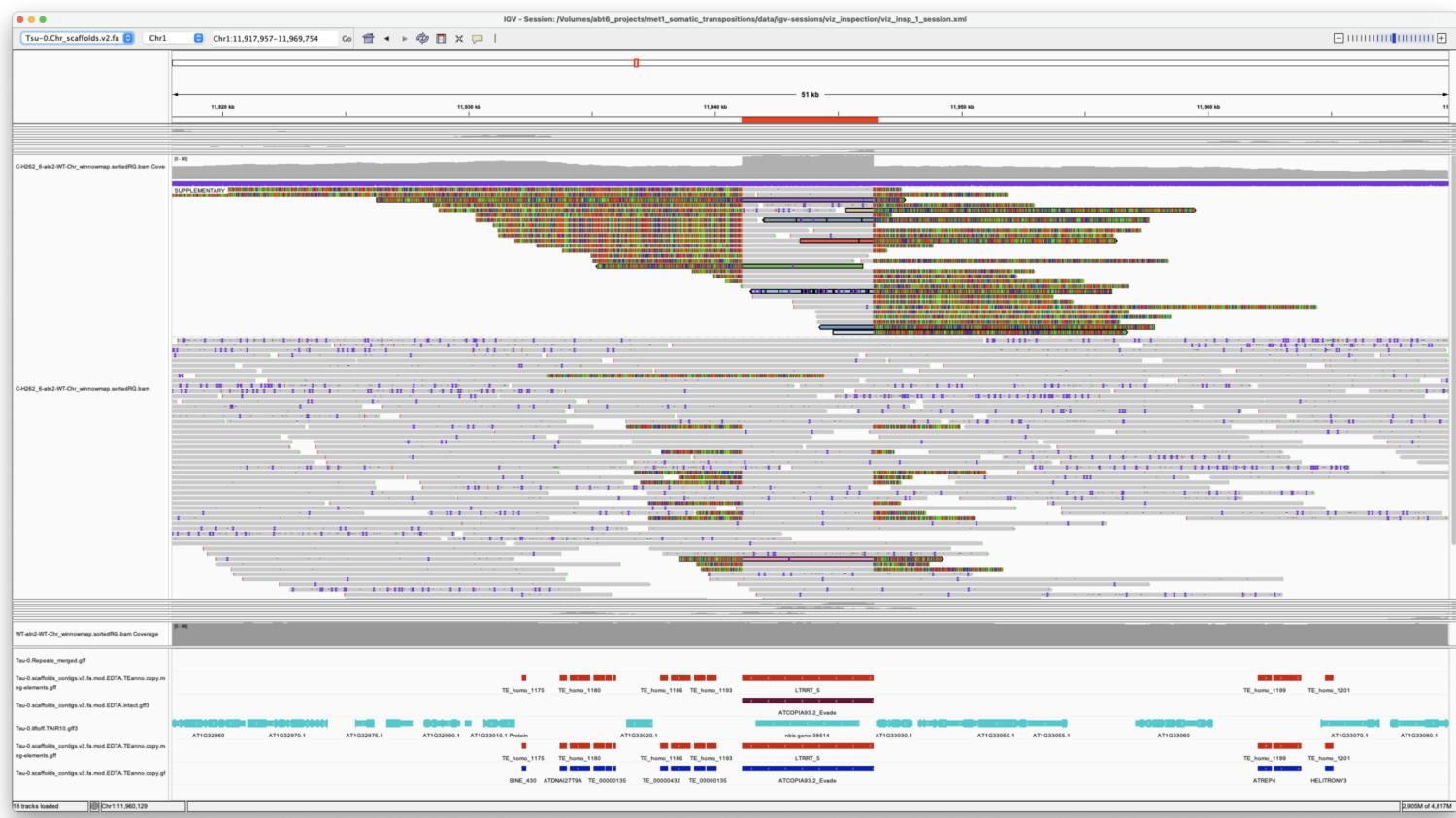
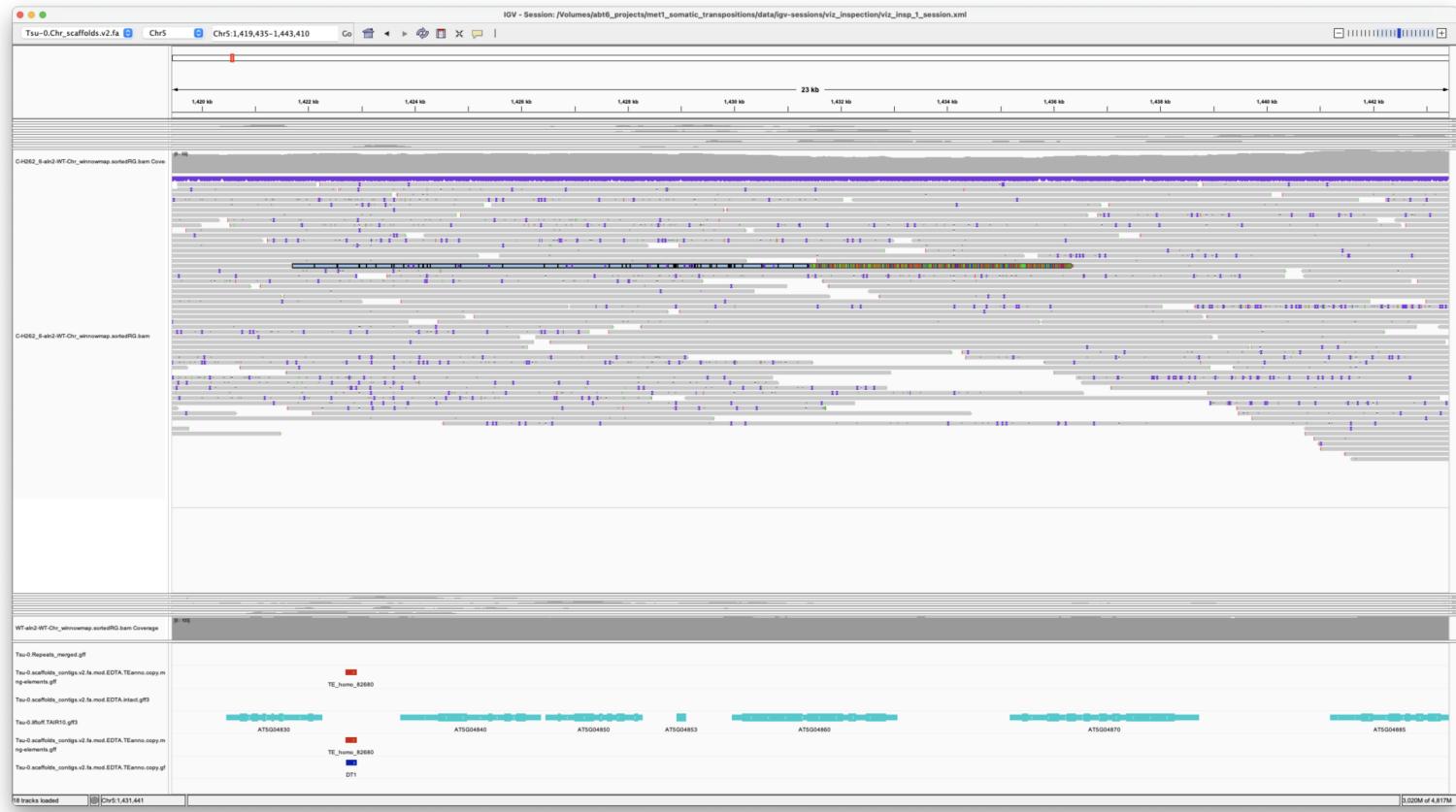
Chr4 19116429 19116429 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/60293631/ccs met1_06



Partial

Confirmed

Chr5 1431423 1431423 - 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_240212_113350/144902566/ccs met1_06



Partial

Confirmed

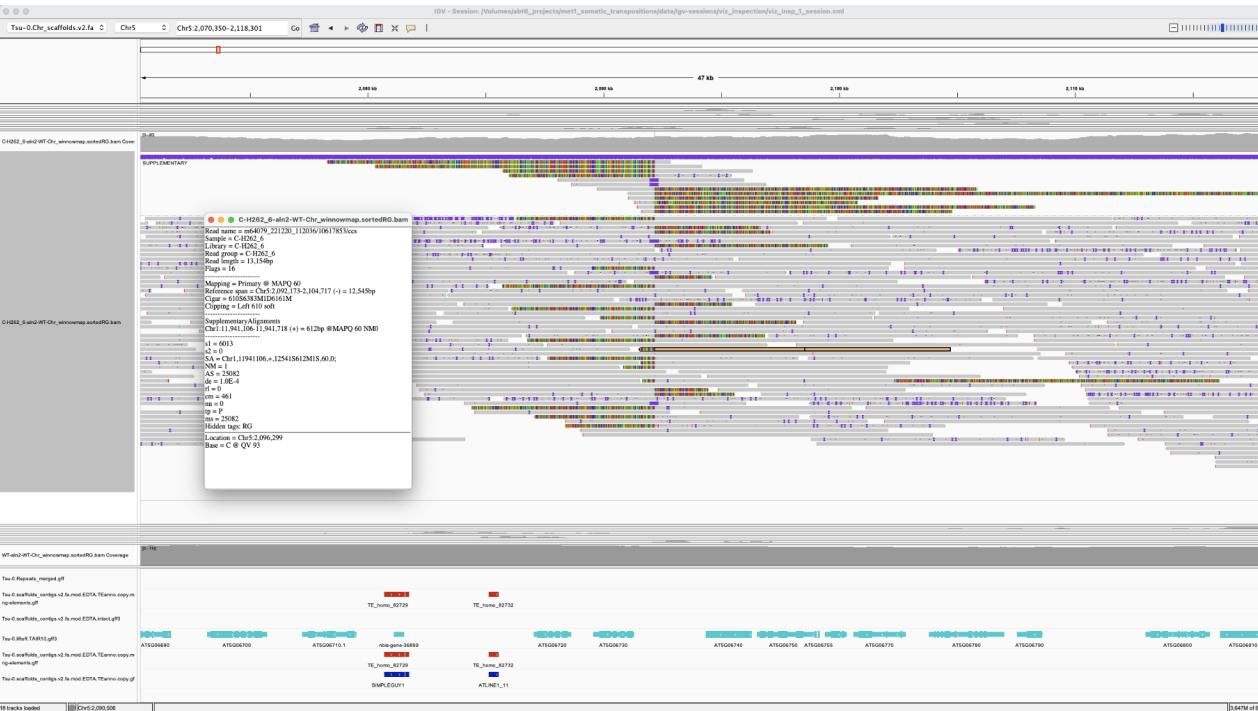
Chr5 2092171 2092173 -,+,-,+,-,-,+,-,-,+,-,-,-,+,-,- 17

UNCLEAR IF IT IS TWO OR ONE INSERTIONS, OR ONE INSERTION PLUS REARRANGEMENT

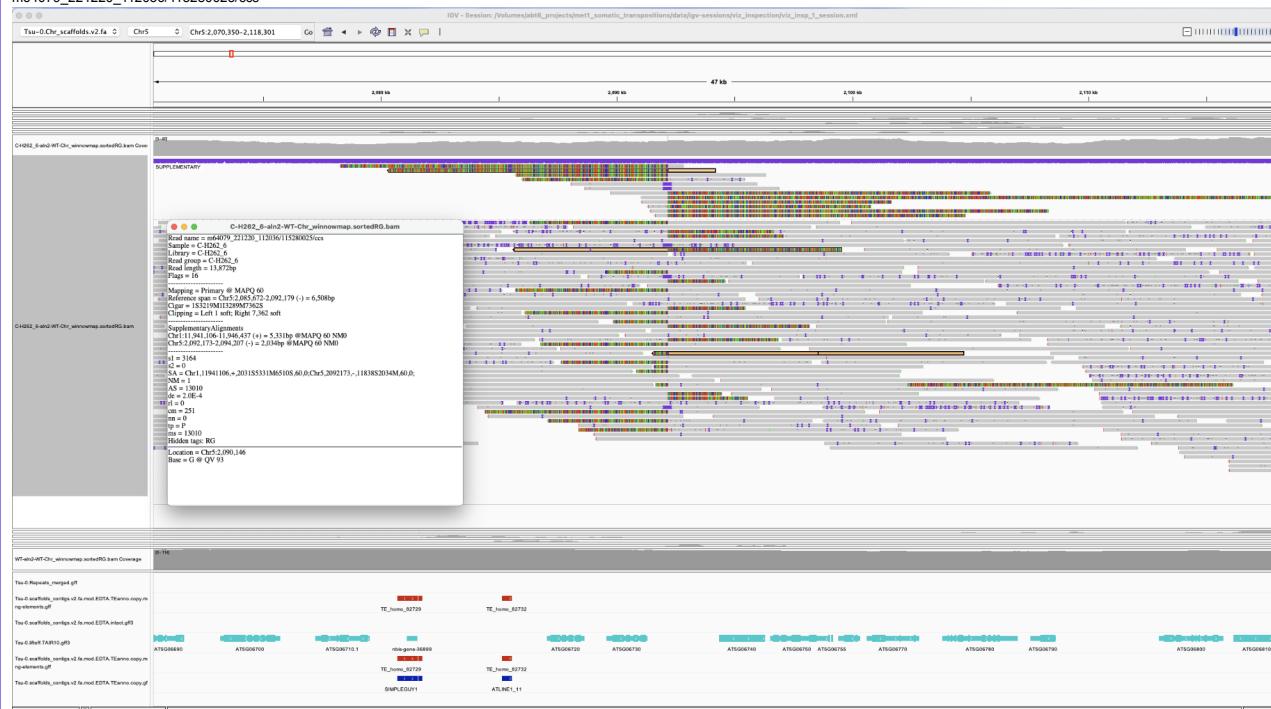
Because different insertion directions.

ALSO THERE ARE UNDETECTED INSERTIONS!!

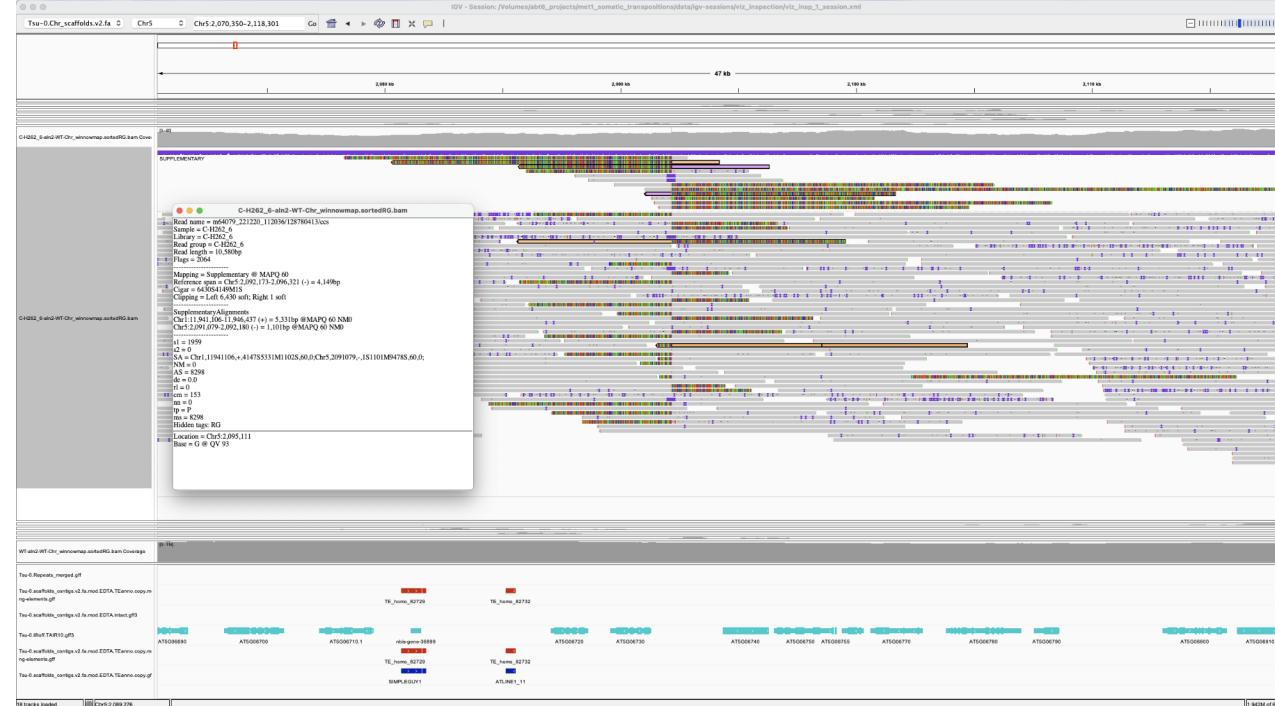
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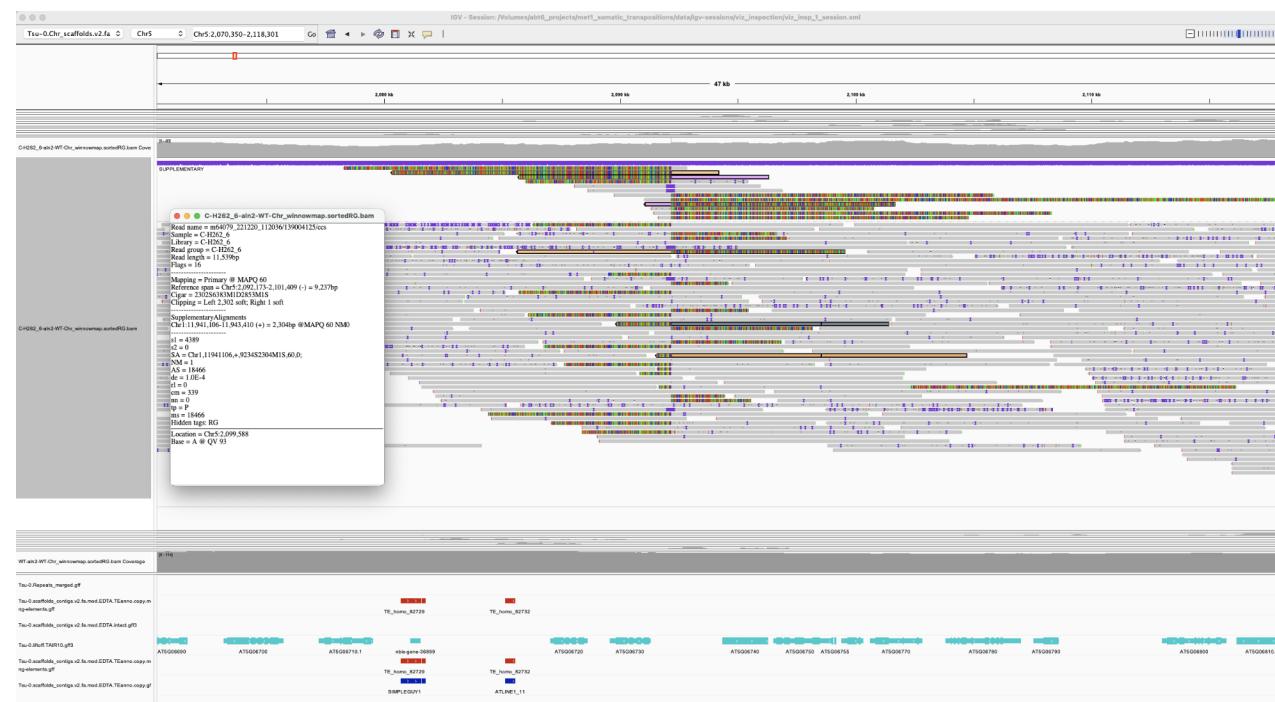
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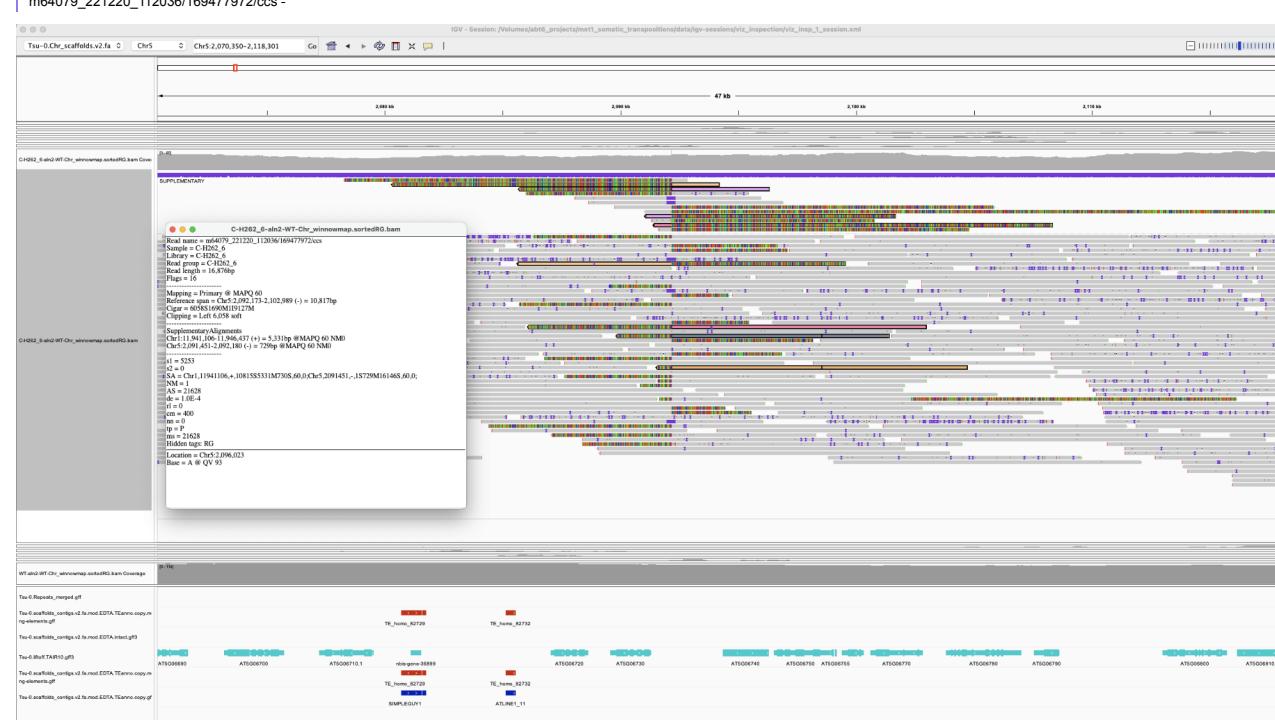
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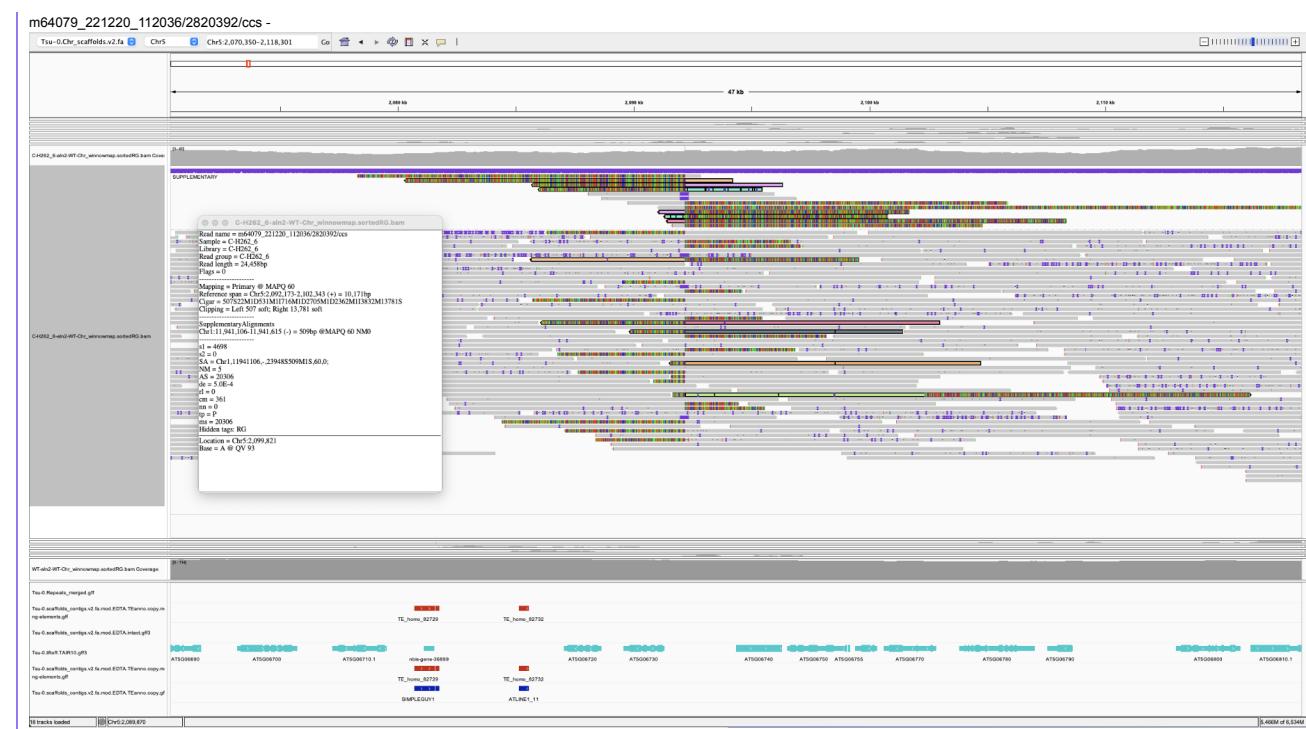
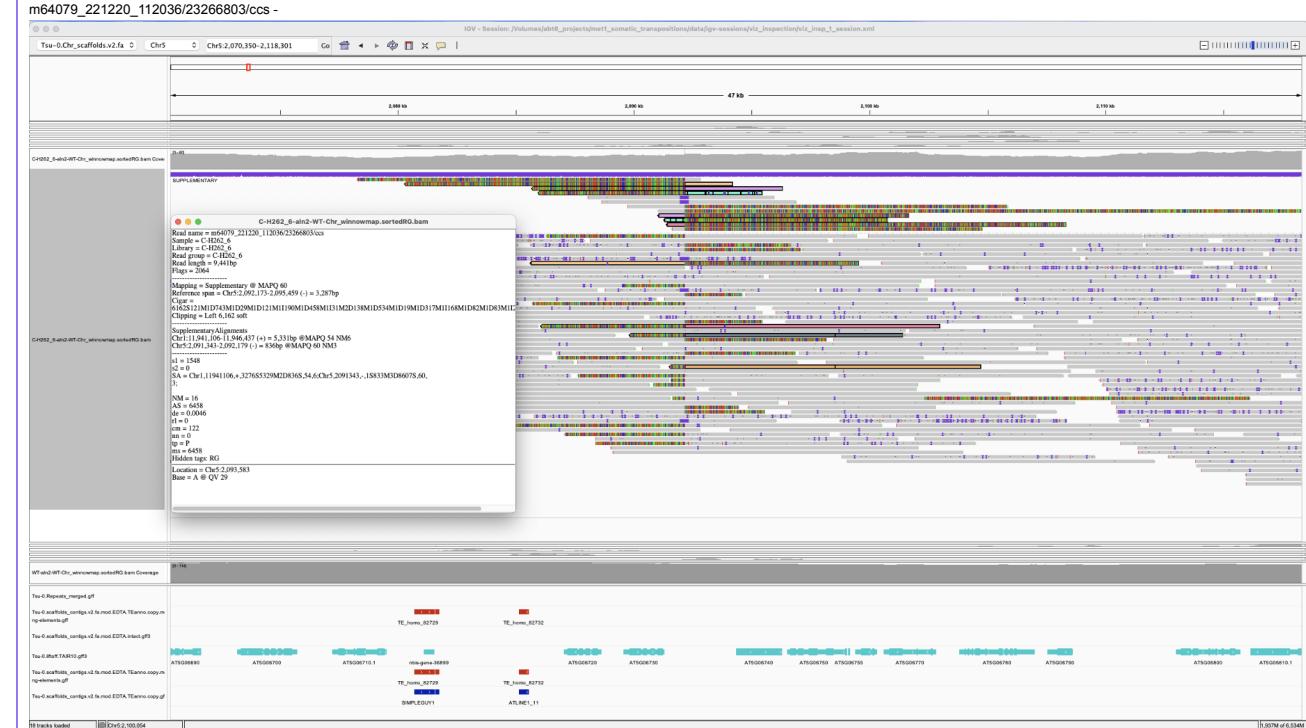


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2018 RELEASE UNDER E.O. 14176

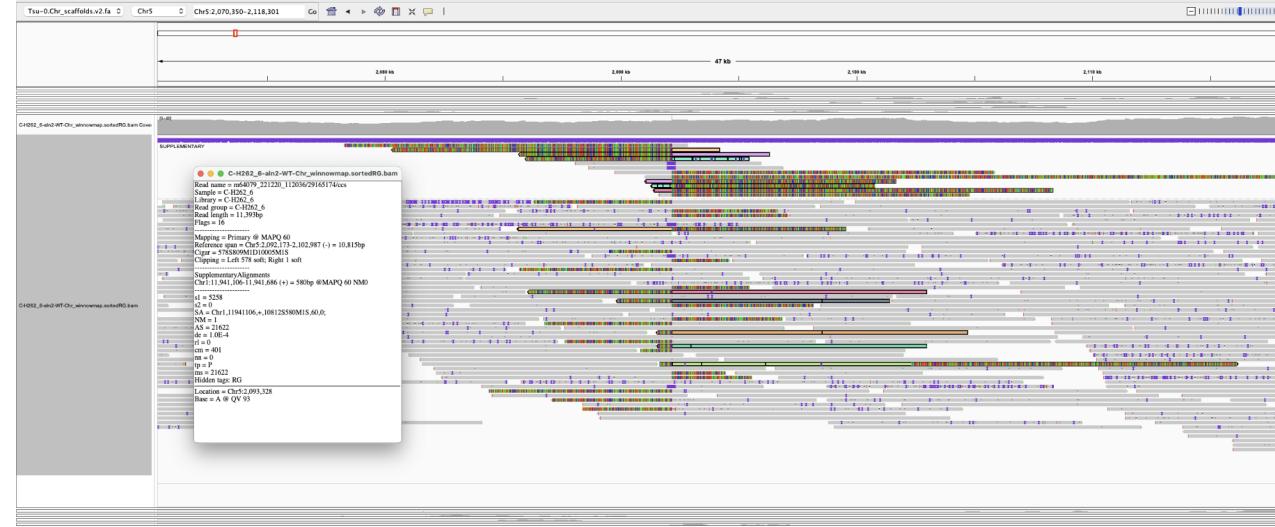




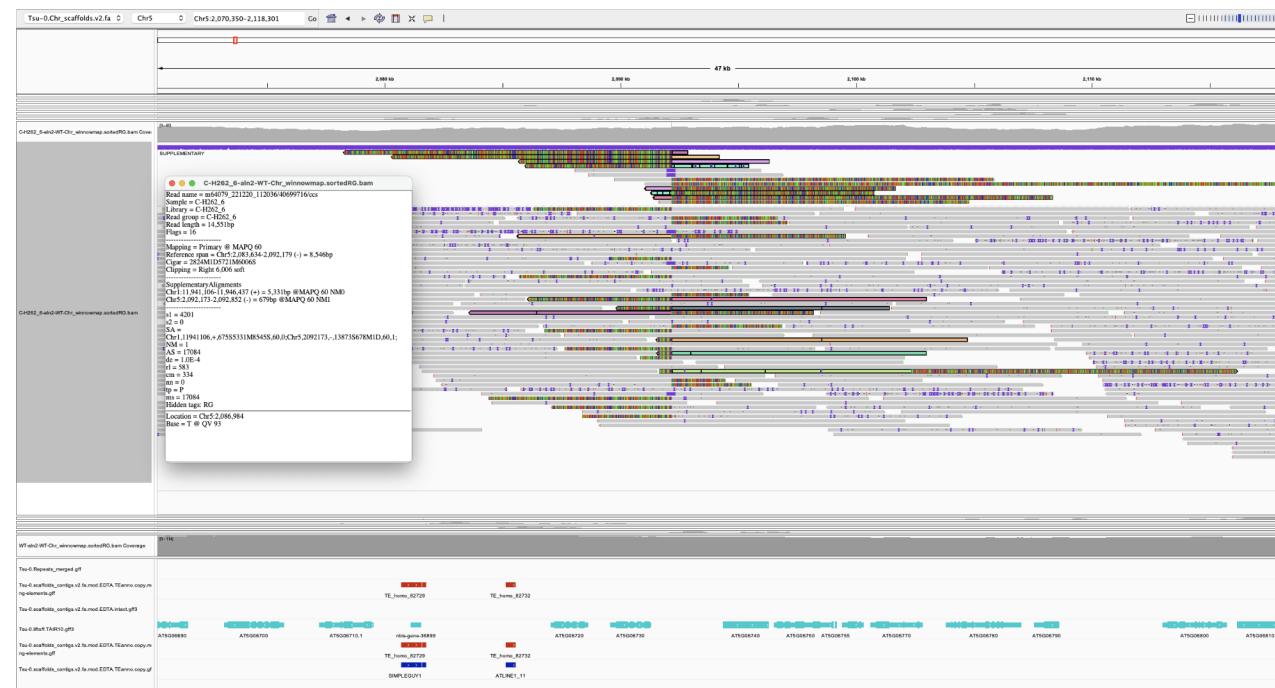
^^^ There is 13kb of right clipped read that is not mapping to anything! WTF!!!

Exclude

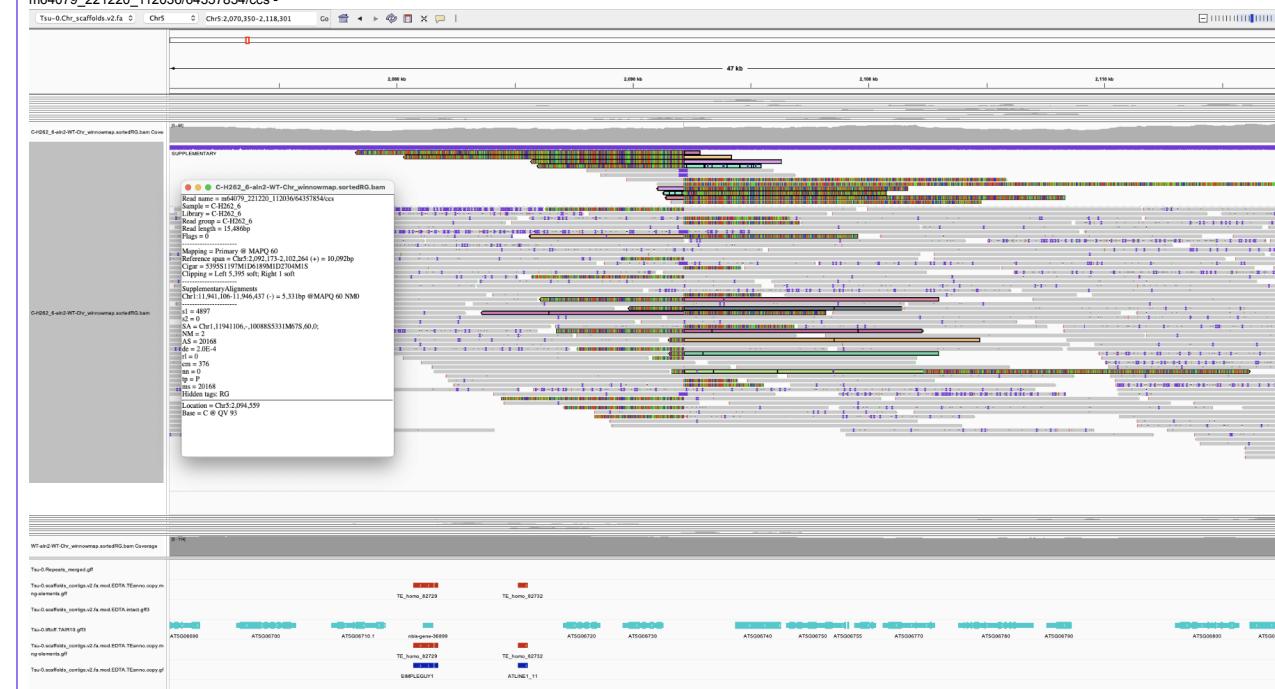
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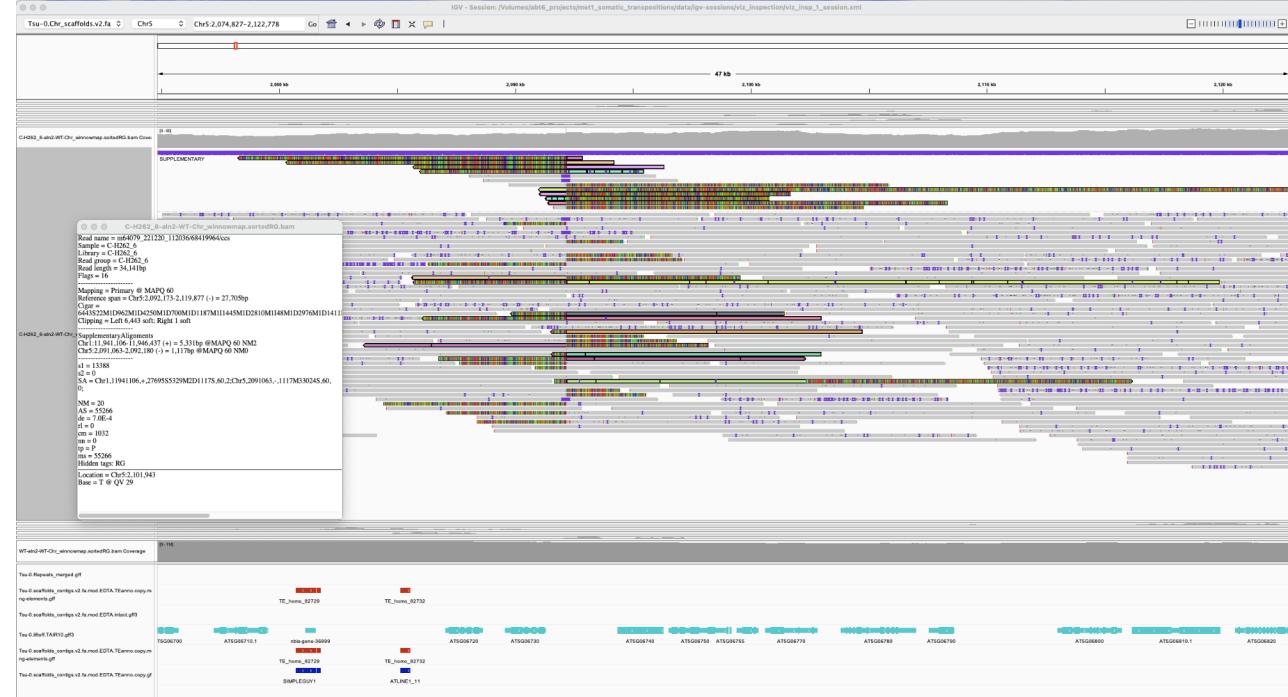
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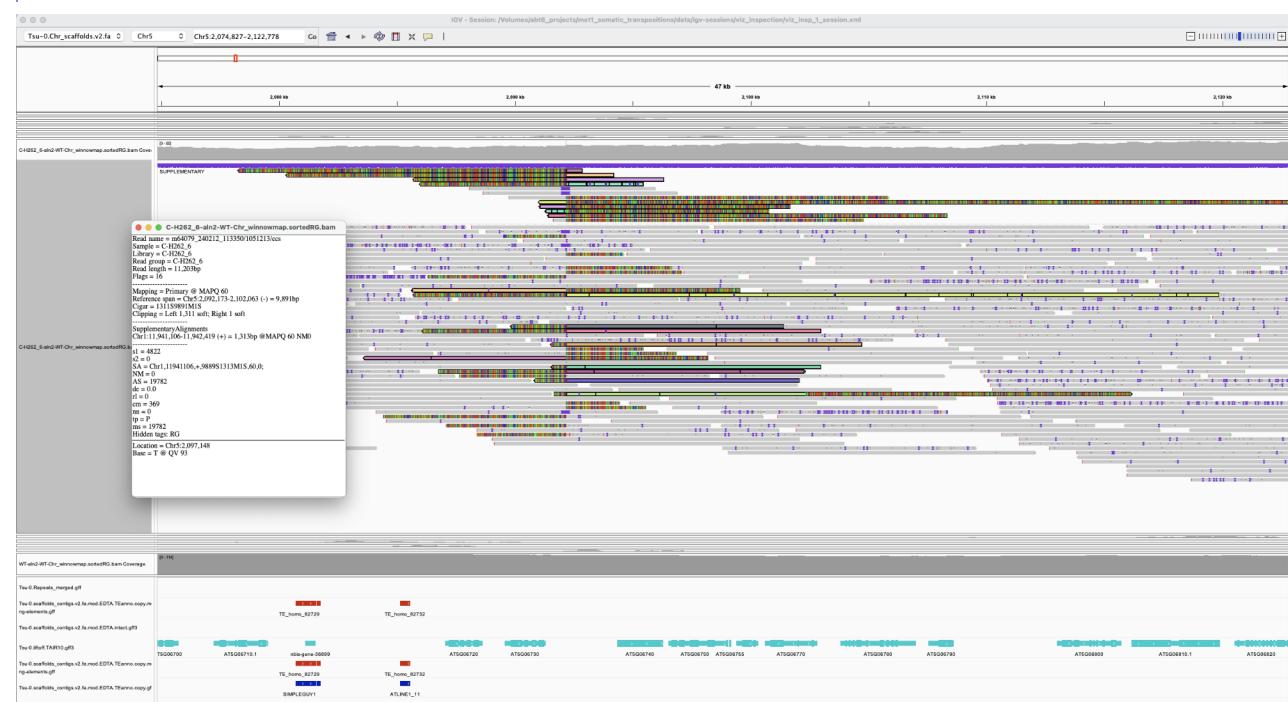
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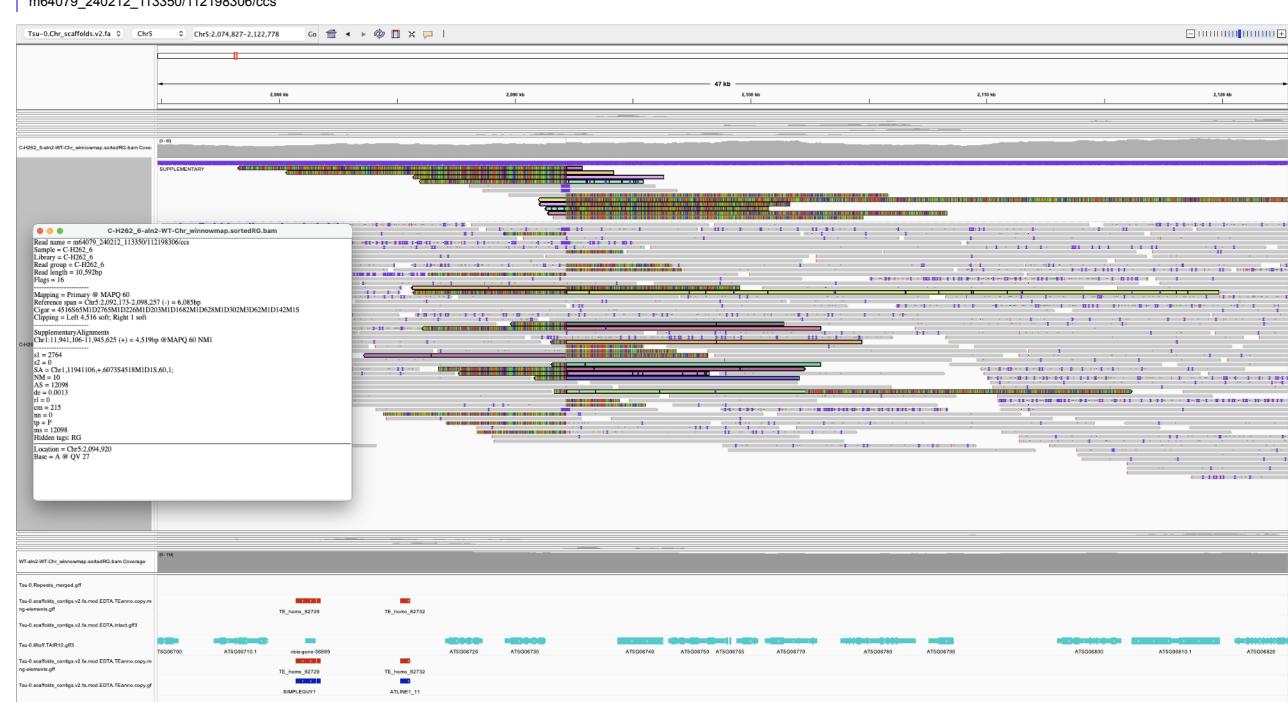
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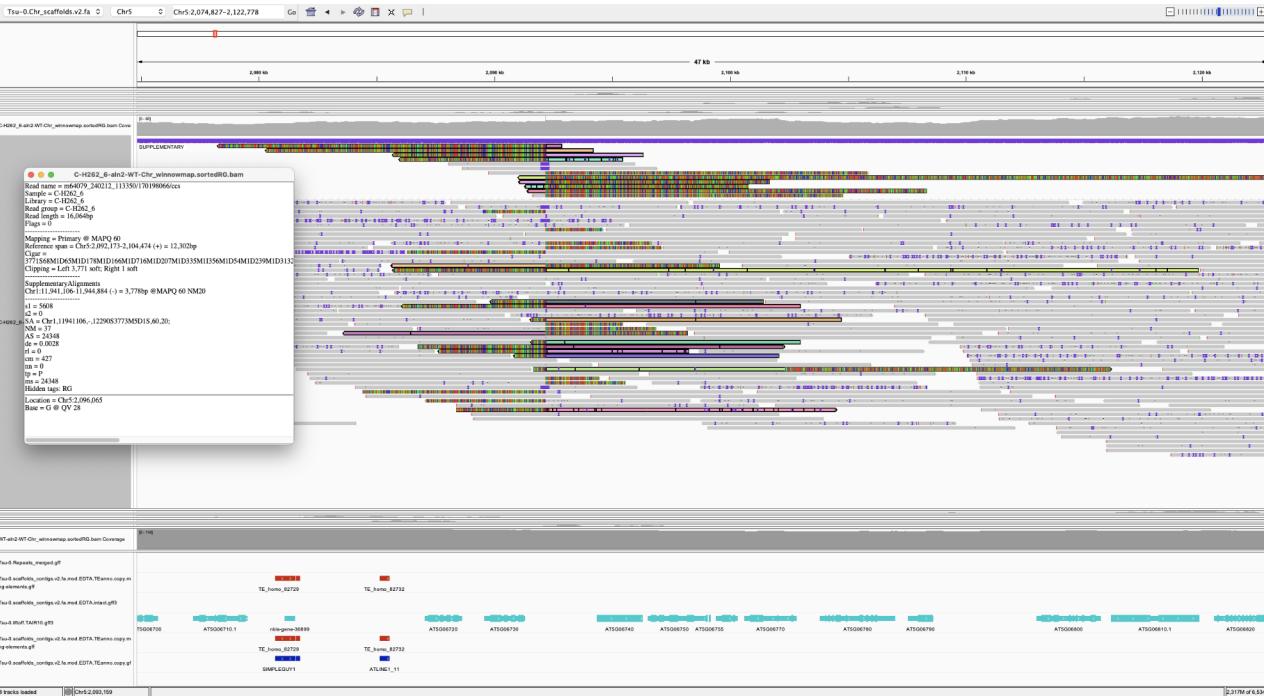
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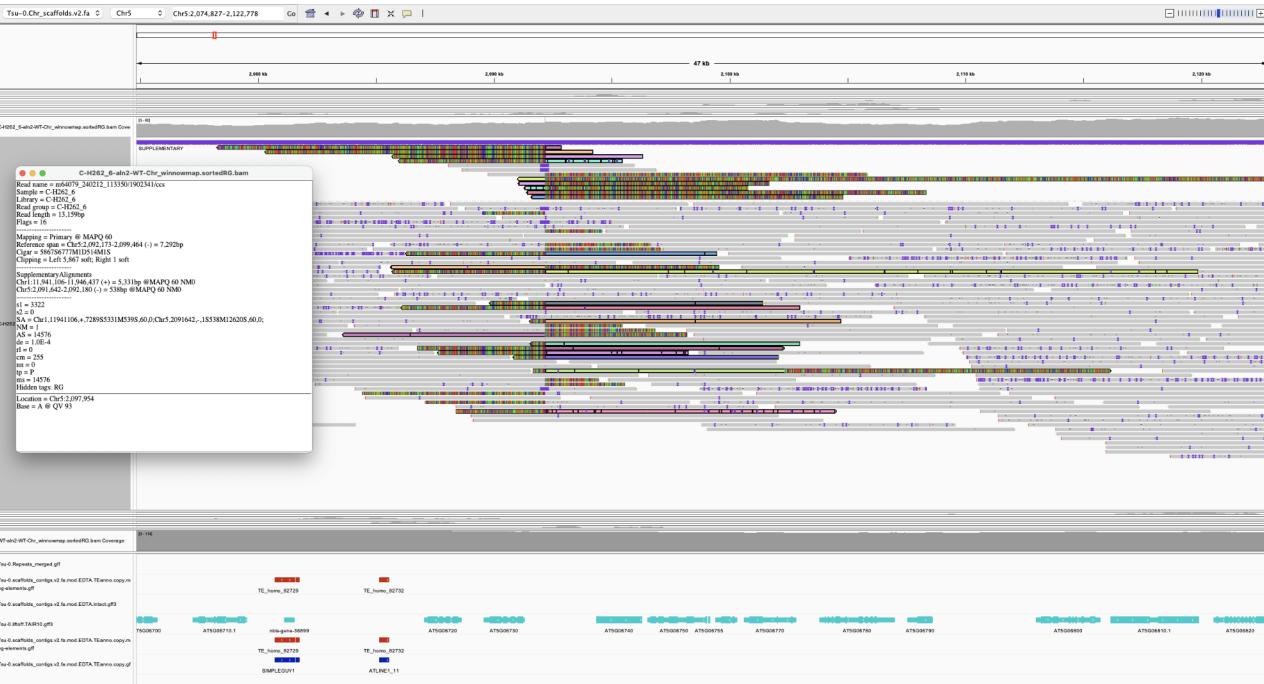
tracks loaded | Chv5,2,094,941



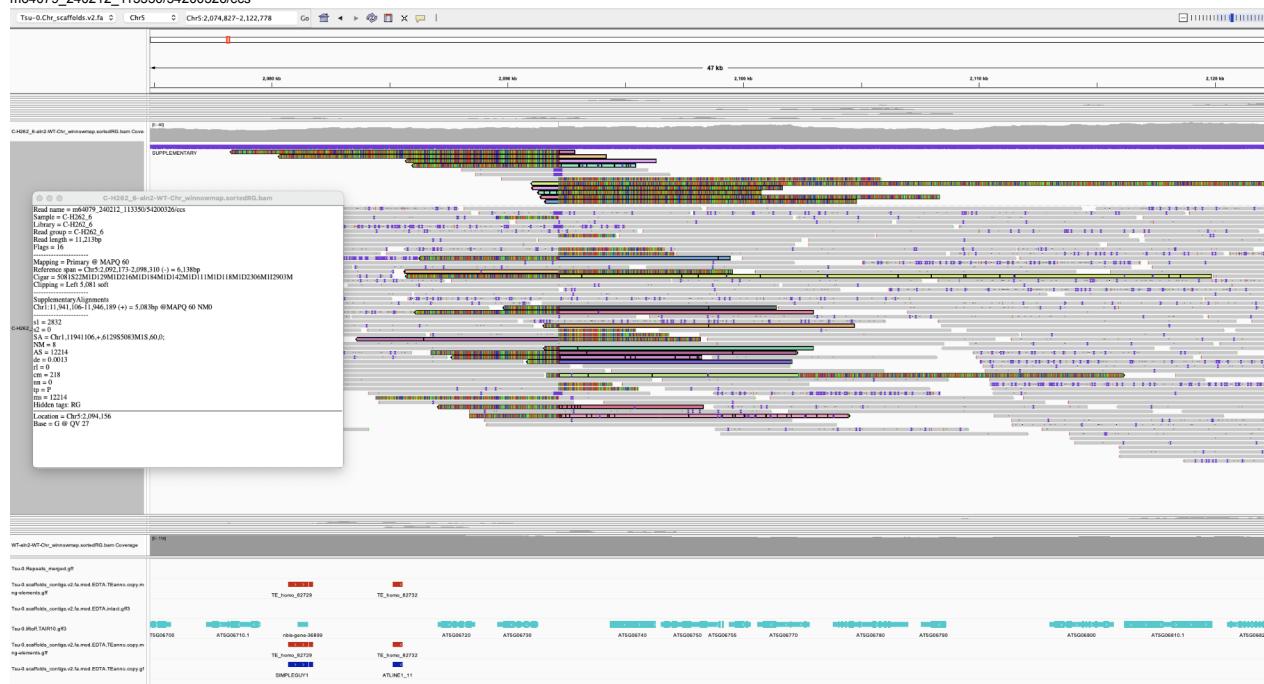
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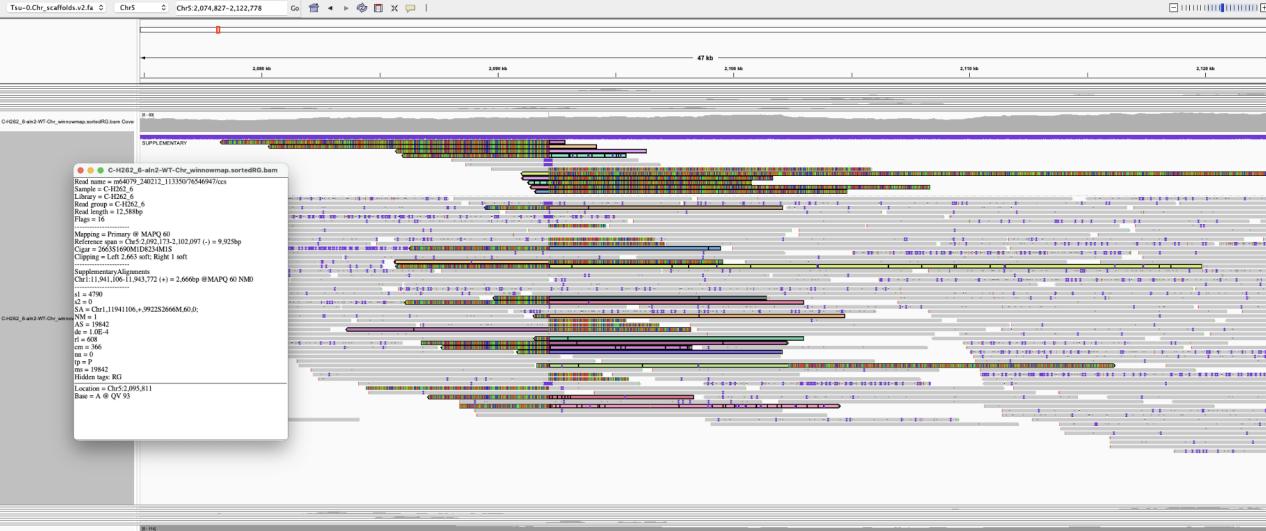
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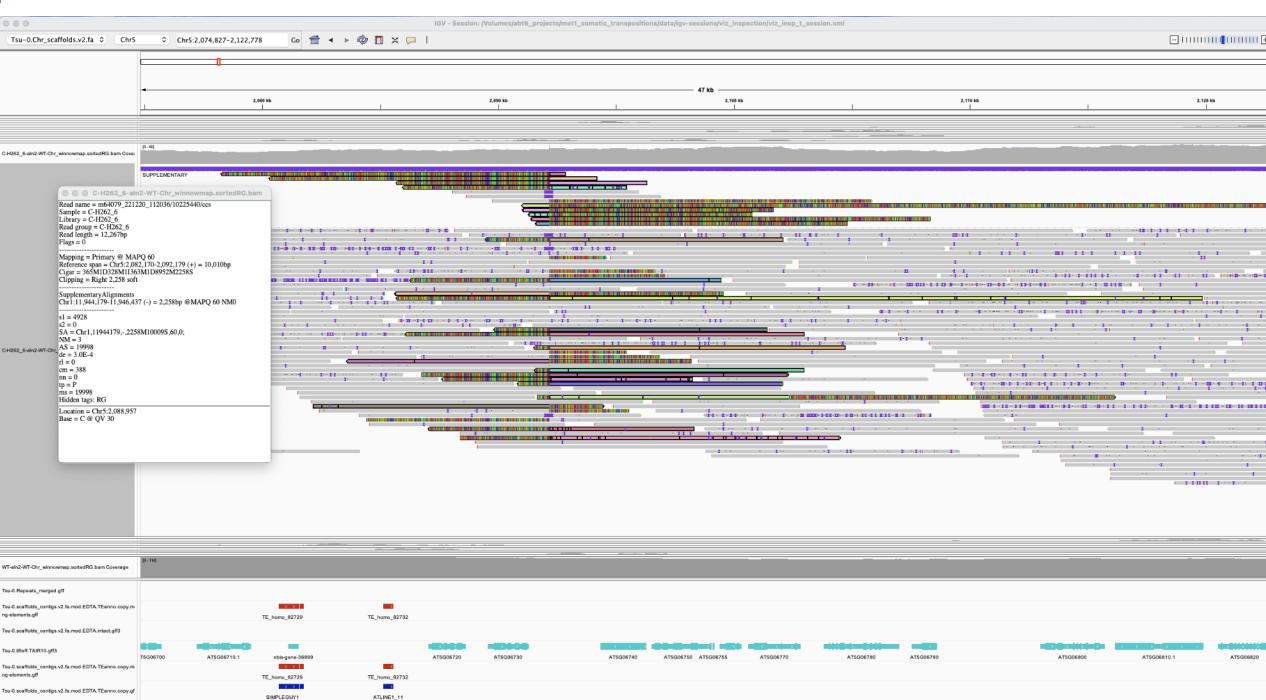
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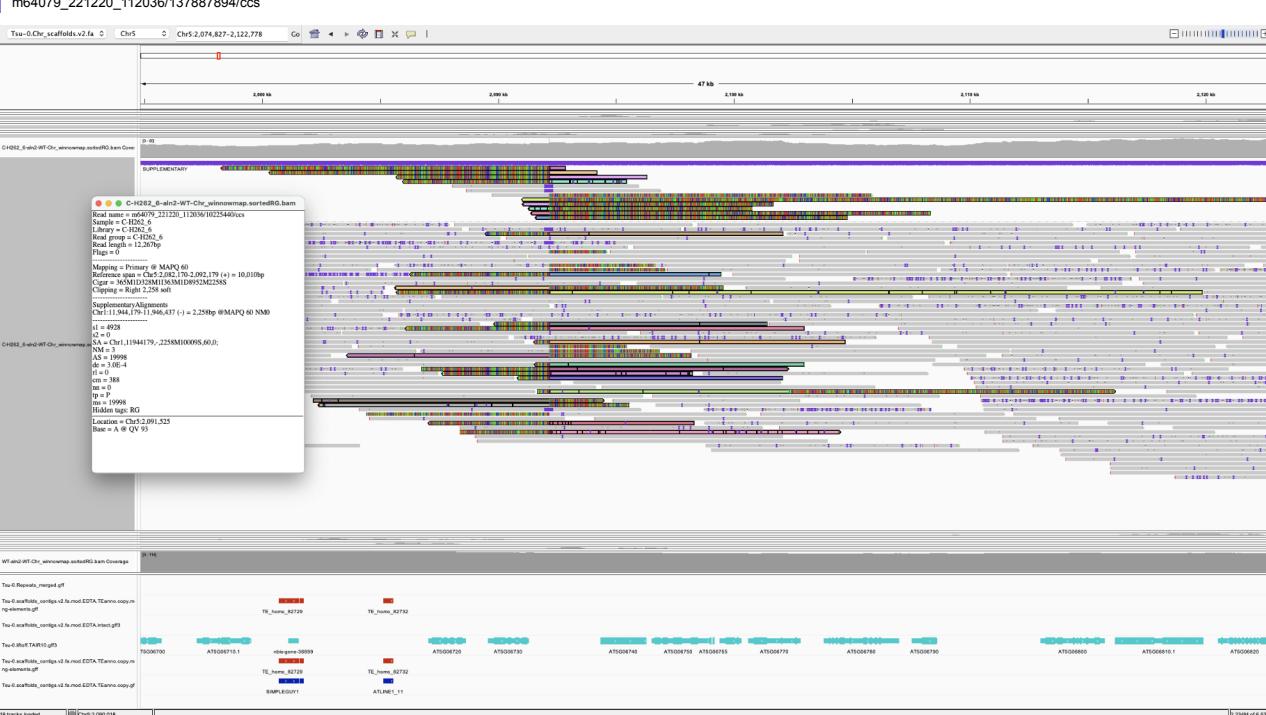
www.91107.com 91107.com 11005079540047/

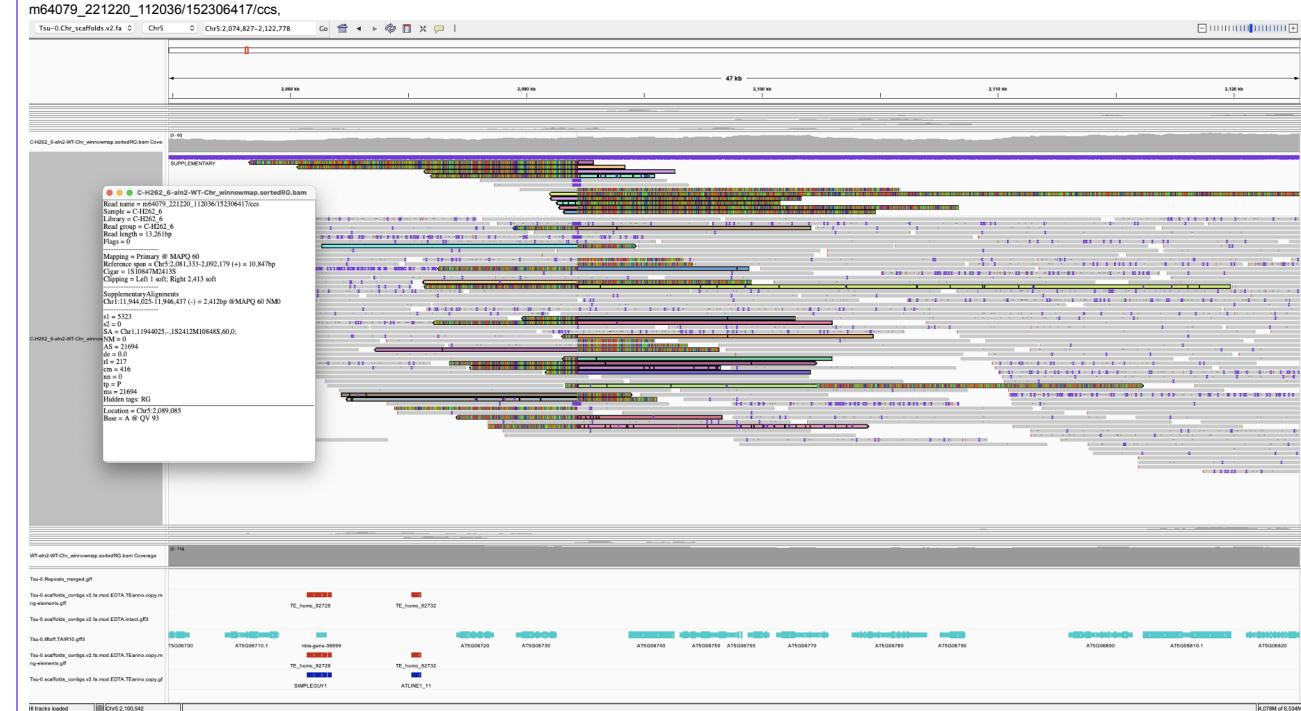


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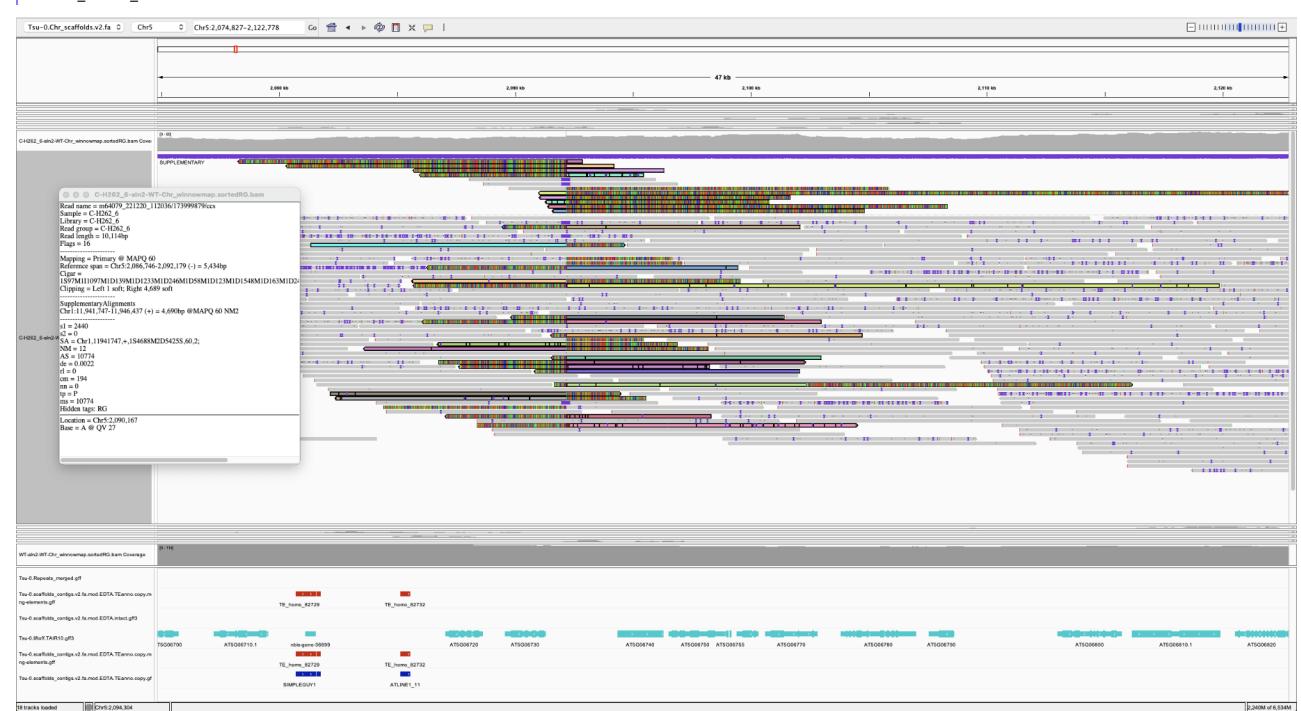


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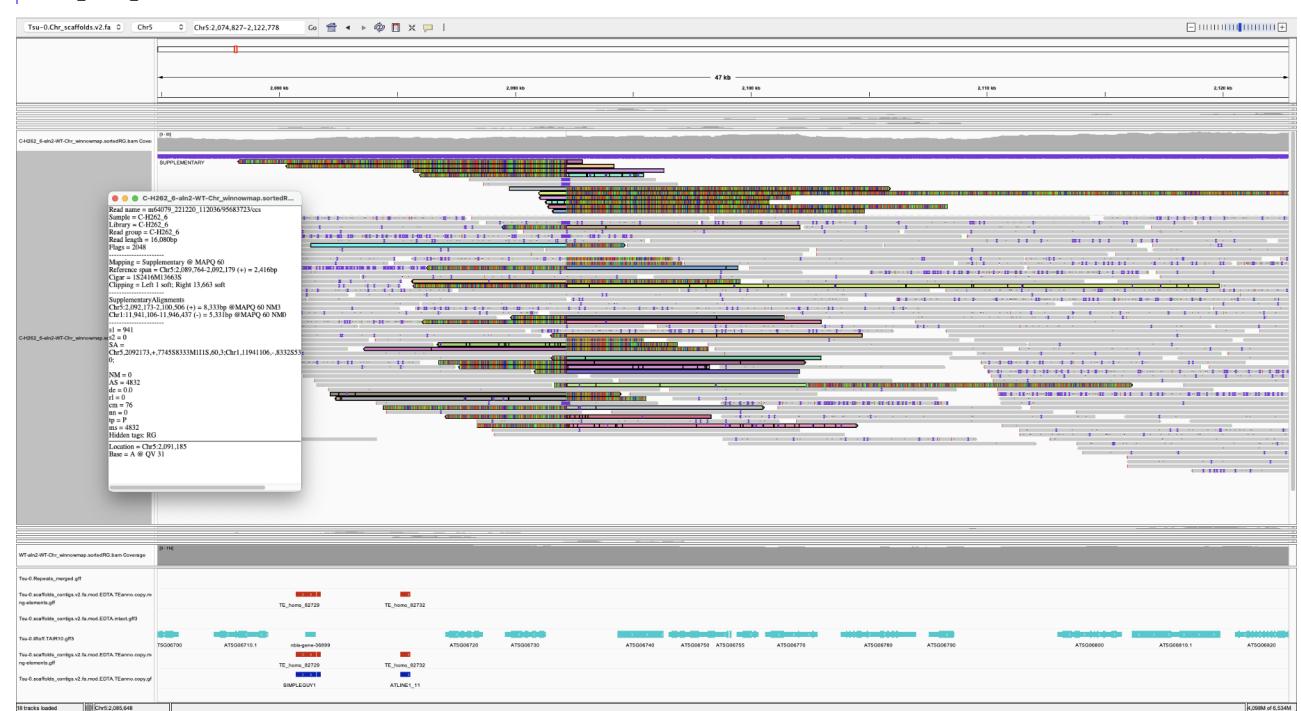




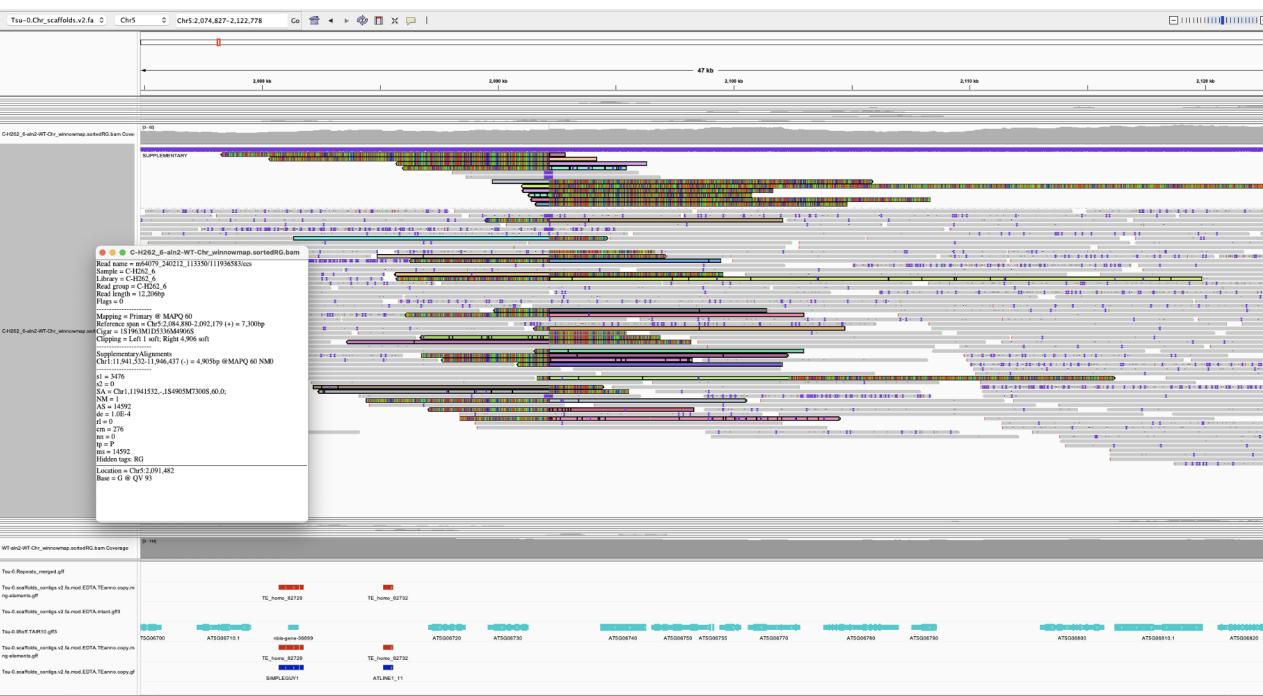
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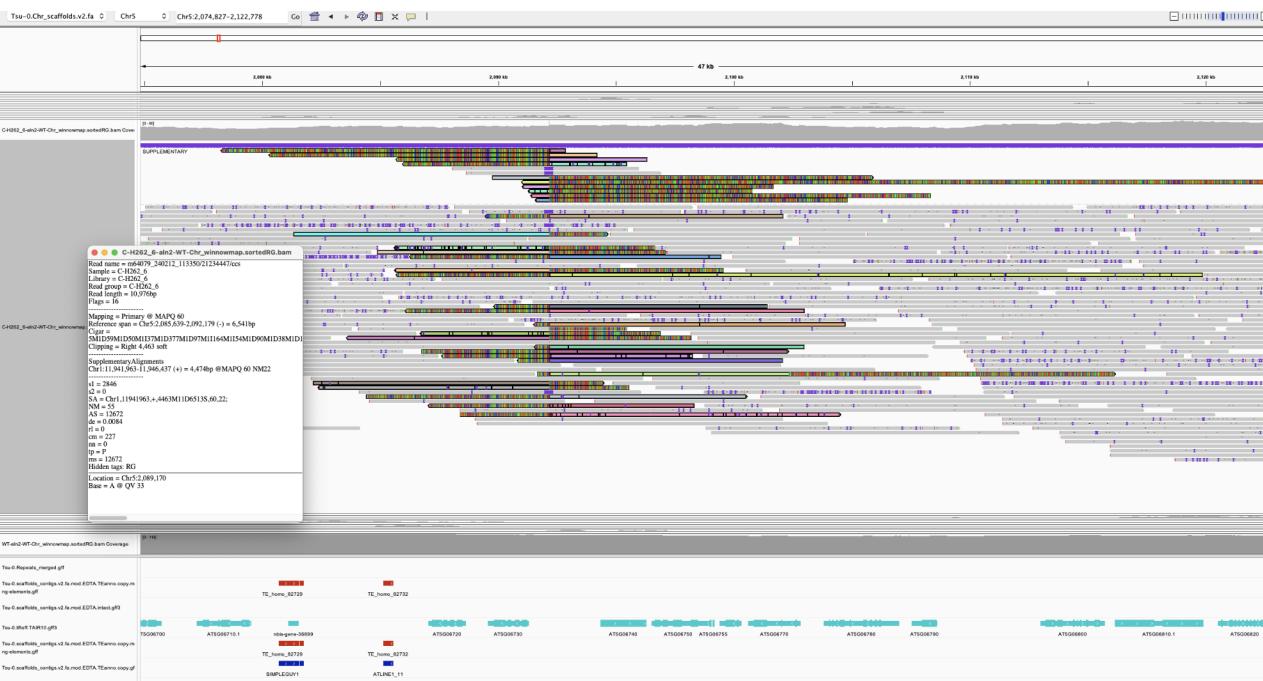
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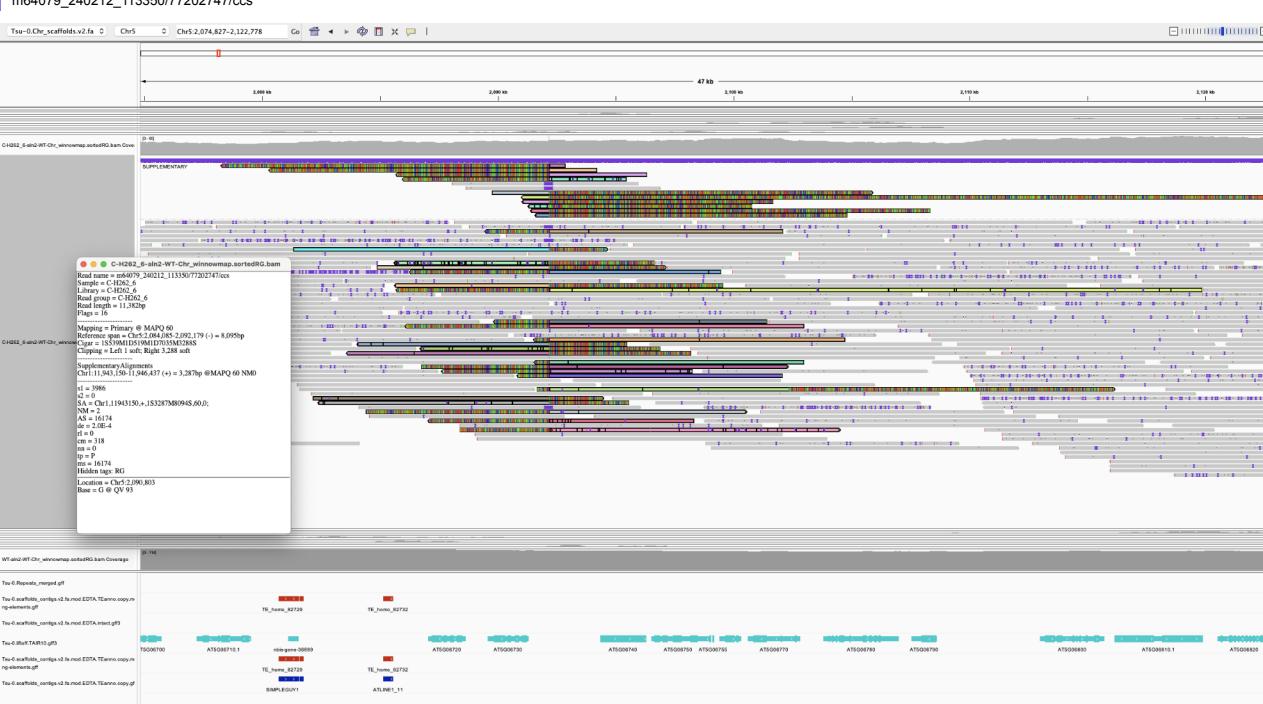
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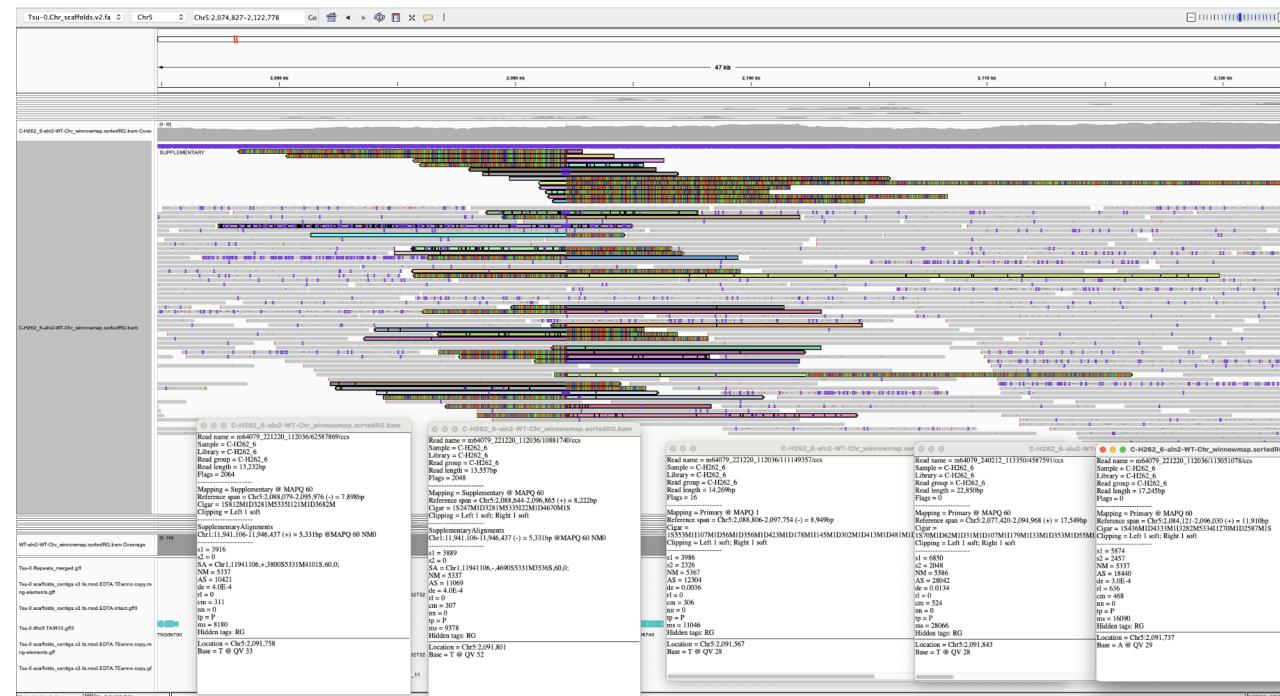
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AND ADDITIONAL 5 READS WITH INSERTIONS



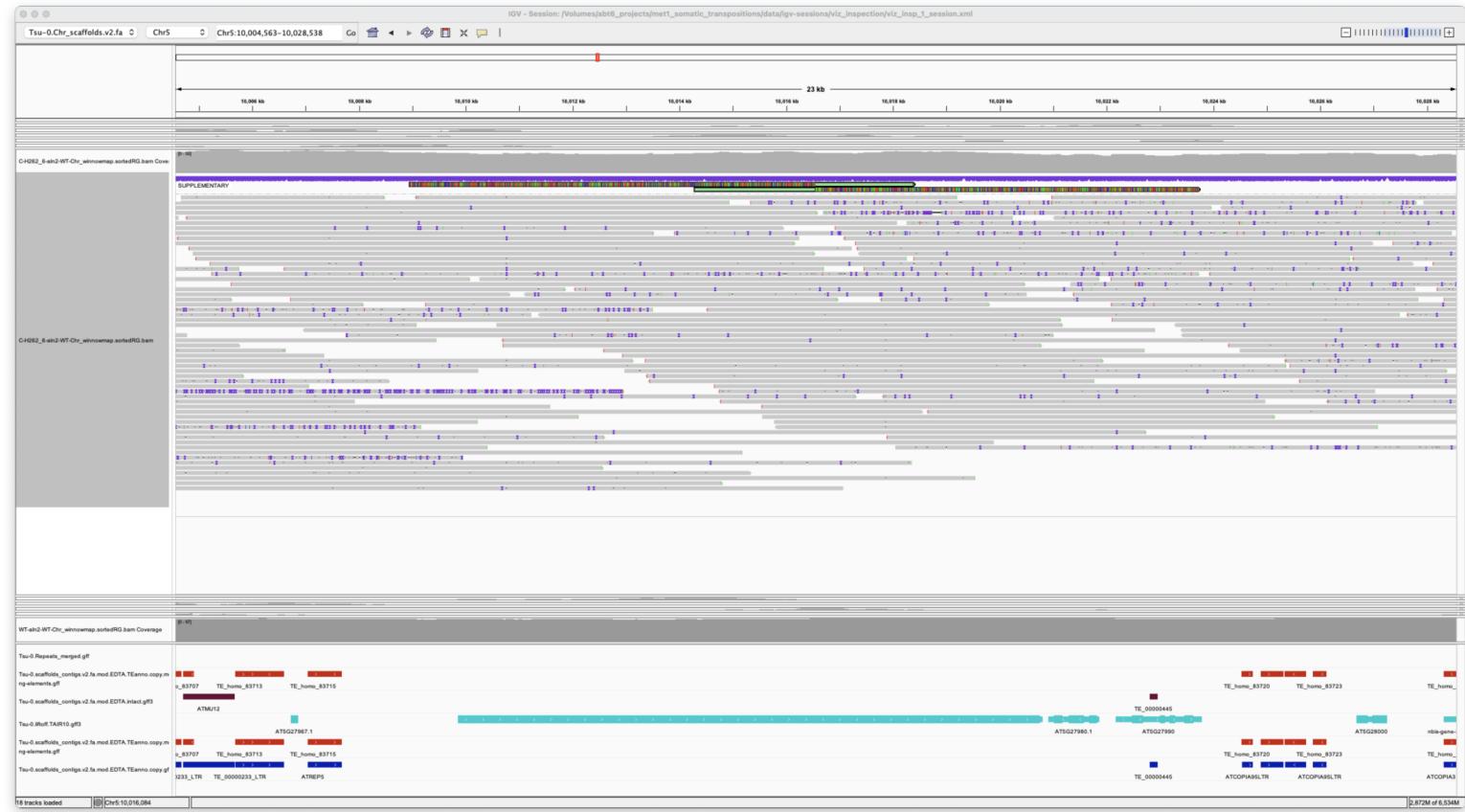
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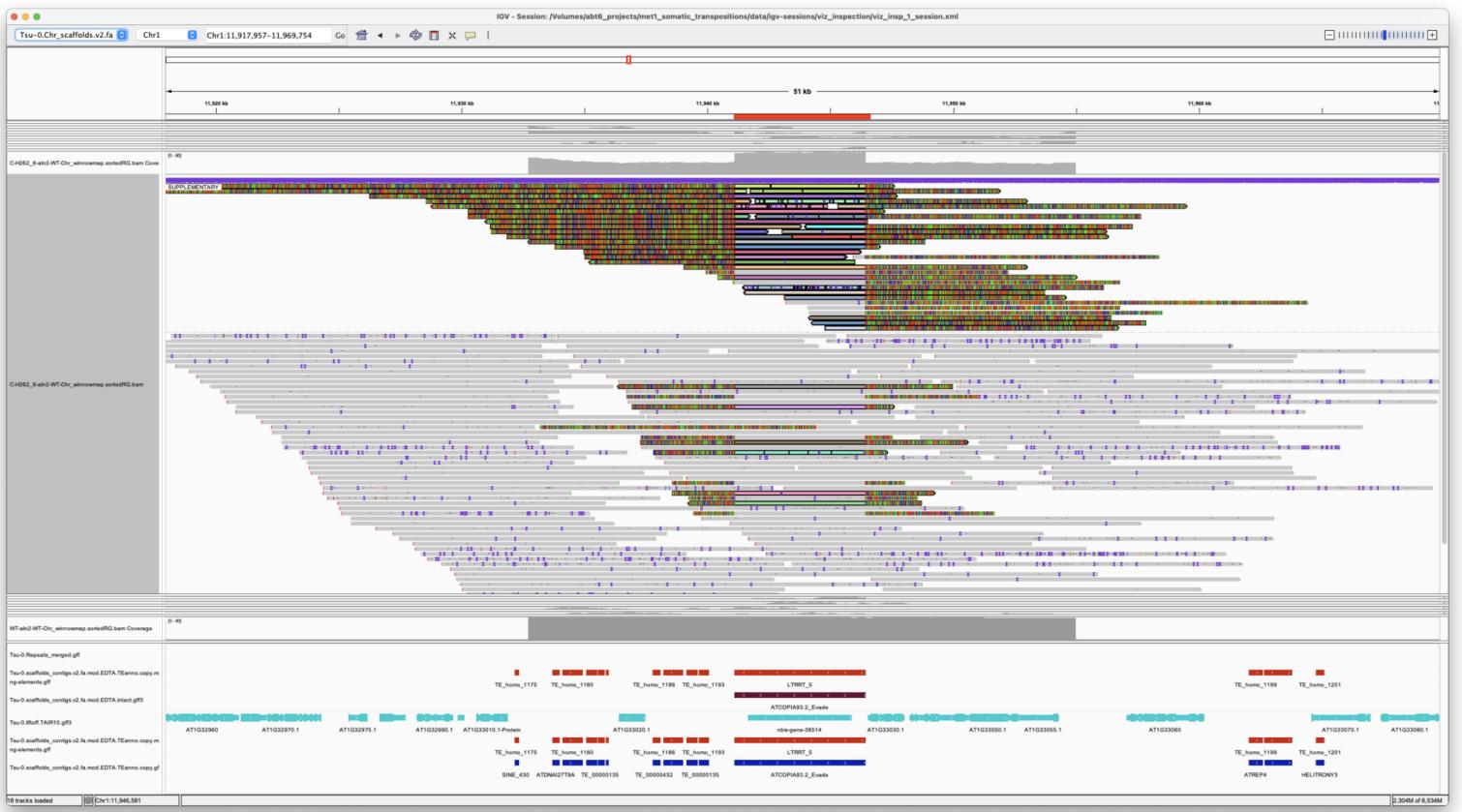
Mixed

(centrally and partially resolved insertions)

TSR

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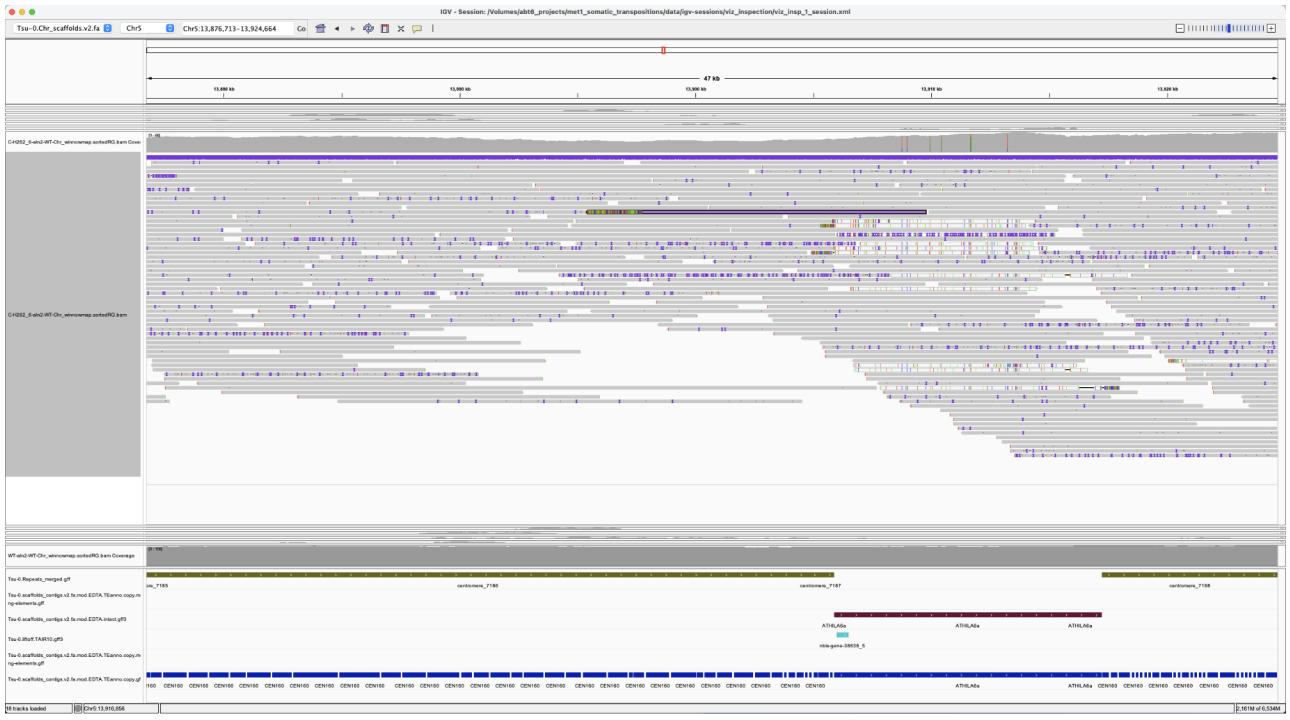


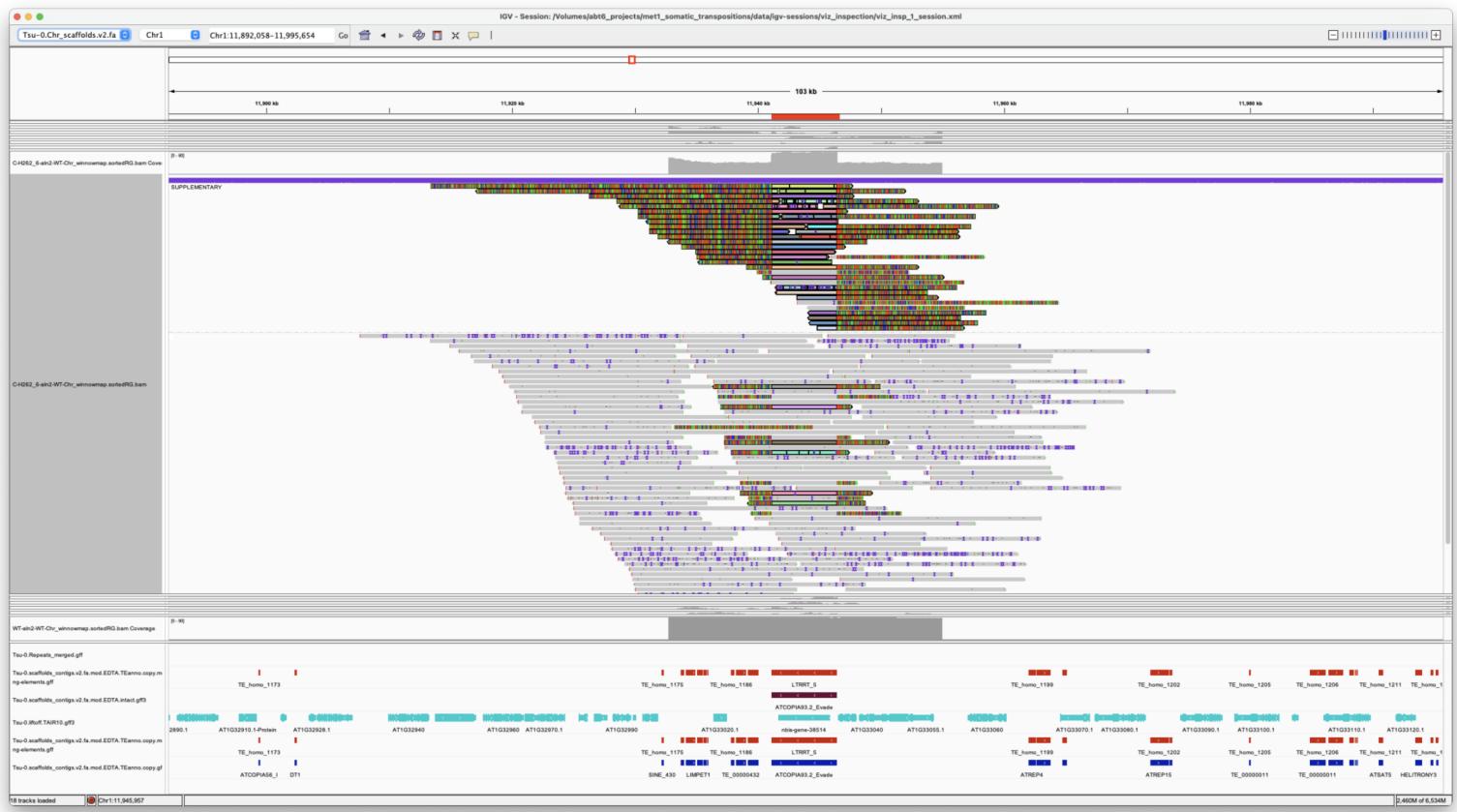


Central
TSD

Confirmed

Chr5 13897713 13897713 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/42534900/ccs met1_06



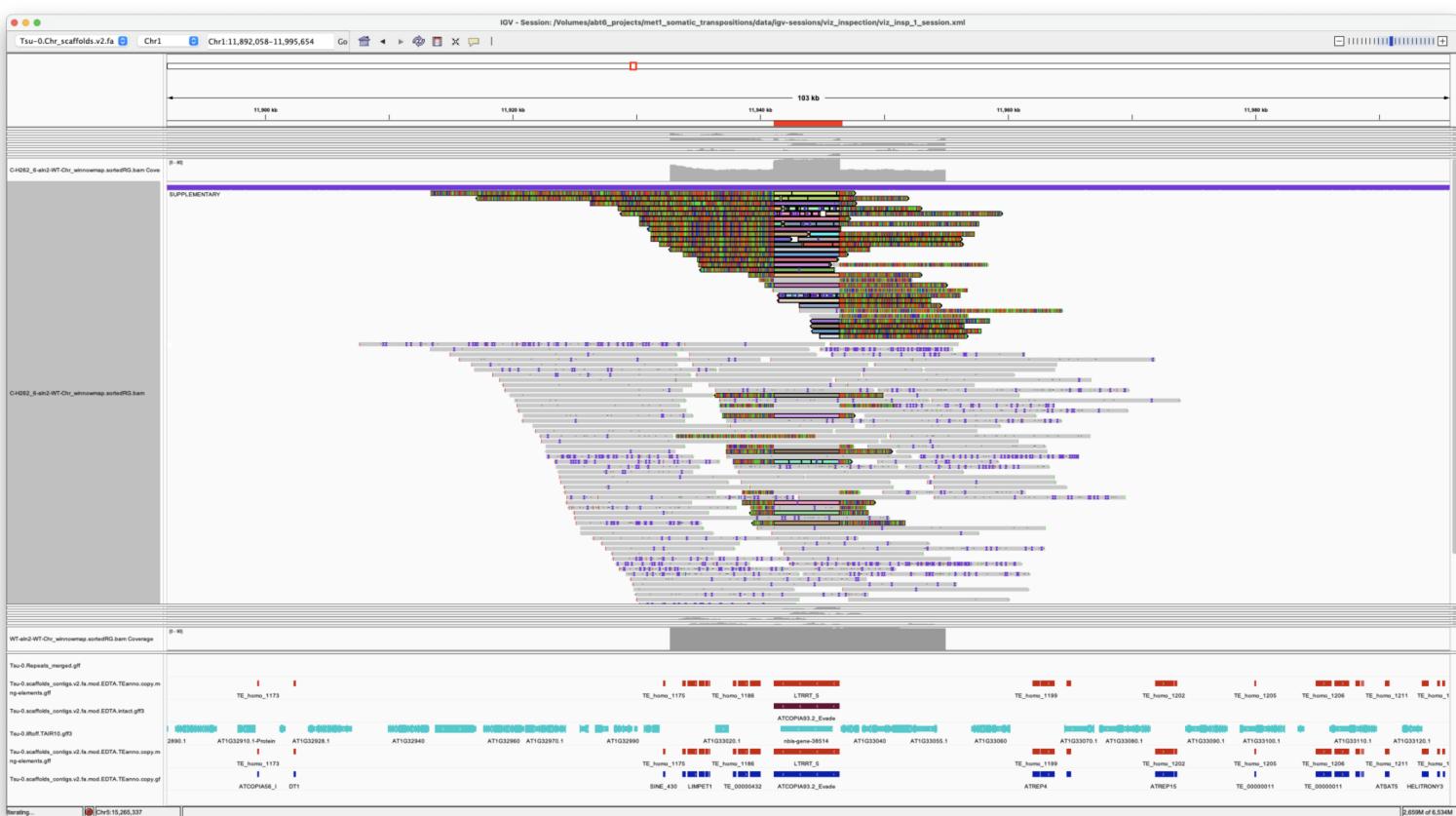
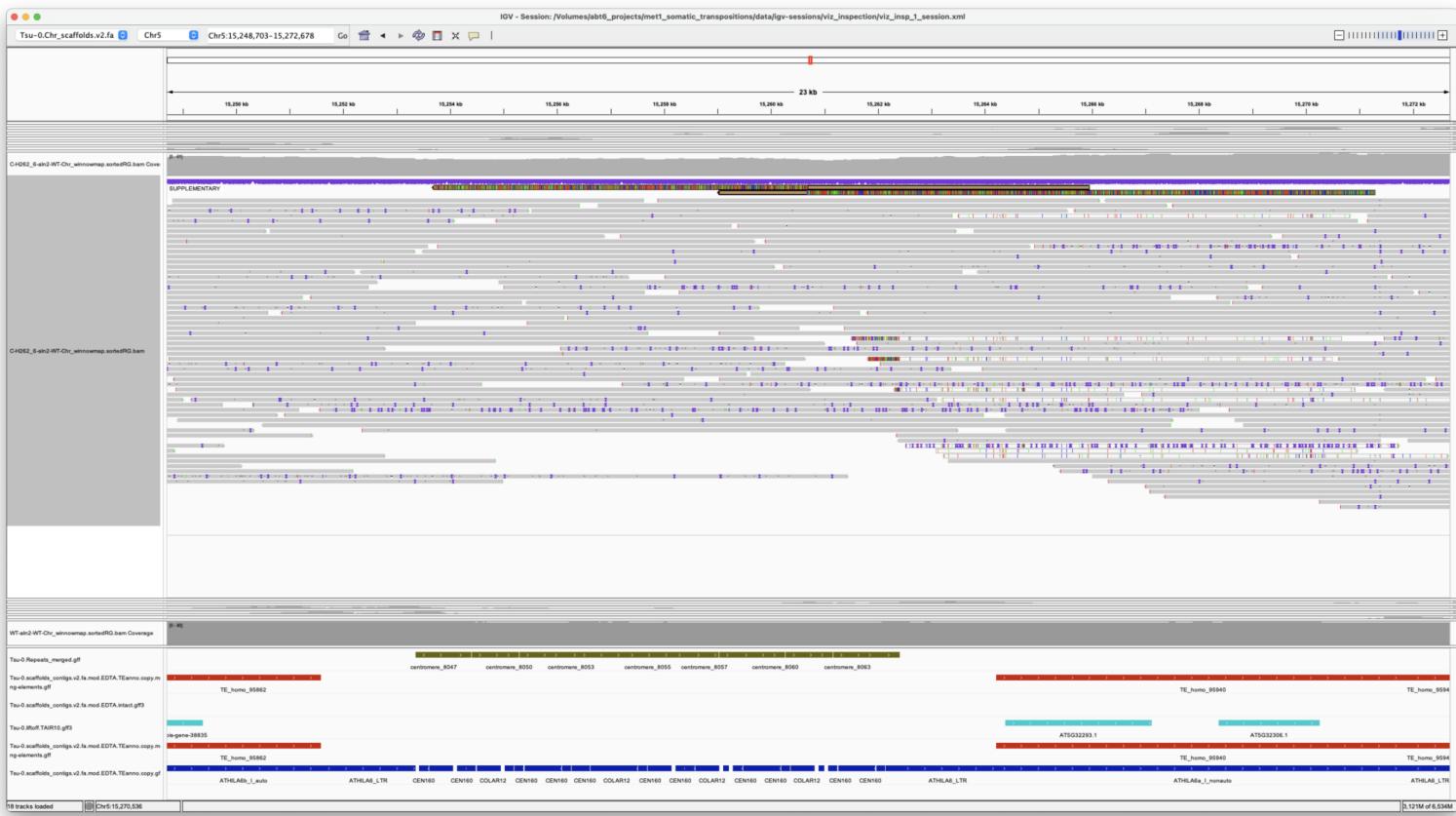


centromeric

Partial

Confirmed

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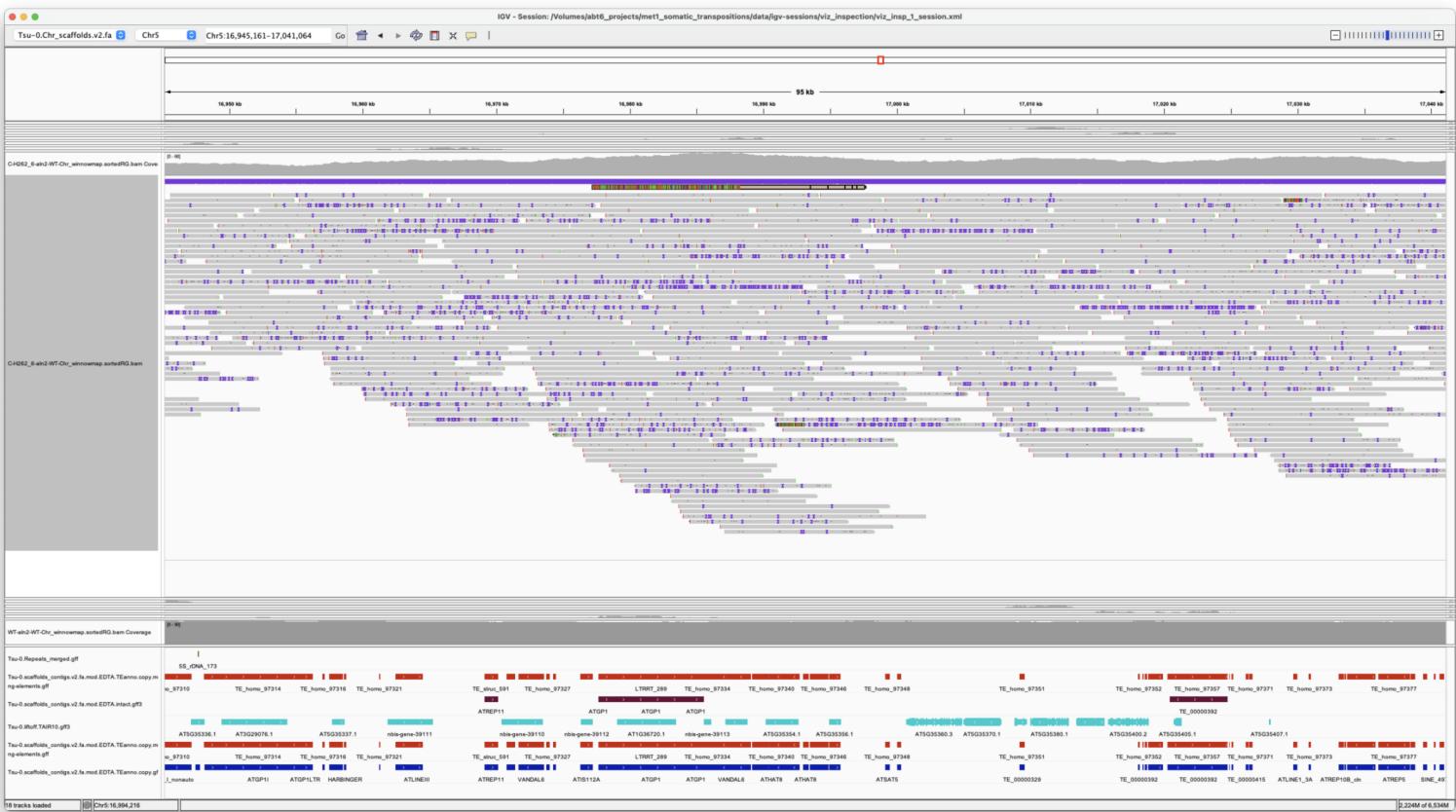


Centromeric

Central
TSD

Confirmed

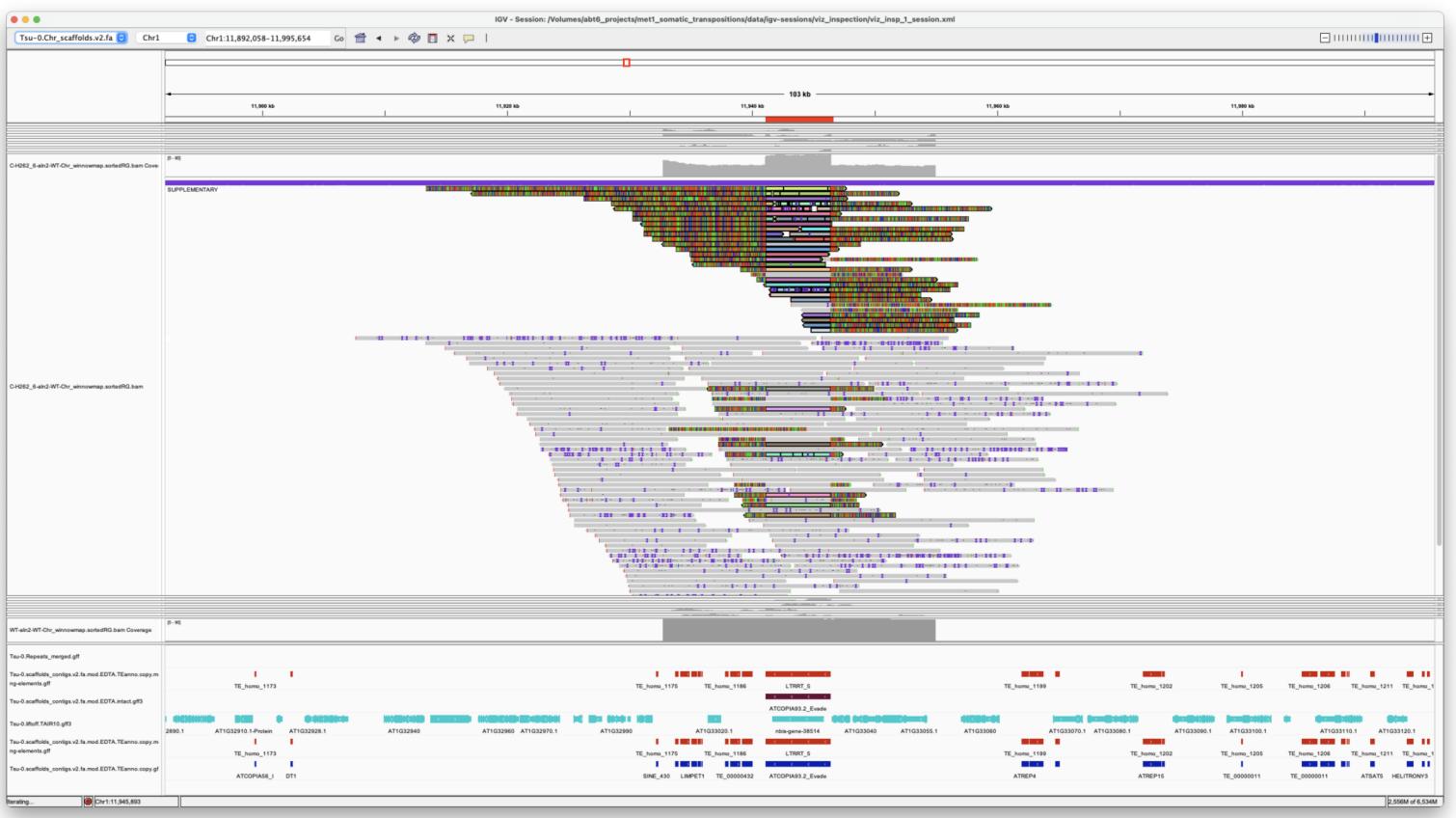
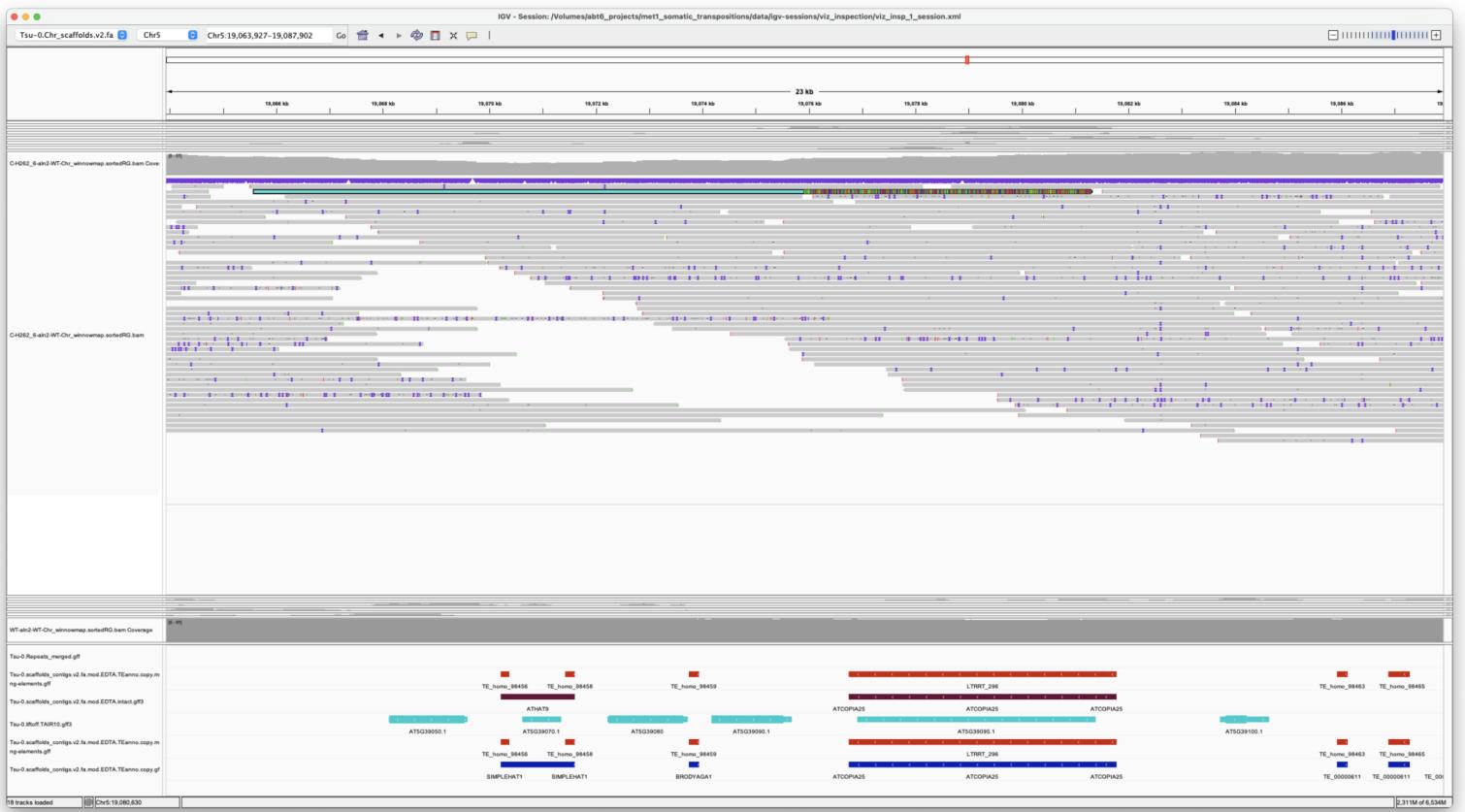
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Partial

Confirmed

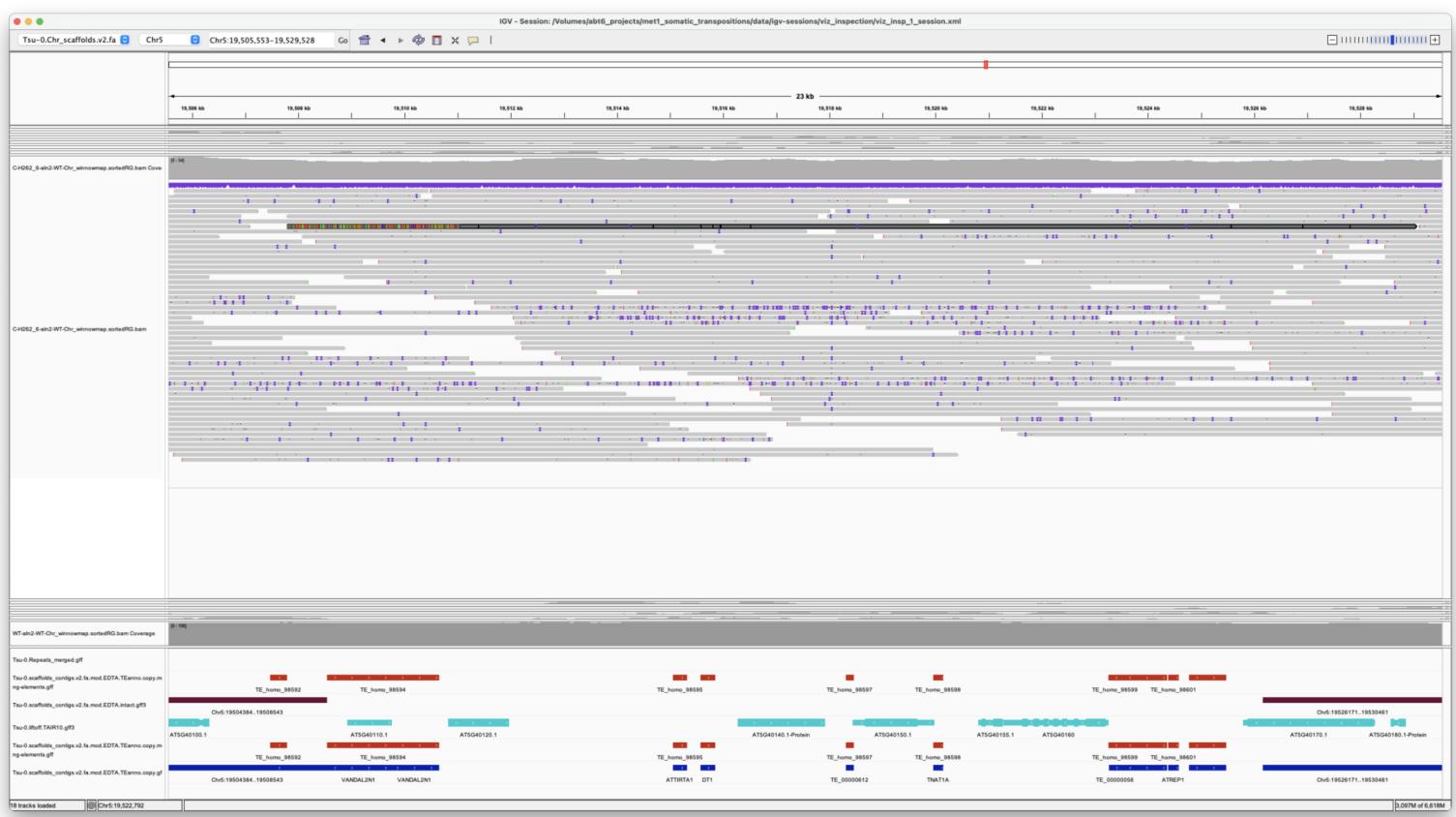
Chr5 19075915 19075915 - 1 Chr1;11941106;11946436;ATCOPA93_Evade m64079_221220_112036/67177263/ccs met1_06



Partial

Confirmed

Chr5 19511048 19511048 + 1 Chr1;11941106;11946436;ATCOPA93_Evade m64079_240212_113350/89262058/ccs met1_06



Partial

Confirmed

Chr5 19782252 19782252 - 1 Chr5;19152829;19160826;VANDAL21 m64079_240212_113350/164102149/ccs met1_06