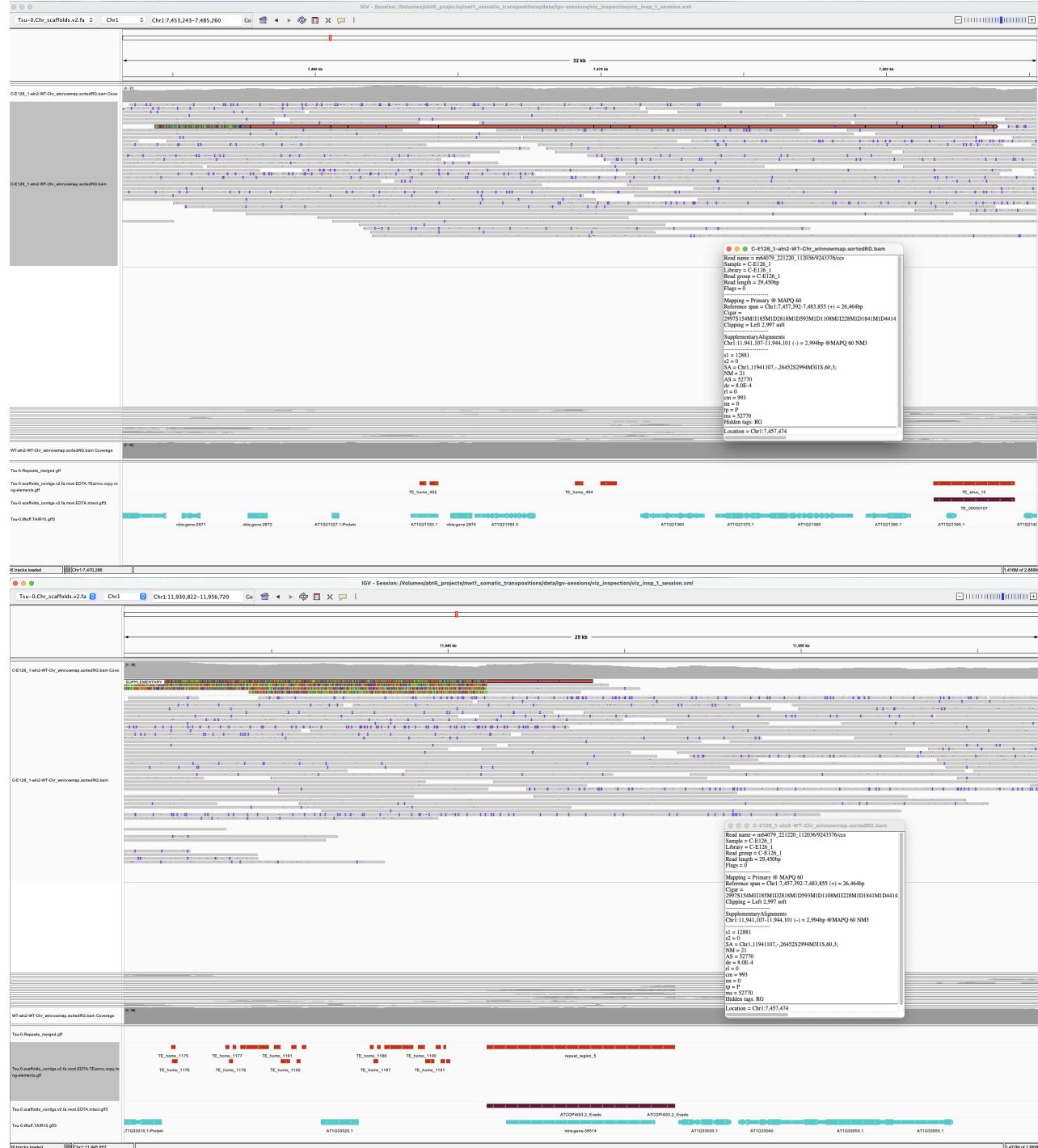


SupplementaryALN_Insertions

Merged elements

met1_01

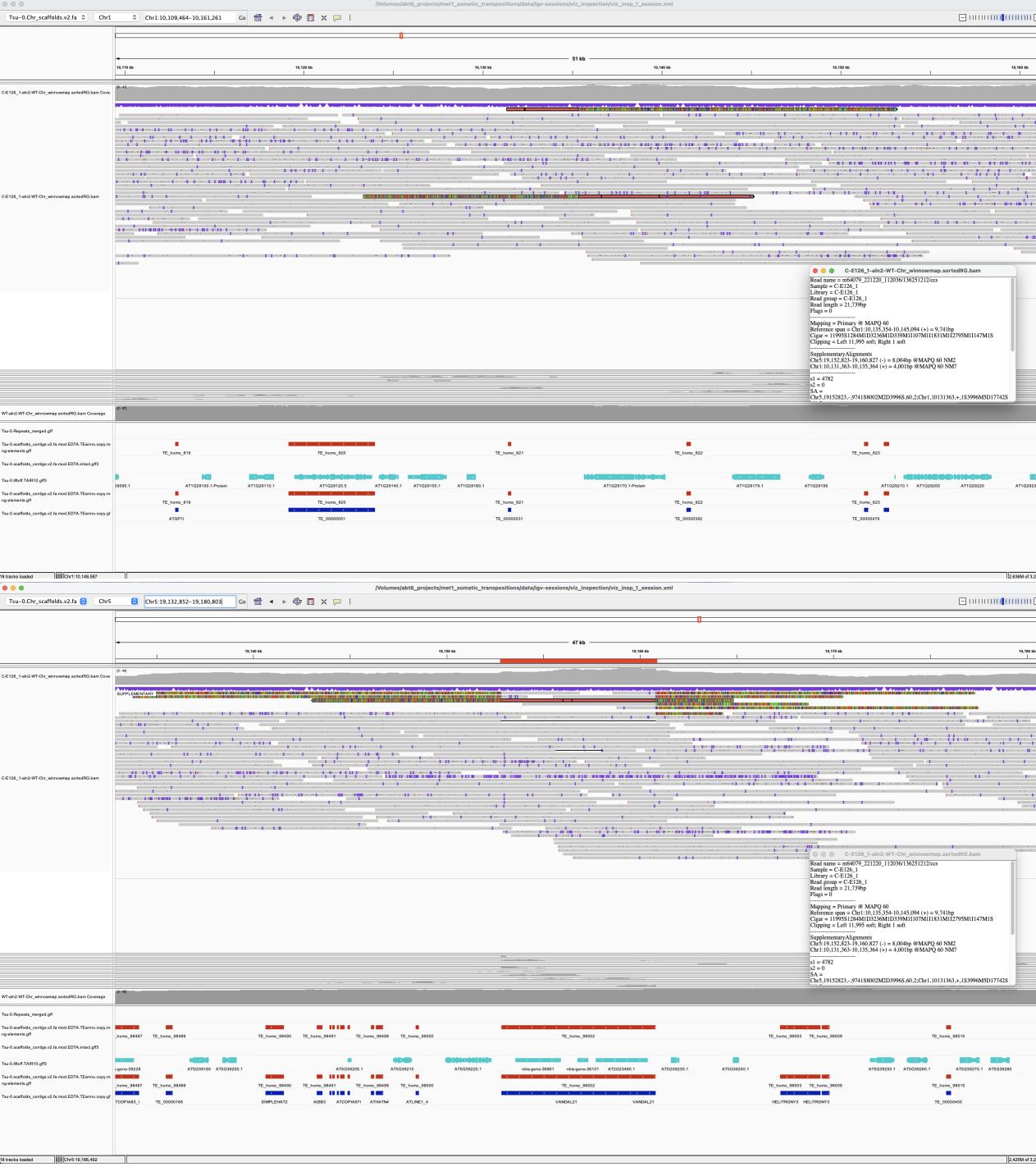
Chr1 7457391 7457391 - 1 Chr1;11941102;11946441;ATCOPIA93_Evade m64079_221220_112036/9243376/ccs met1_01



Partial

Confirmed

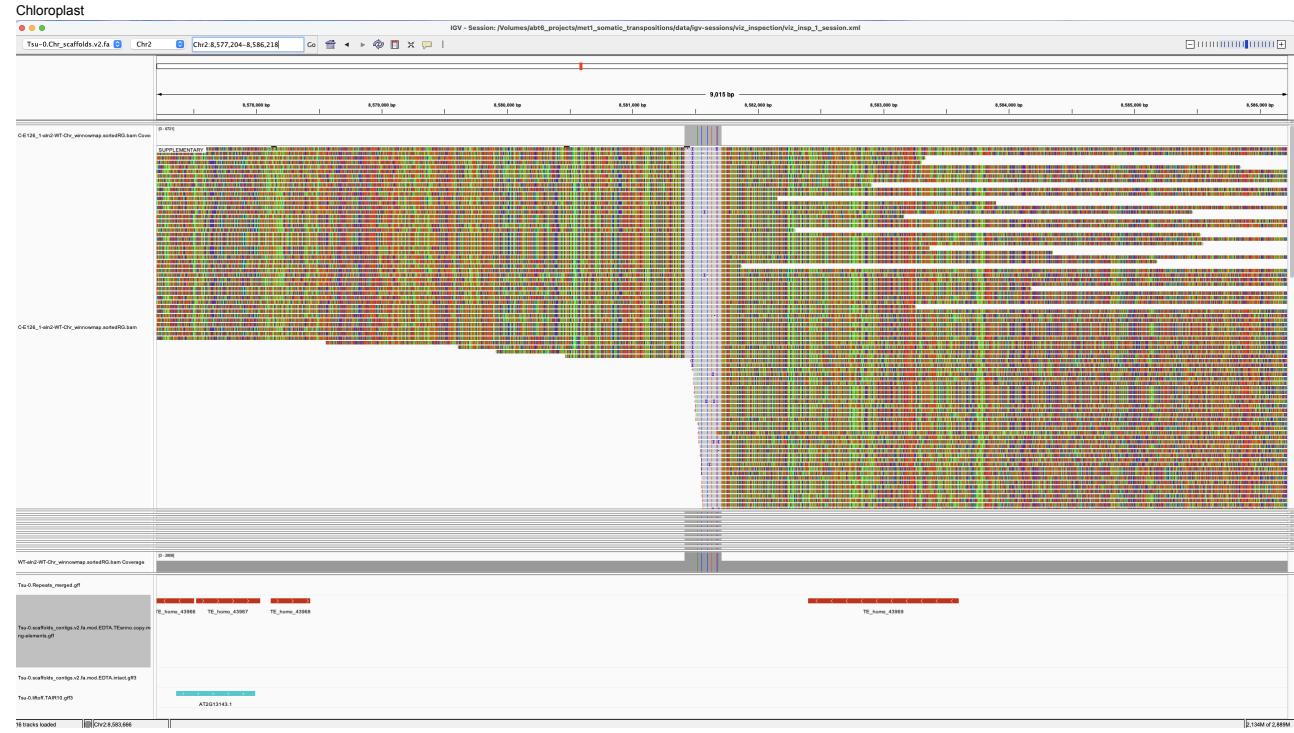
Chr1 10135363 10135363 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/136251212/ccs met1_01



Central
TSD

Confirmed

TE_00000590 -> To be ignored for further cases!
High coverage, present also in WT!



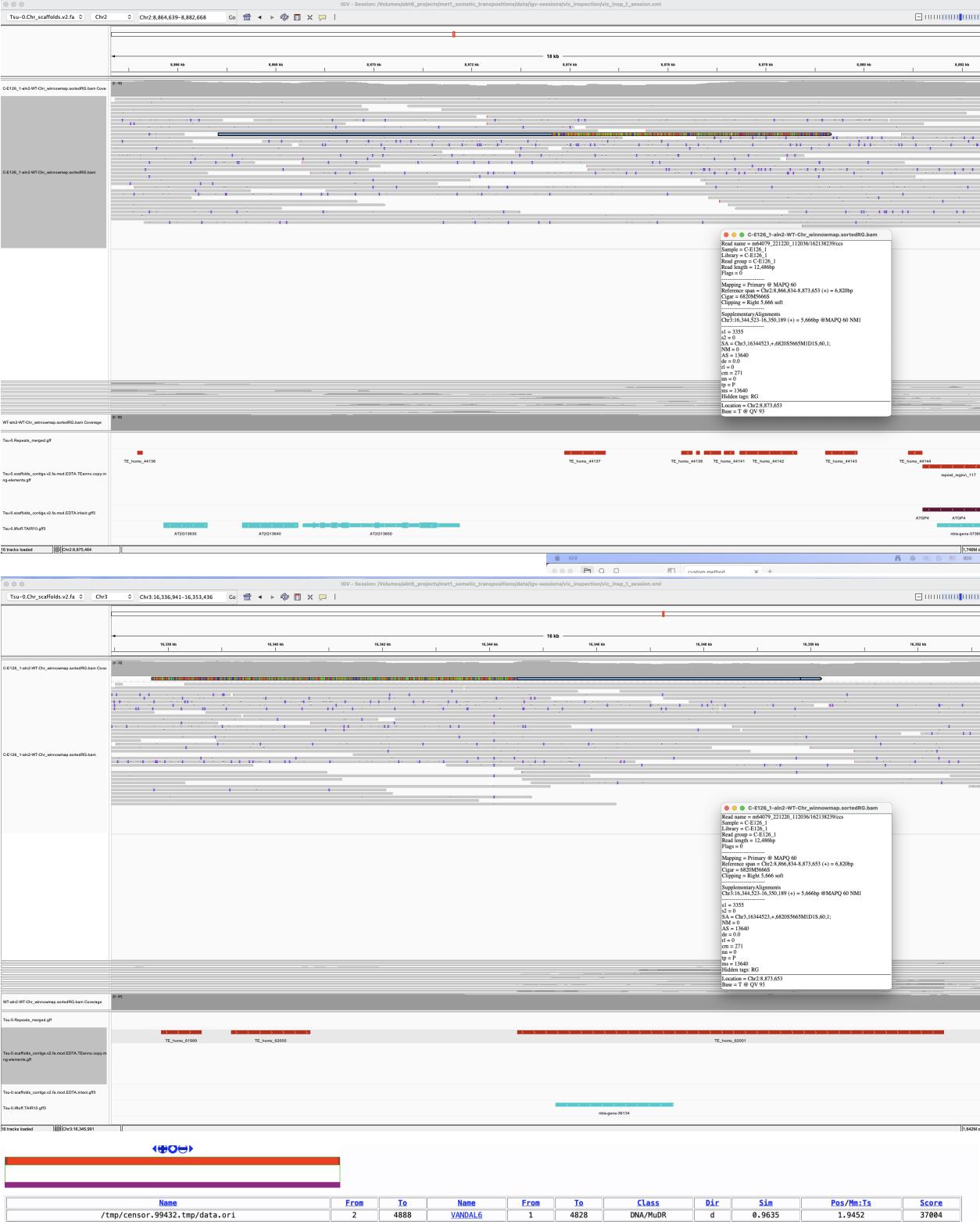
unsupported

Chr2 3983380 3983380 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/134744172/ccs met1_01



Partial

Confirmed



Partial

Confirmed

Chr2 11608326 11608326 - 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/4129671/ccs met1_01



Partial

Confirmed



Partial

Confirmed



16 tracks loaded

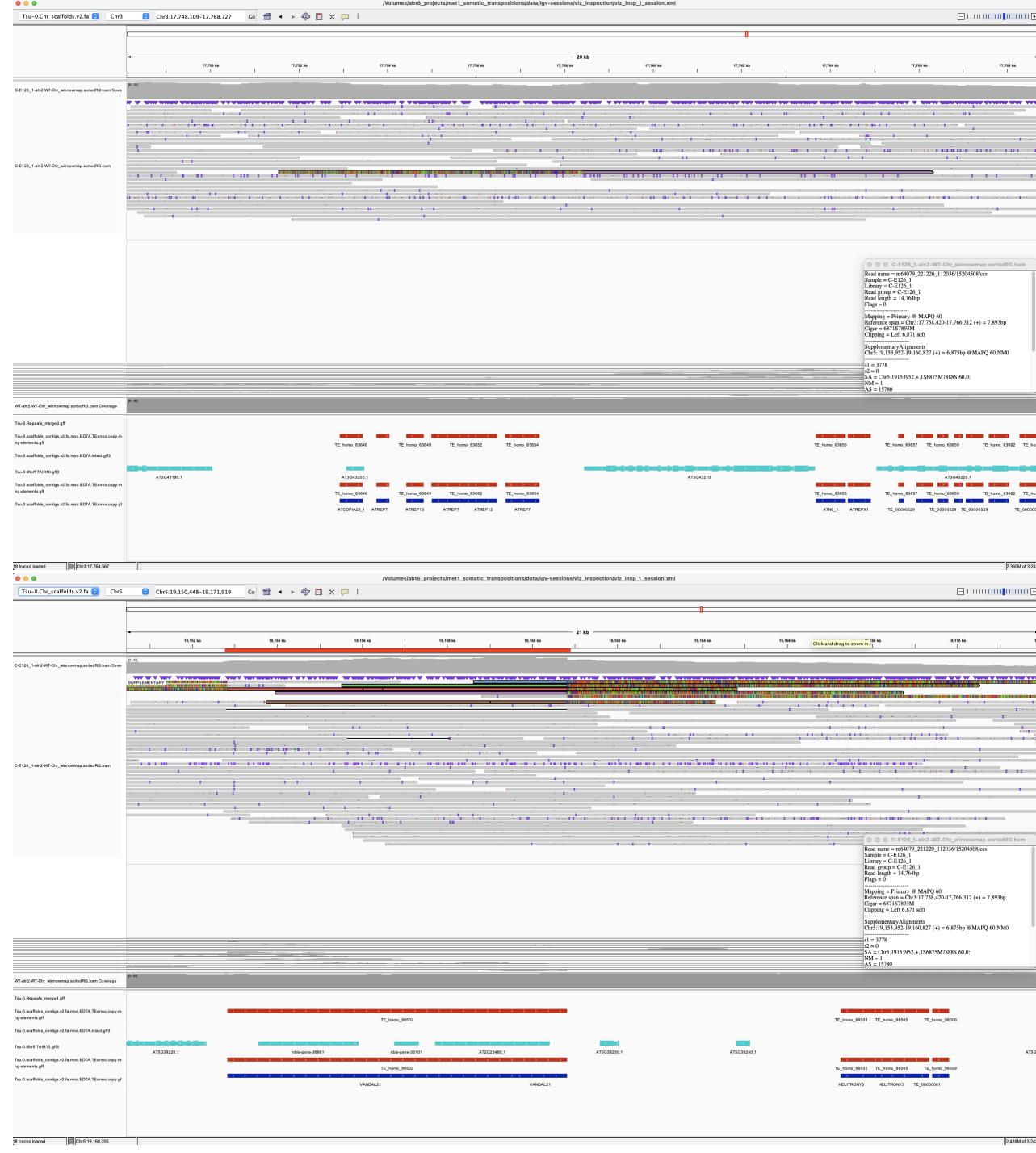
85



Partial

Confirmed

Chr3 17758419 17758419 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/15204508/ccs met1_01

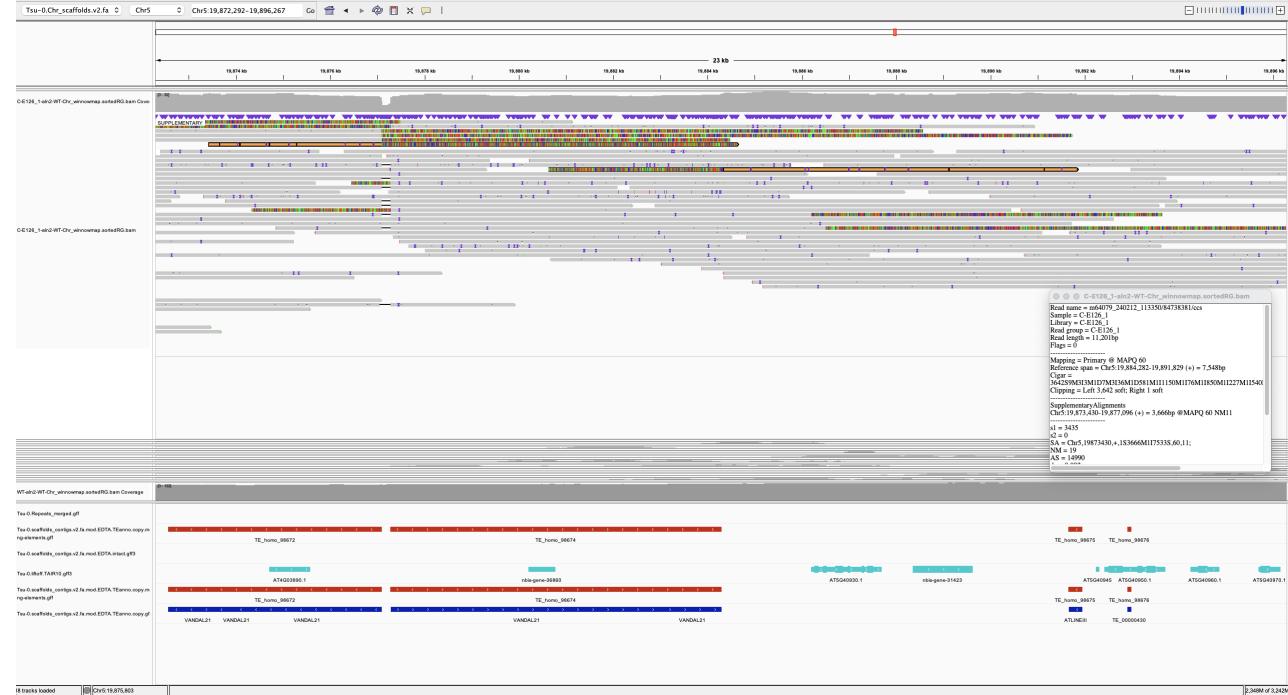


Partial

Confirmed

Chr3 21862257 21862257 - 1 Chr1;11941102;11946441;ATCOPIA93_Evade m64079_240212_113350/121307639/ccs met1_01





PROBABLY JUST A REARRANGEMENT!!

Hypermutable region
unsupported

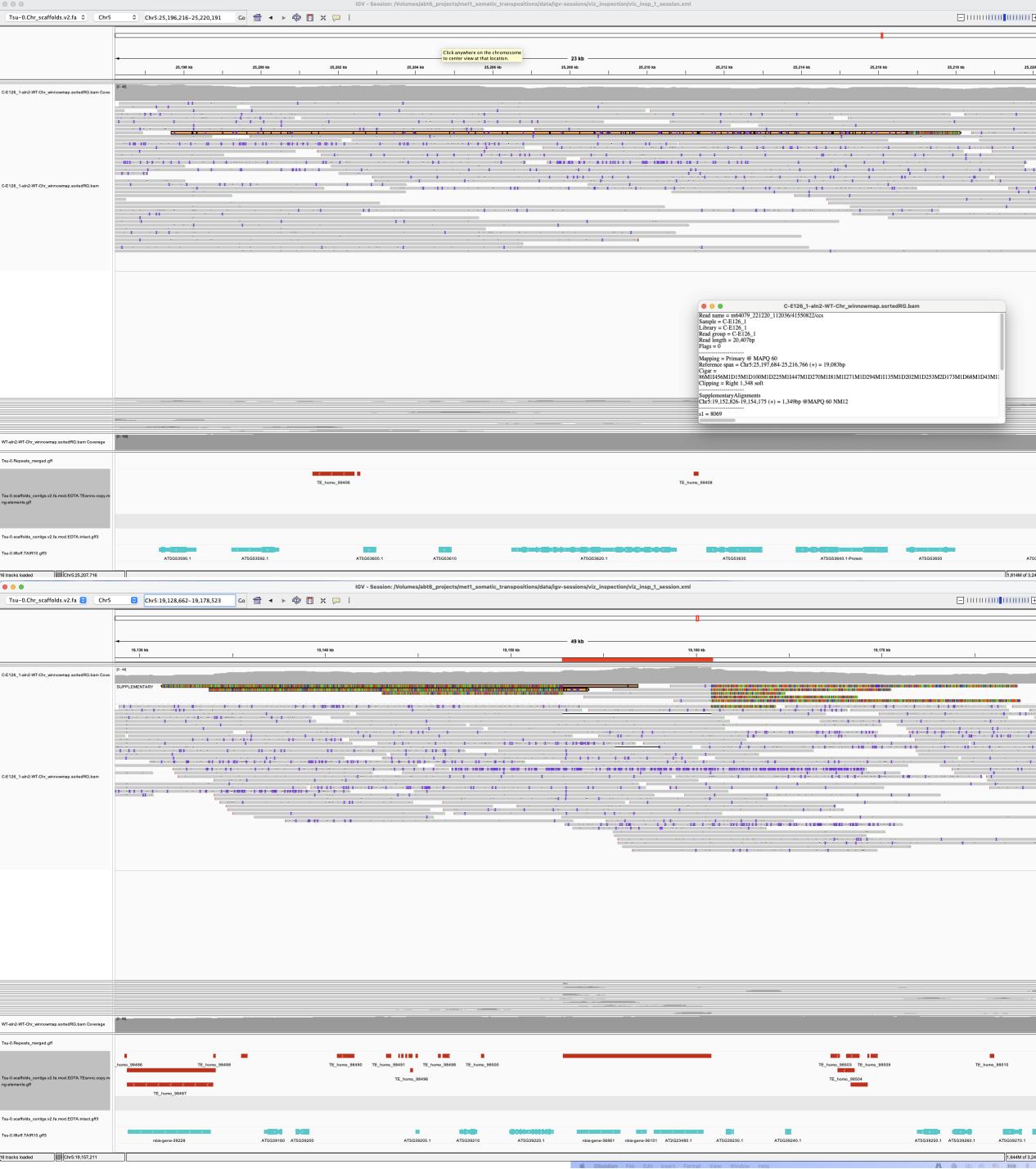




Partial

Confirmed

Chr5 25216766 25216766 + 1 Chr5:19152830;19159575;VANDAL21 m64079_221220_112036/41550822/ccs met1_01

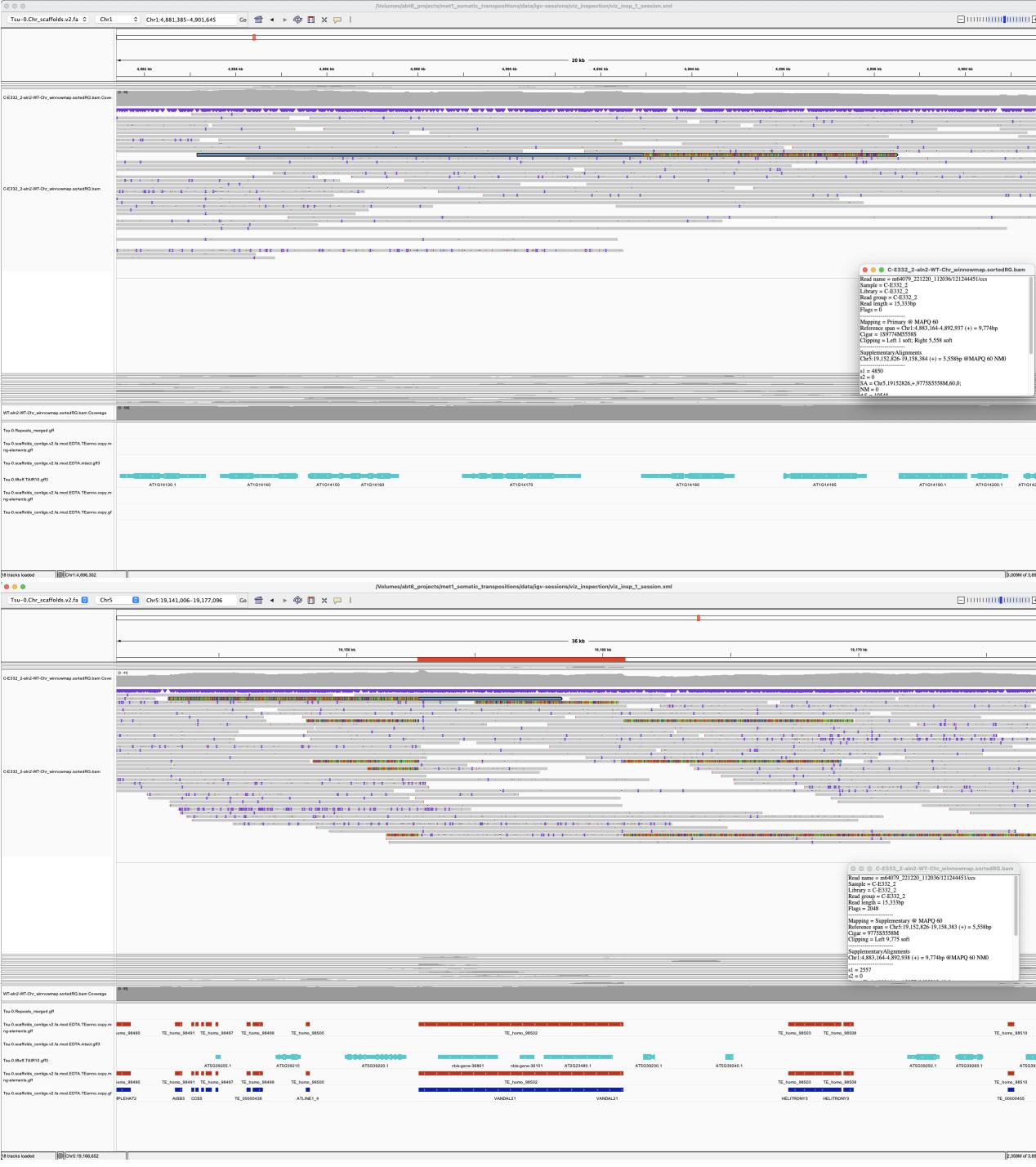


Partial

Confirmed

met1_02

Chr1 4892937 4892937 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/121244451/ccs met1_02



Partial

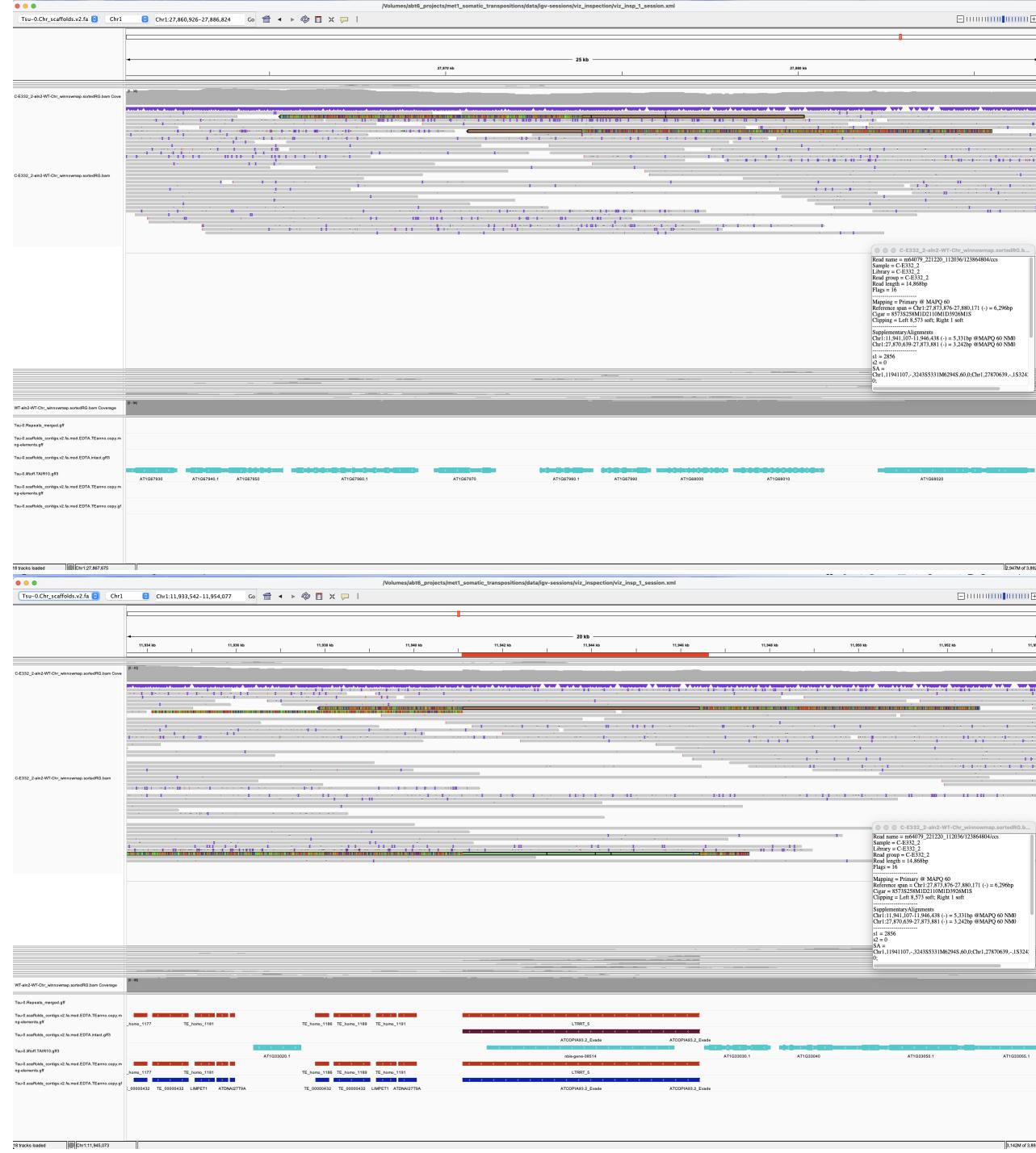
Confirmed

Chr1 5933328 5933328 + 1 Chr1:11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/21432255/ccs met1_02



Central
TSD
Confirmed

Chr1 27873875 27873875 + 1 Chr1;11941106;11946436;ATCOPA93_Evade m64079_221220_112036/123864804/ccs met1_02

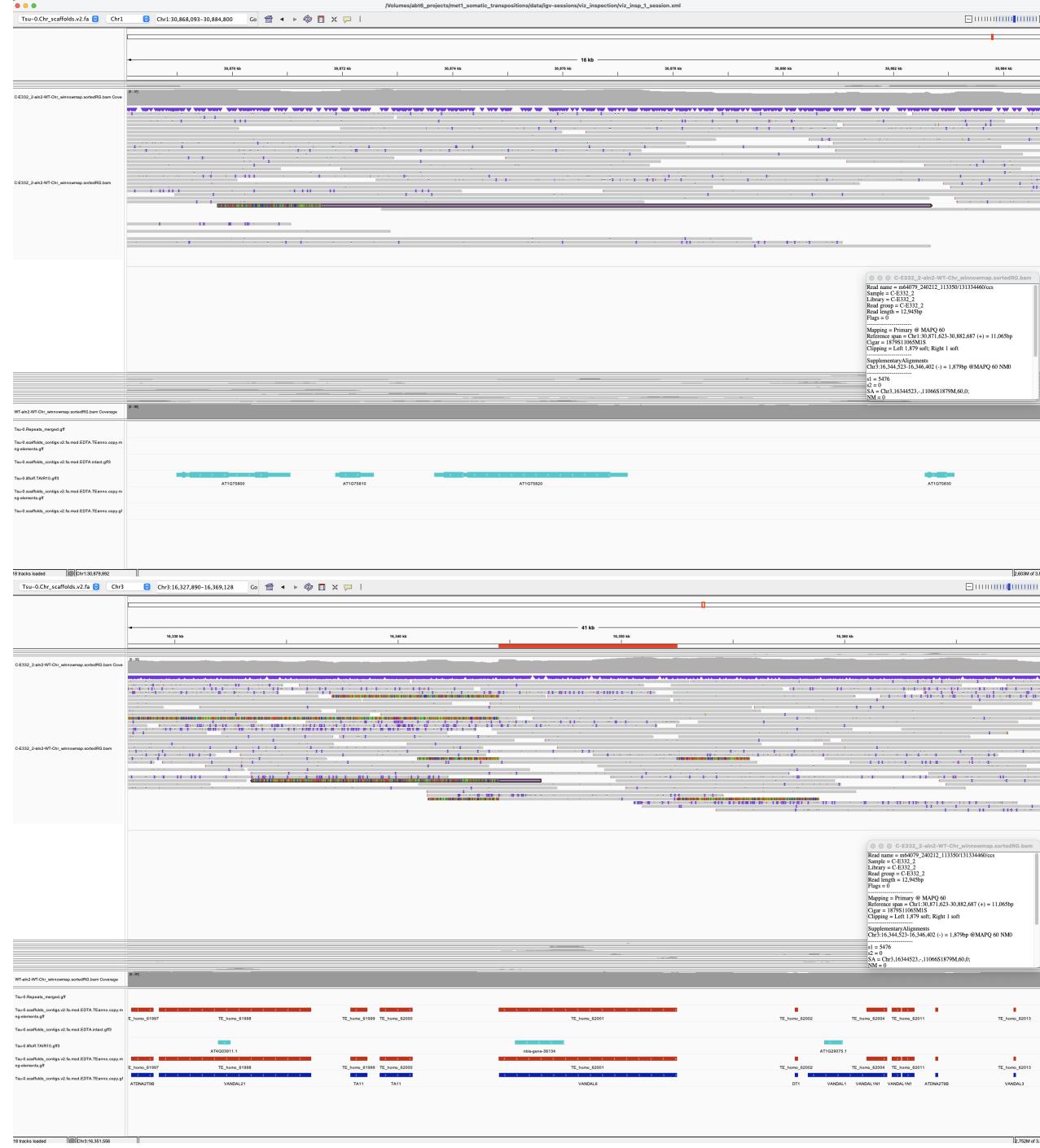


Central

TSD

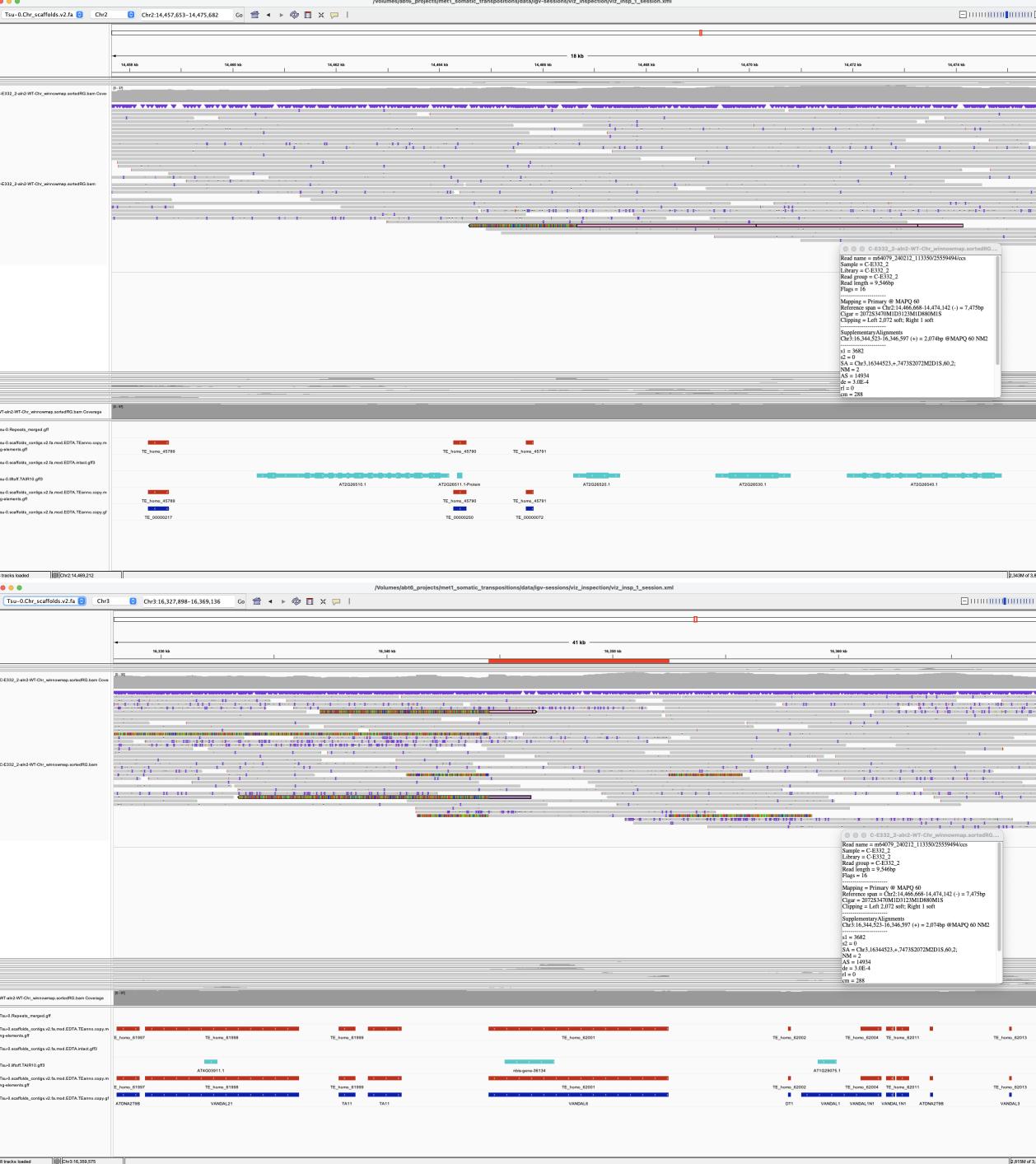
Confirmed

Chr1 30871622 30871622 - 1 Chr3;16344522;16352497;VANDAL6 m64079_240212_113350/131334460/ccs met1_02



Partial

Confirmed



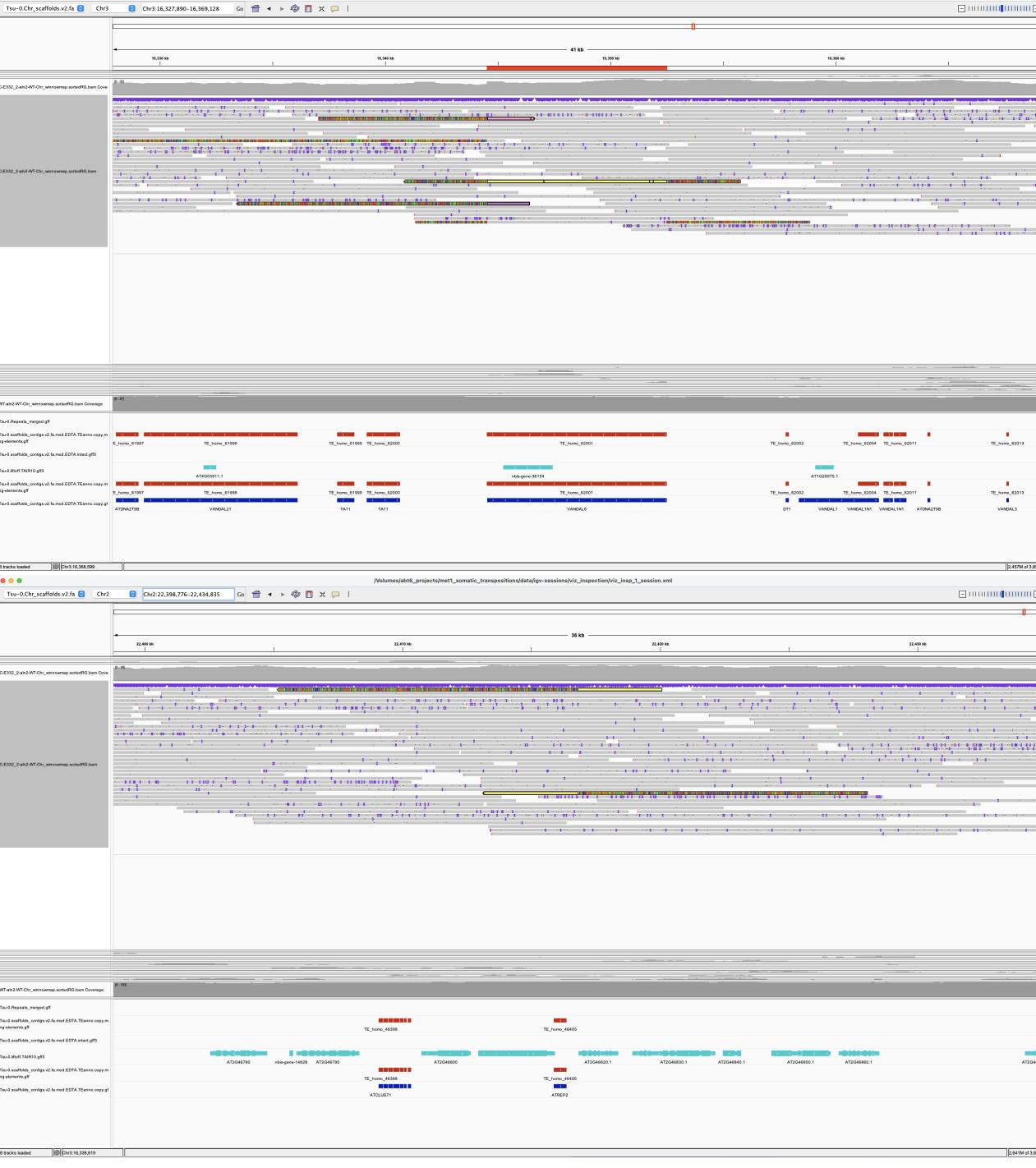
Partial

Confirmed



Partial

Confirmed



Central

TSB

Confirmed

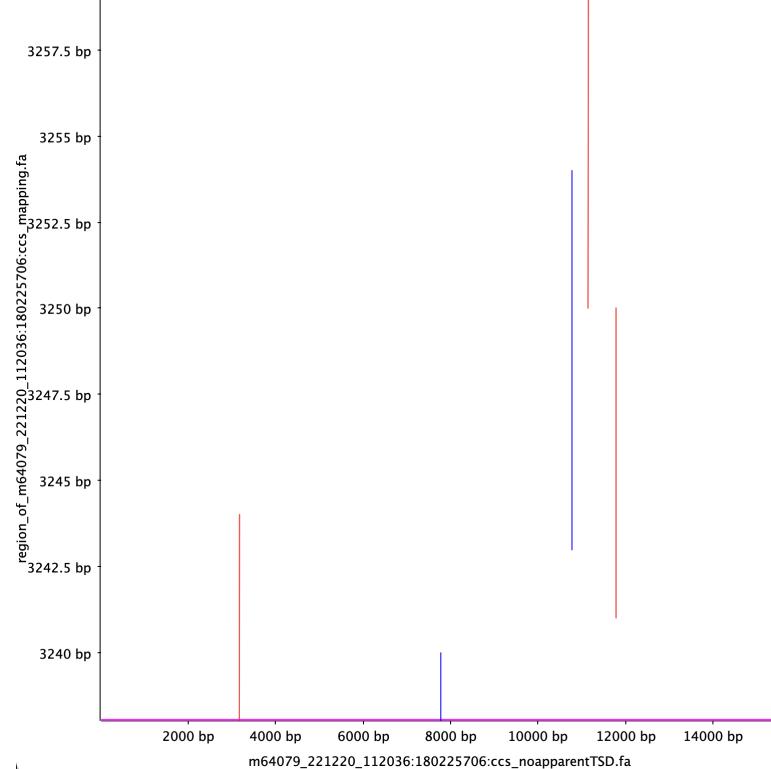


Partial

Confirmed

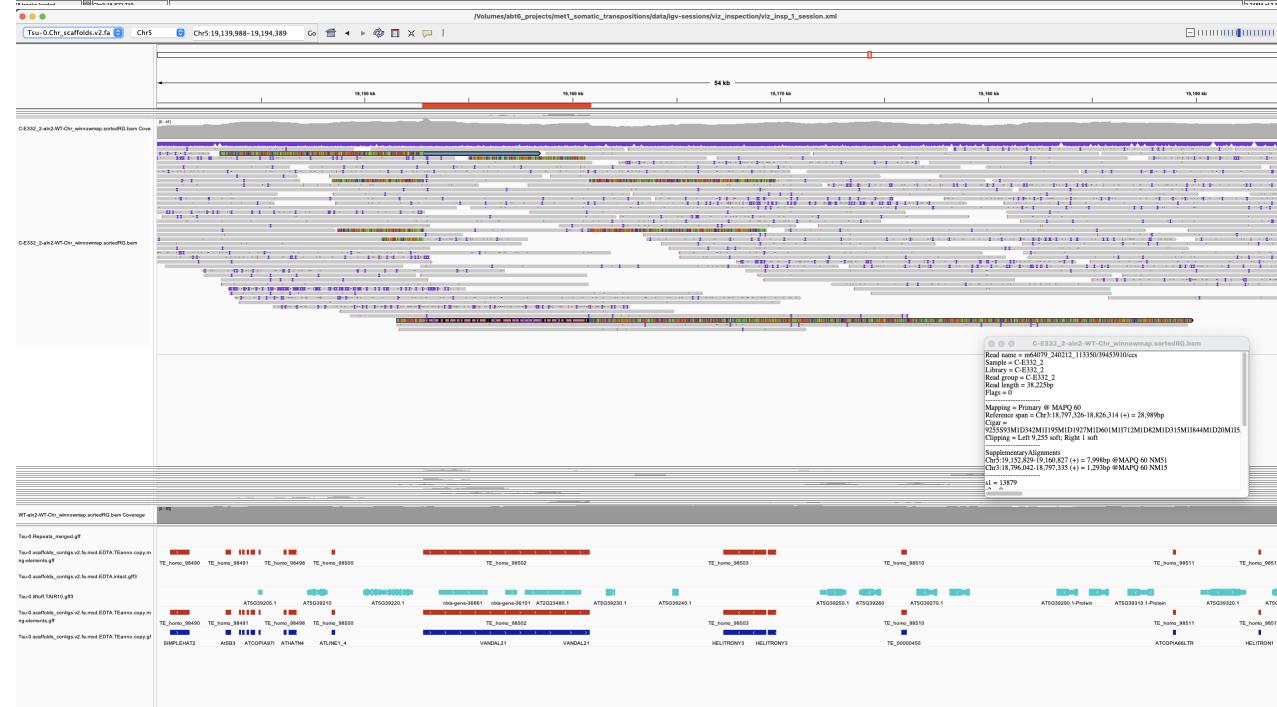
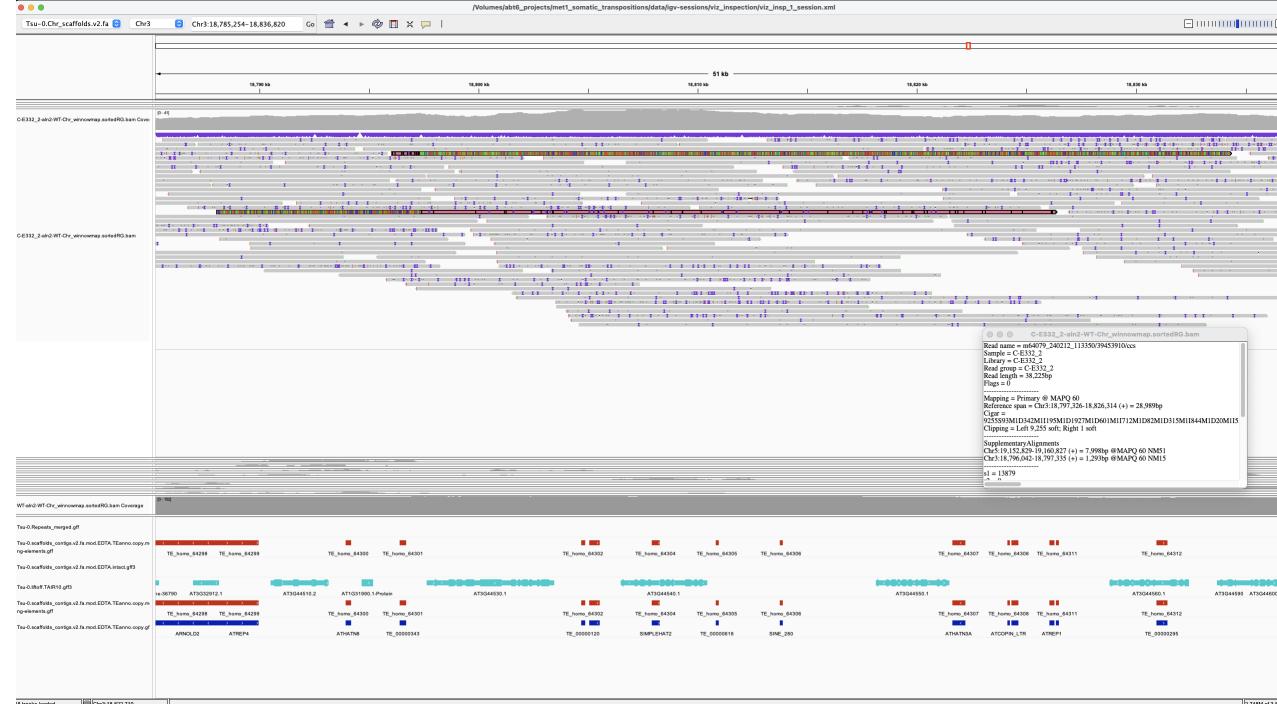


Central
TSD?



Confirmed

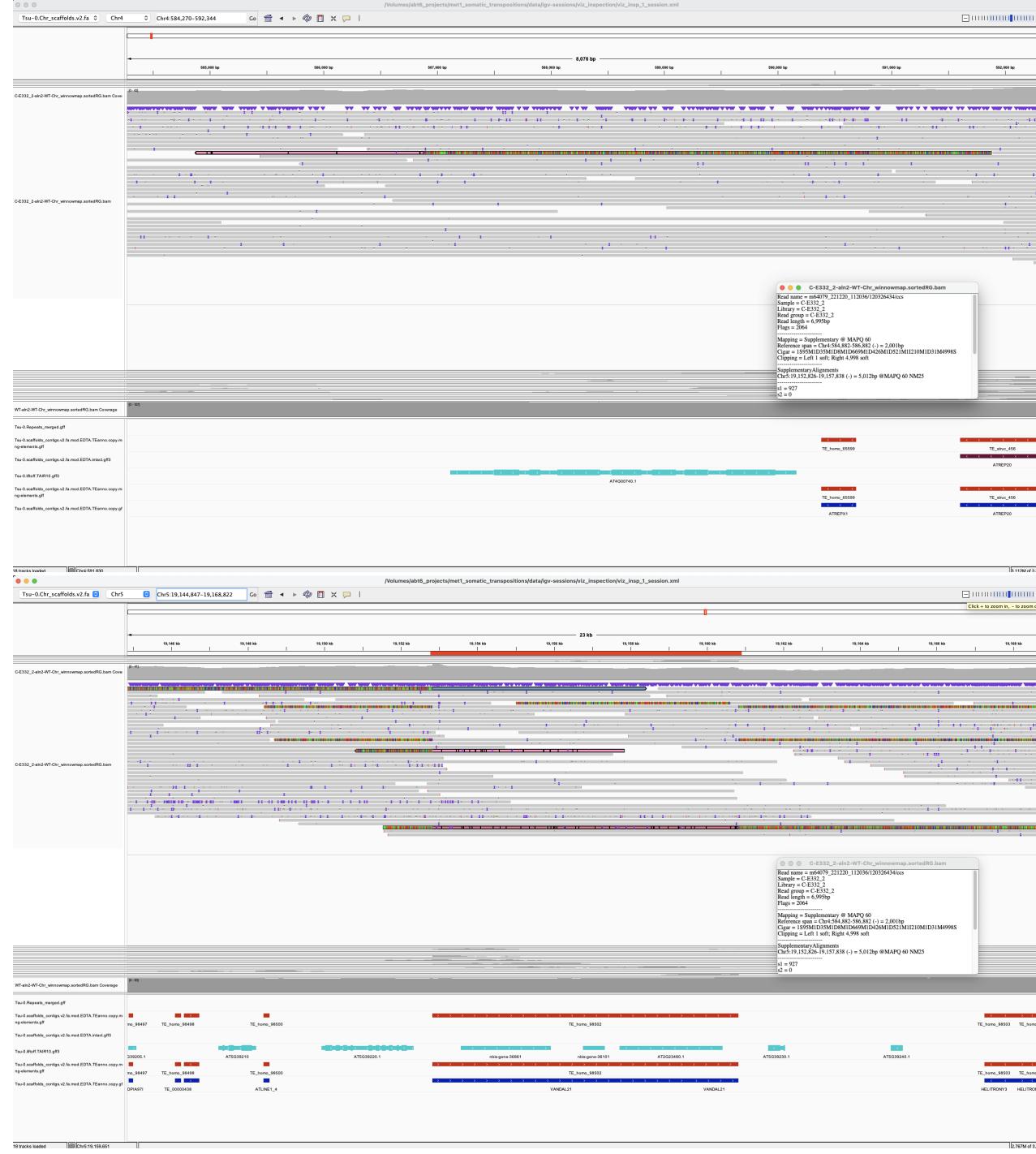
Chr3 18797334 18797334 + 1 Chr5;19152829;19160826;VANDAL21 m64079_240212_113350/39453910/ccs met1_02



Central

TSD

Confirmed



Partial

Confirmed



Confirmed



Central
TSD

Confirmed

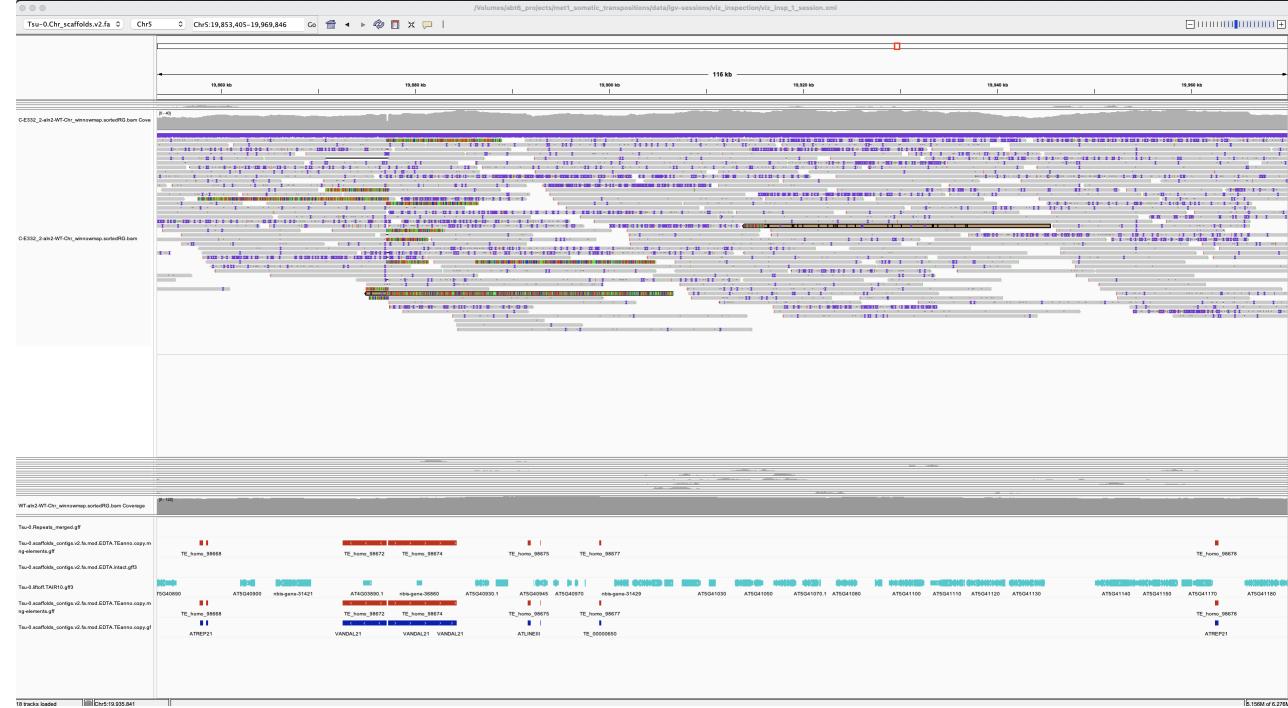
Chr5 16487843 16487843 + Chr5:19152829;19160826;VANDAL21_m64079_221220_112036/61344441/ccs met1_02



Central
TSD

Confirmed

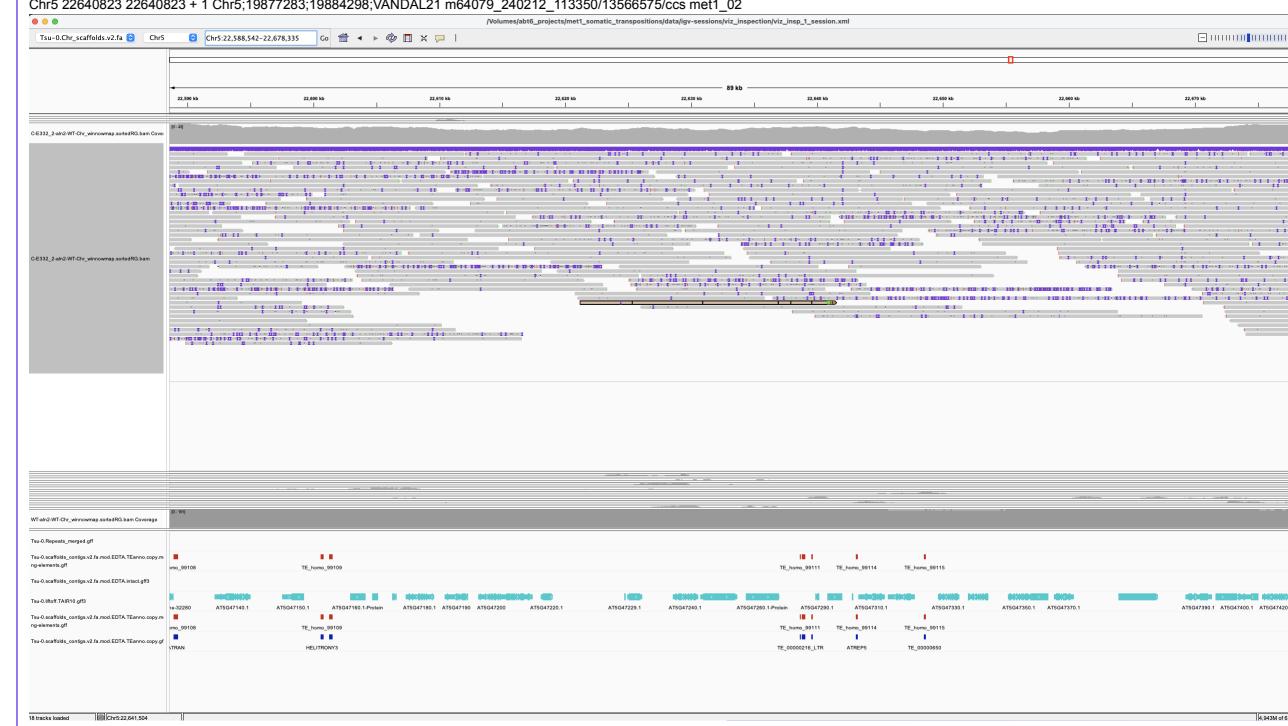
Chr5 19915977 19915977 + 1 Chr5:19872565;19877095;VANDAL21 m64079_221220_112036/146147378/ccs met1_02

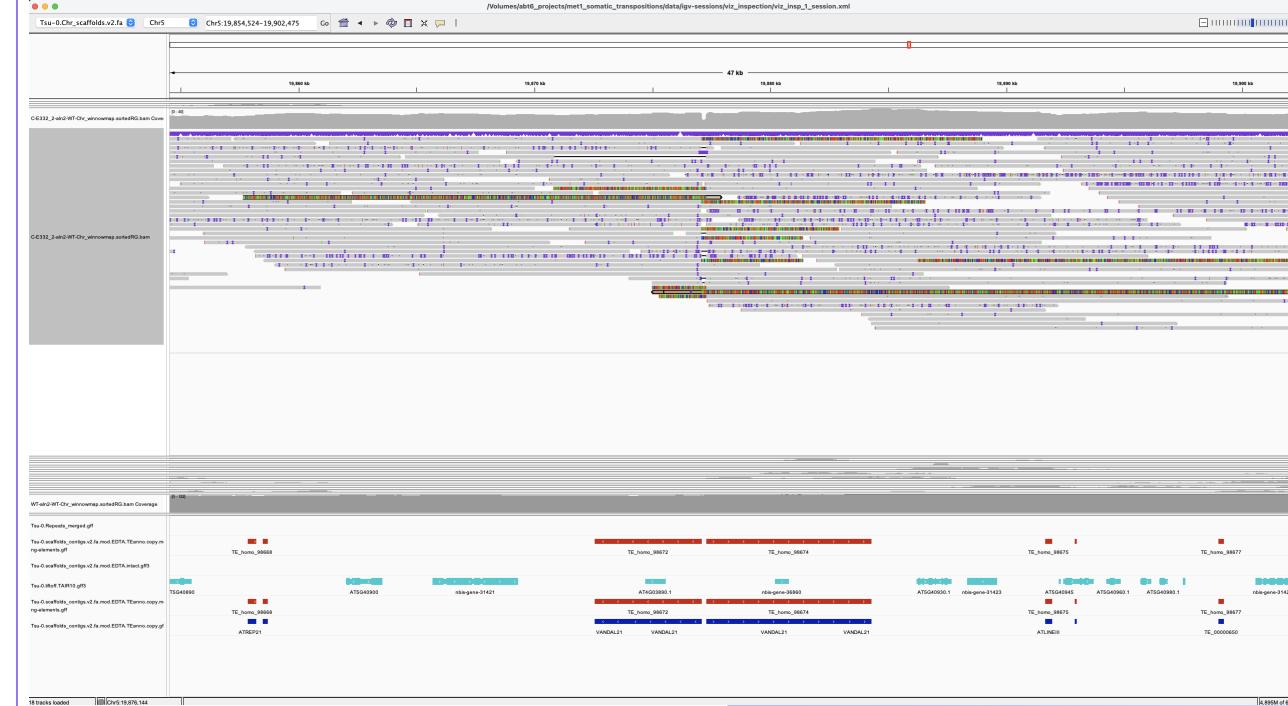


RE-arrangement
probably it is a big deletion

Hypermutable region

unsupported





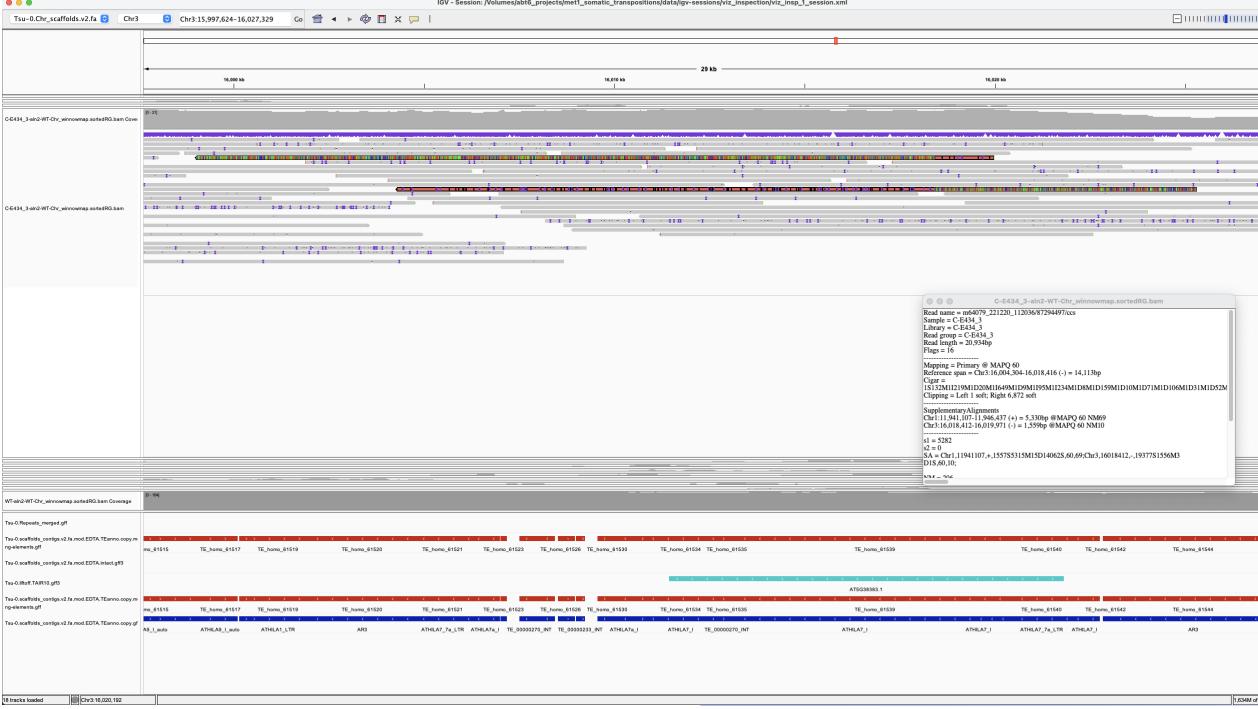
Deemed rearrangement

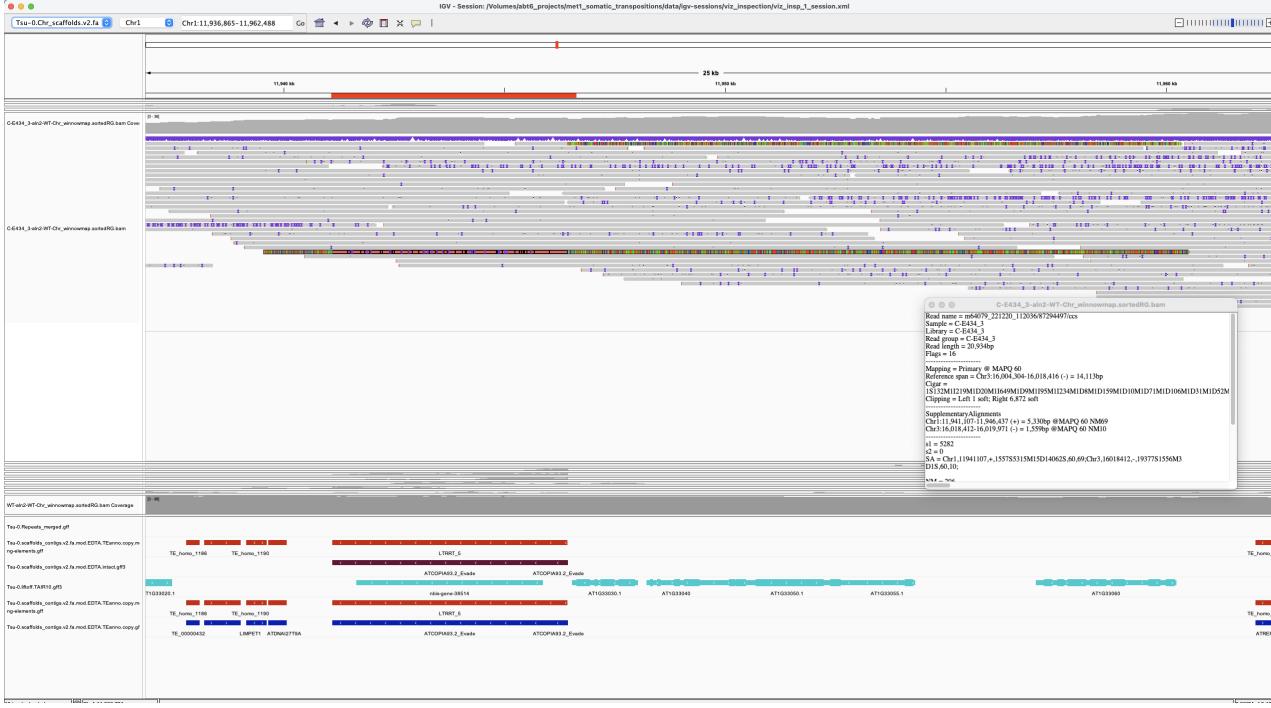
Hypermutable region
unsupported

met1 03

DIFFICULT CASE TO AUTOMATE: m64079_221220_112036/87294497/ccs 1 1557 Chr3 16018411 16019970 20934 - ATHILA7_I
m64079_221220_112036/87294497/ccs 1557 6872 Chr1 11941106 11946436 20934 + ATCOPIA93.2_Evade
m64079_221220_112036/87294497/ccs 6872 20933 Chr3 16004303 16018416 20934 - .

EVD insertion





Central
TSD

Athila Centromeric

Confirmed

| Chr2 9066366 9066366 + 1 Chr5:19152829;19160826;VANDAL21 m64079_240212_113350/7145316/ccs met1_03



Partial

Confirmed

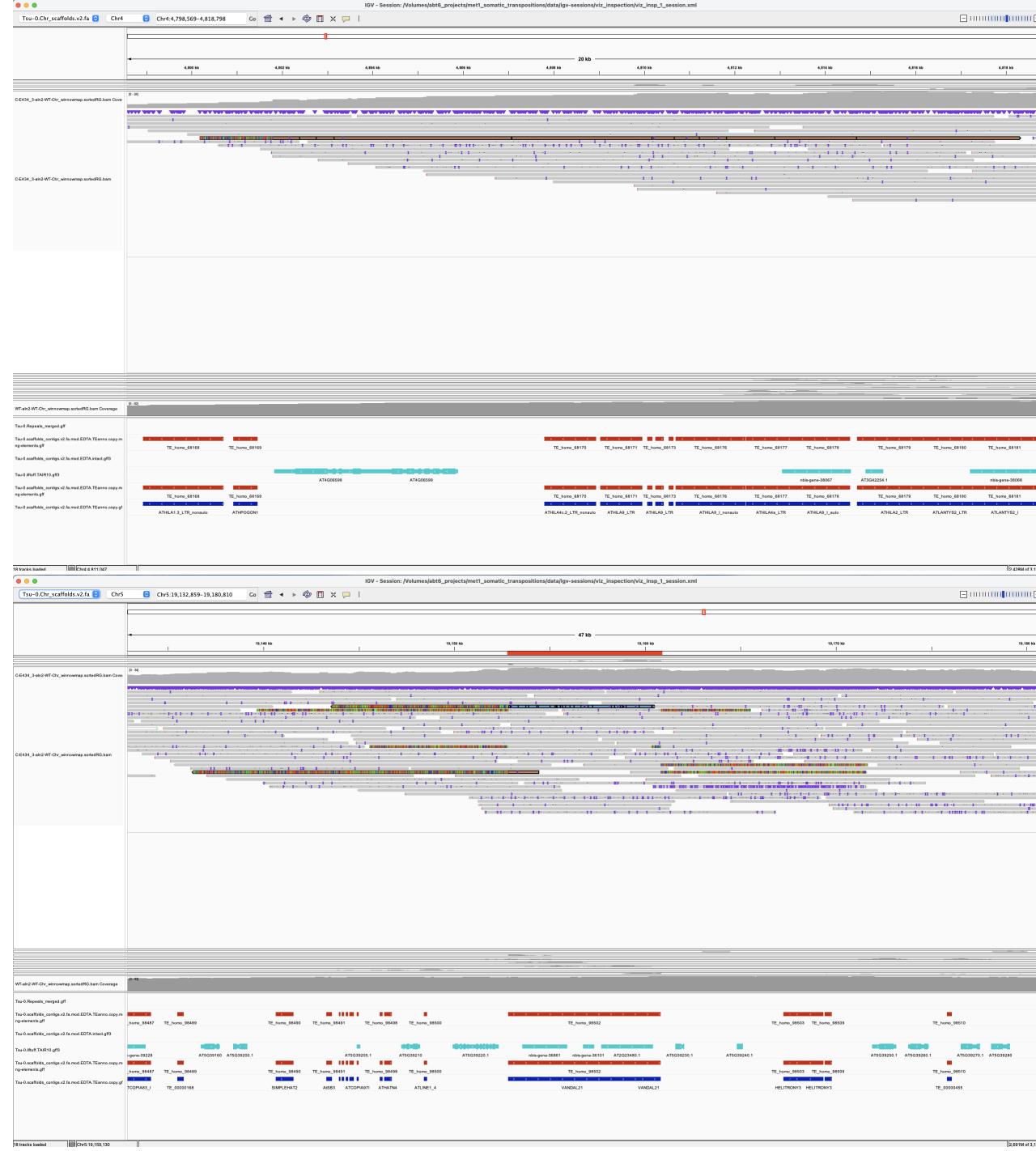
Chr2 22074634 22074634 - 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/63113278/ccs met1_03



Partial

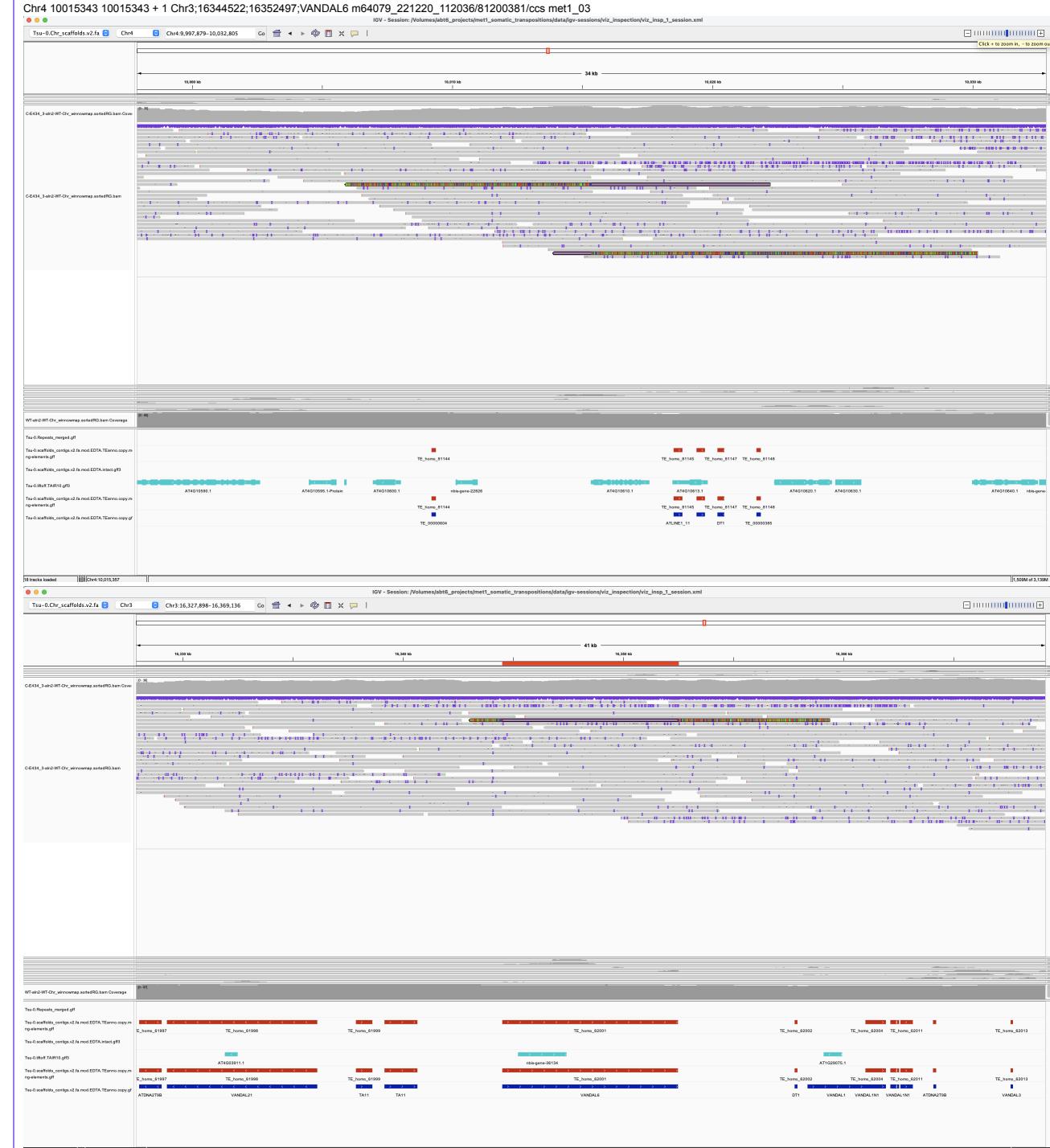
Confirmed

Chr4 4801792 4801792 - 1 Chr5;19152829;19160826;VANDAL21 m64079_240212_113350/153487970/ccs met1_03



Partial

Confirmed



Central
TSD

Confirmed



Partial

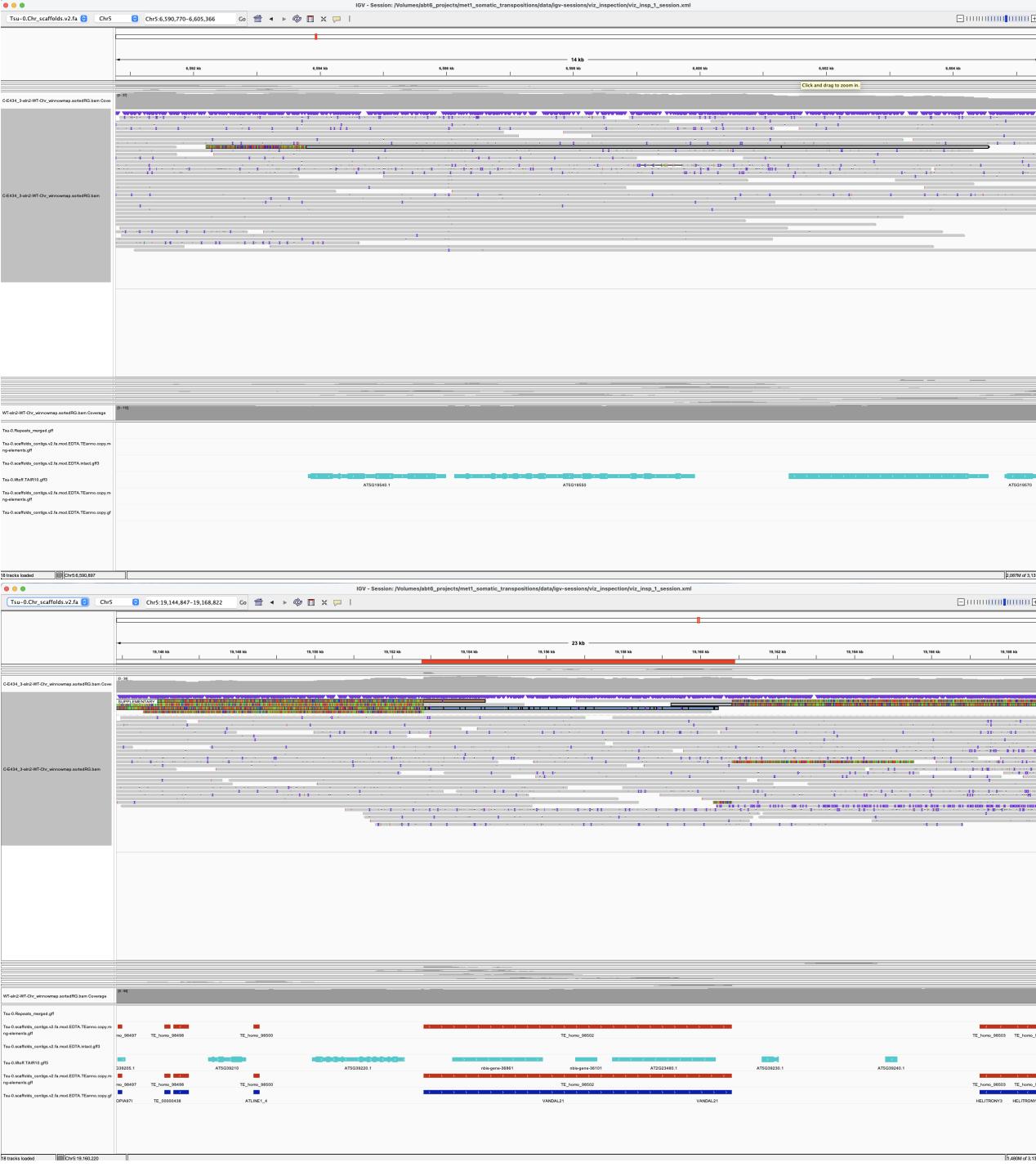
Confirmed

Chr5 4354556 4354556 - 1 Chr3;20158137;20166150;VANDAL6 m64079_240212_113350/32049639/ccs met1_03



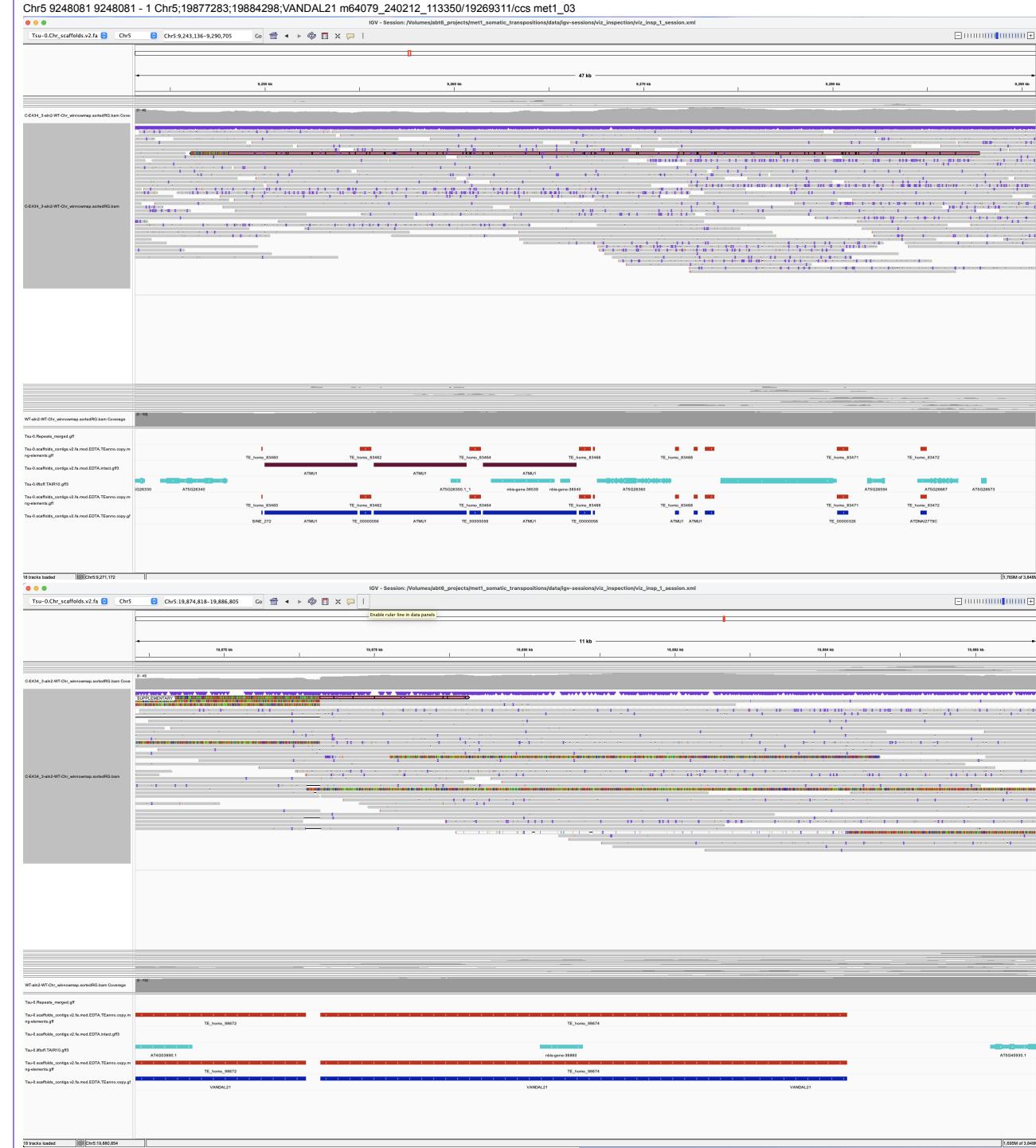
Partial

Confirmed



Partial

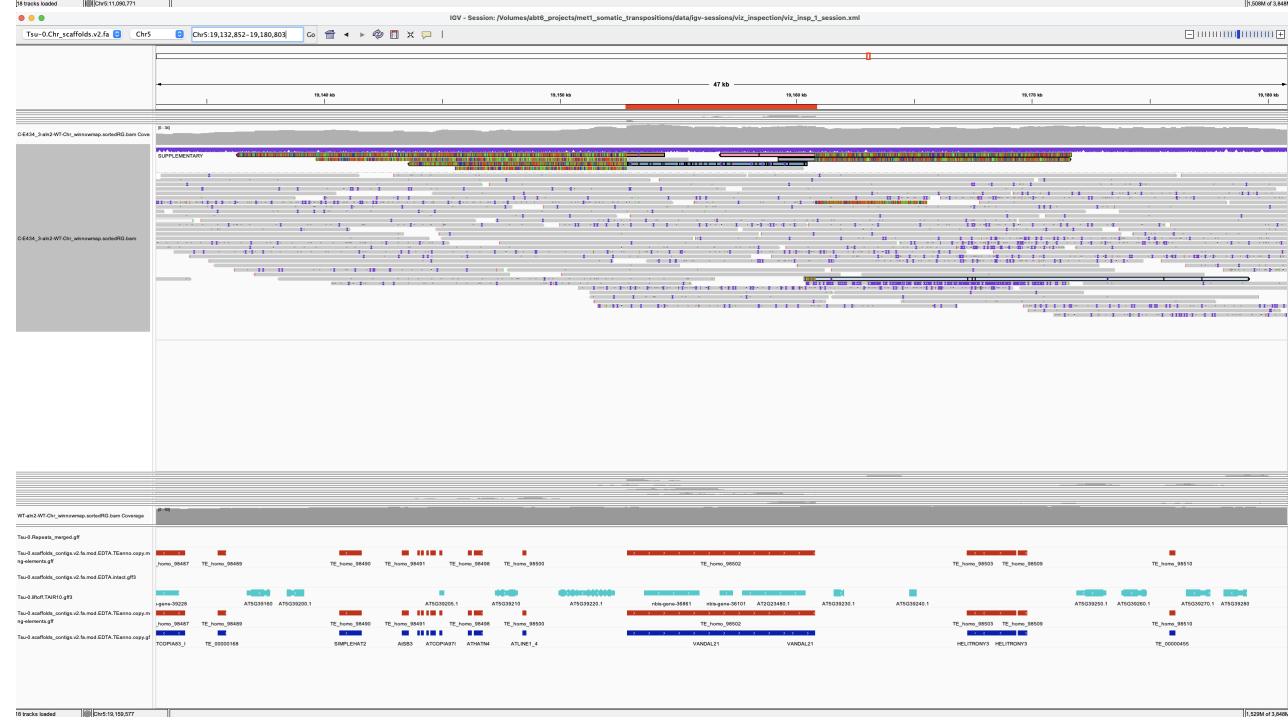
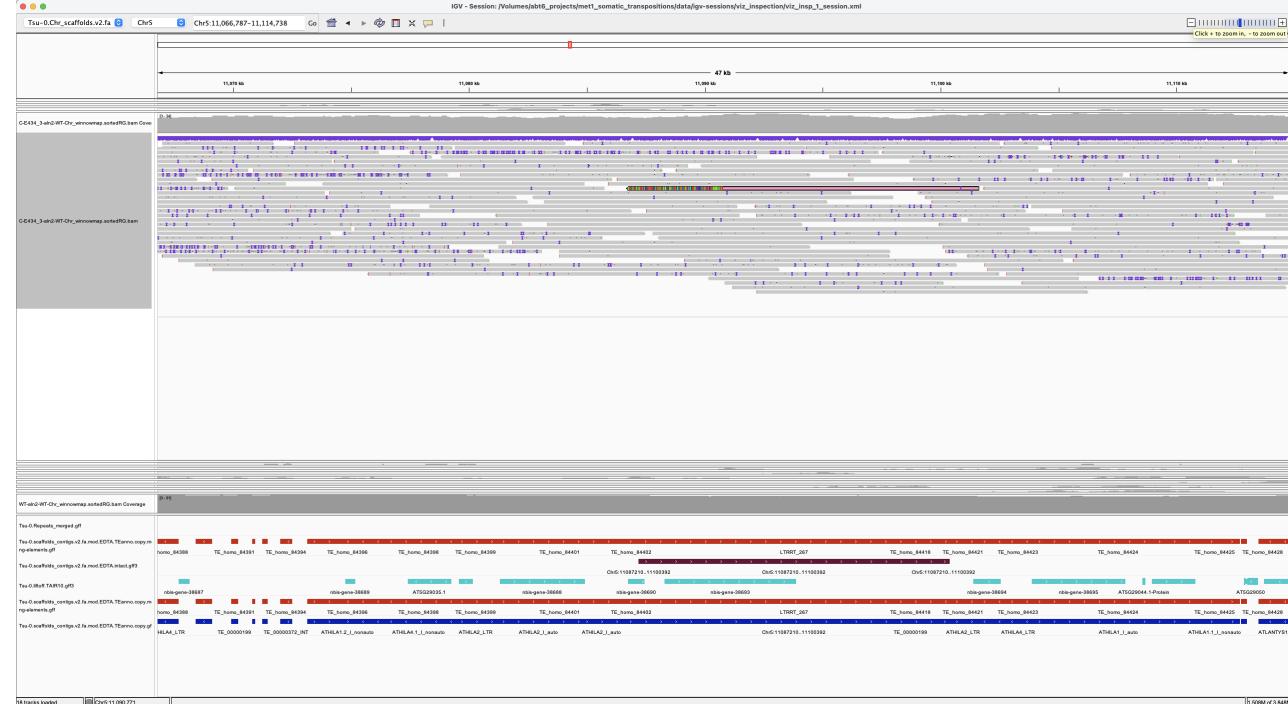
Confirmed



Probably rearrangement

Hypermutable Region
unsupported

Chr5 11090764 11090764 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/36374589/ccs met1

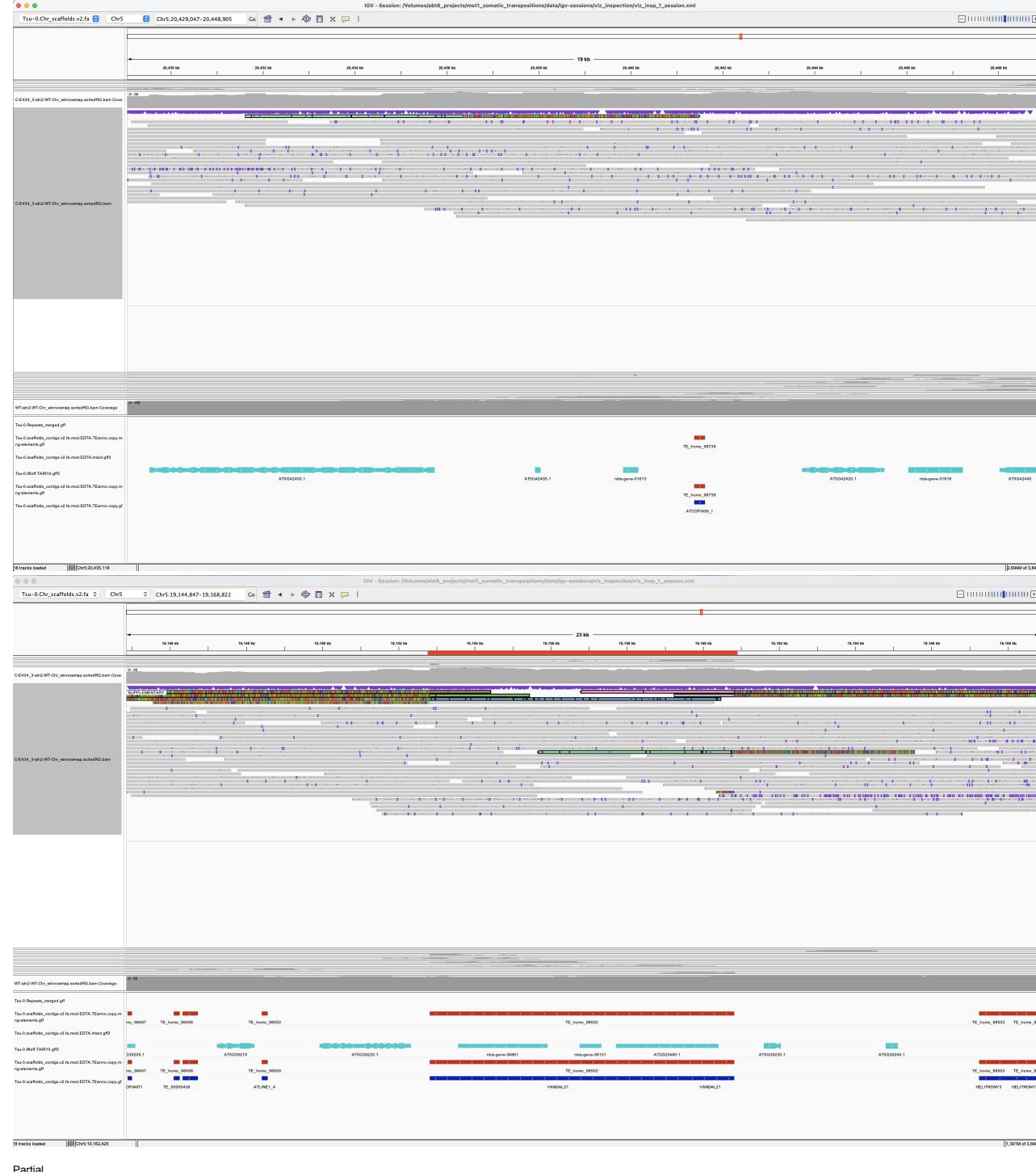


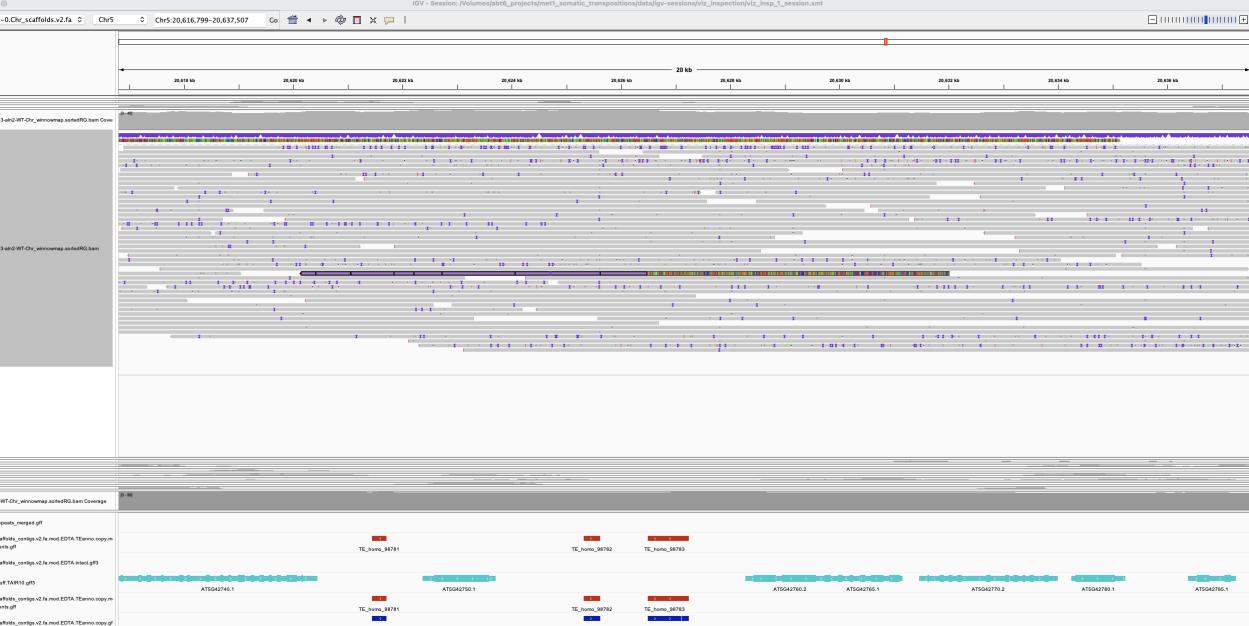
Partial

Confirmed



Partial
Confirmed

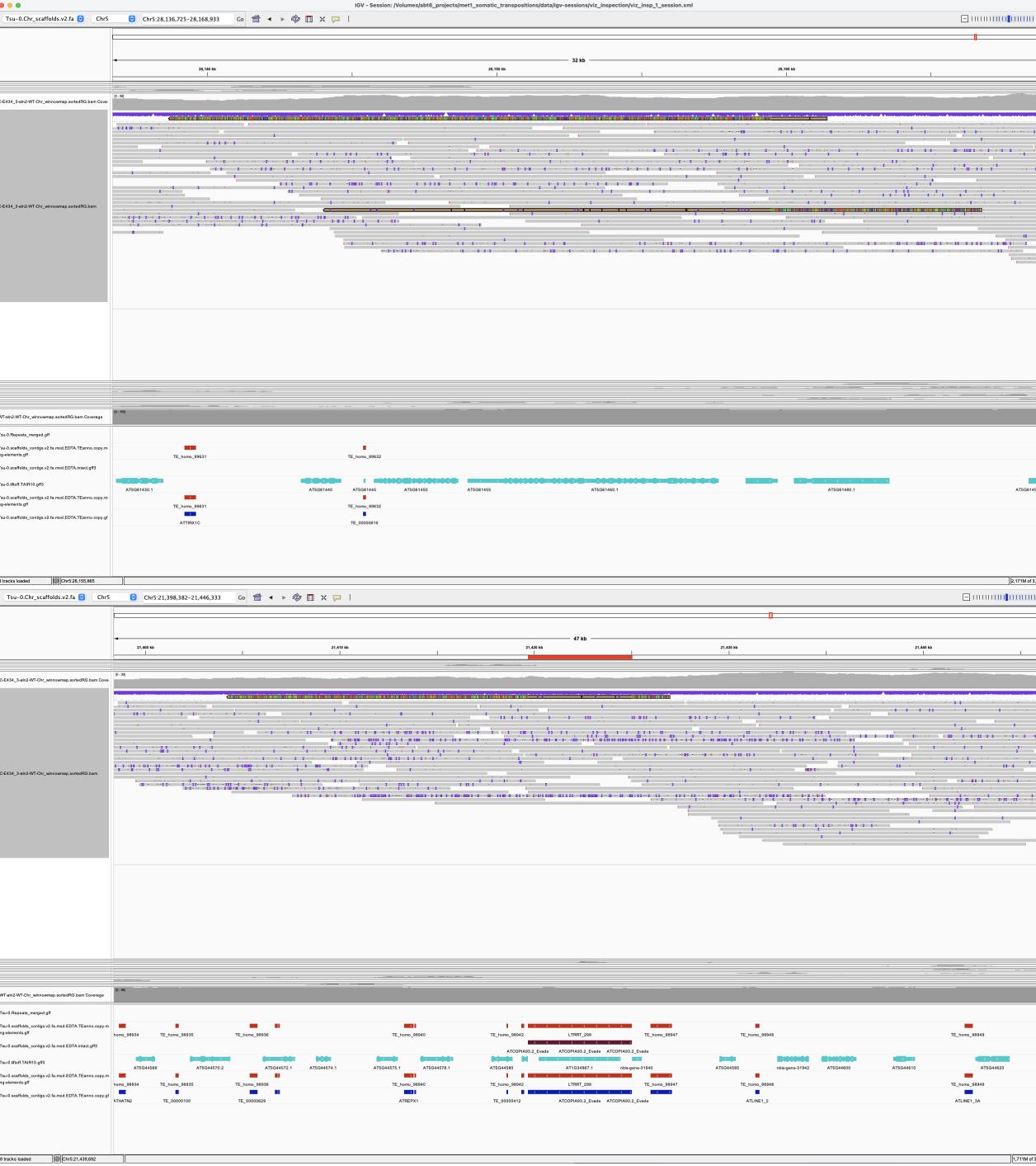




Rearrangement

Hypermutable region
unsupported

Chr5 28159472 28159472 + 1 Chr5;21419693;21425022;ATCOPIA93_Evade m64079_221220_112036/90638963/ccs met1_03



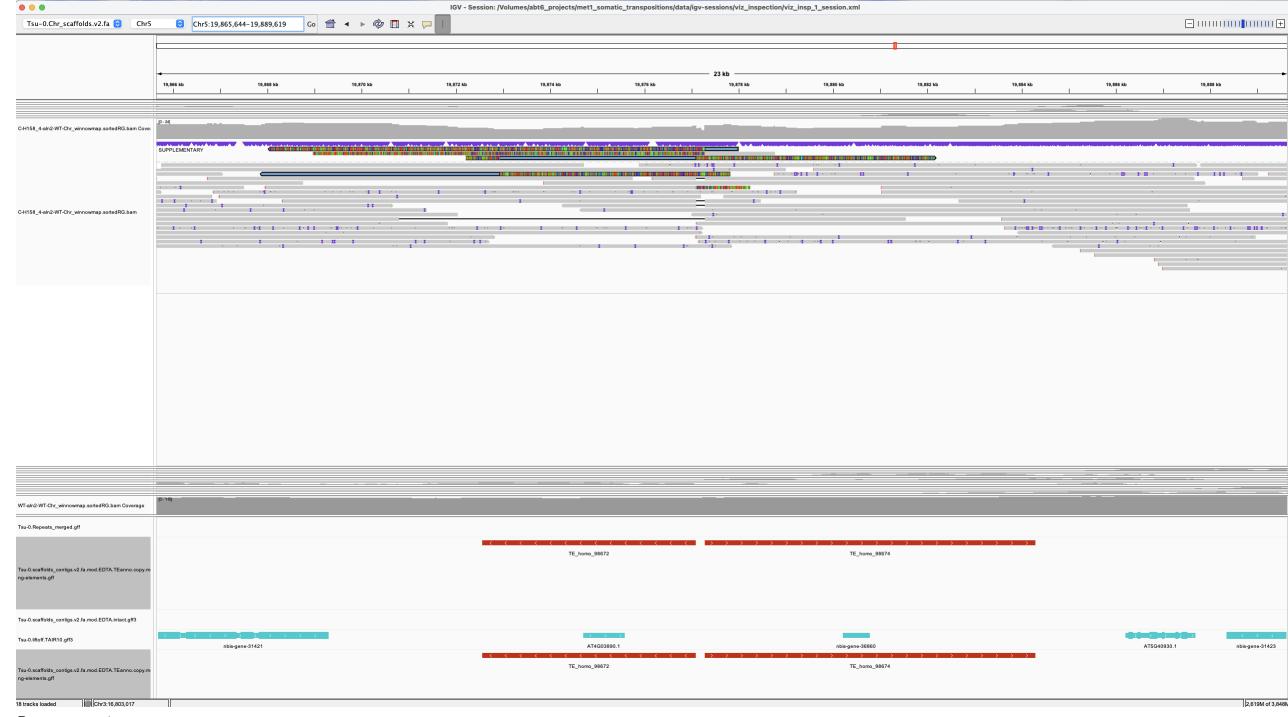
Central

TSD

Confirmed

met1_04

DIFFICULT CASE TO AUTOMATE: m64079_221220_112036/43976048/ccs 1 709 Chr5 19877278 19877986 9933 - VANDAL21
m64079_221220_112036/43976048/ccs 717 4877 Chr5 19872935 19877095 9933 + VANDAL21
m64079_221220_112036/43976048/ccs 4877 9933 Chr5 19867879 19872935 9933 - .



DIFFICULT CASE TO AUTOMATE: m64079_221220_112036/61606528/ccs 1 6079 Chr3 16807887 16813968 15556 + ATHILA3_0_LTR m64079_221220_112036/61606528/ccs 7032 15381 Chr5 15871842 15881696 15556 + ATHILA2

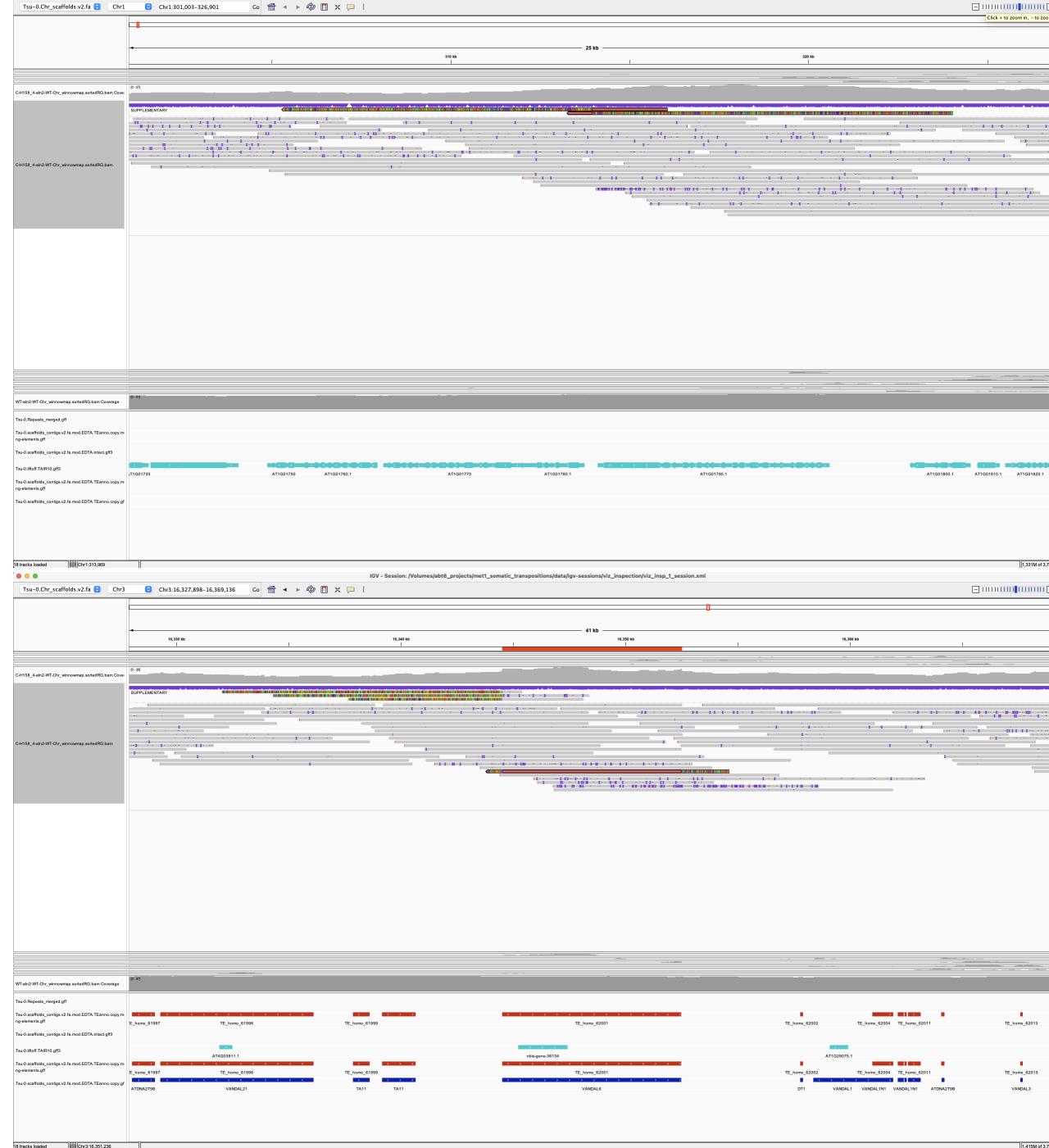


It can actually be a Athila mobilization but cannot be sure, the borders of the TE are not respected. Also many mutations.

Unsure

unsupported

Chr1 313952 313952 + 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/155912133/ccs met1_04



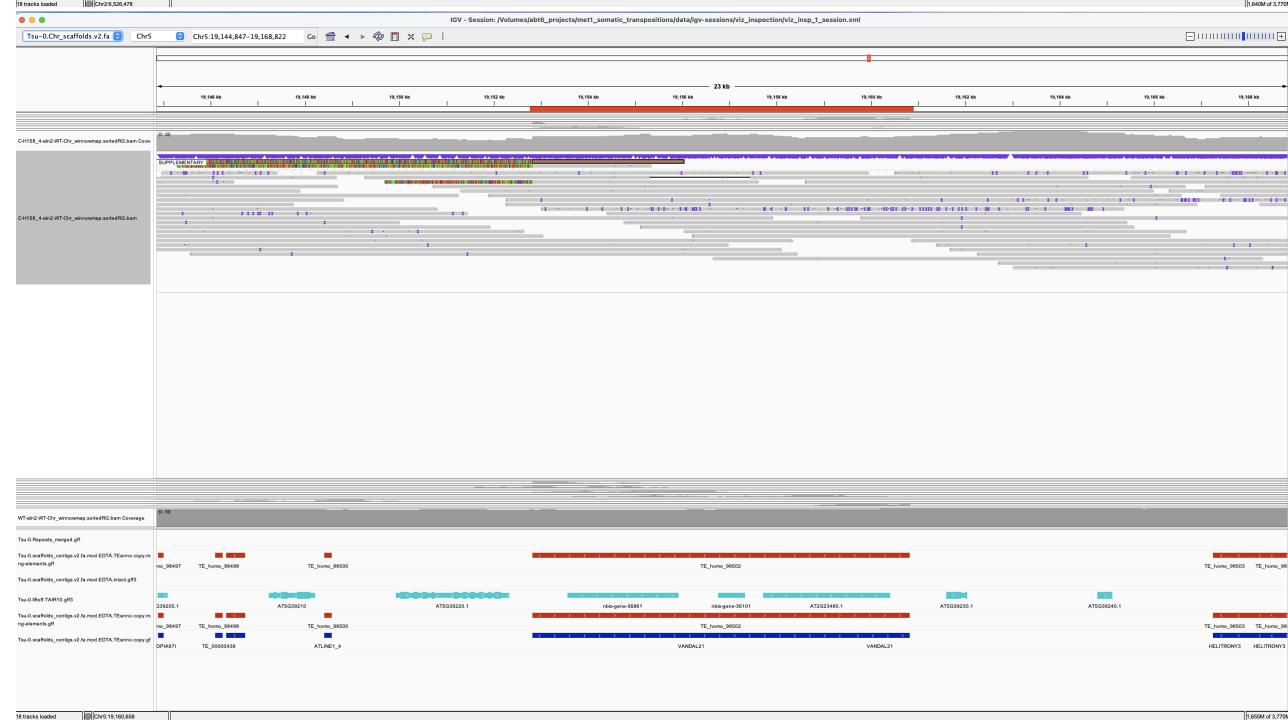
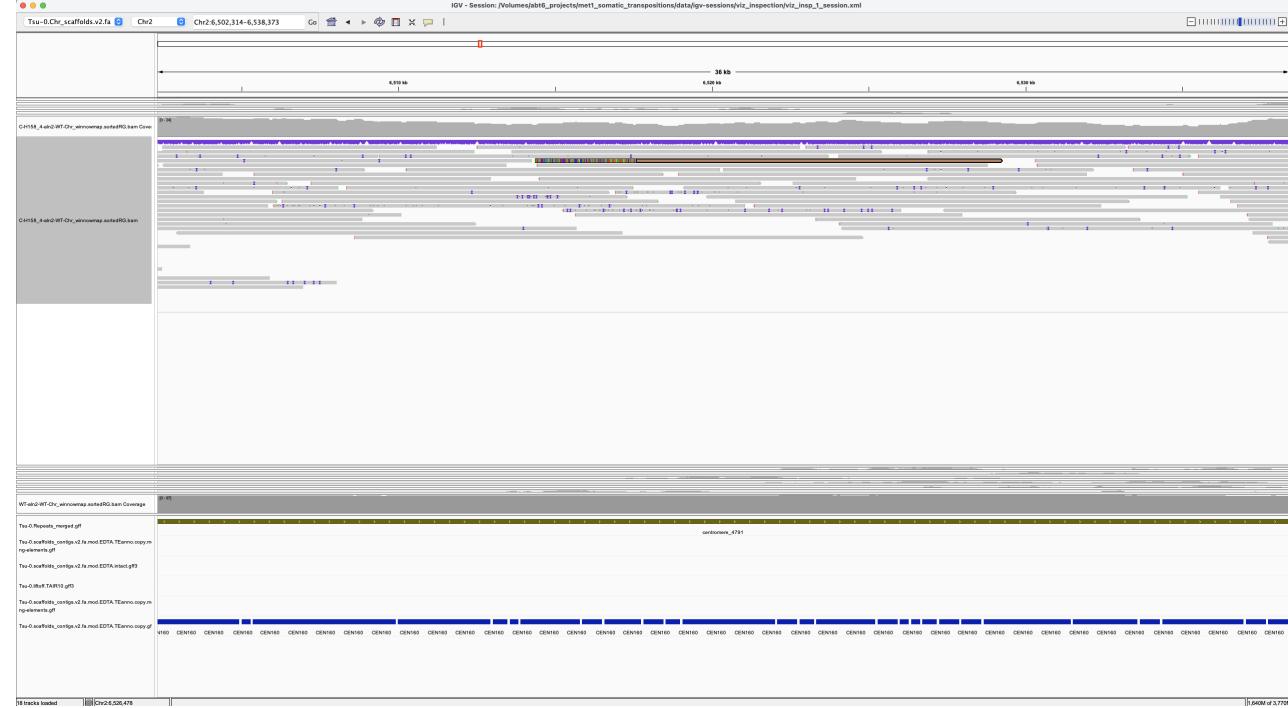
Central
TSD

Confirmed



Partial

Confirmed

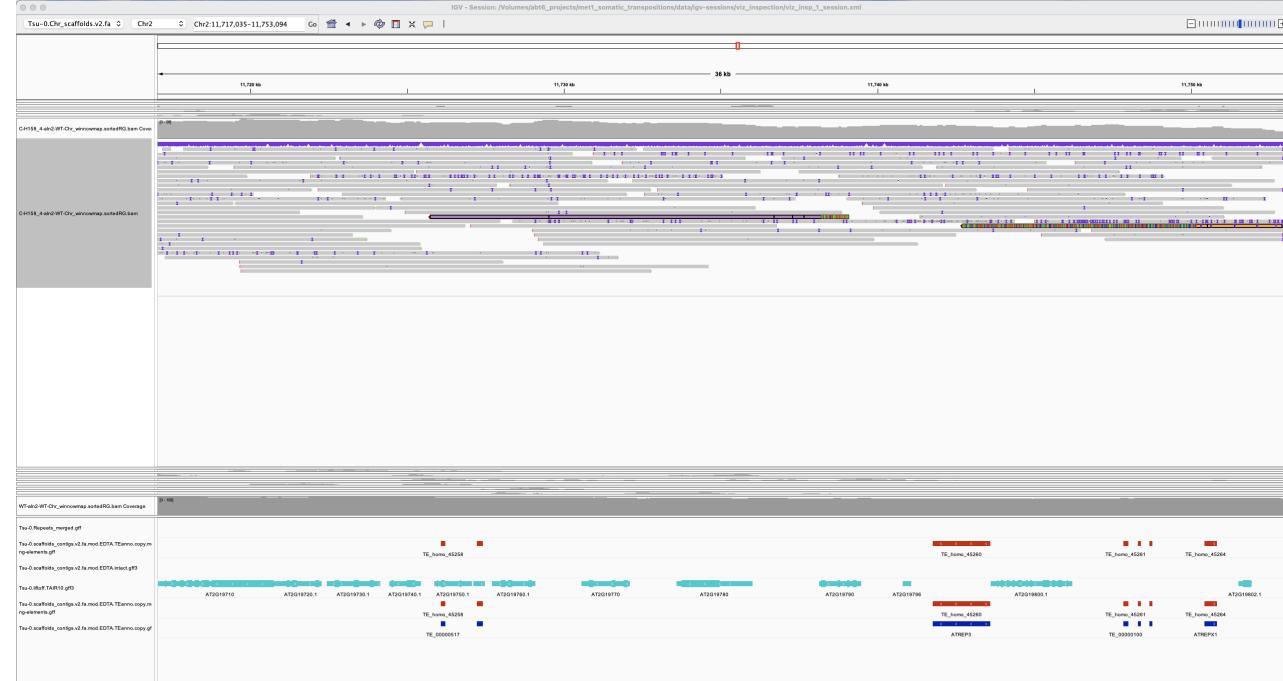


centromeric

Partial

Confirmed

Chr2 11738204 11738204 + 1 Chr3;16344522;16352497;VANDAL6 m64079_240212_113350/163775336/ccs met1_04



Partial

Confirmed



Central

TSD YES

Confirmed

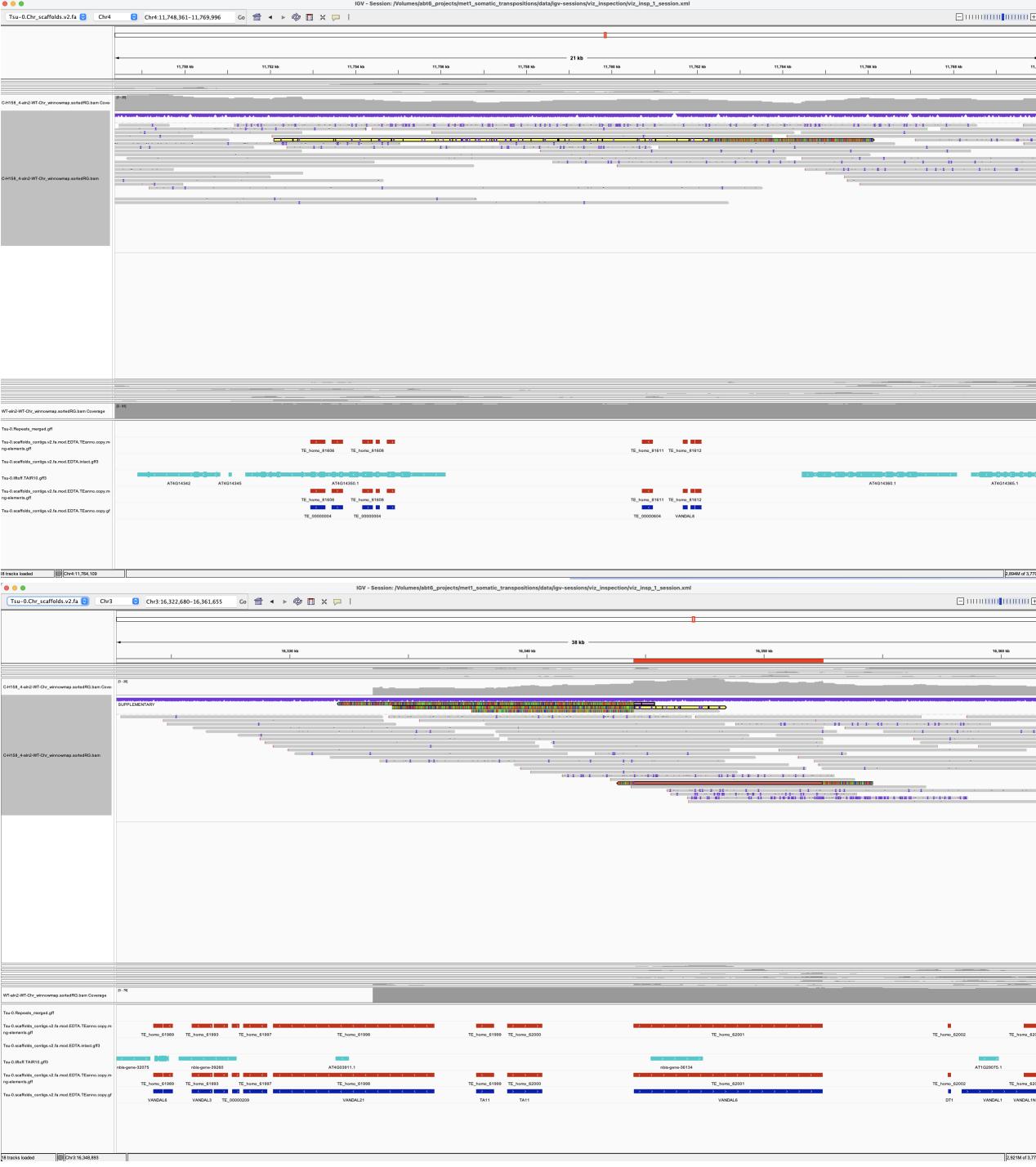
Chr3 24656824 24656824 + 1 Chr5;21419693;21425022;ATCOPIA93_Evade m64079_221220_112036/144245867/ccs met1_



Central
TSD

Confirmed

Chr4 11762271 11762271 + 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/31525296/ccs met1_04



Partial

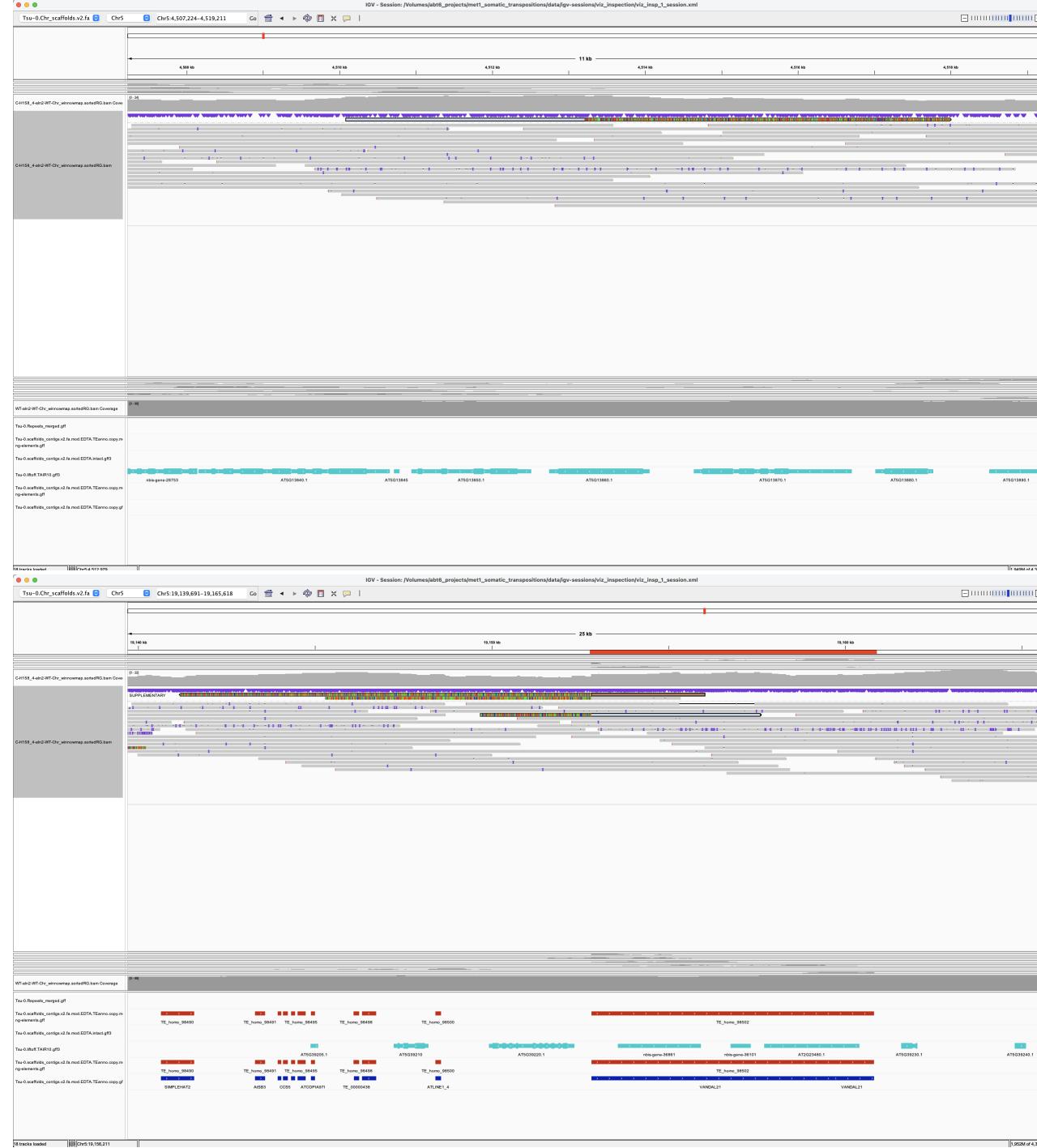
Confirmed

Chr4 15475942 15475942 - 1 Chr5;19877283;19884298;VANDAL21 m64079_240212_113350/7276043/ccs met1_04



Hypermutable region

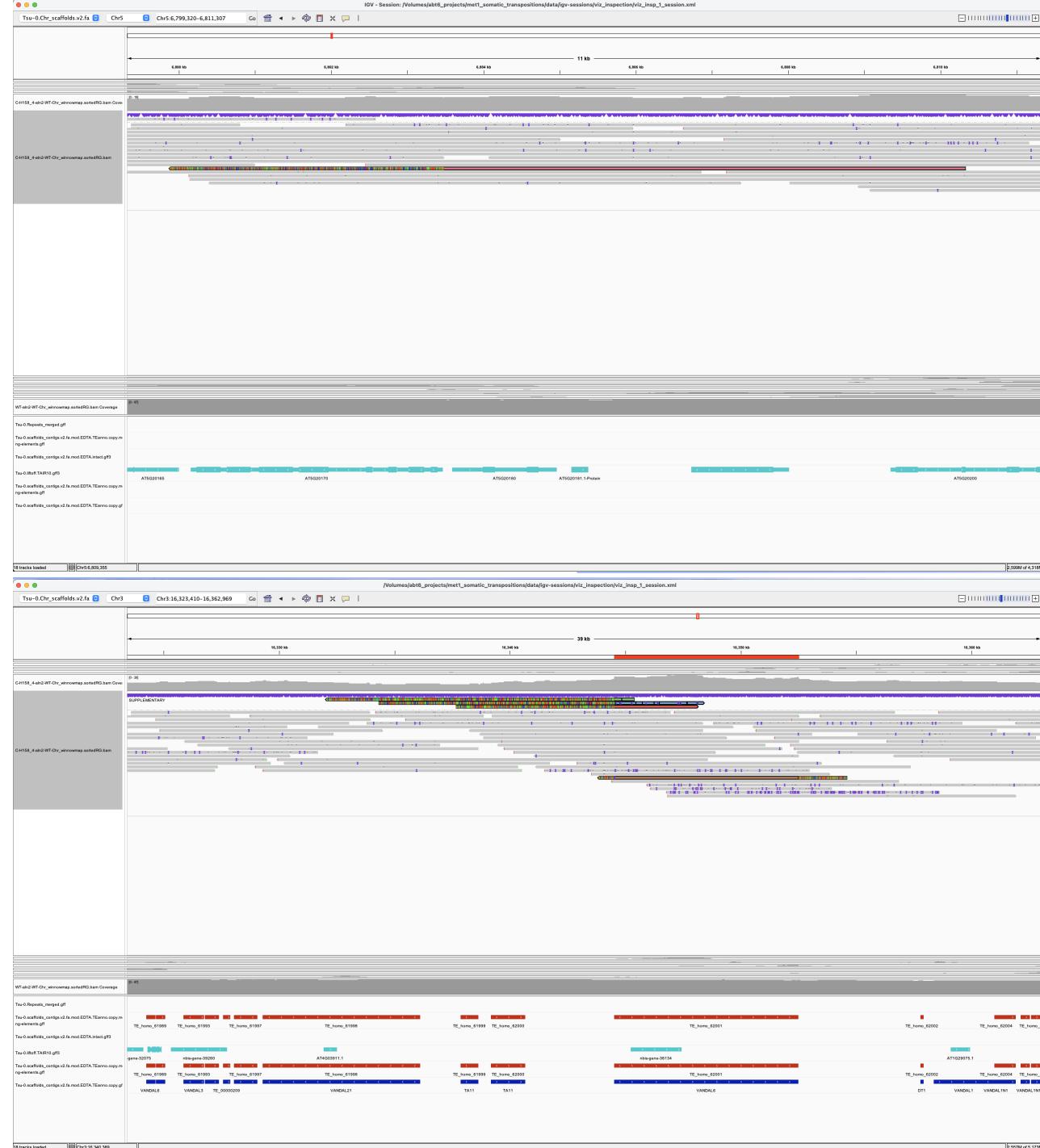
Re-arrangement



Partial

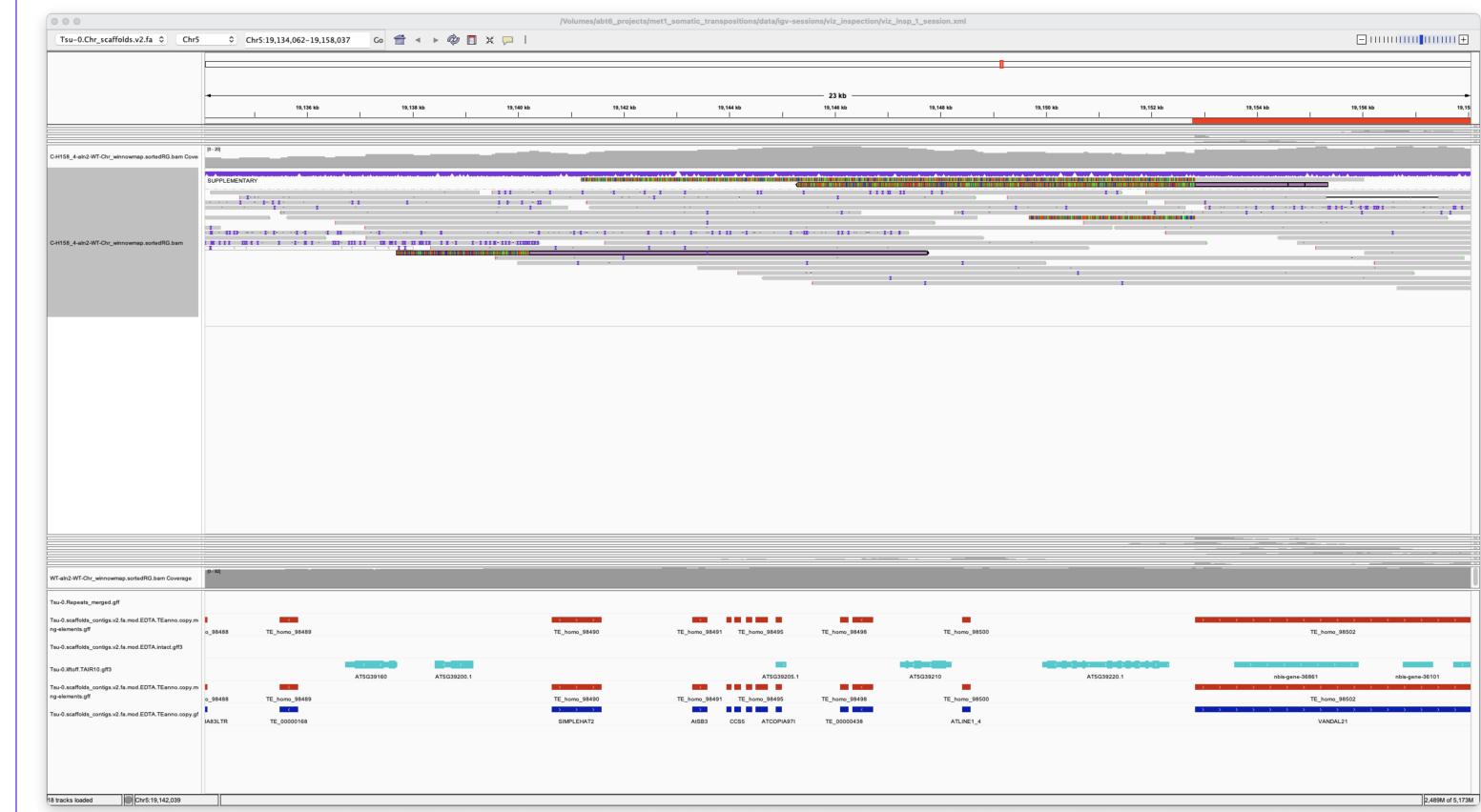
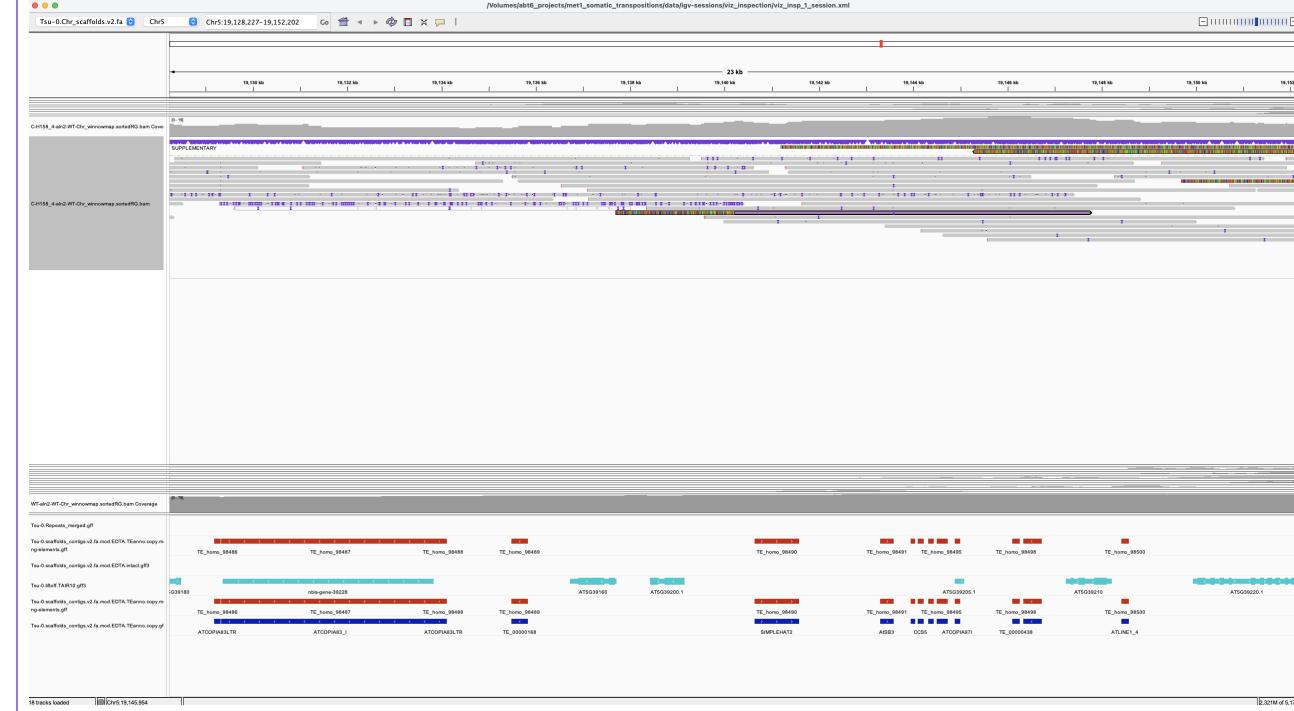
Confirmed

Chr5 6803479 6803479 - 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/133237592/ccs met1_04



Partial

Confirmed

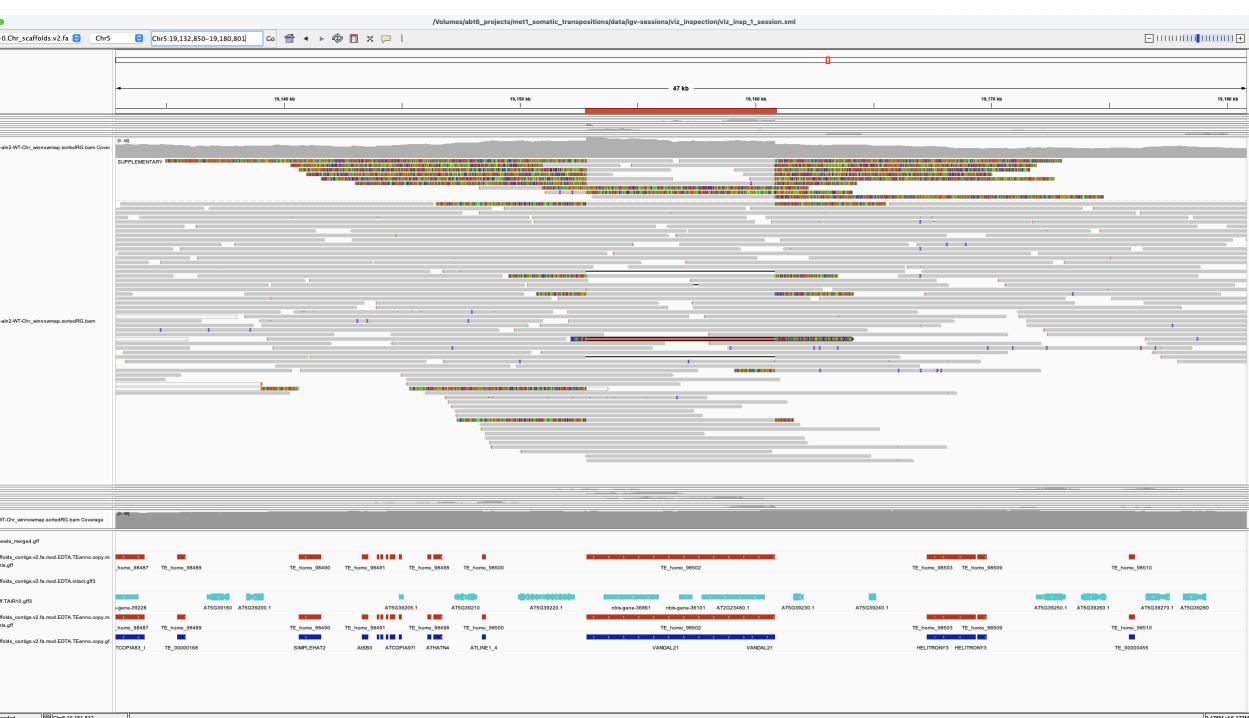
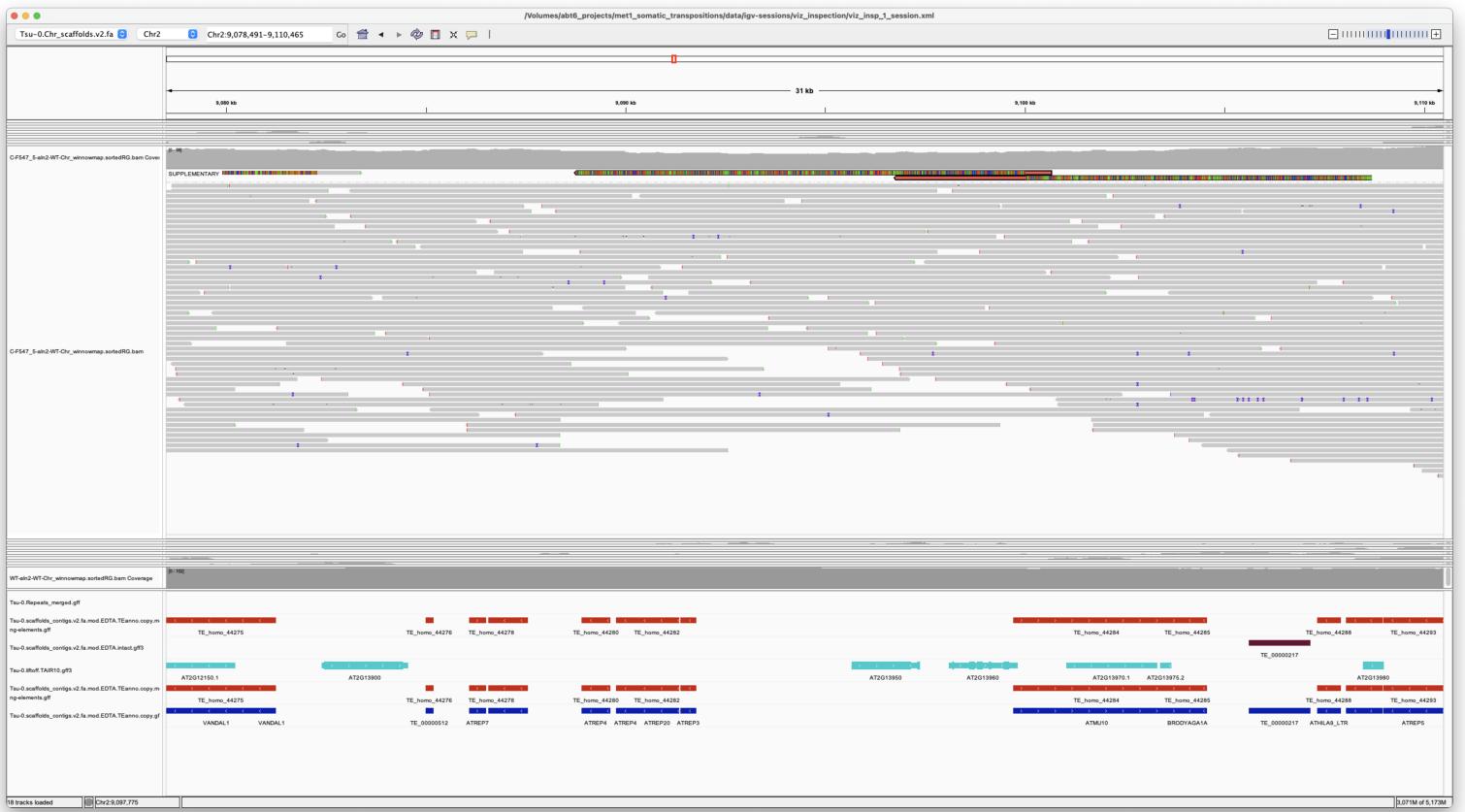


Most probably just a:
Rearrangement

unsupported

met1_05

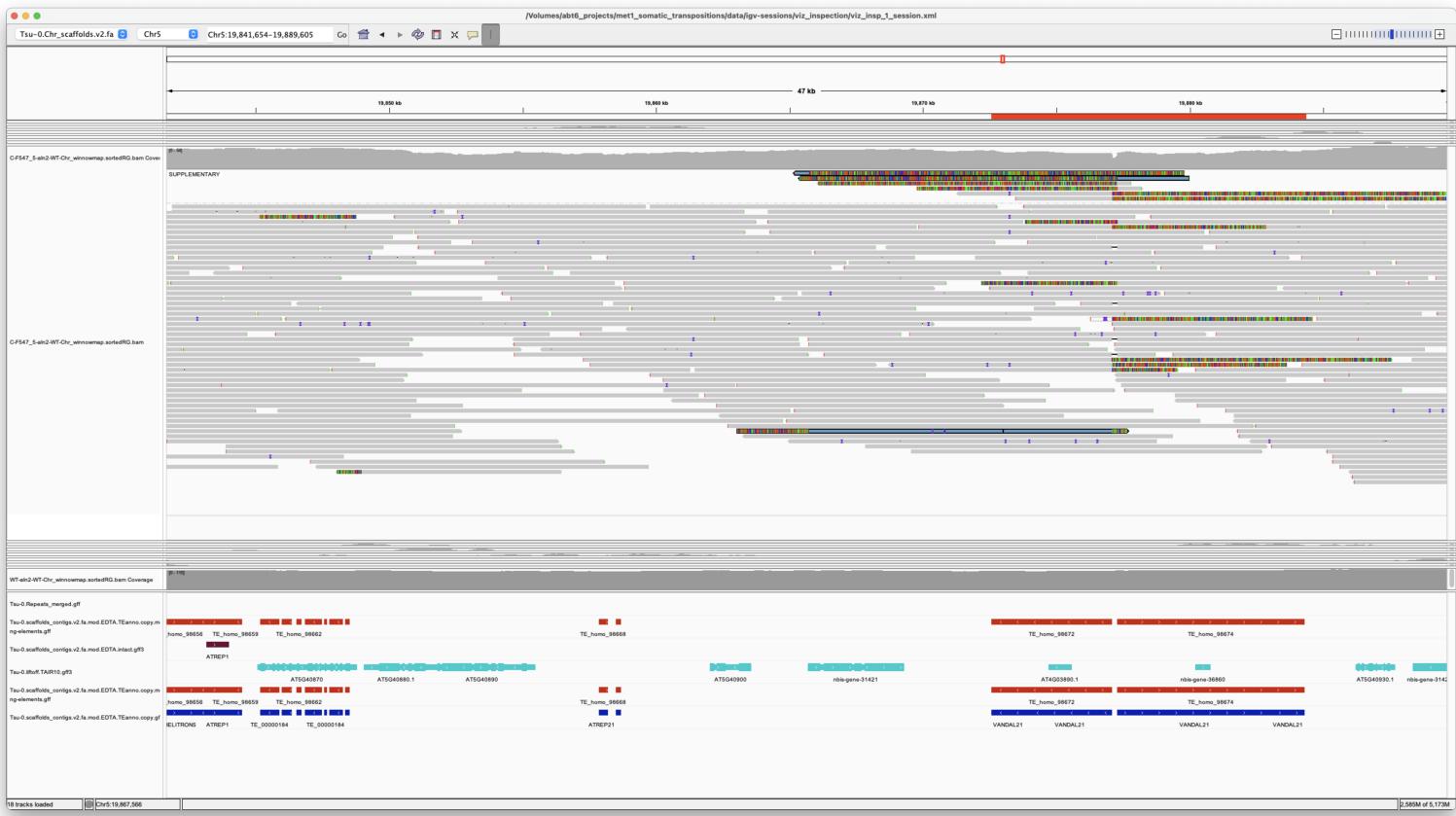
**DIFFICULT CASE TO AUTOMATE: m64079_221220_112036/49744130/ccs 0 660 Chr2 9100020 9100681 11914 - ATMU10
m64079_221220_112036/49744130/ccs 653 8652 Chr5 19152825 19160827 11914 + VANDAL21
m64079_221220_112036/49744130/ccs 8651 11914 Chr2 9096771 9100037 11914 - .**



Central
TSD

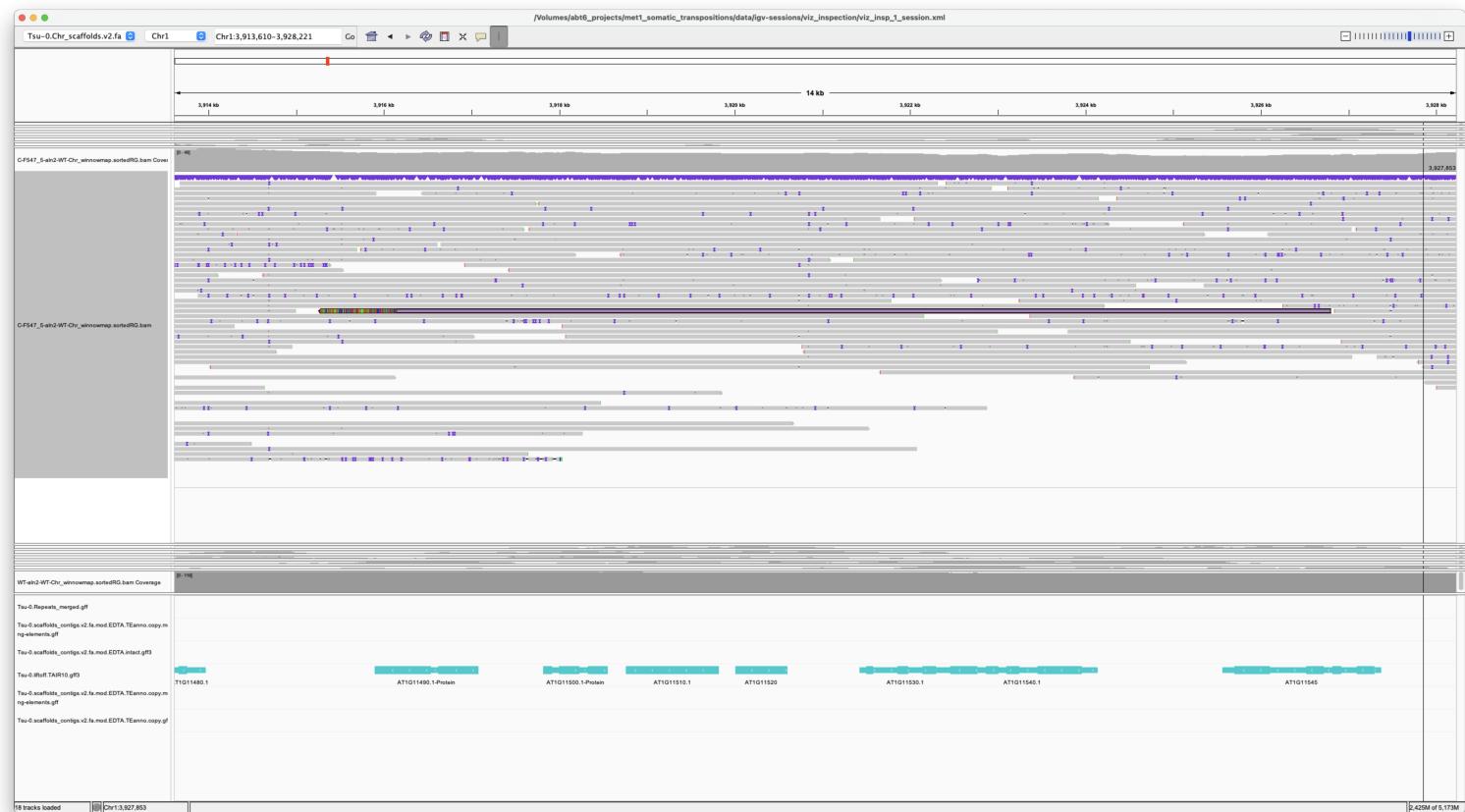
Confirmed

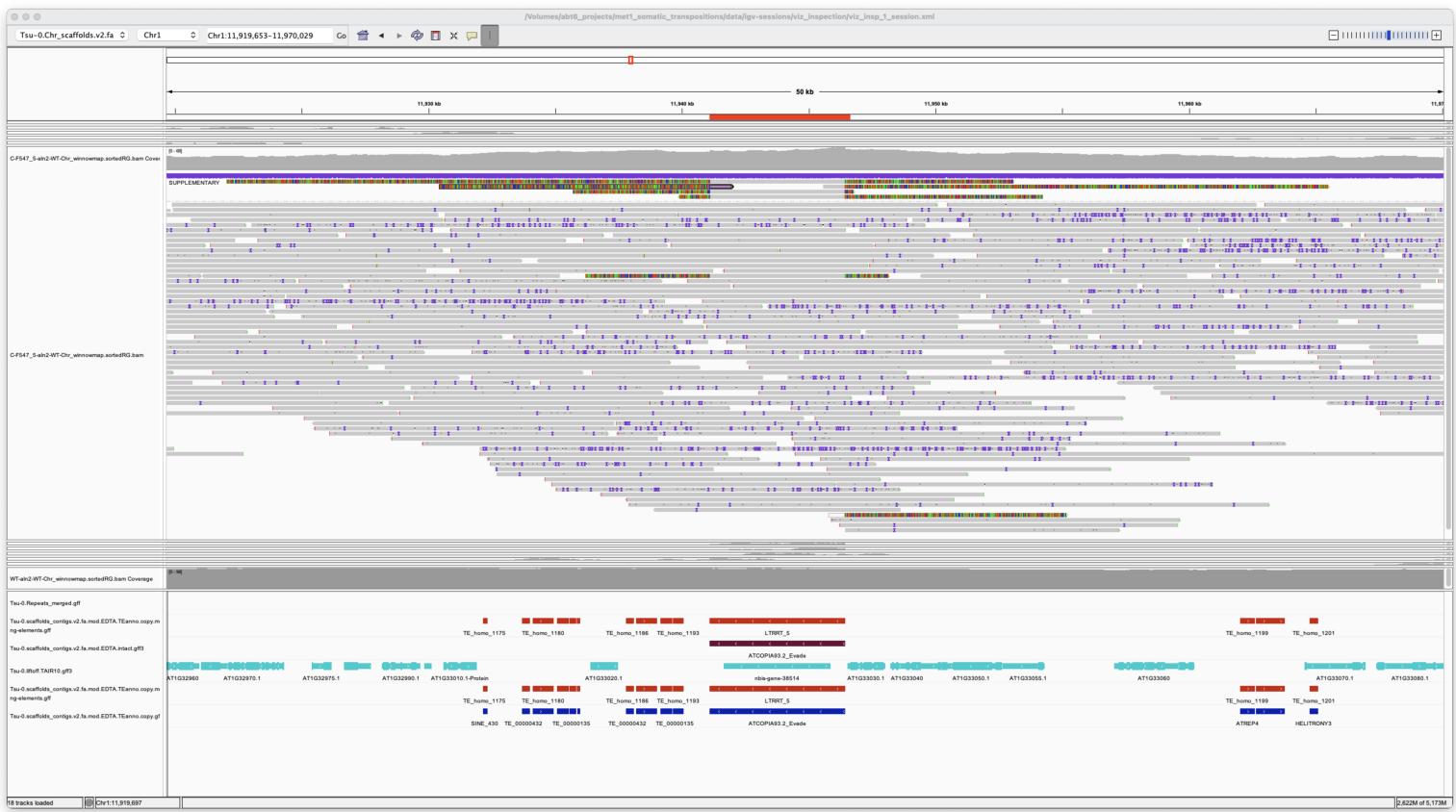
**DIFFICULT CASE TO AUTOMATE: m64079_240212_113350/122815669/ccs 1 2694 Chr5 19877279 19879977 14584 -
VANDAL21 m64079_240212_113350/122815669/ccs 2694 14038 Chr5 19865736 19877095 14584 + .
m64079_240212_113350/122815669/ccs 14037 14583 Chr5 19865200 19865746 14584 - .**



Hypermutable region
Rearrangement
unsupported

Chr1 3916144 3916144 - 1 Chr1;11941106;11946436;ATCOPIA93_Evade.m64079_240212_113350/21496018/ccs met1_05





Partial

Confirmed

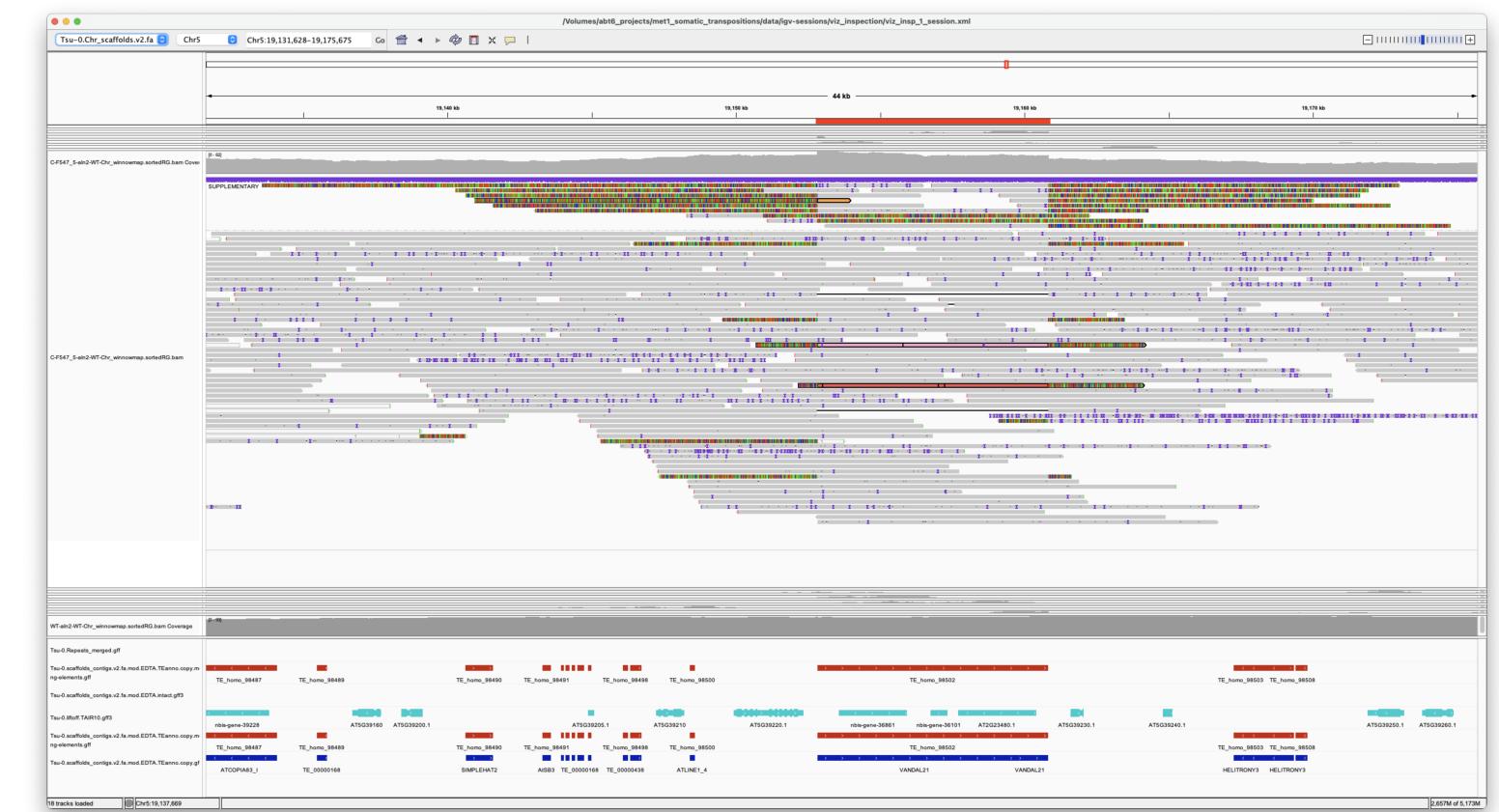
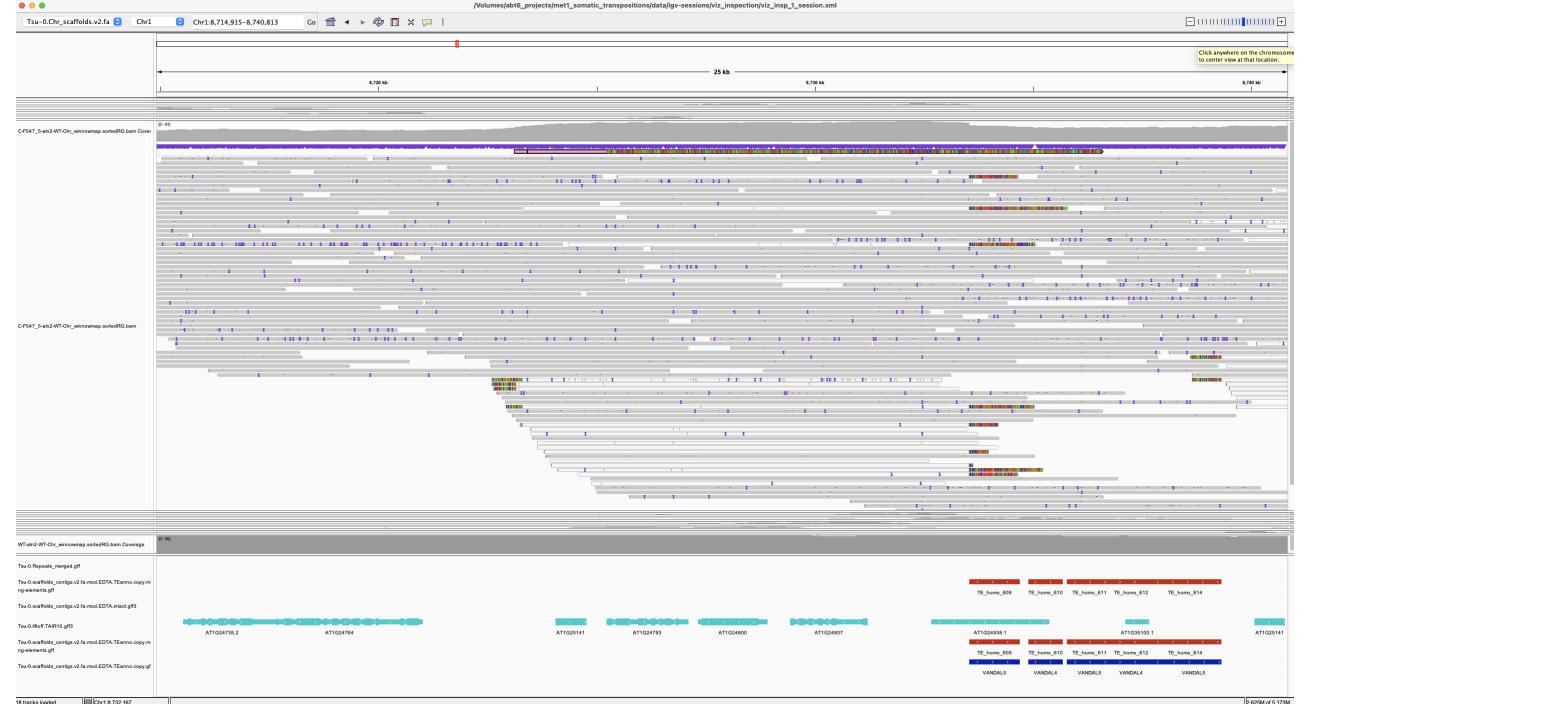
Chr1 6529799 6529799 - 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/19006919/ccs met1_05



Partial

Confirmed

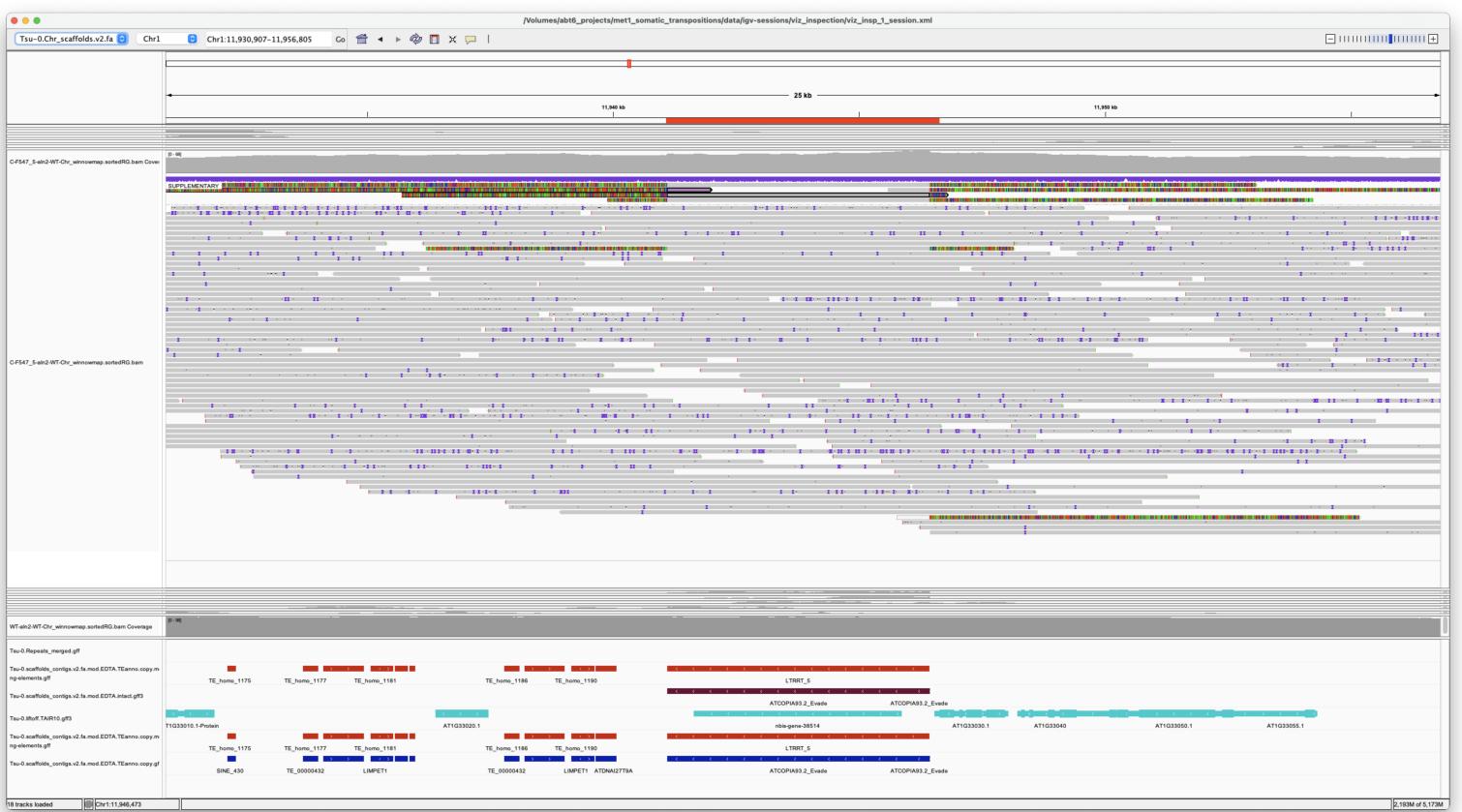
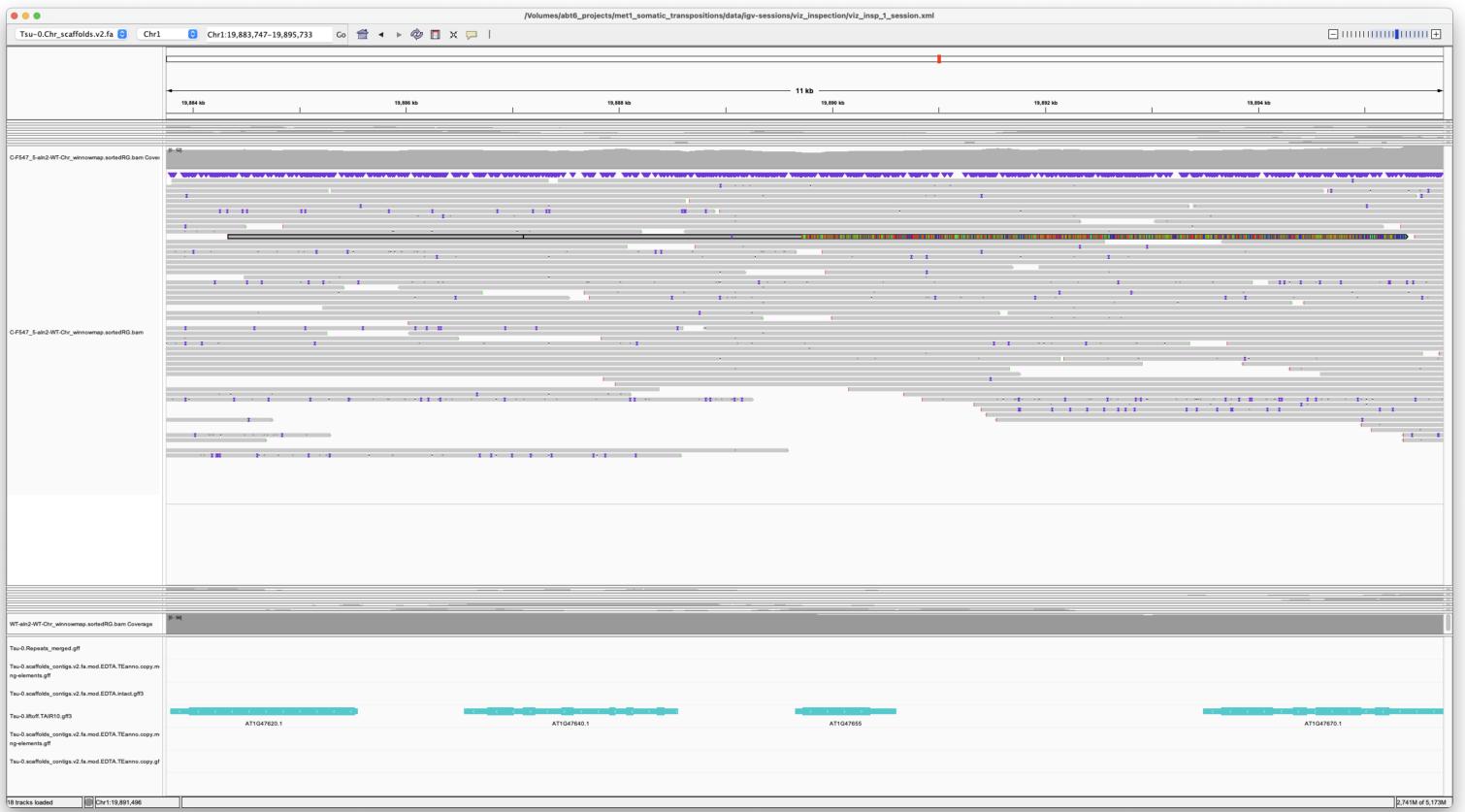
Chr1 8725235 8725235 + 1 Chr5:19152829;19160826;VANDAL21 m64079_240212_113350/126812806/ccs met1_05



Partial

Confirmed

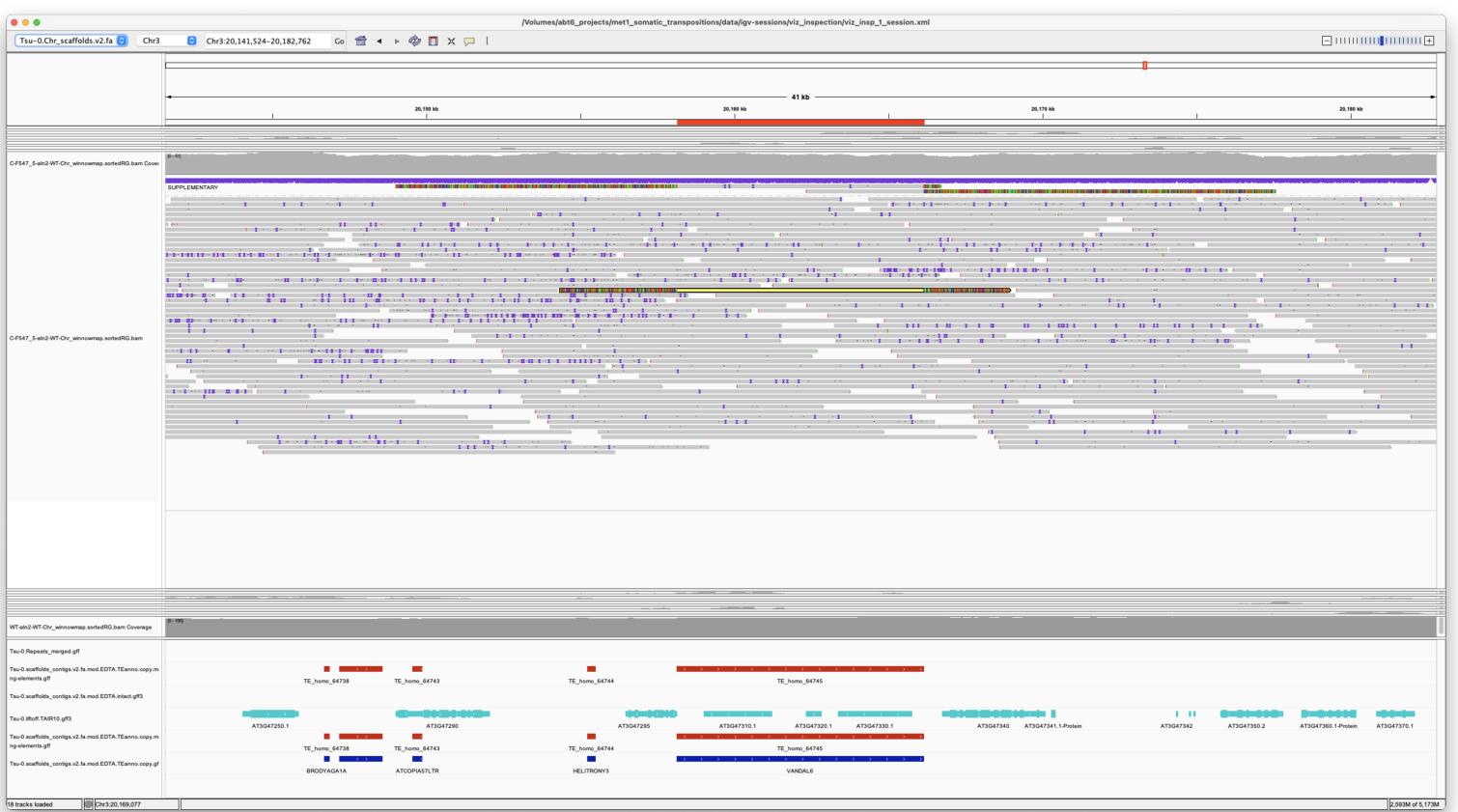
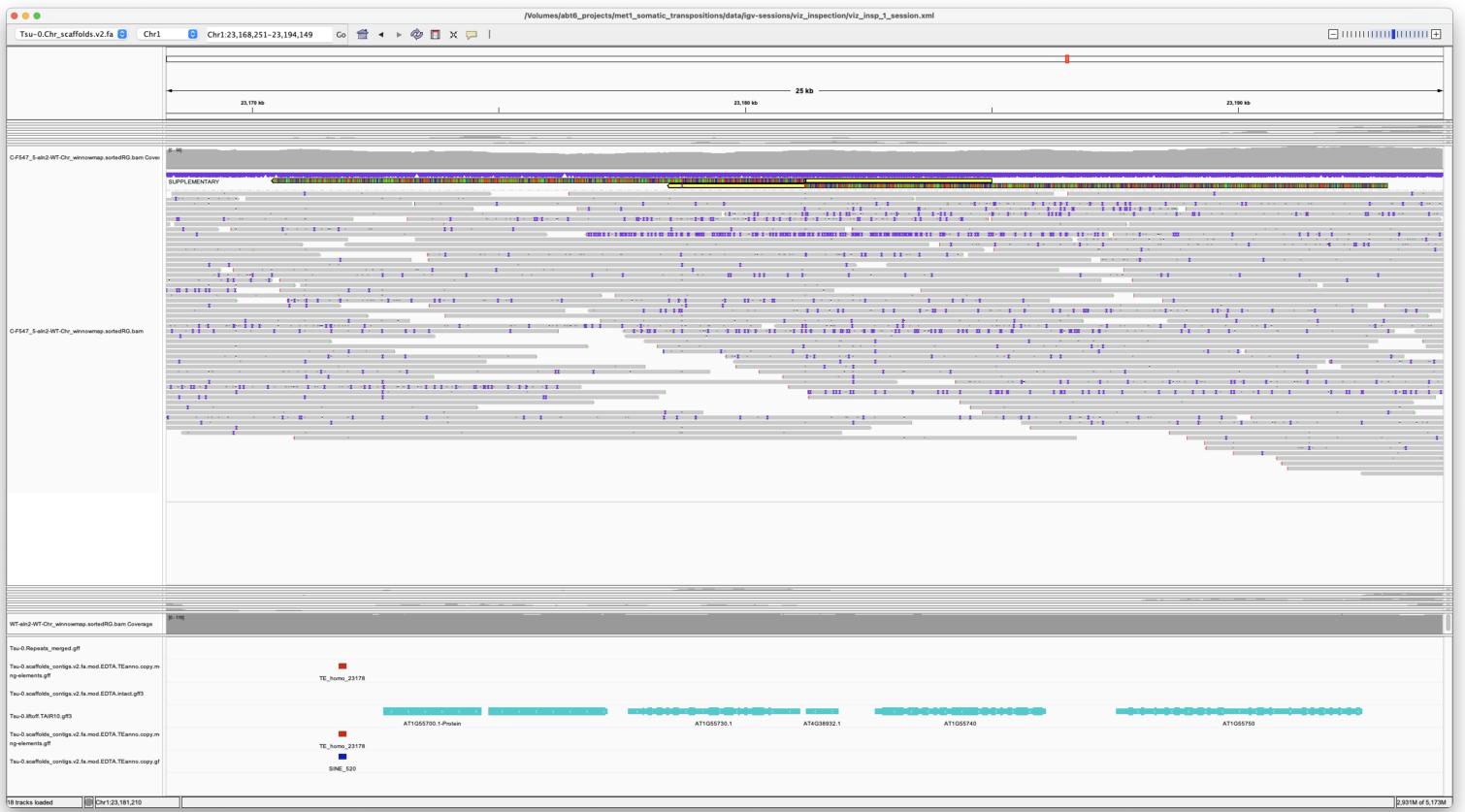
Chr1 19889718 19889718 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/166660366/ccs met_



Partial

Confirmed

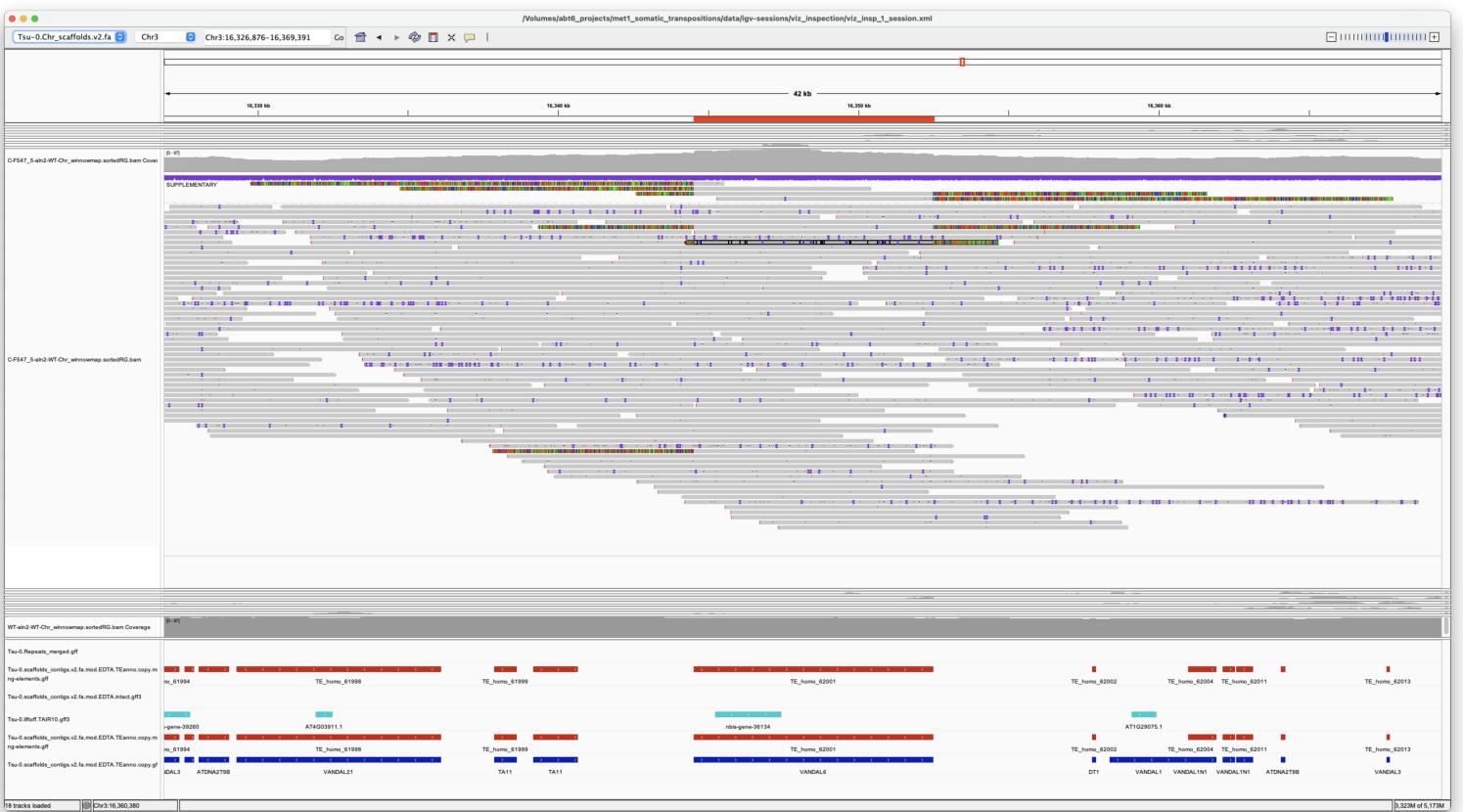
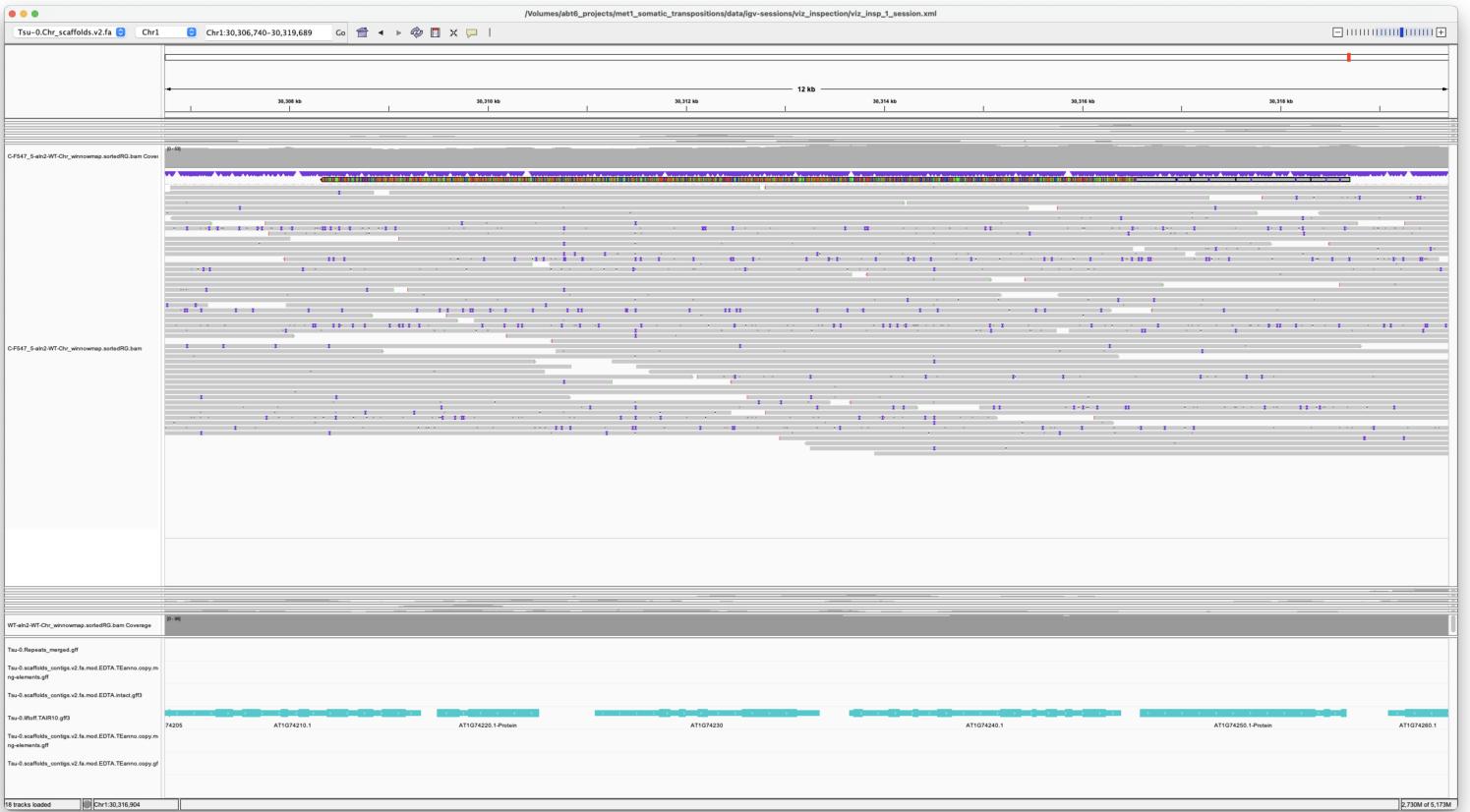
Chr1 23181200 23181200 + 1 Chr3;20158137;20166150;VANDAL6 m64079_240212_113350/171574467/ccs met1_05



Central
TSD

Confirmed

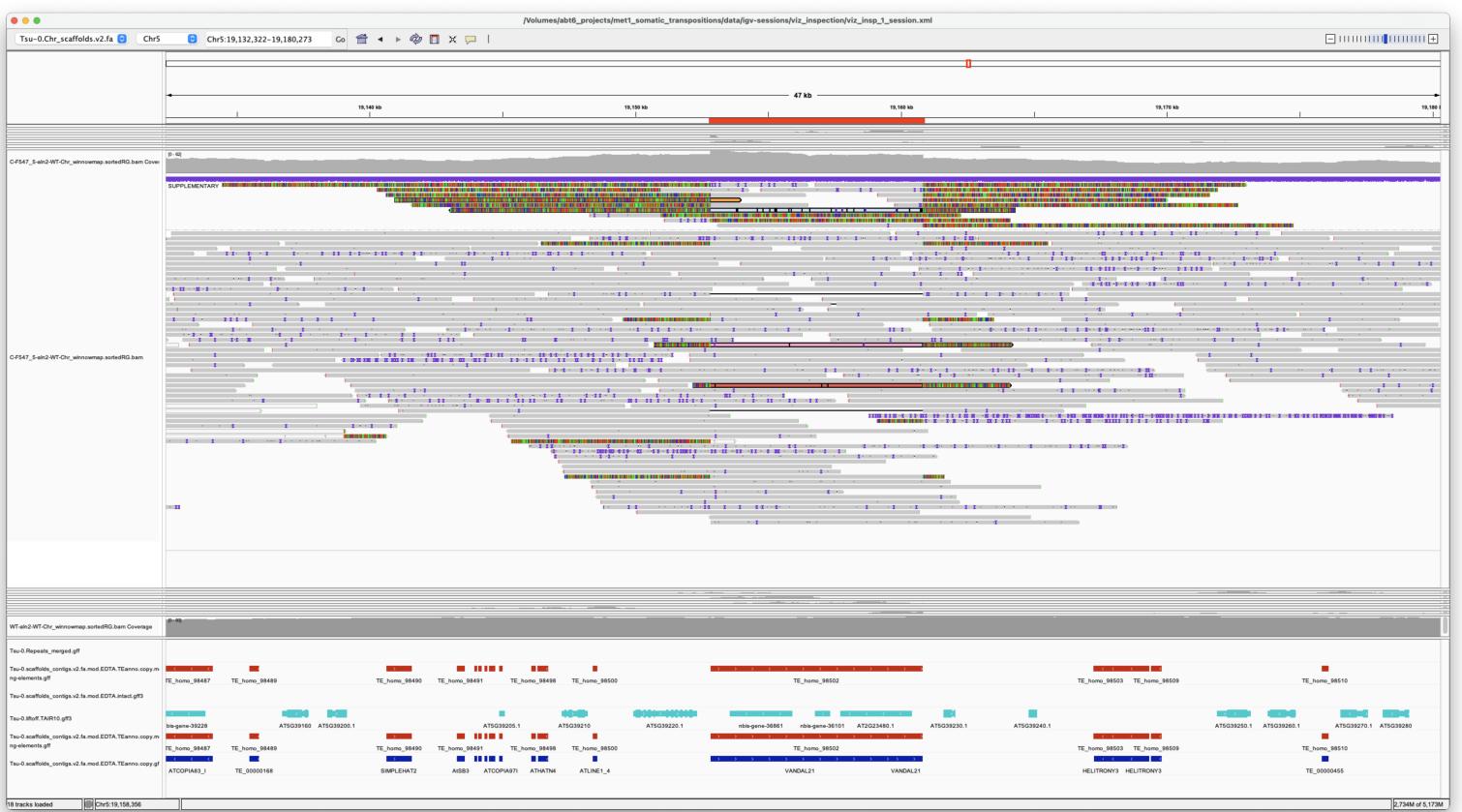
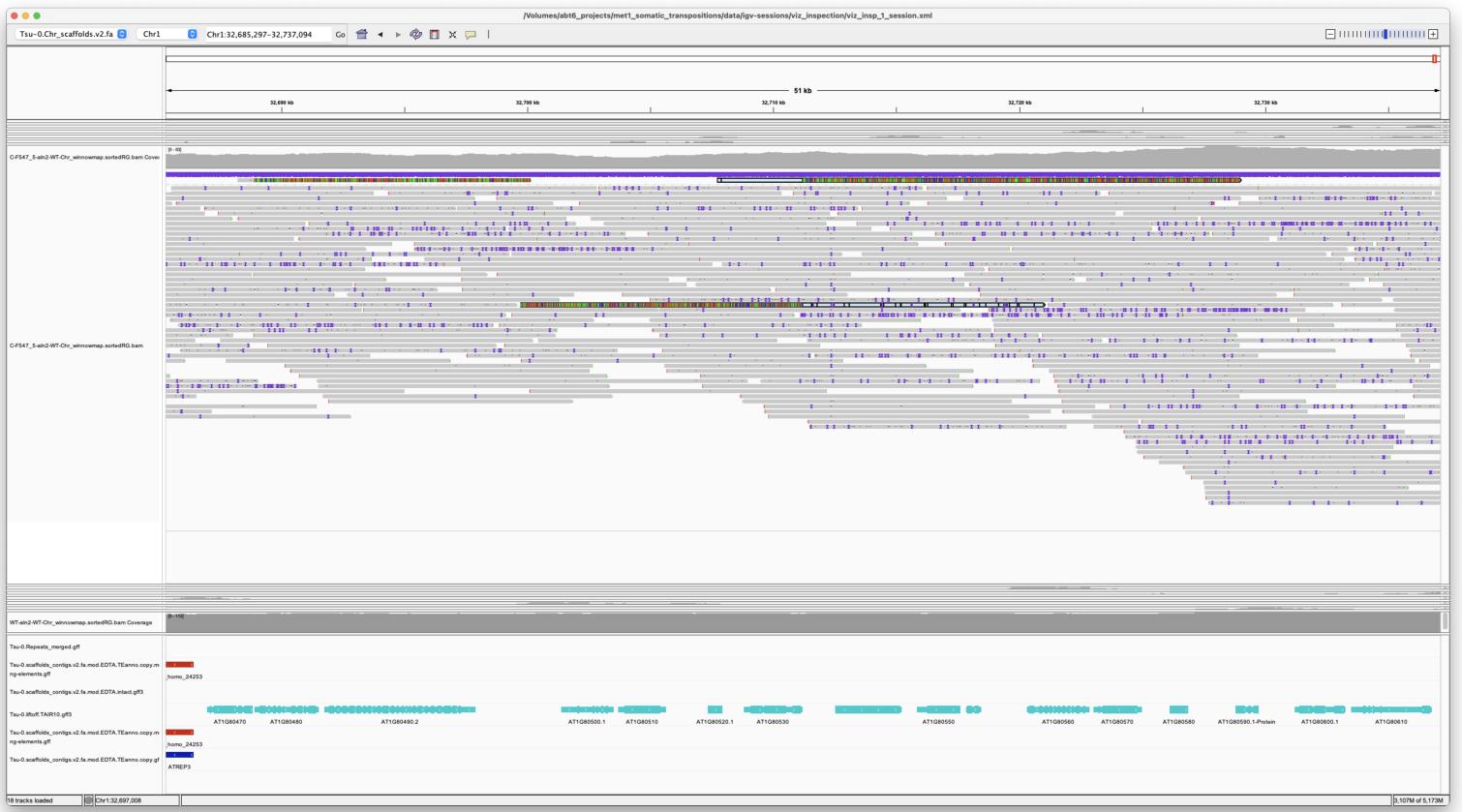
Chr1 30316533 30316533 + 1 Chr3:16344522;16352497;VANDAL6 m64079_240212_113350/108331881/ccs met1_05



Partial

Confirmed

Chr1 32711196 32711196 + 1 Chr5;19152829;19160826;VANDAL21 m64079_240212_113350/5768130/ccs met1_05

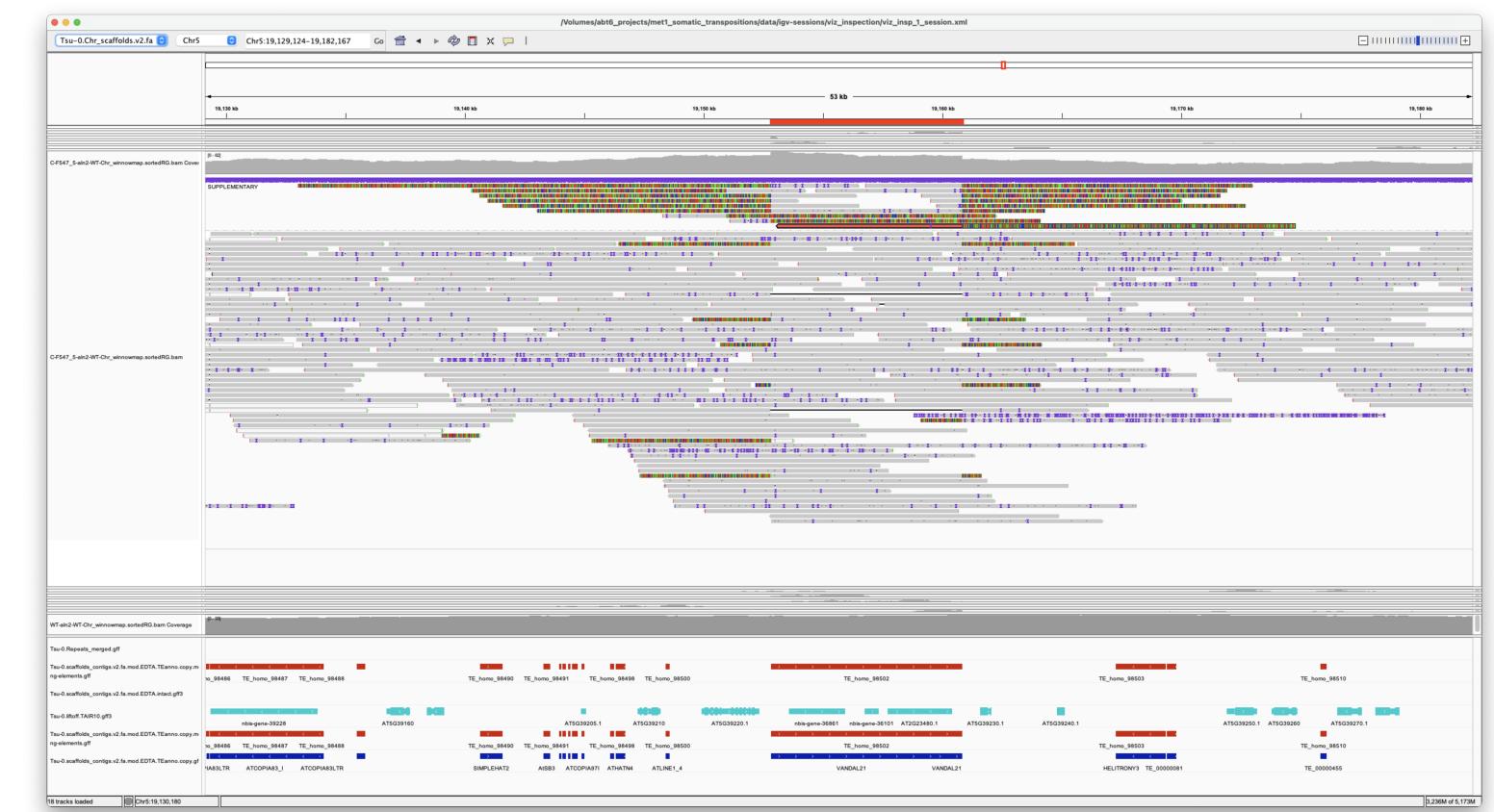
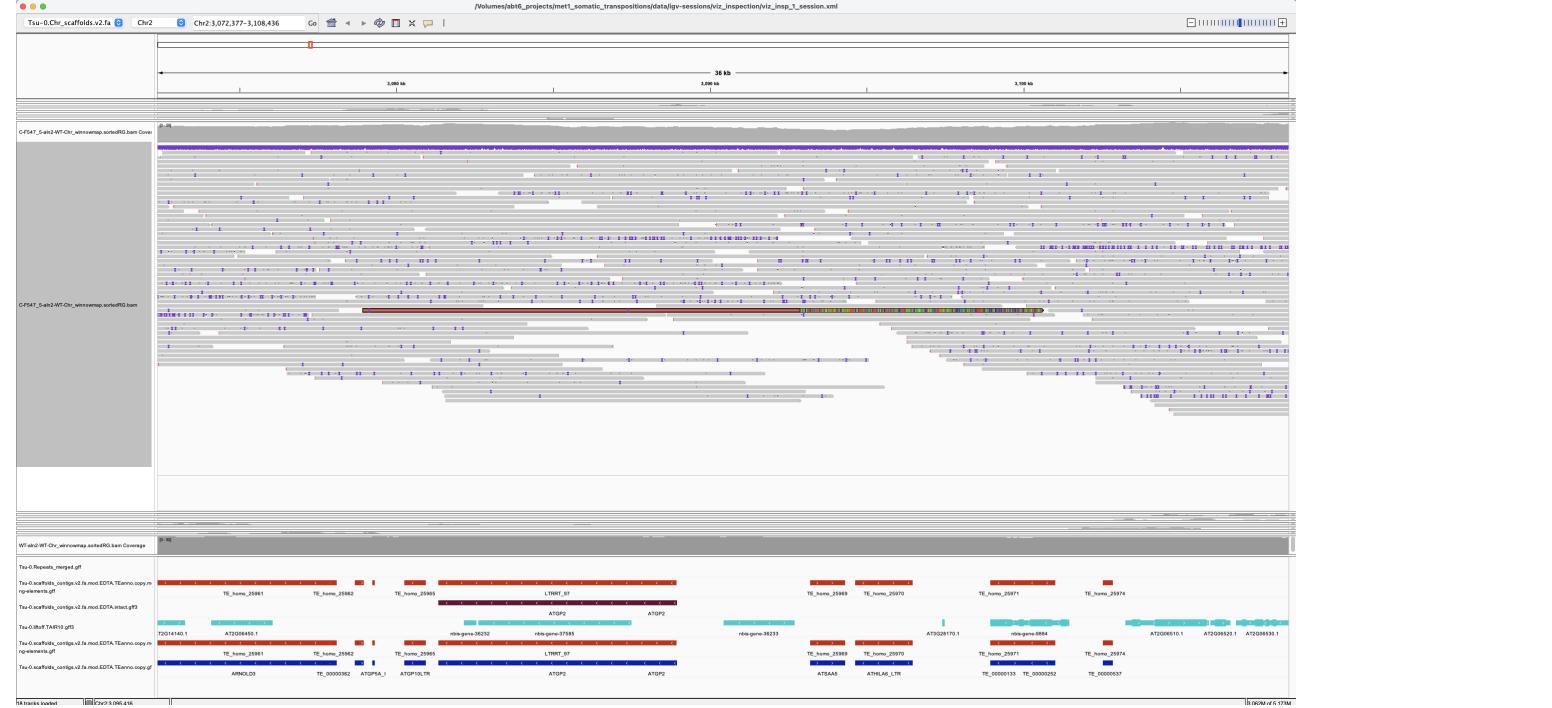


Central

TSD

Confirmed

Chr2 3092879 3092879 - 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036/95683027/ccs met1_05



Partial

Confirmed

Chr2 7935840 7935840 + 1 Chr1:11941106:11946436:ATCOPIA93_Evade m64079_240212_113350/19138774/ccs met1_05