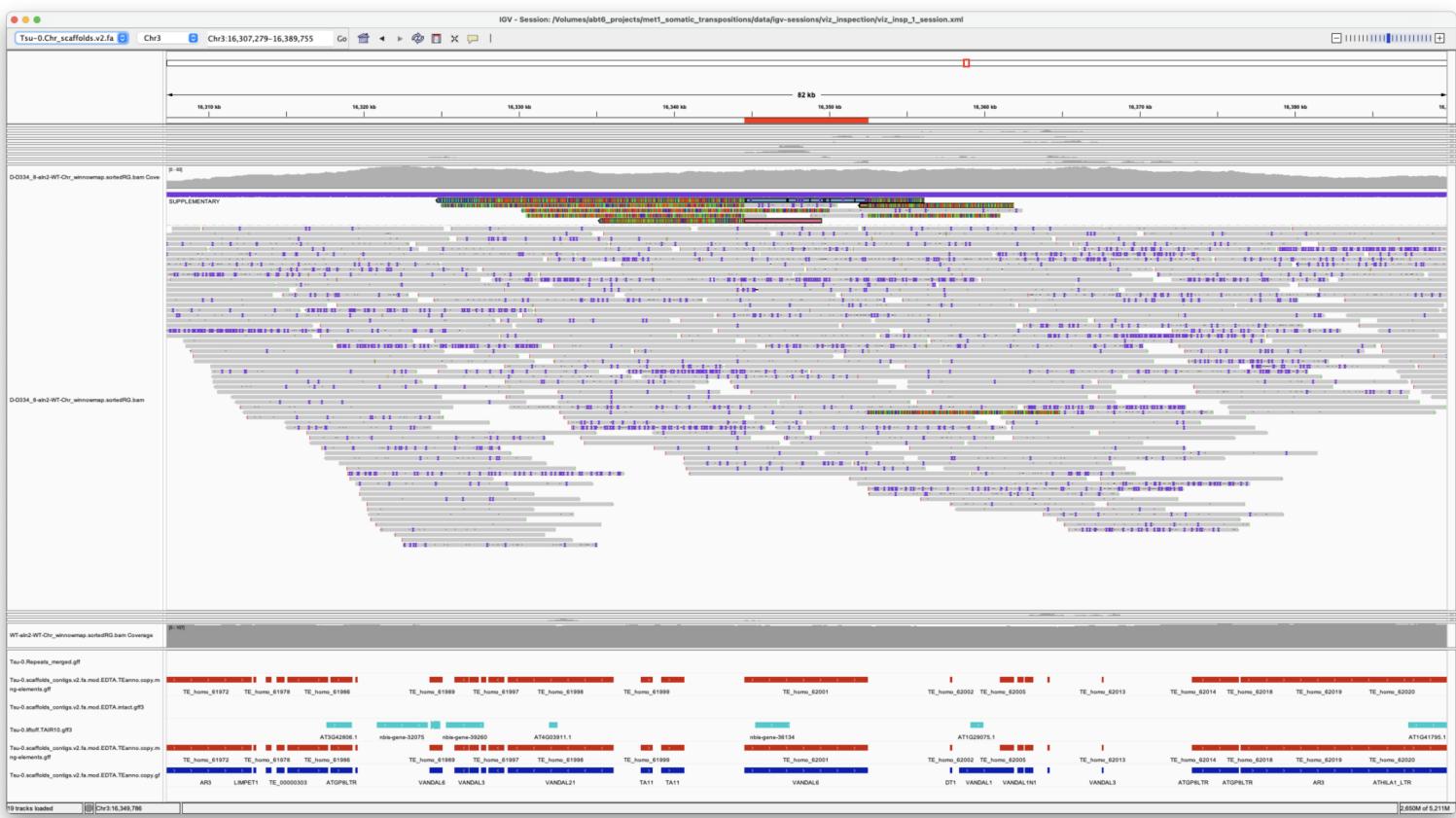
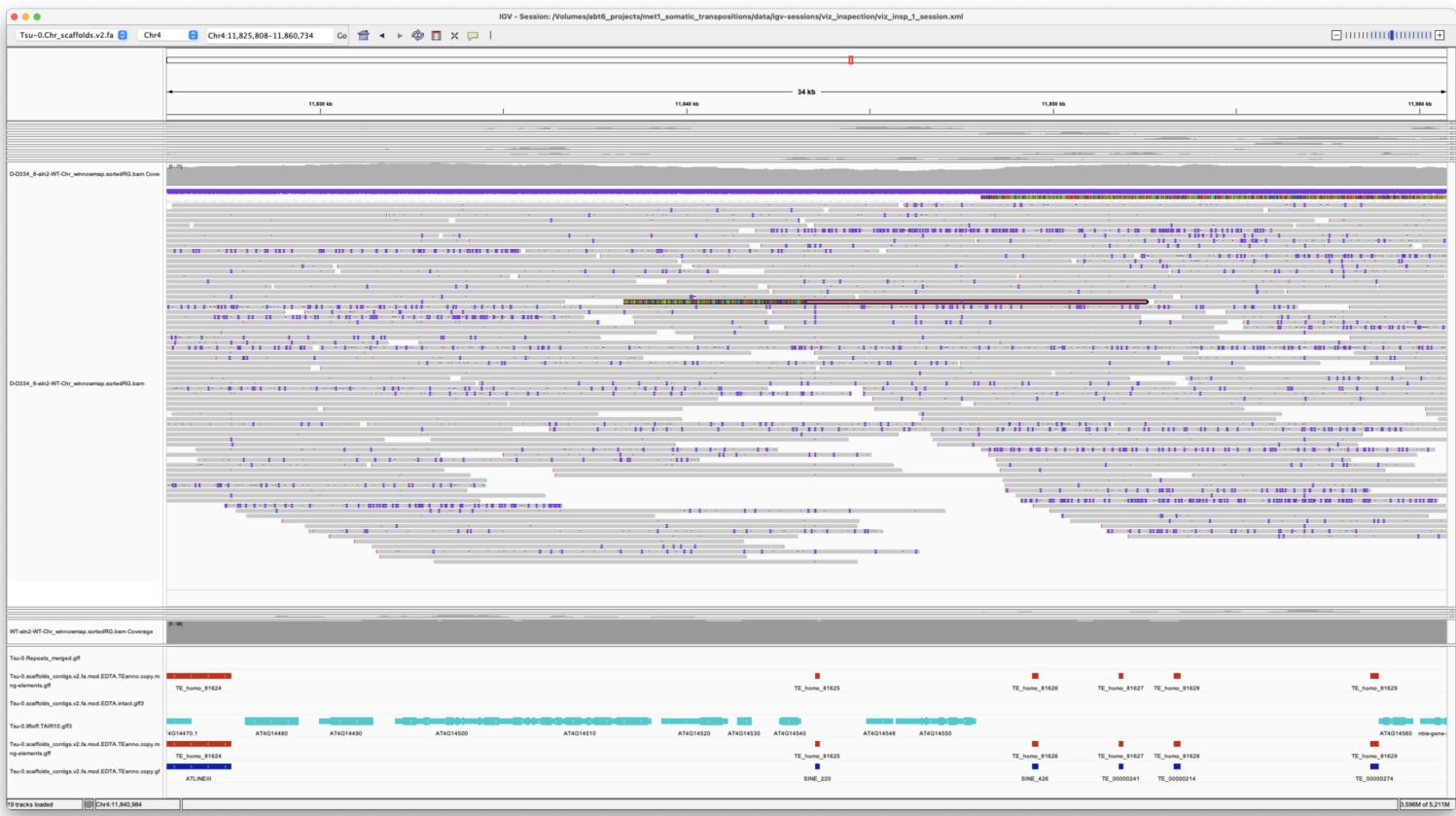


Central
TSD

Confirmed

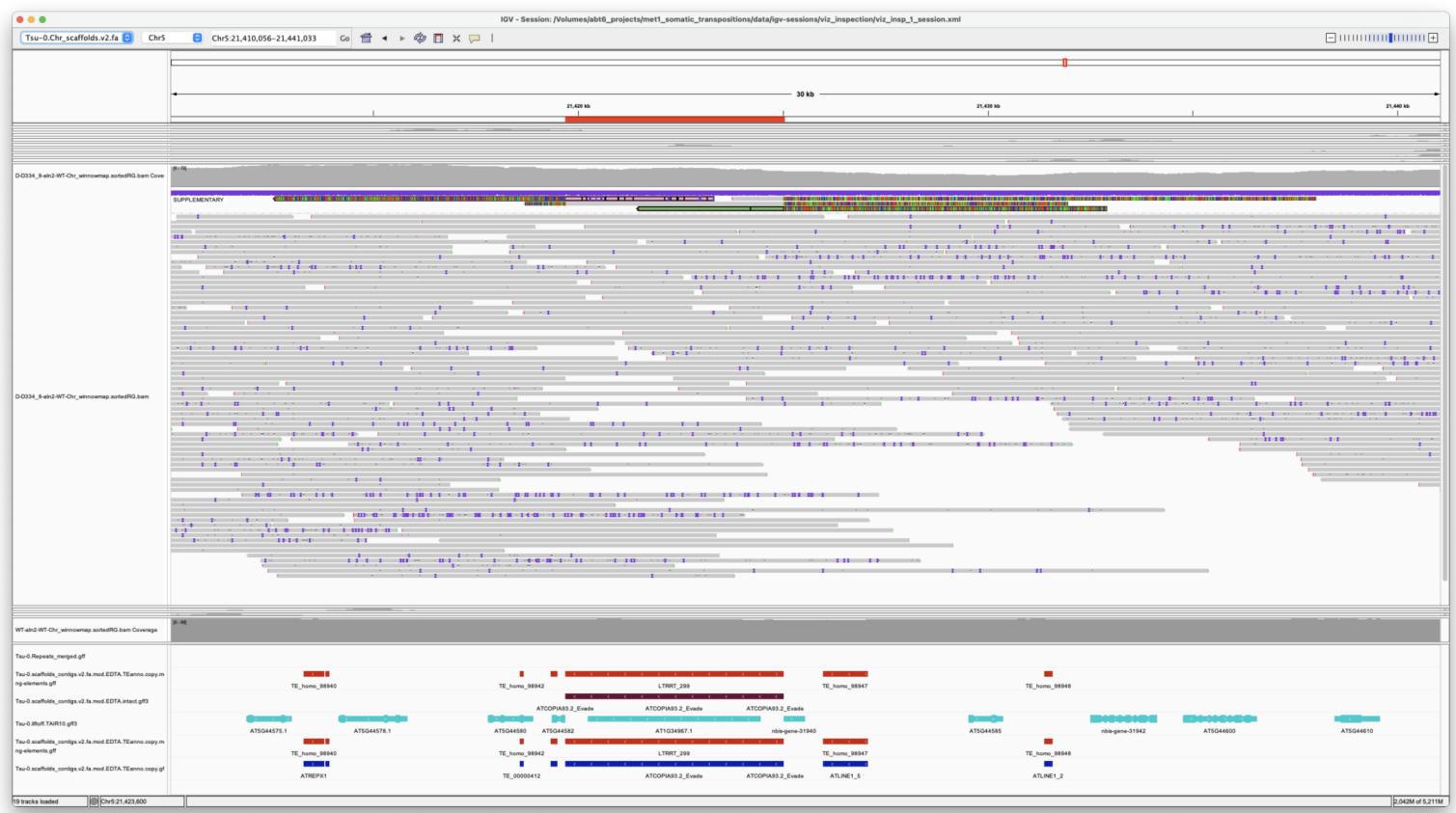
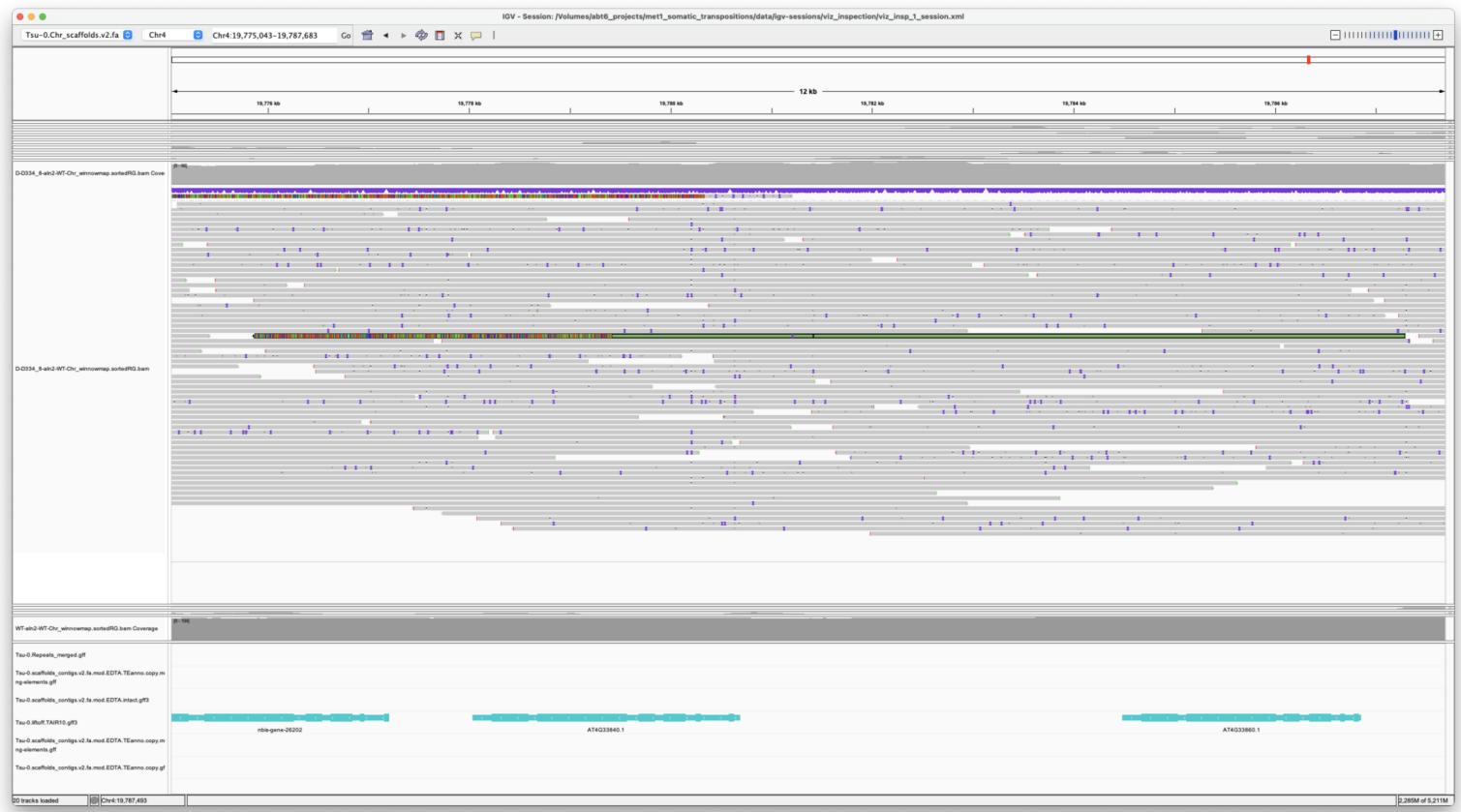
Chr4 11843272 11843272 - 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/54855010/ccs met1_08



Partial

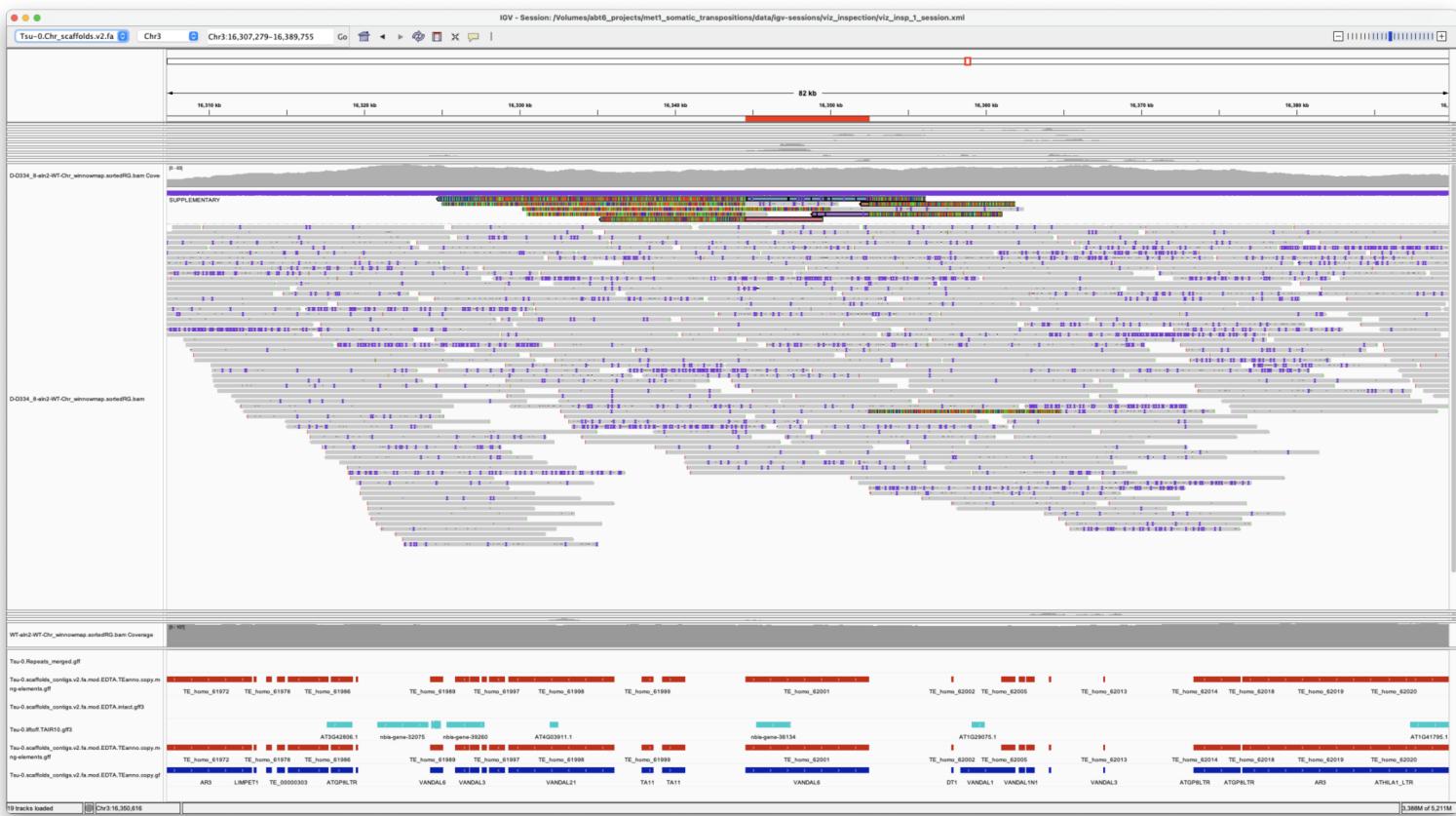
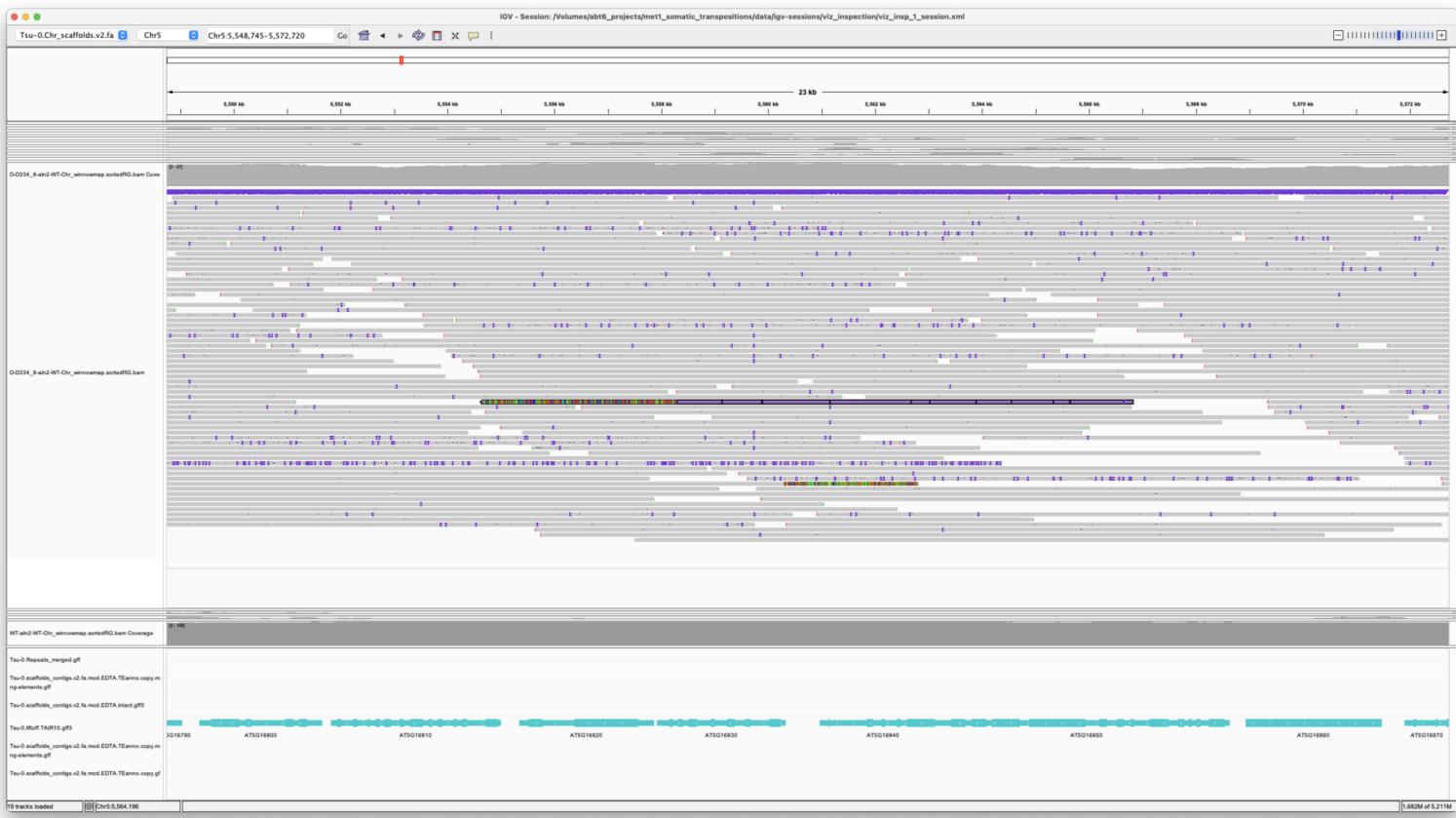
Confirmed

Chr4 19779417 19779417 + 1 Chr5:21419693:21425022:ATCOPIA93_Evade m64079_221220_112036/39651024/ccs met1_08



Partial

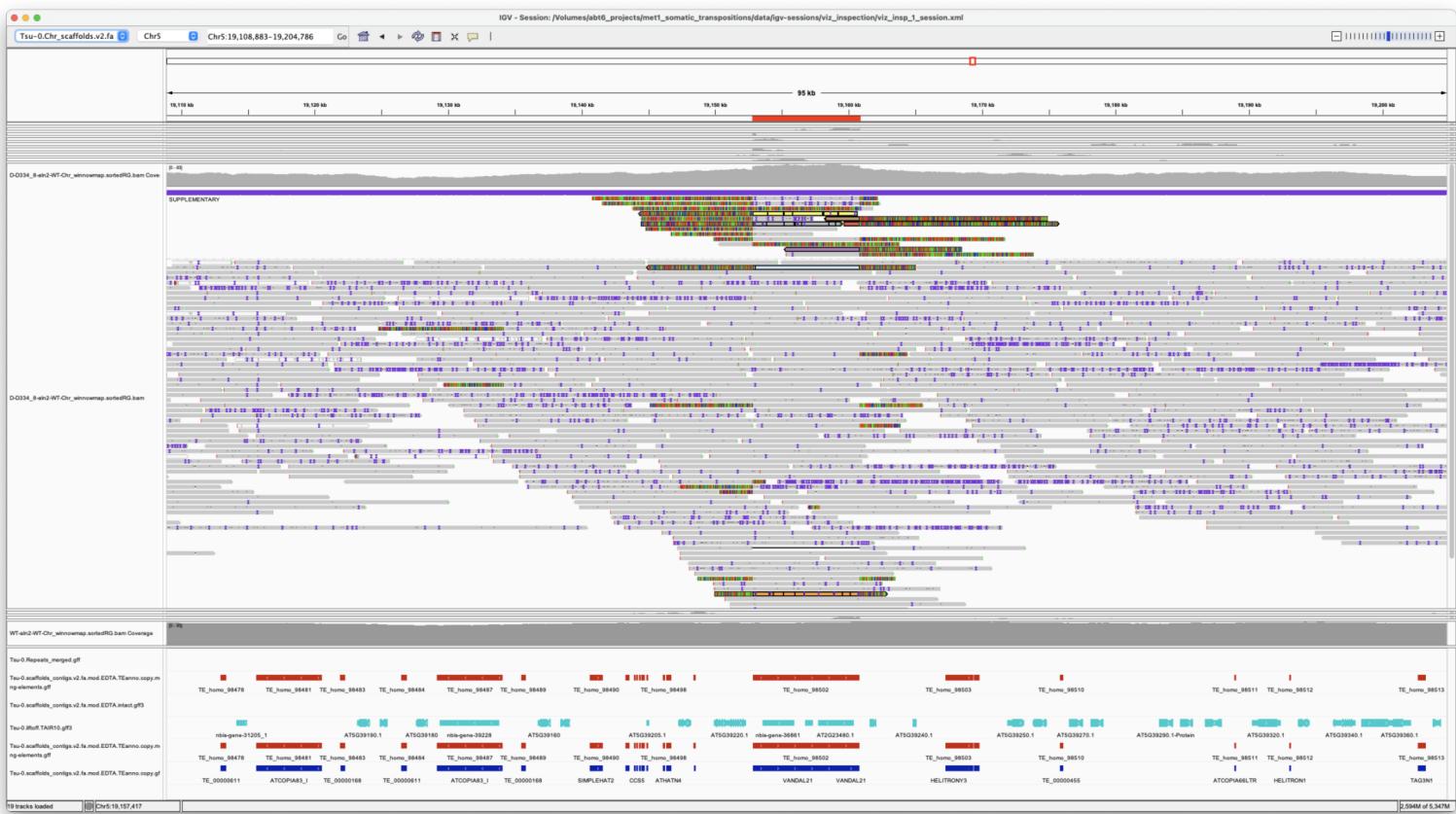
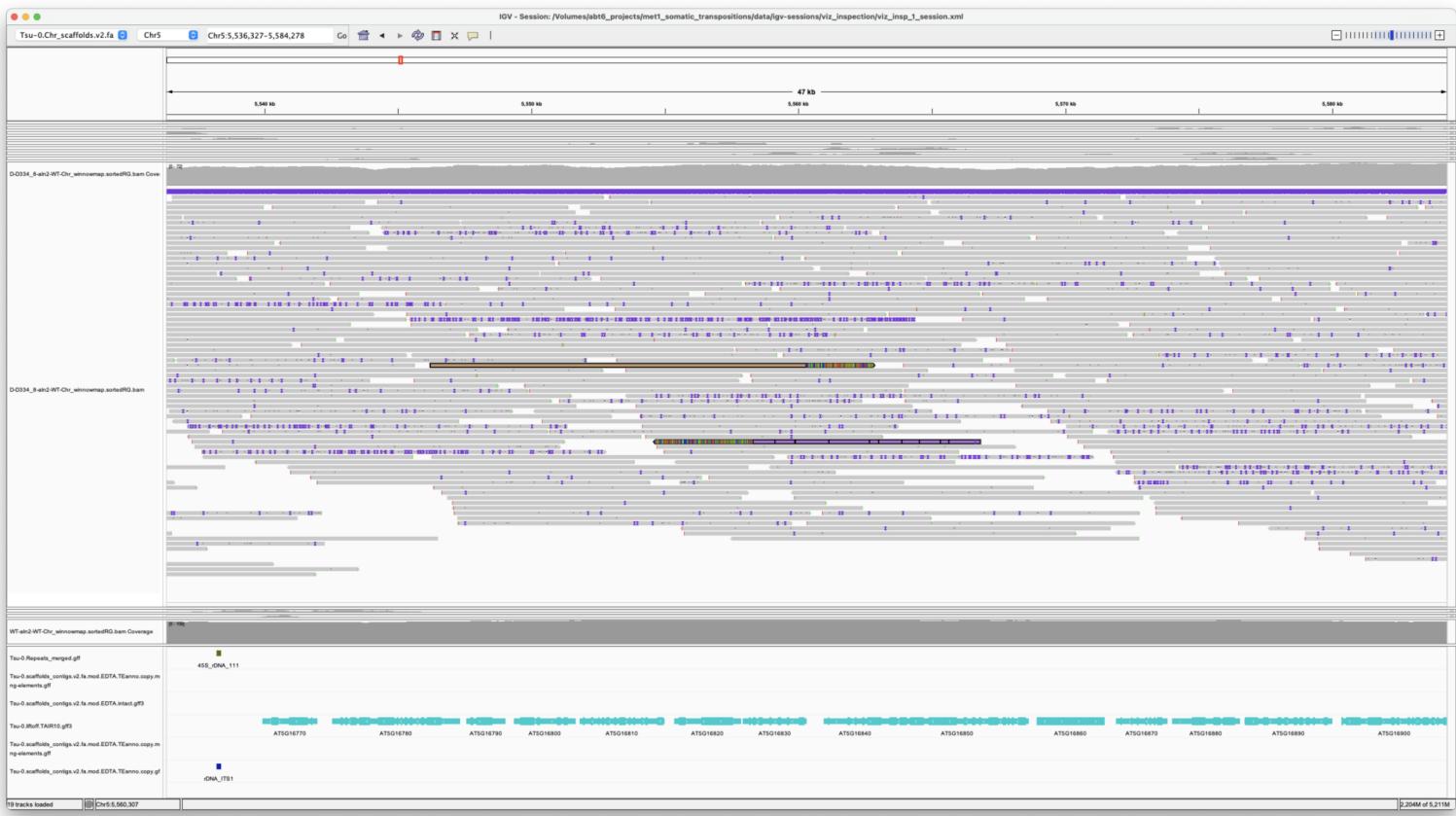
Confirmed



Partial

Confirmed

Chr5 5560304 5560304 - 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/152700670/ccs met1_08

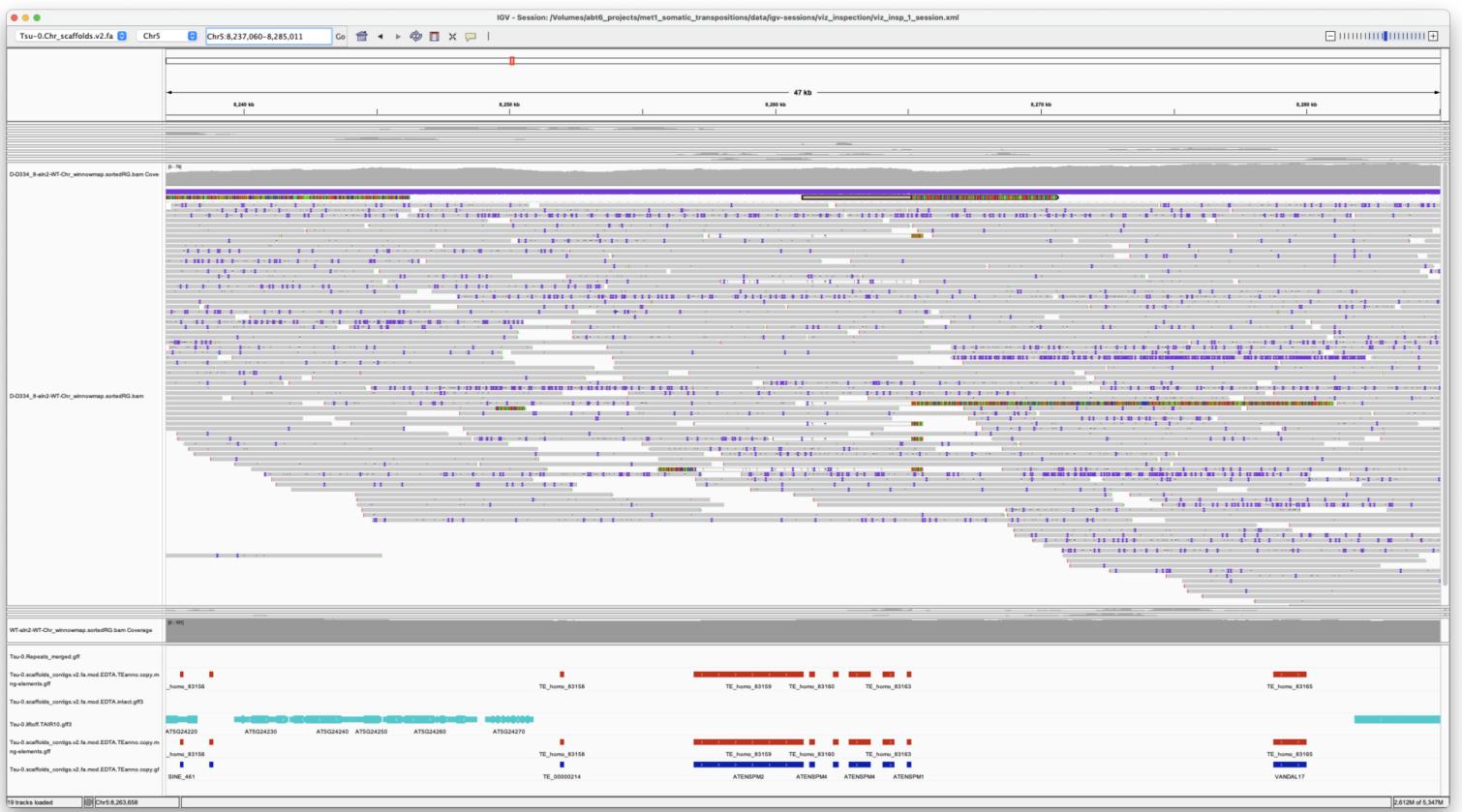
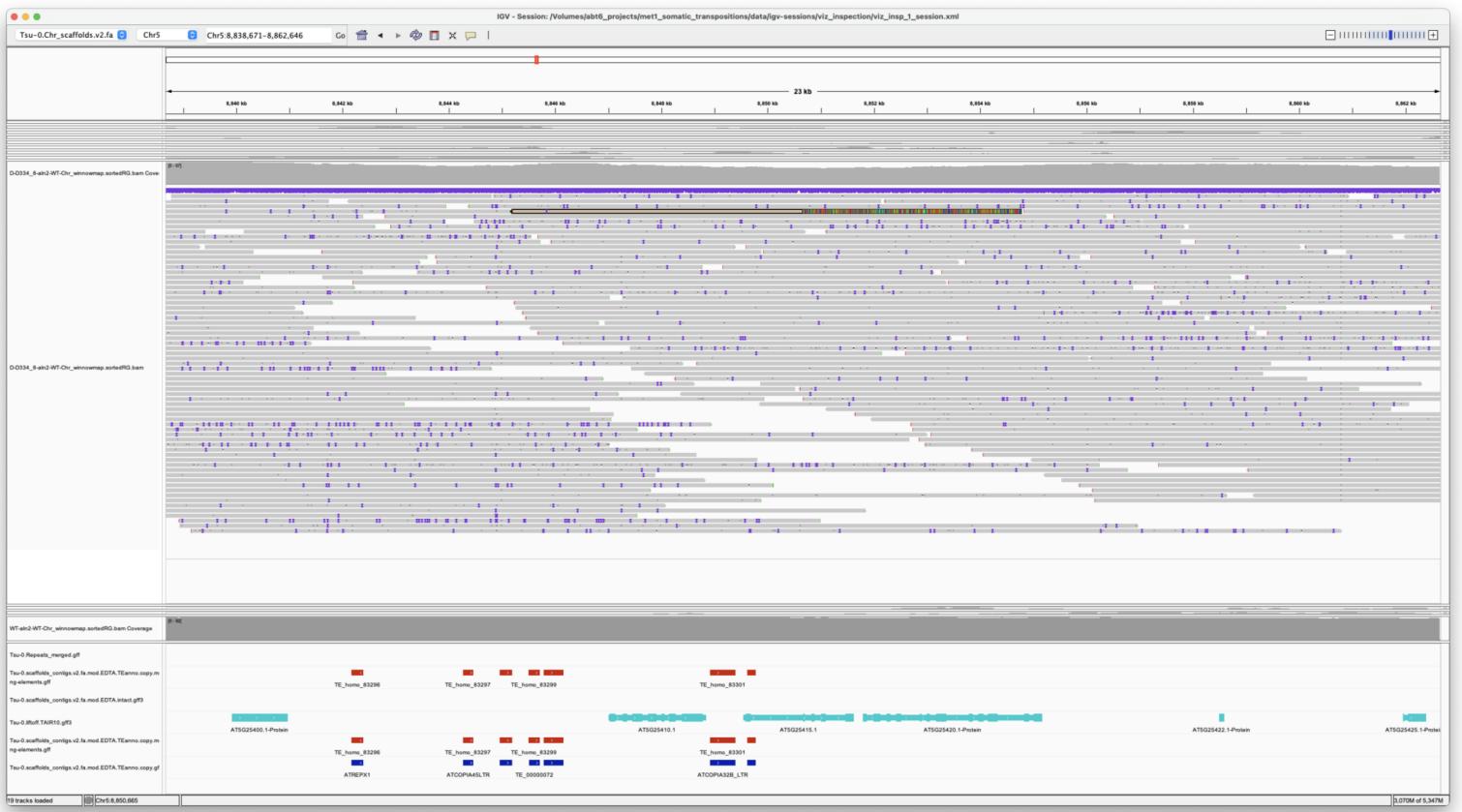


Fell Very close to a insertion site of a VANDAL6

Partial

Confirmed

Chr5 8850660 8850660 - 1 Chr5:8256939:8265133;CAC2A m64079_221220_112036/106891773/ccs met1_08

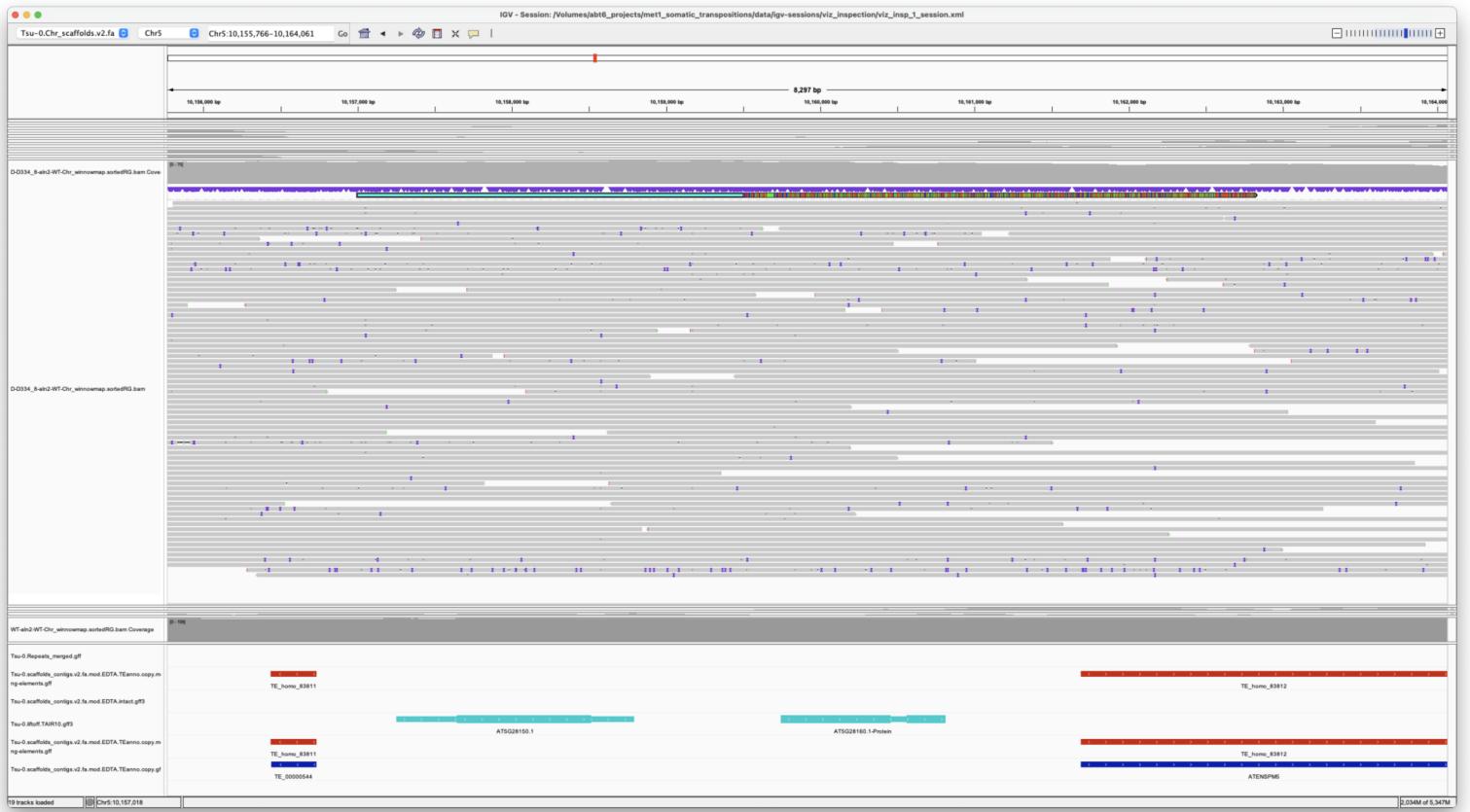


More SA reads mapping, probably because these elements are very similar

Partial

Confirmed

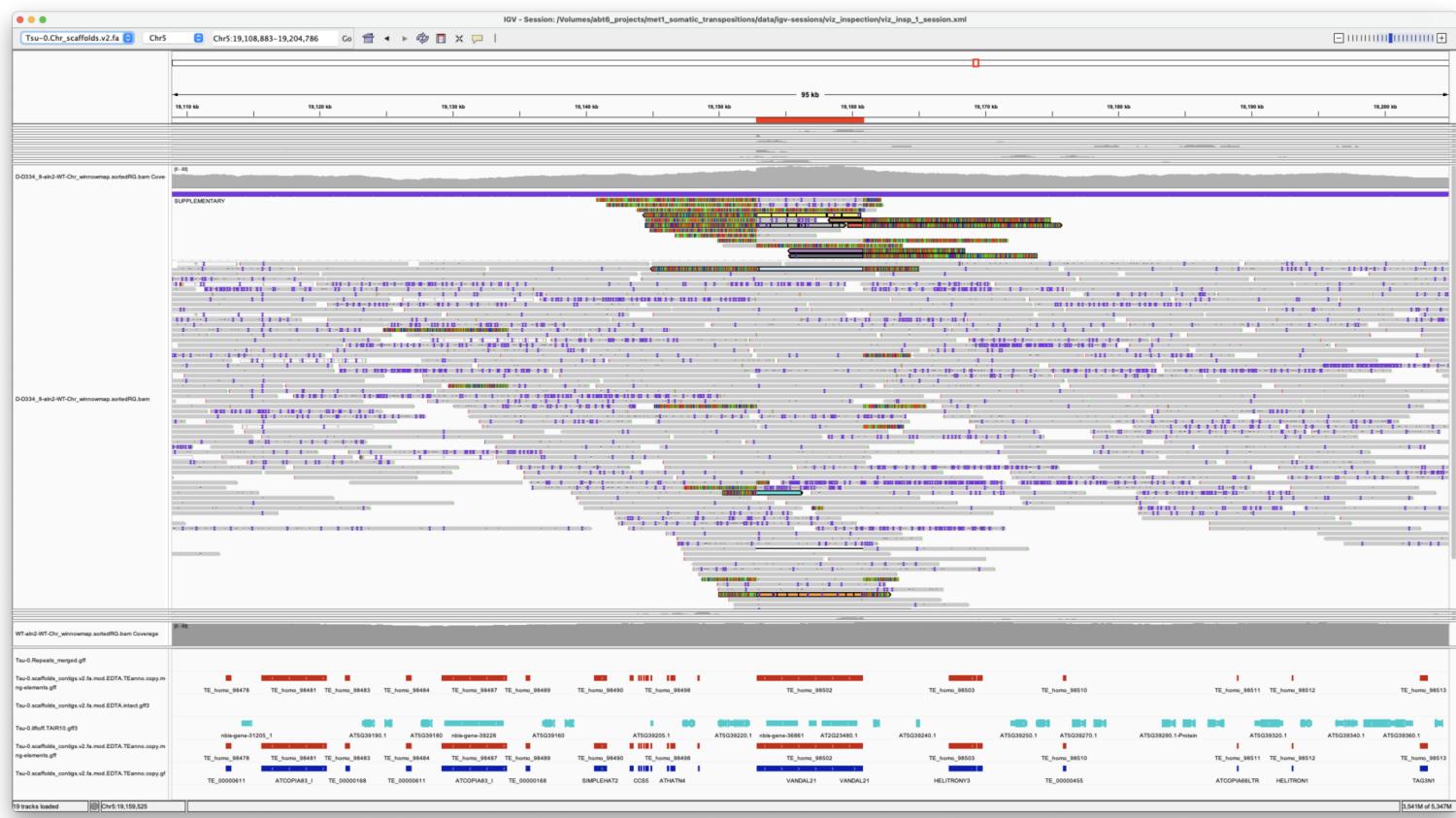
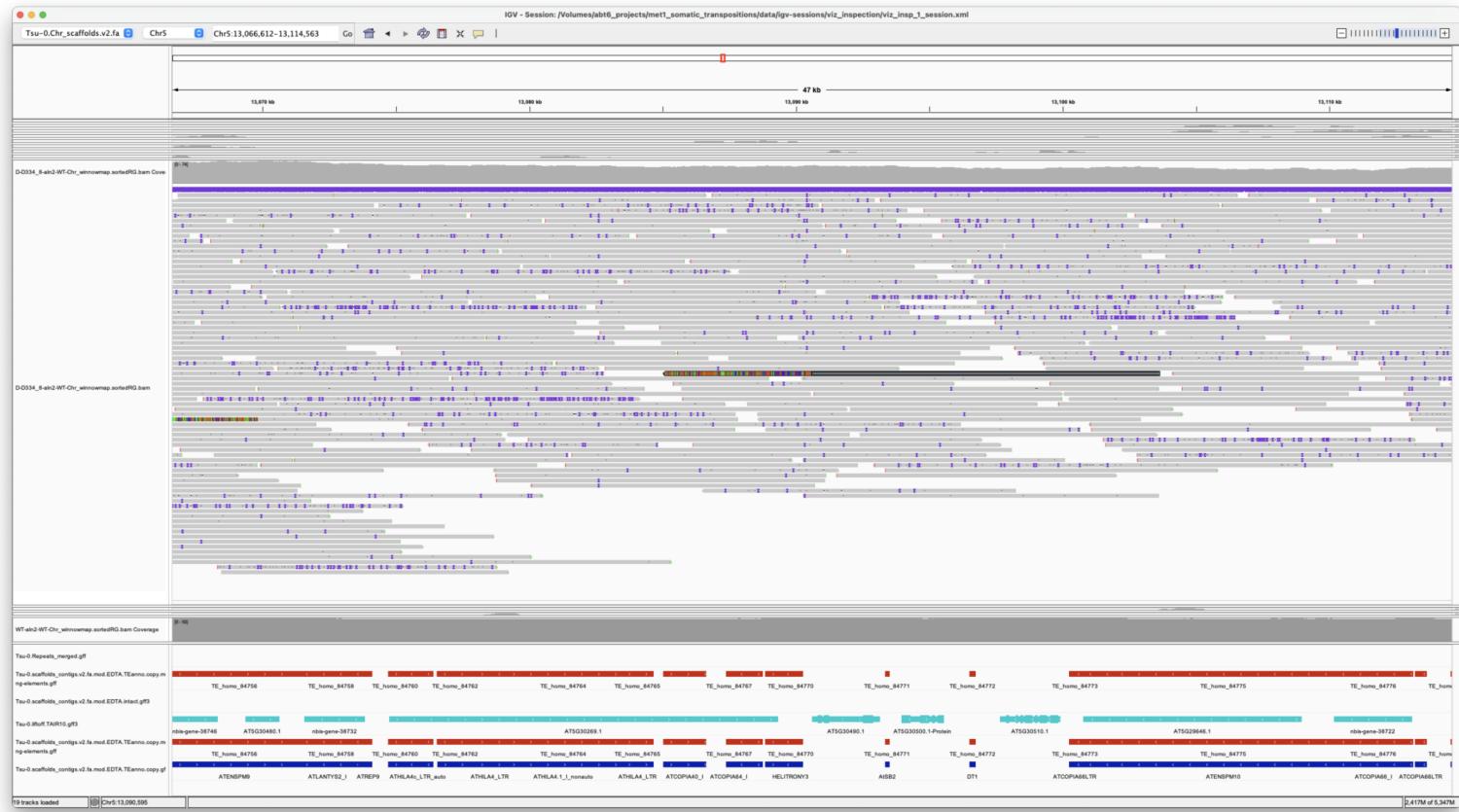
Chr5 10159502 10159502 + 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036/164495591/ccs met1_08



Partial

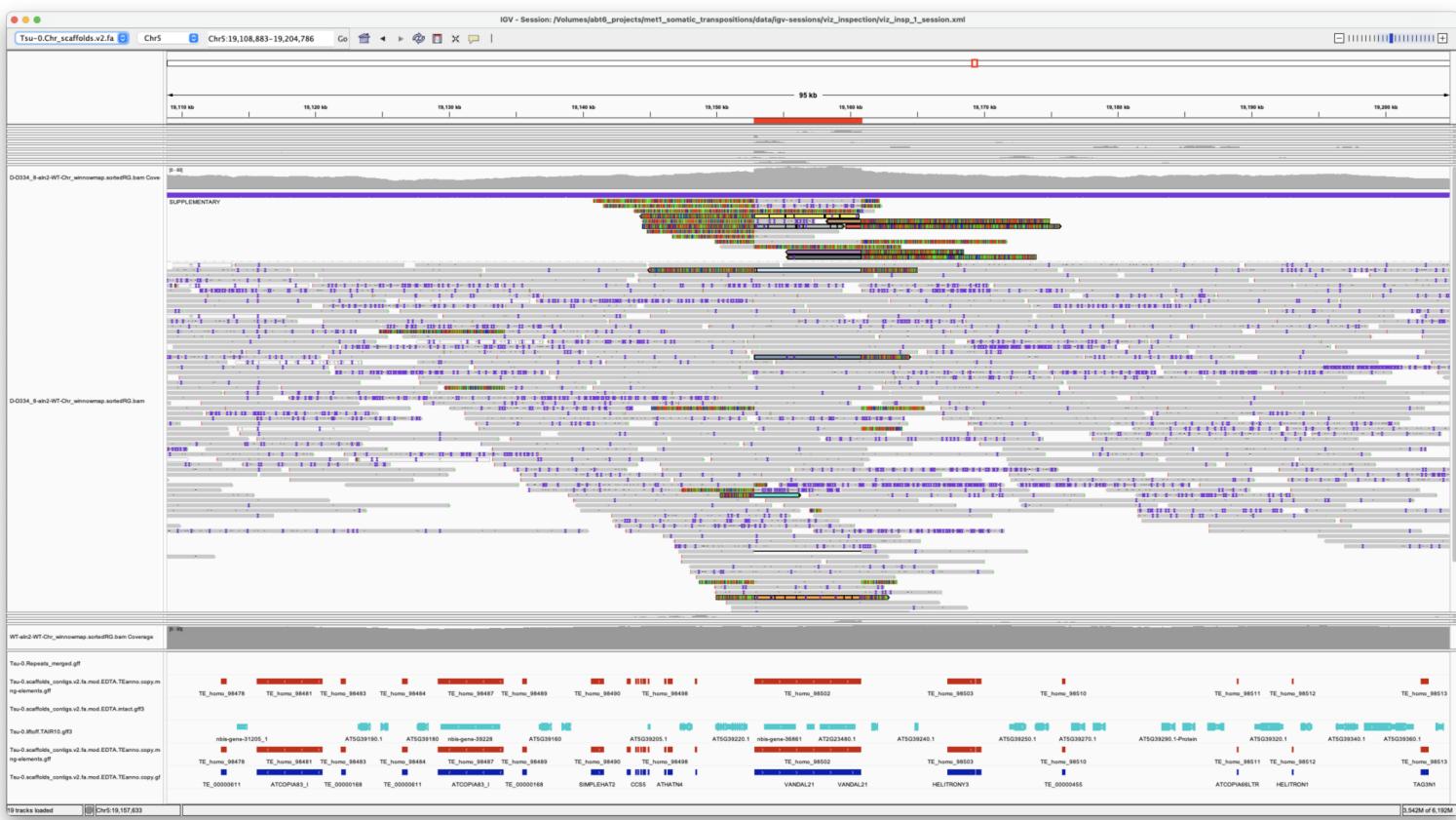
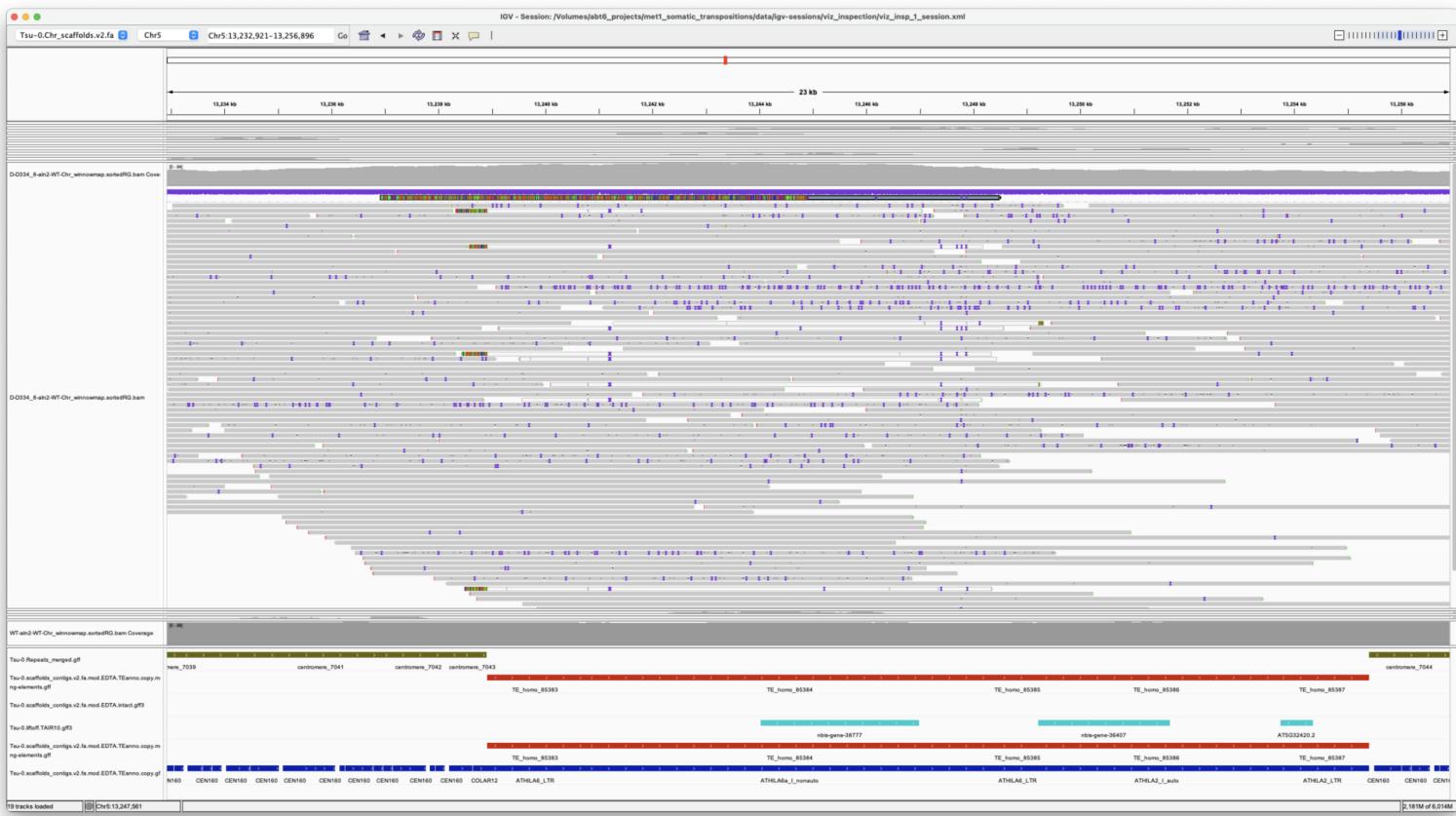
Confirmed

Chr5 13090588 13090588 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/125632727/ccs met1_08



Partial

Confirmed

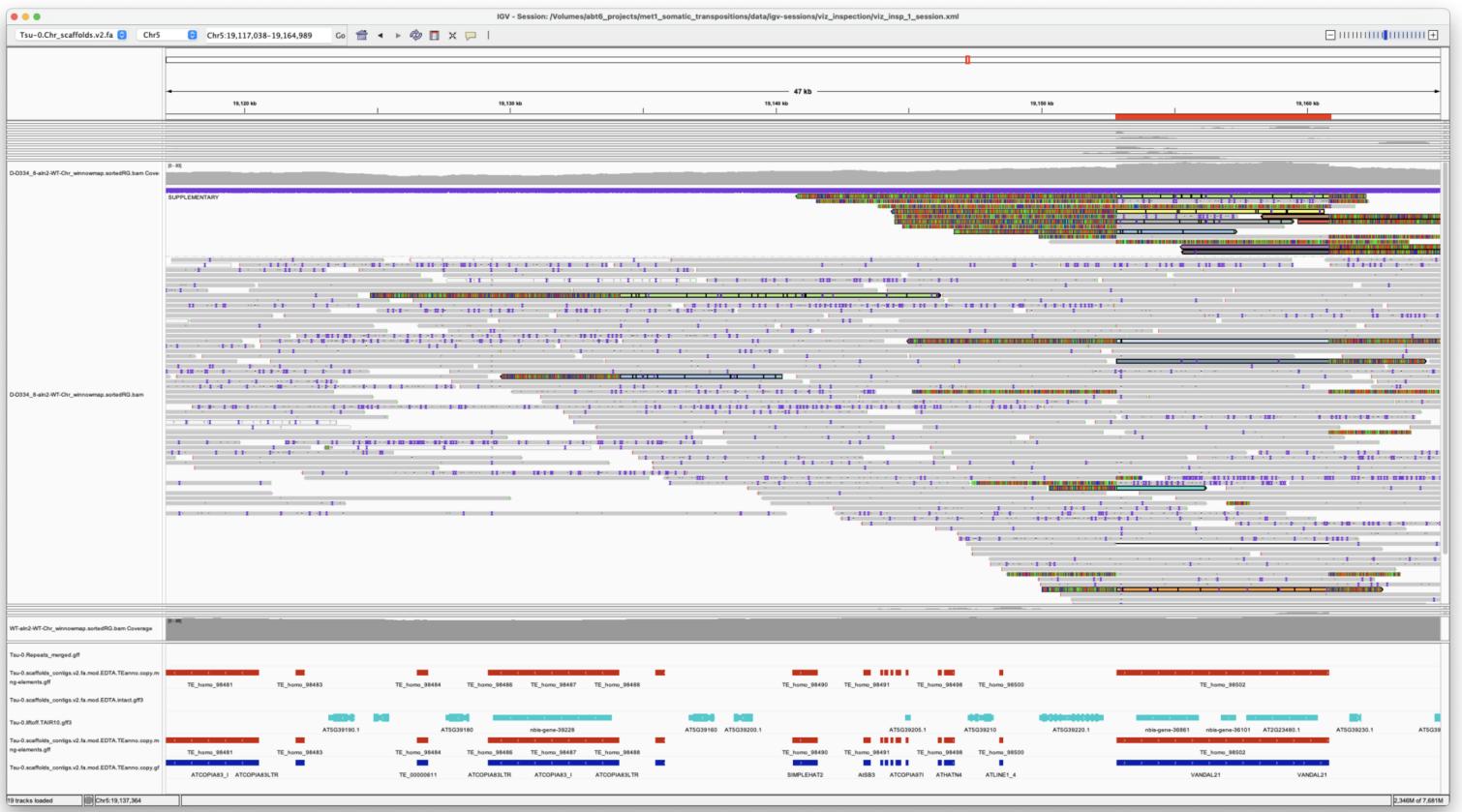


Centromeric Athila

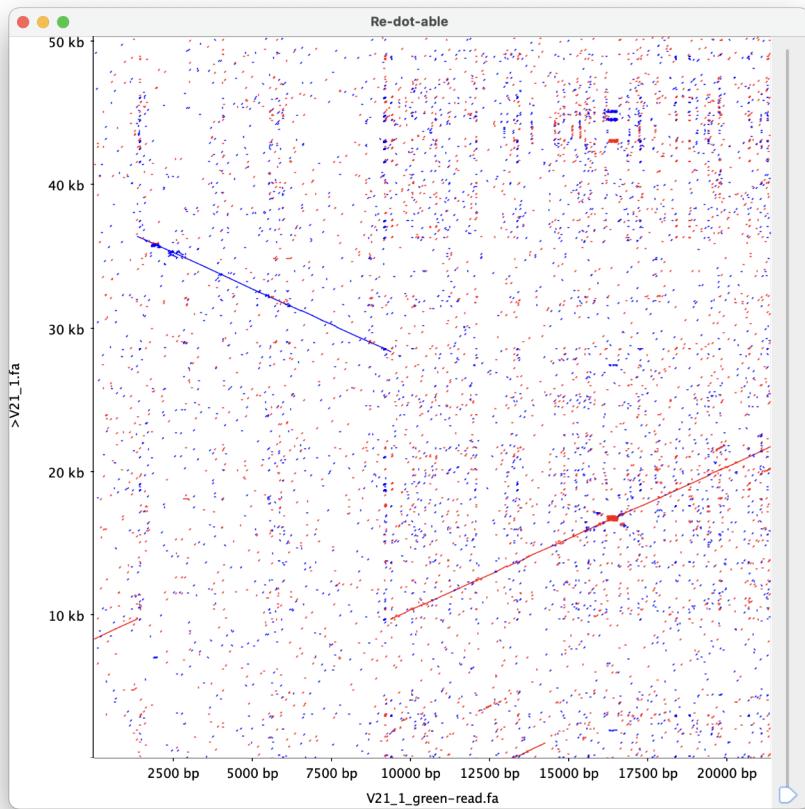
Partial

Confirmed

Chr5 19134139 19134141 .- 2 Chr5;19152829;19160826;VANDAL21,Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/94963270/ccs.m64079_240212_113350/128123395/ccs met1_08



Why the green read mapping to the TE has a right clipped part that is longer than the right clipped when the same read maps to the neighbouring best side?

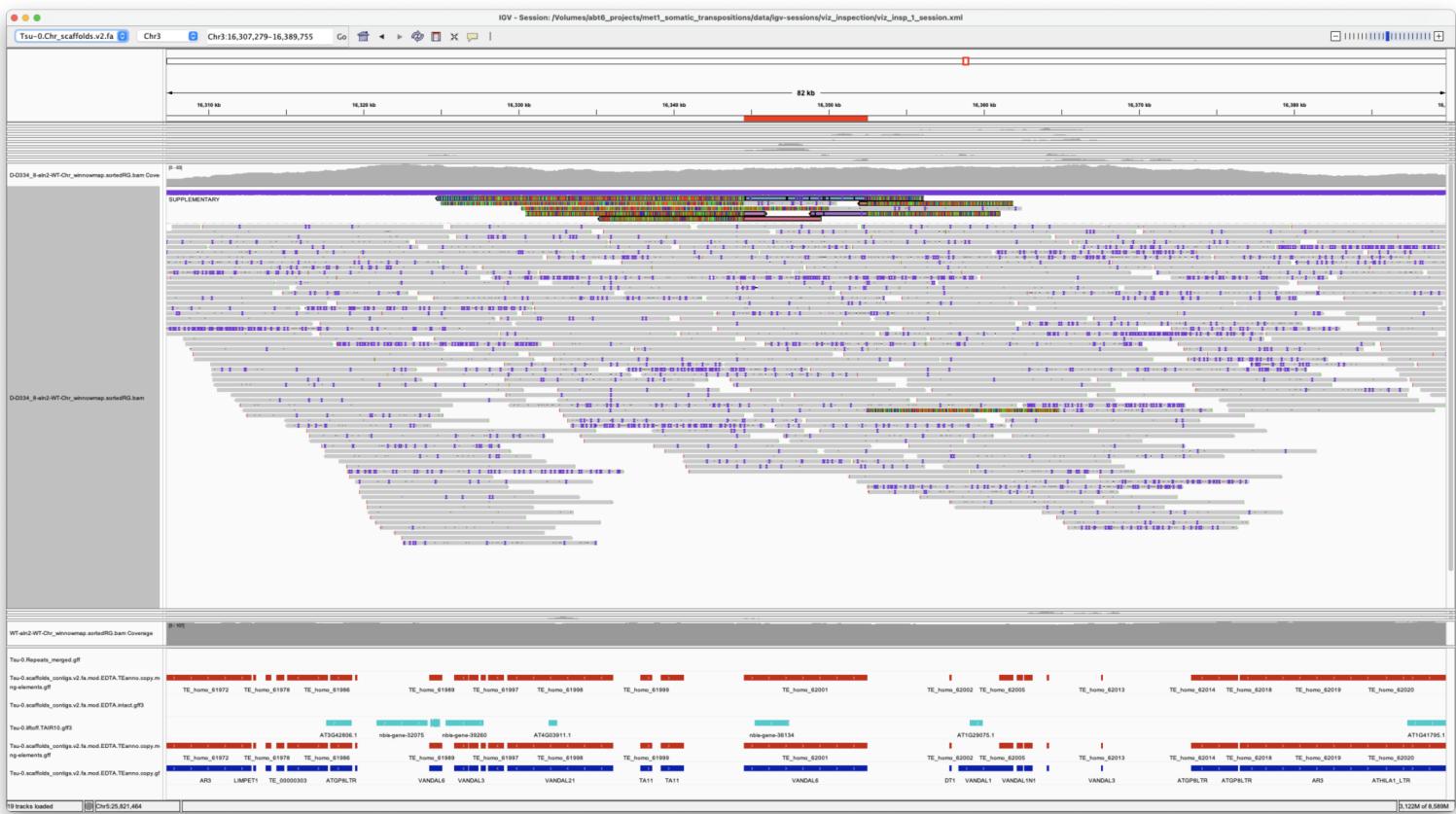
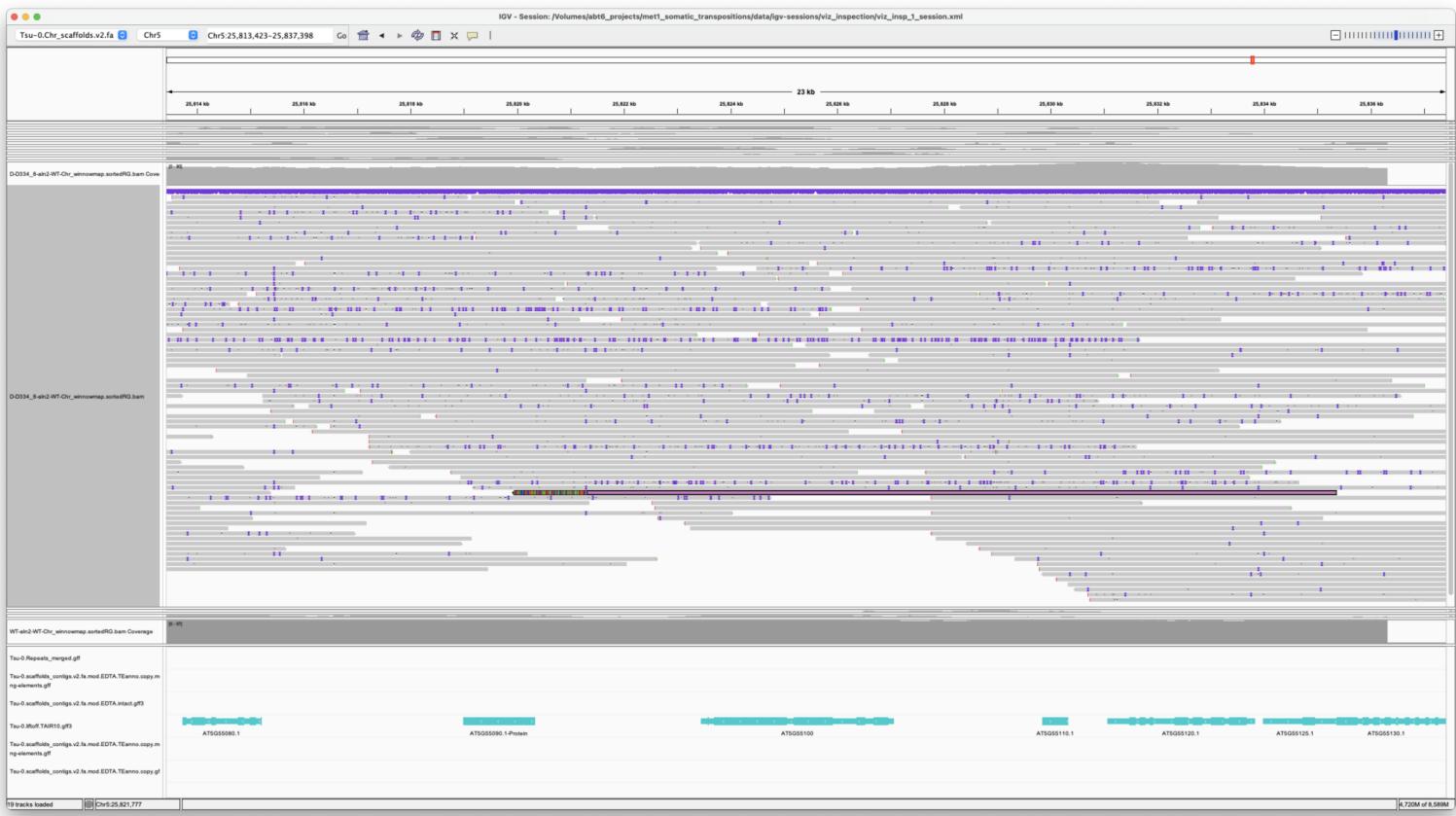


but looks good enough from this that it is an insertion with central configuration

Partial

Confirmed

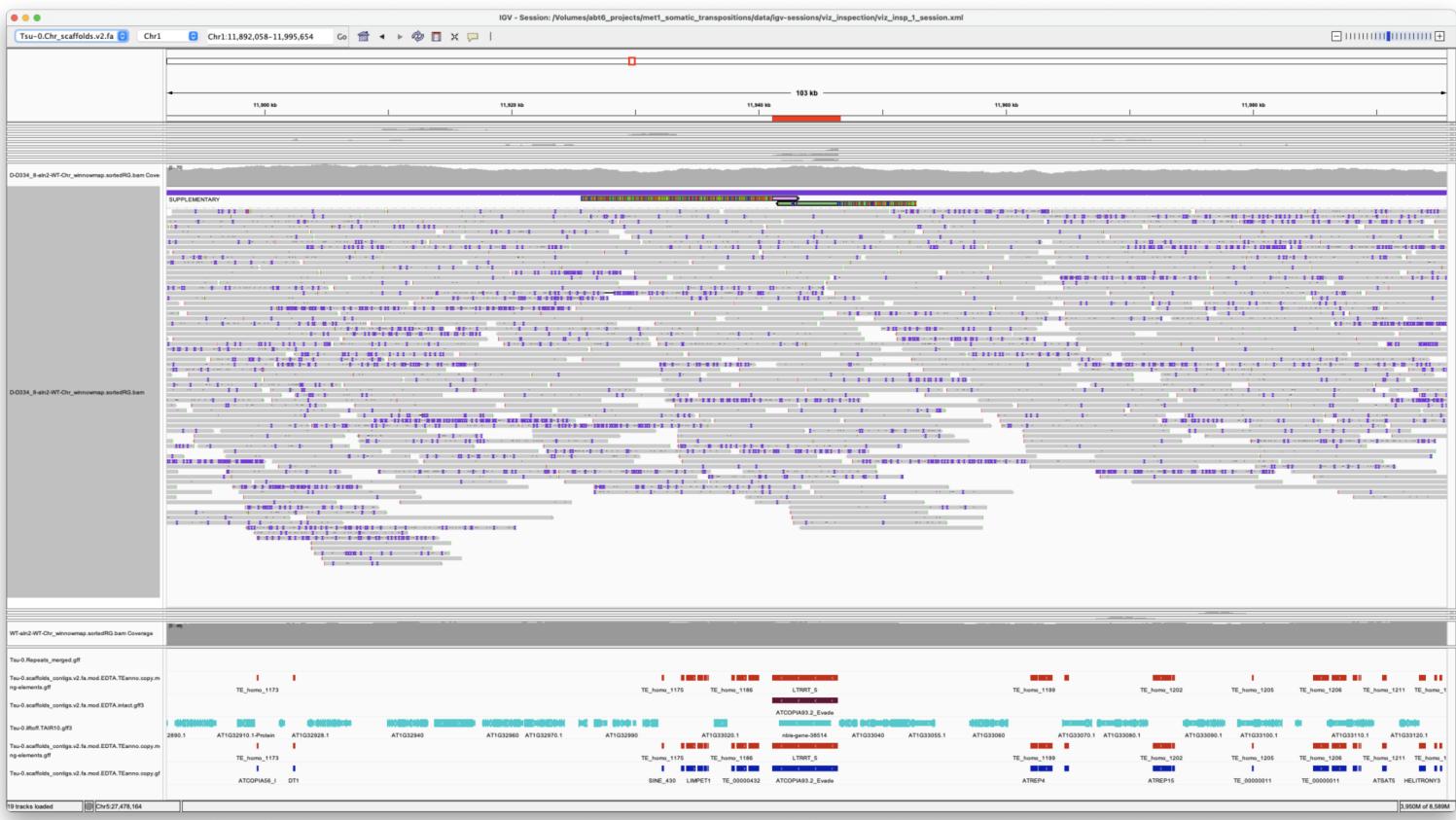
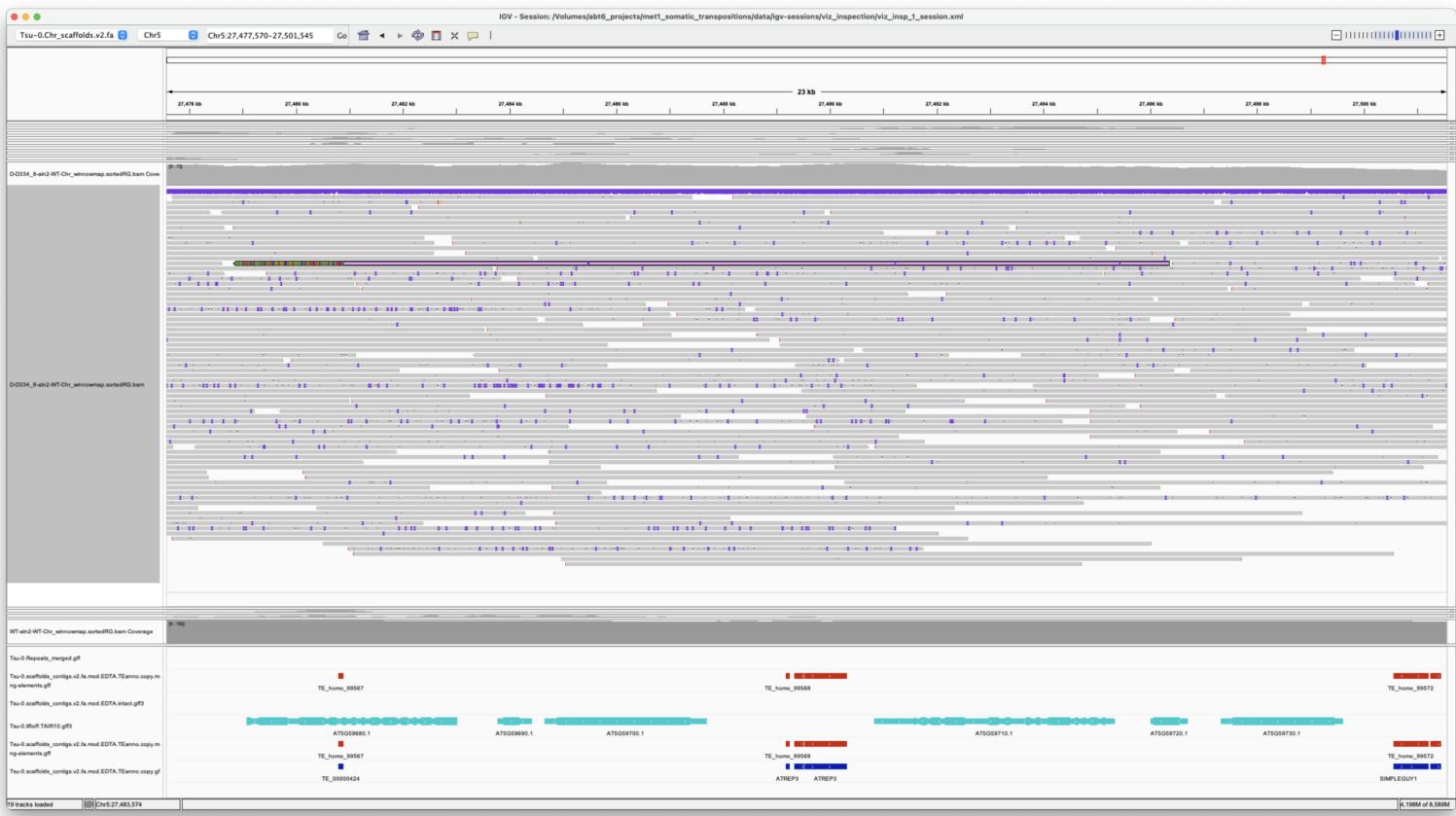
Chr5 25821316 25821316 - 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/8848491/ccs met1_08



Partial

Confirmed

Chr5 27480891 27480891 - 1 Chr1;11941106;11946436;ATCOPA93_Evade m64079_240212_113350/101845376/ccs met1_08

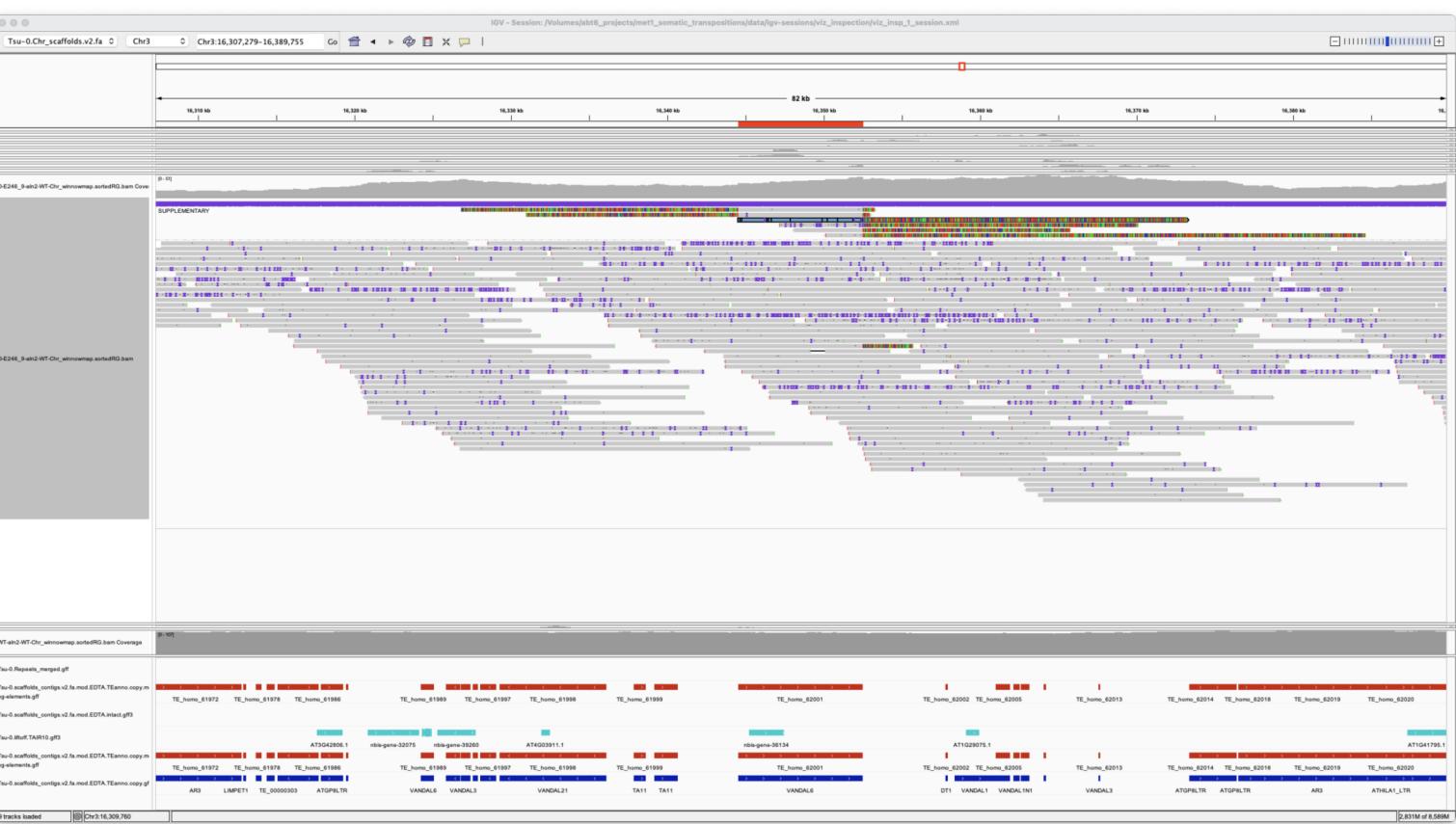
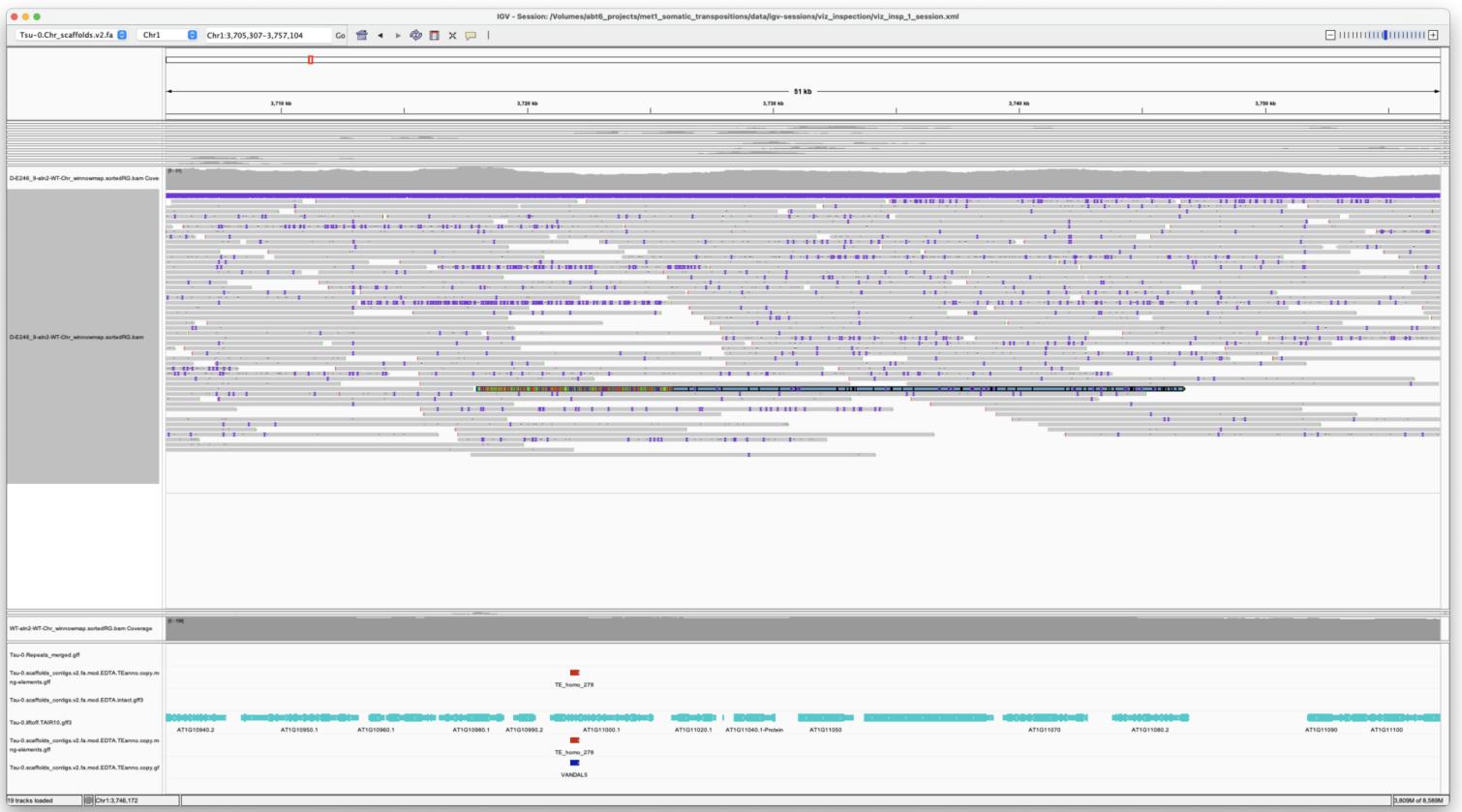


Partial

Confirmed

met1_09

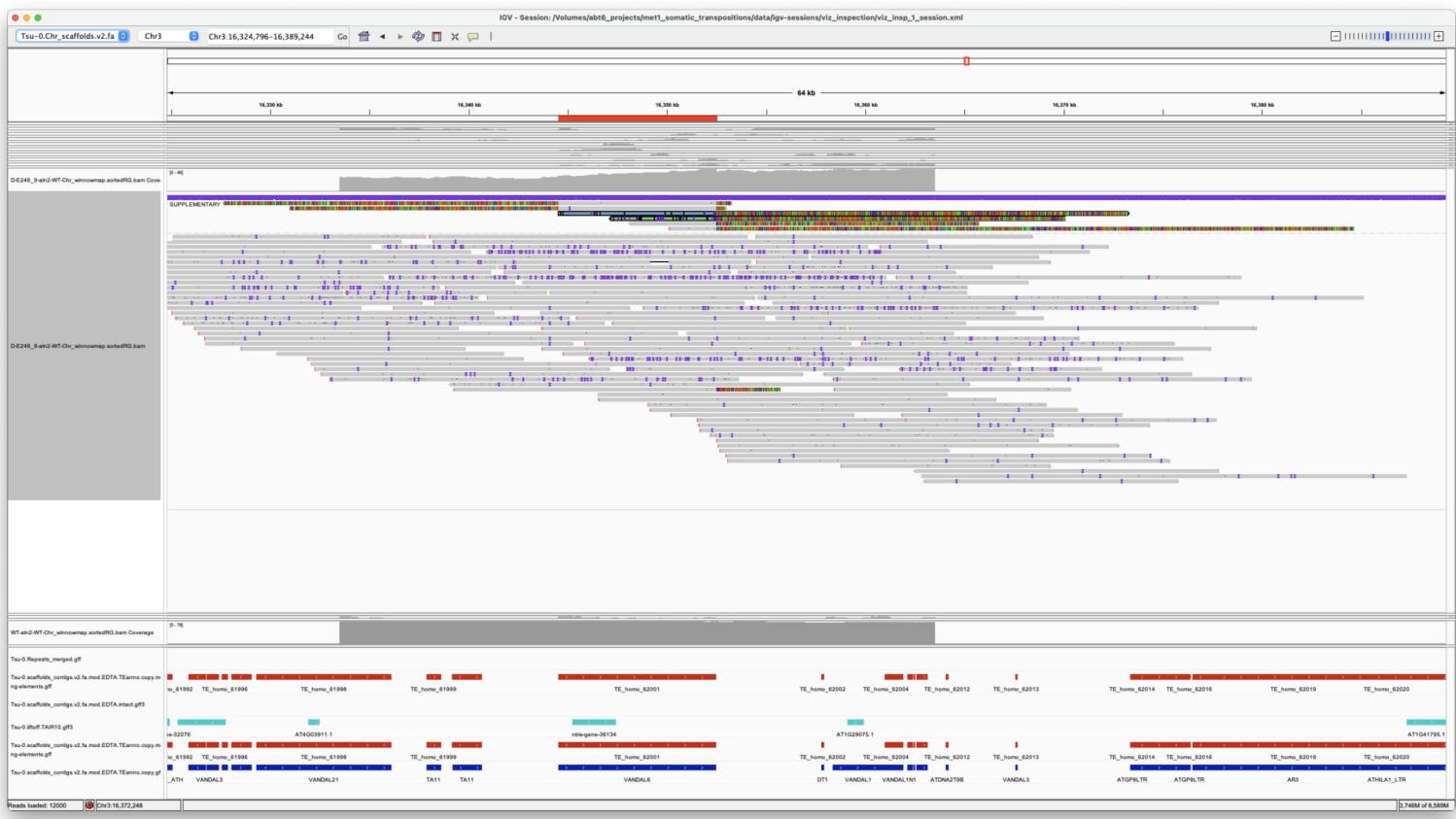
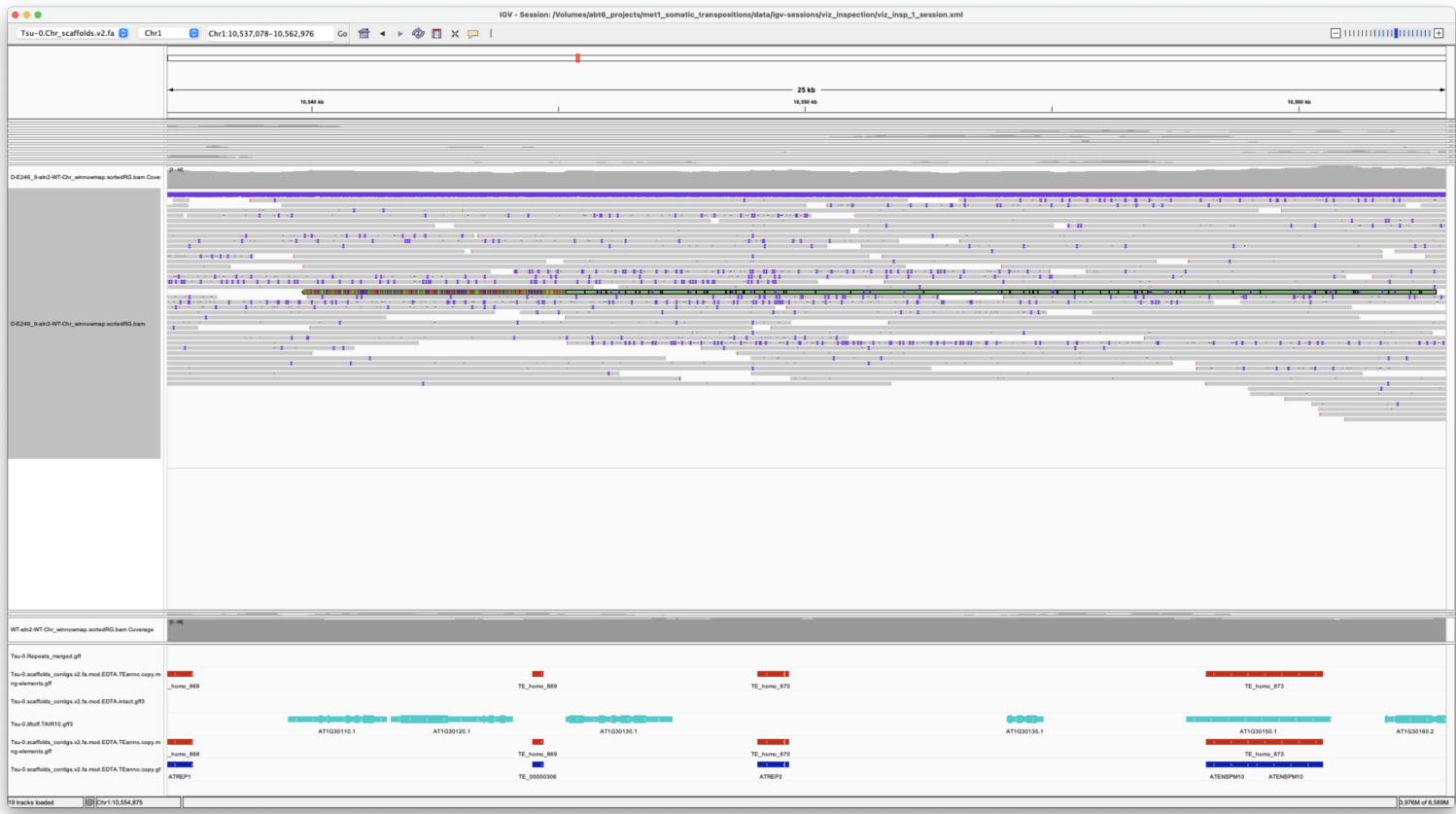
Chr1 3725934 3725934 + 1 Chr3:16344522;16352497;VANDAL6 m64079_221220_112036/109446837/ccs met1_09



Partial

Confirmed

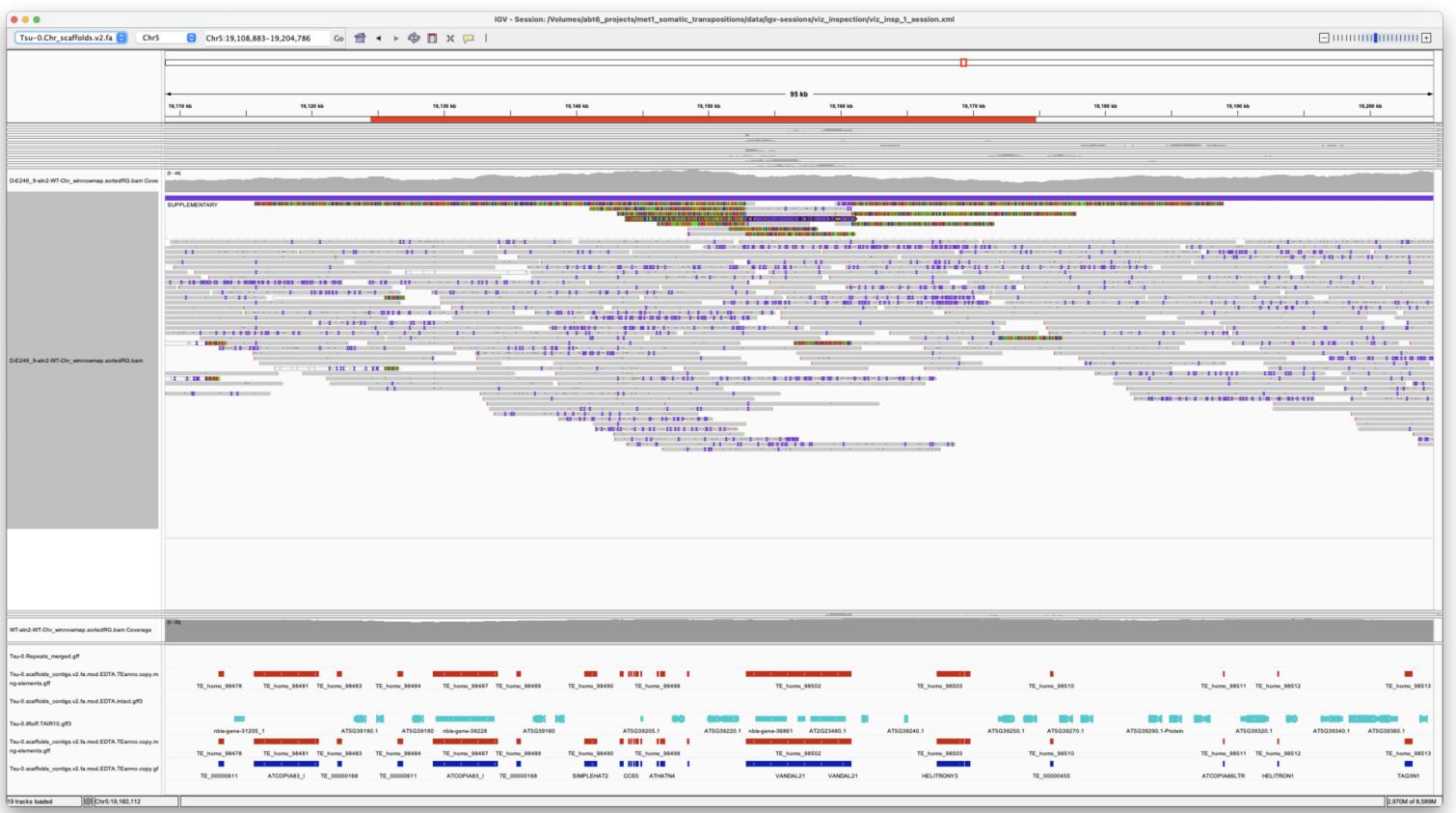
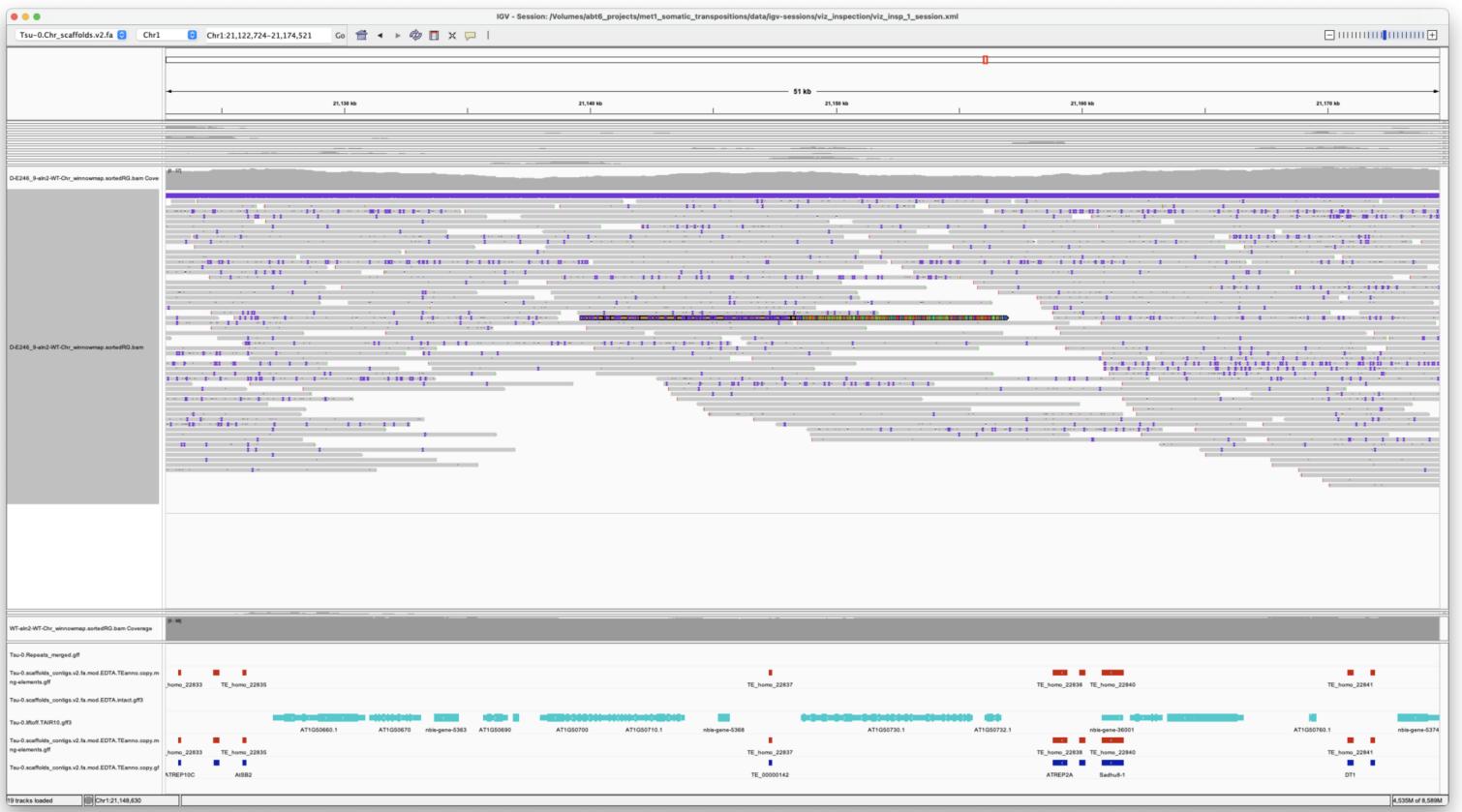
Chr1 10545157 10545157 + 1 Chr3:16344522;16352497;VANDAL6 m64079_221220_112036/175244627/ccs met1_09



Partial

Confirmed

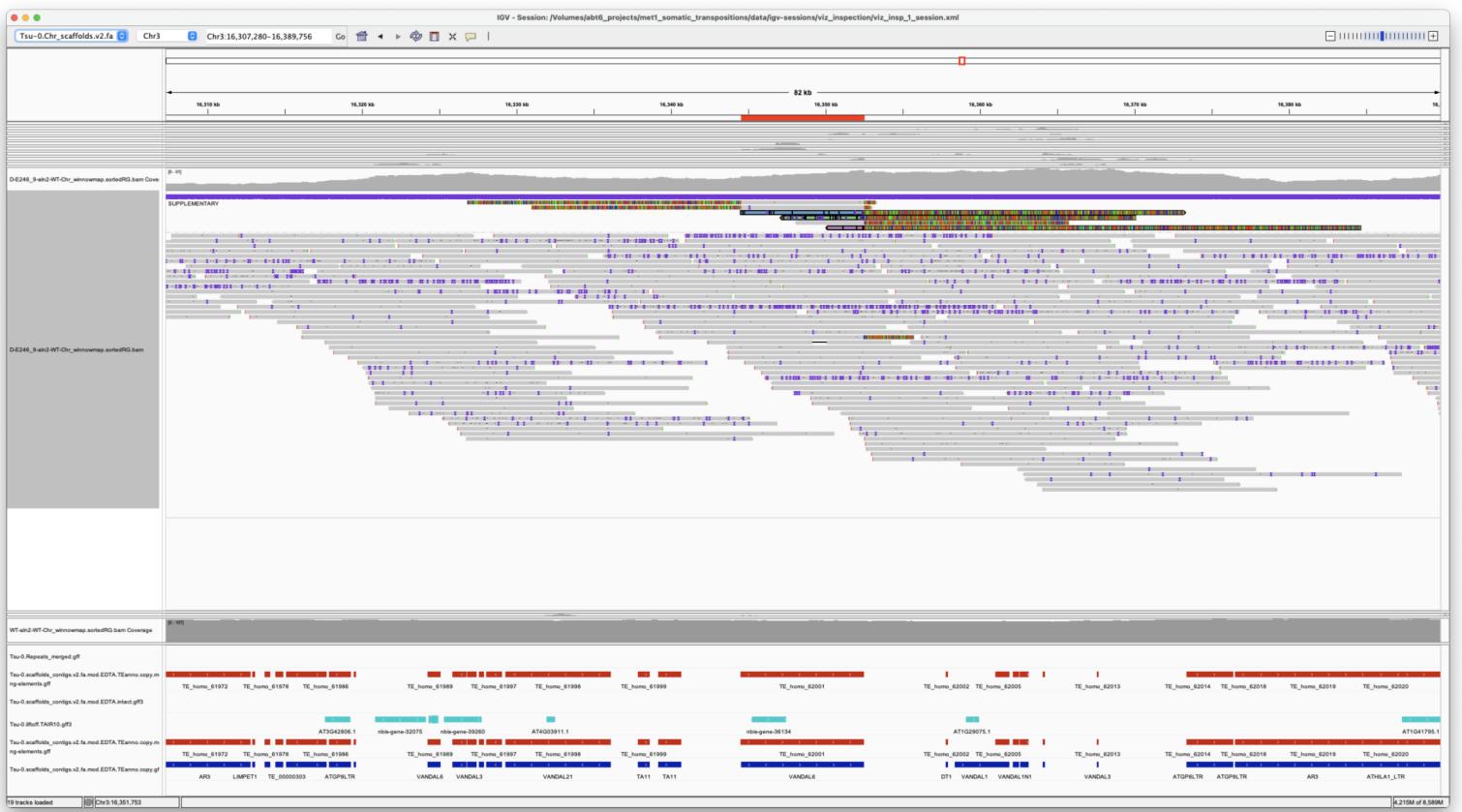
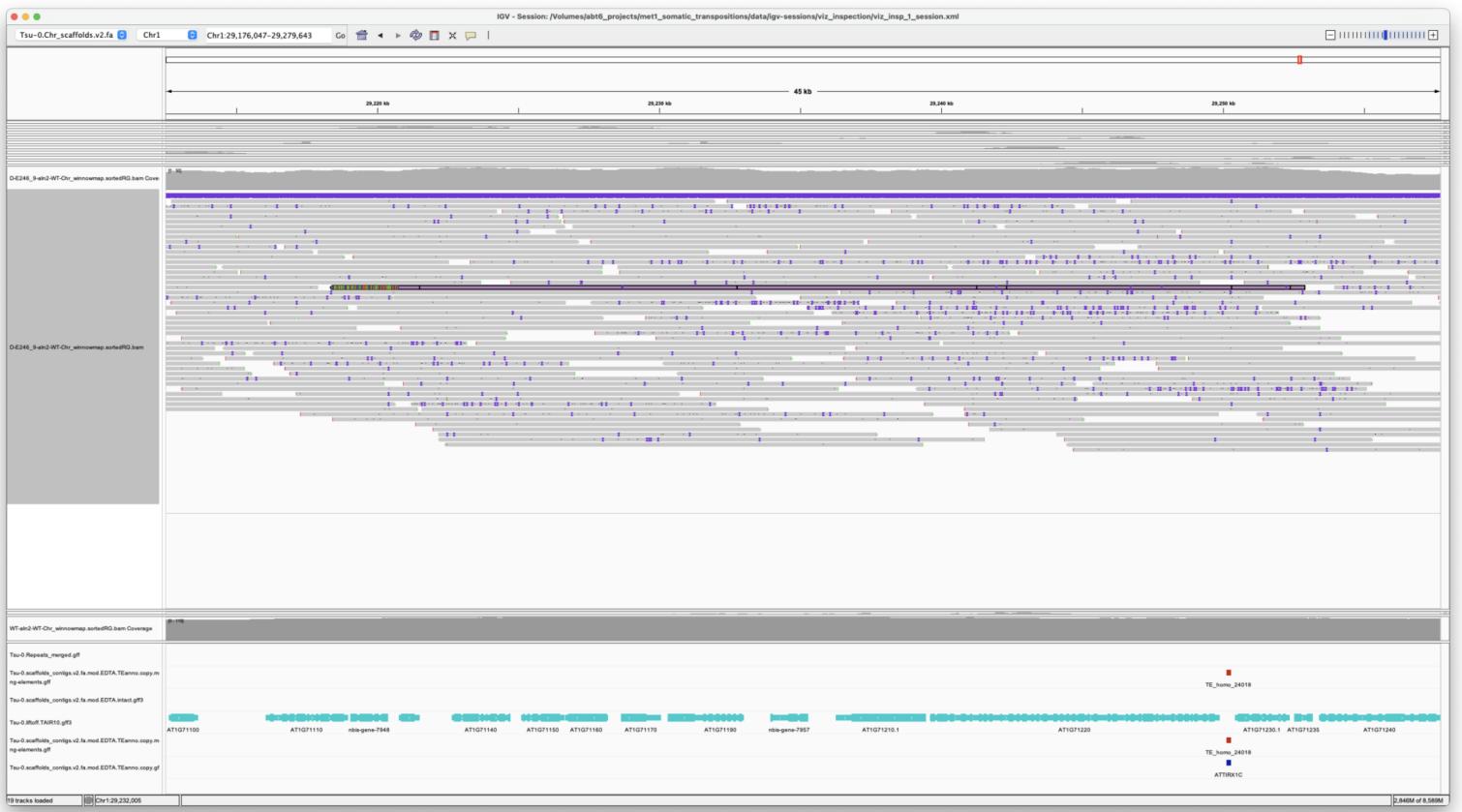
Chr 21148623 21148623 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/172689386/ccs met1_09



Partial

Confirmed

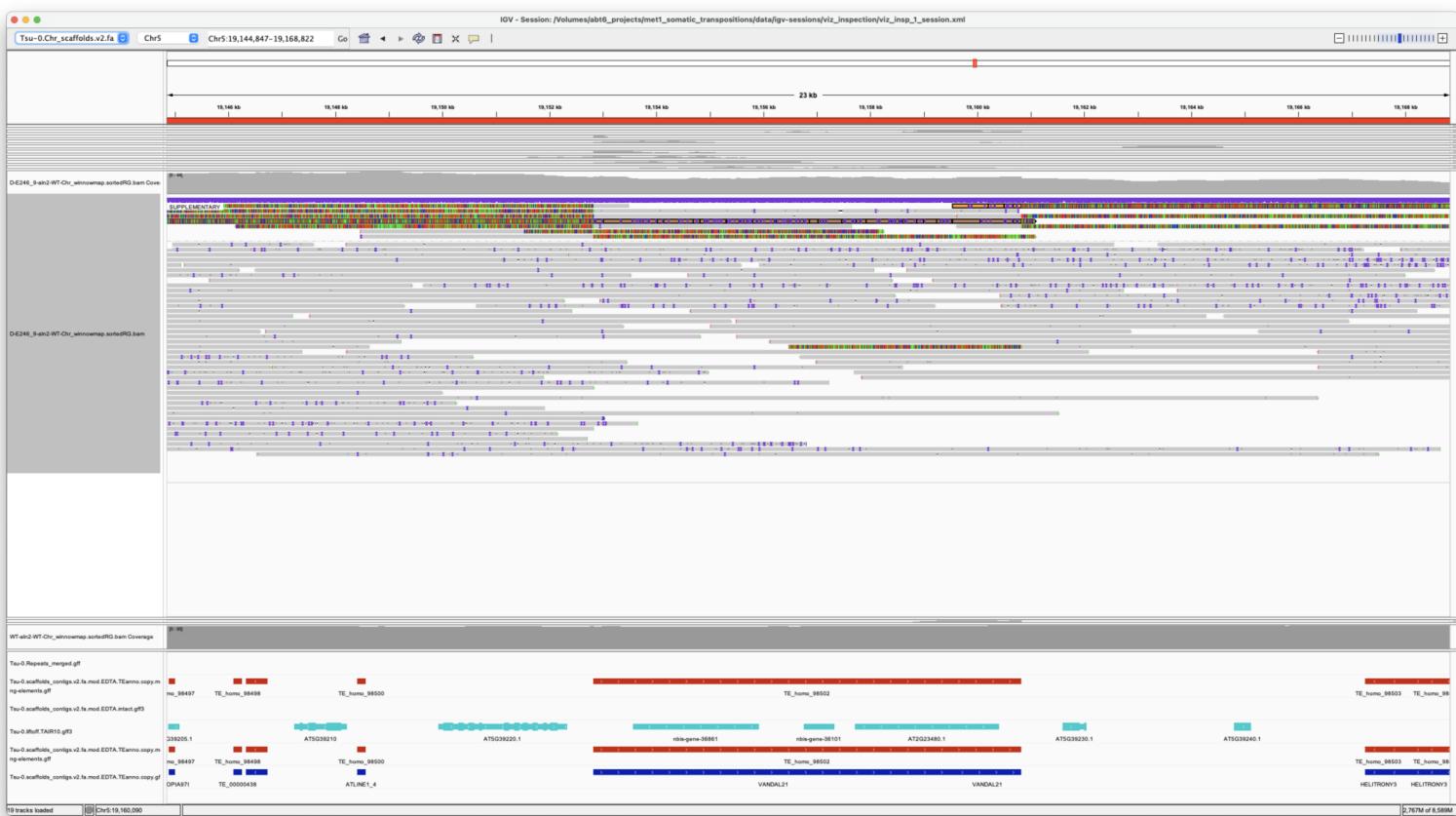
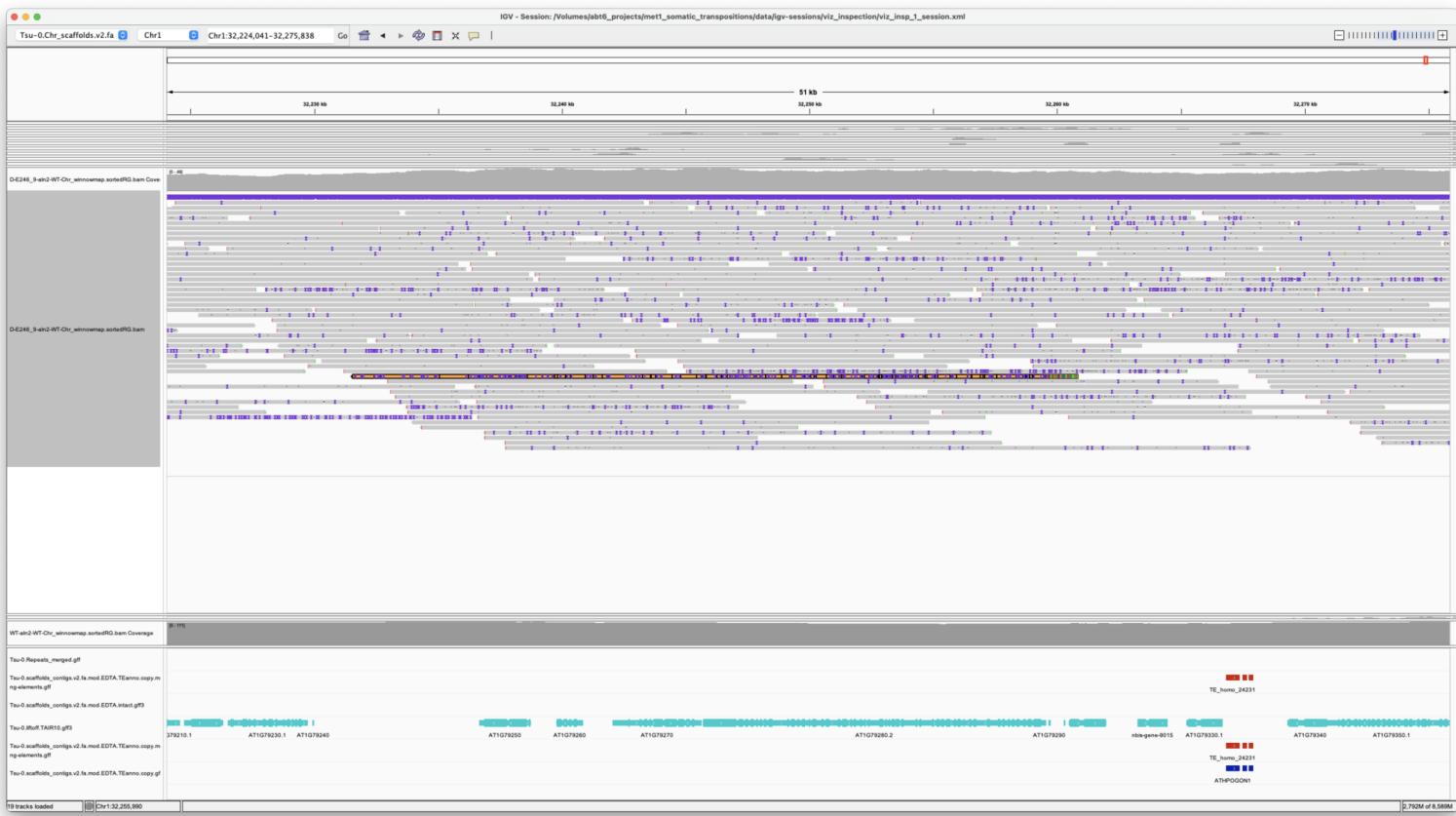
Chr1 29220751 29220751 + 1 Chr3:16344522;16352497;VANDAL6 m64079_221220_112036/106039110/ccs met1_09



Partial

Confirmed

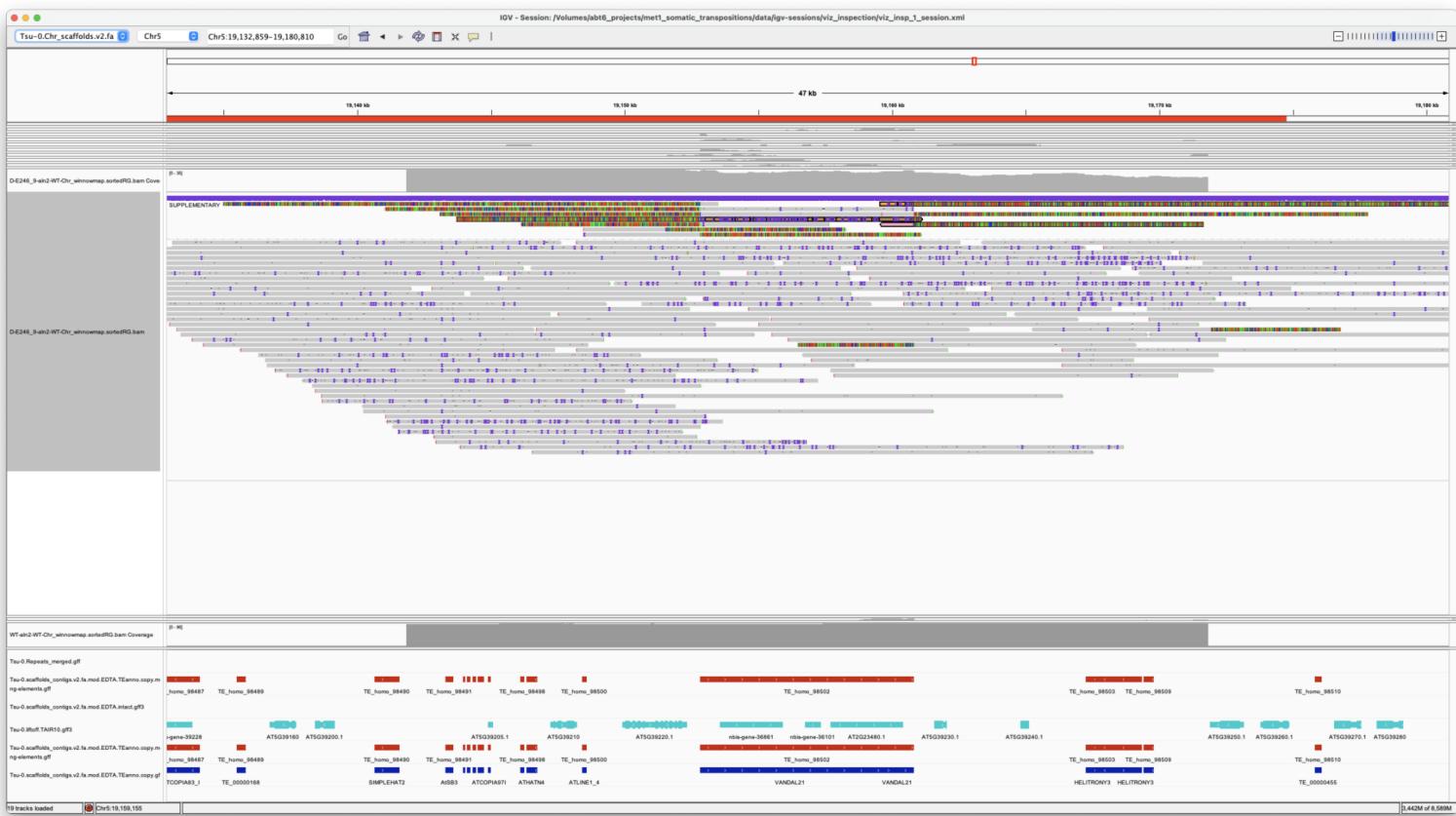
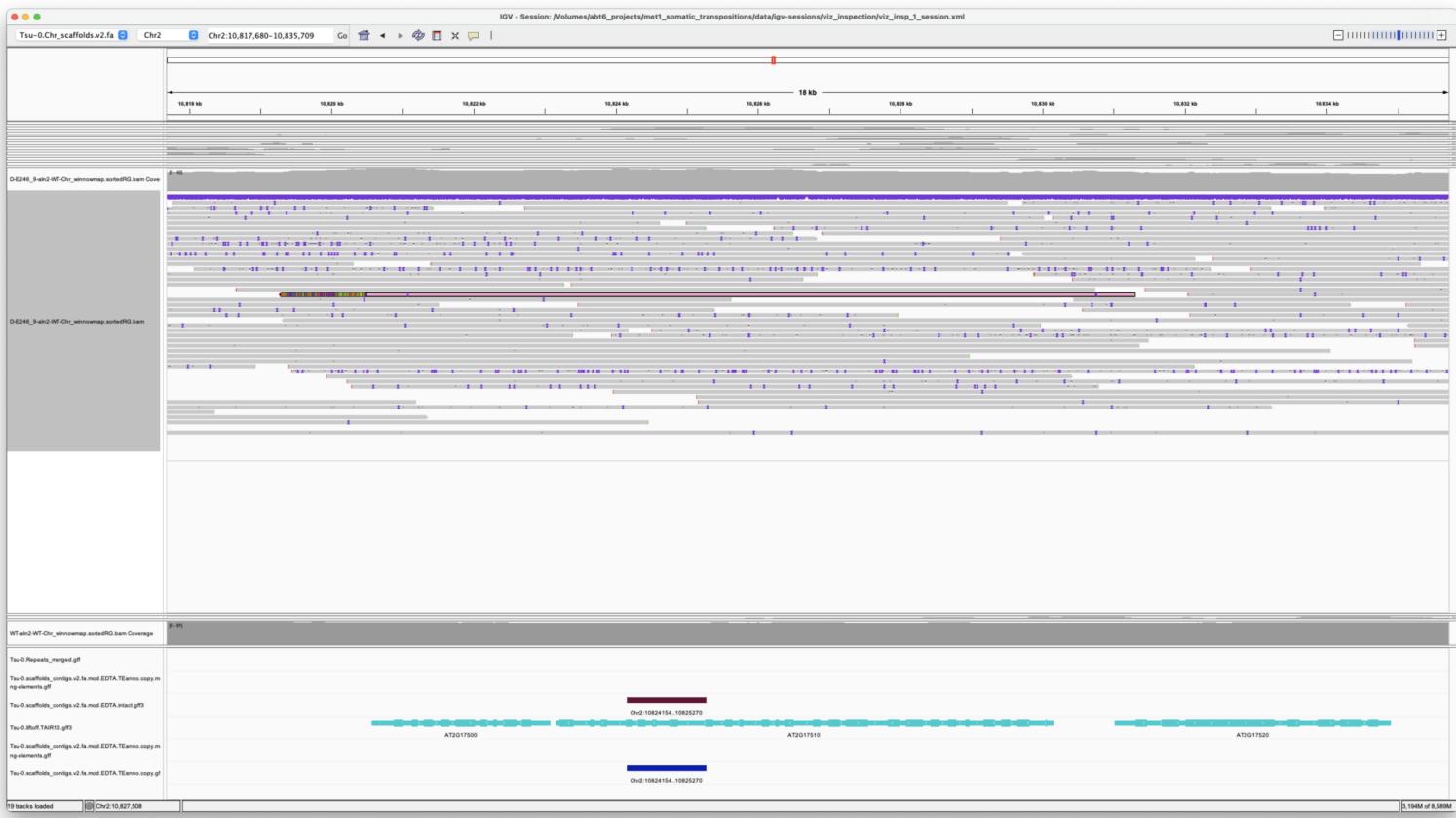
Chr1 32259560 32259560 - 1 Chr5;19152829;19160826;VANDAL21 m64079_240212_113350/121832980/ccs met1_09



Partial

Confirmed

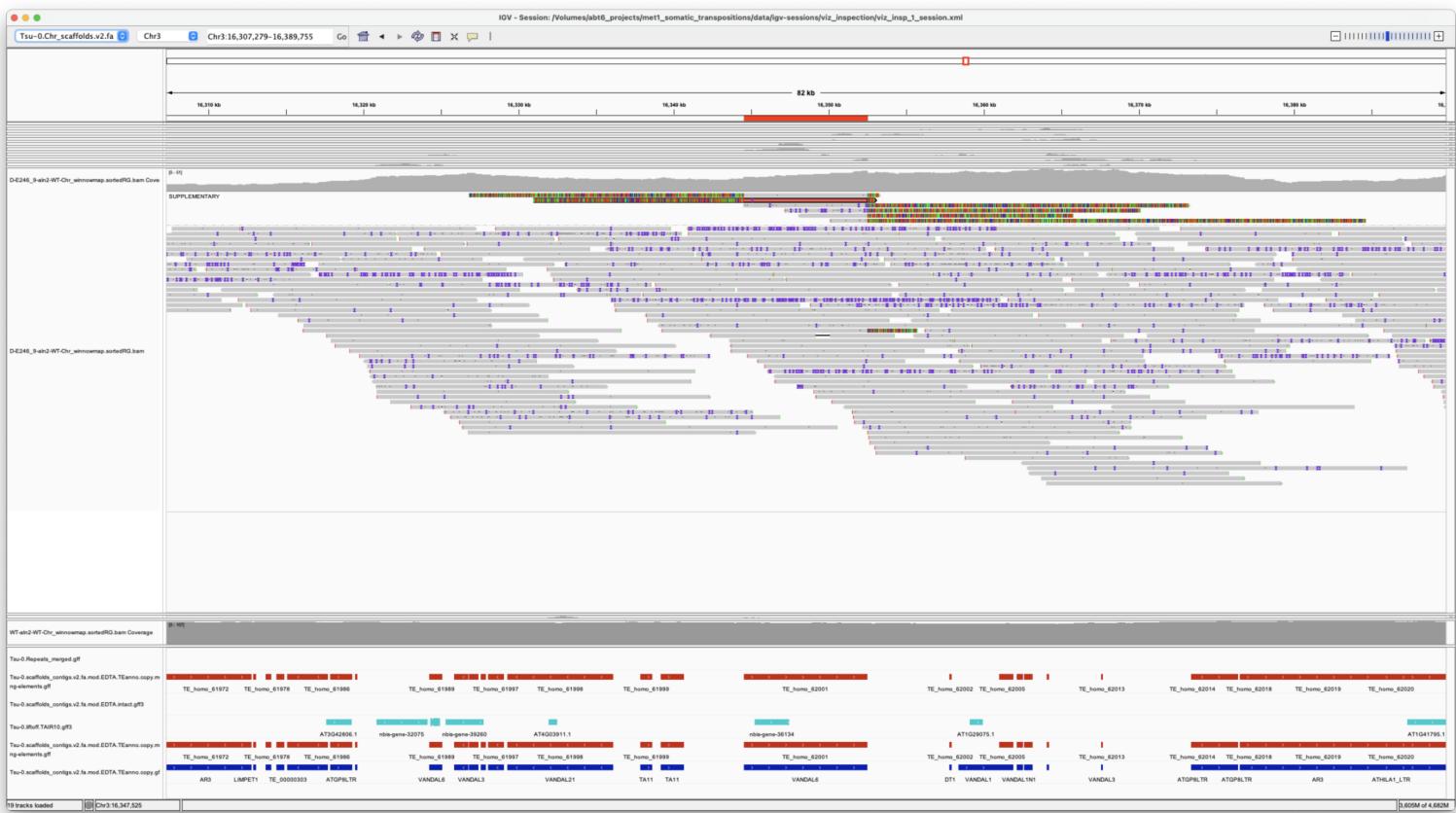
Chr2 10820496 10820496 + 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036/58329751/ccs met1_09



Partial

Confirmed

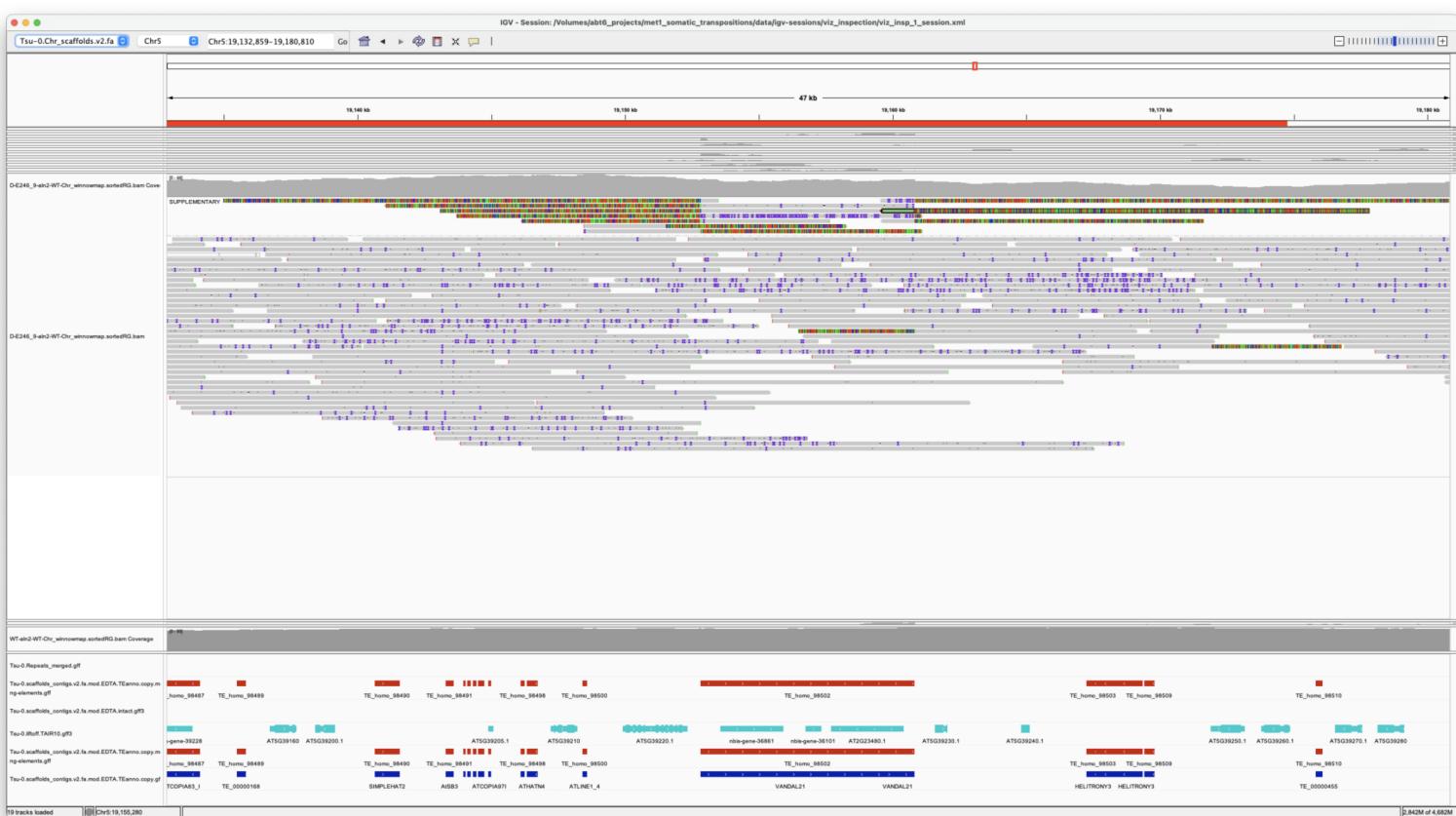
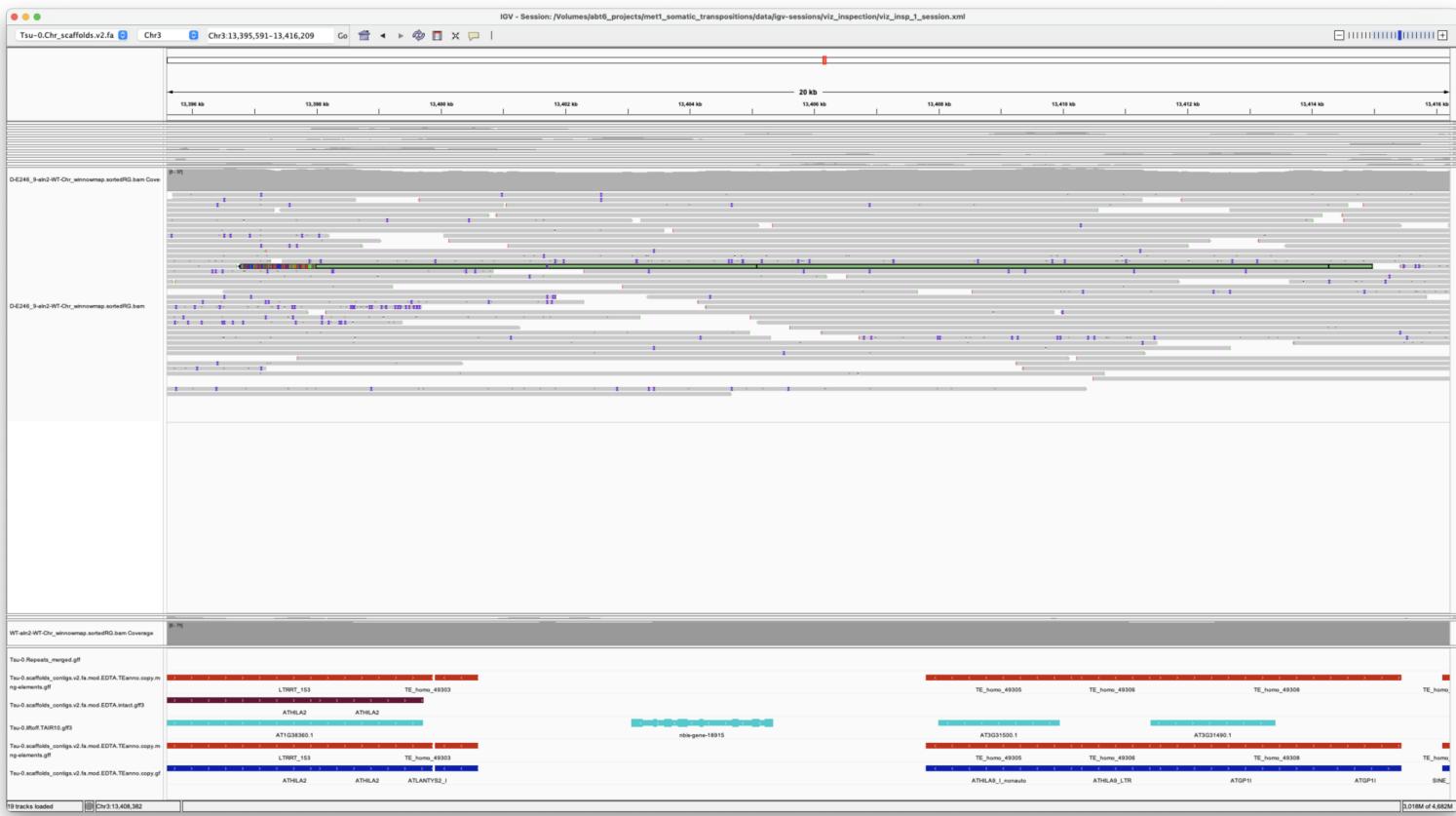
Chr3 5890020 5890020 + 1 Chr3:16344522;16352497;VANDAL6 m64079_221220_112036/111280480/ccs met1_09



Partial

Confirmed

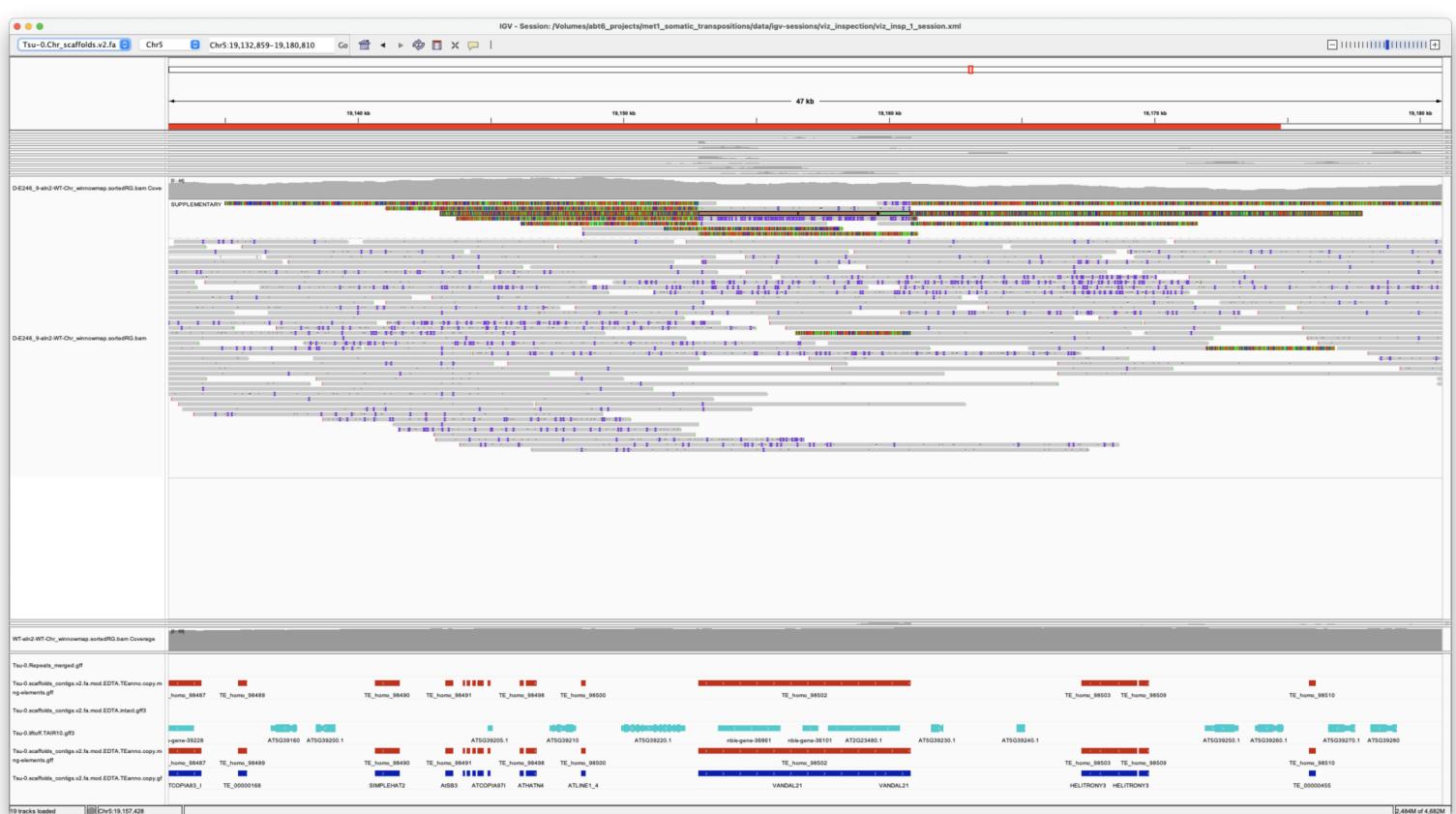
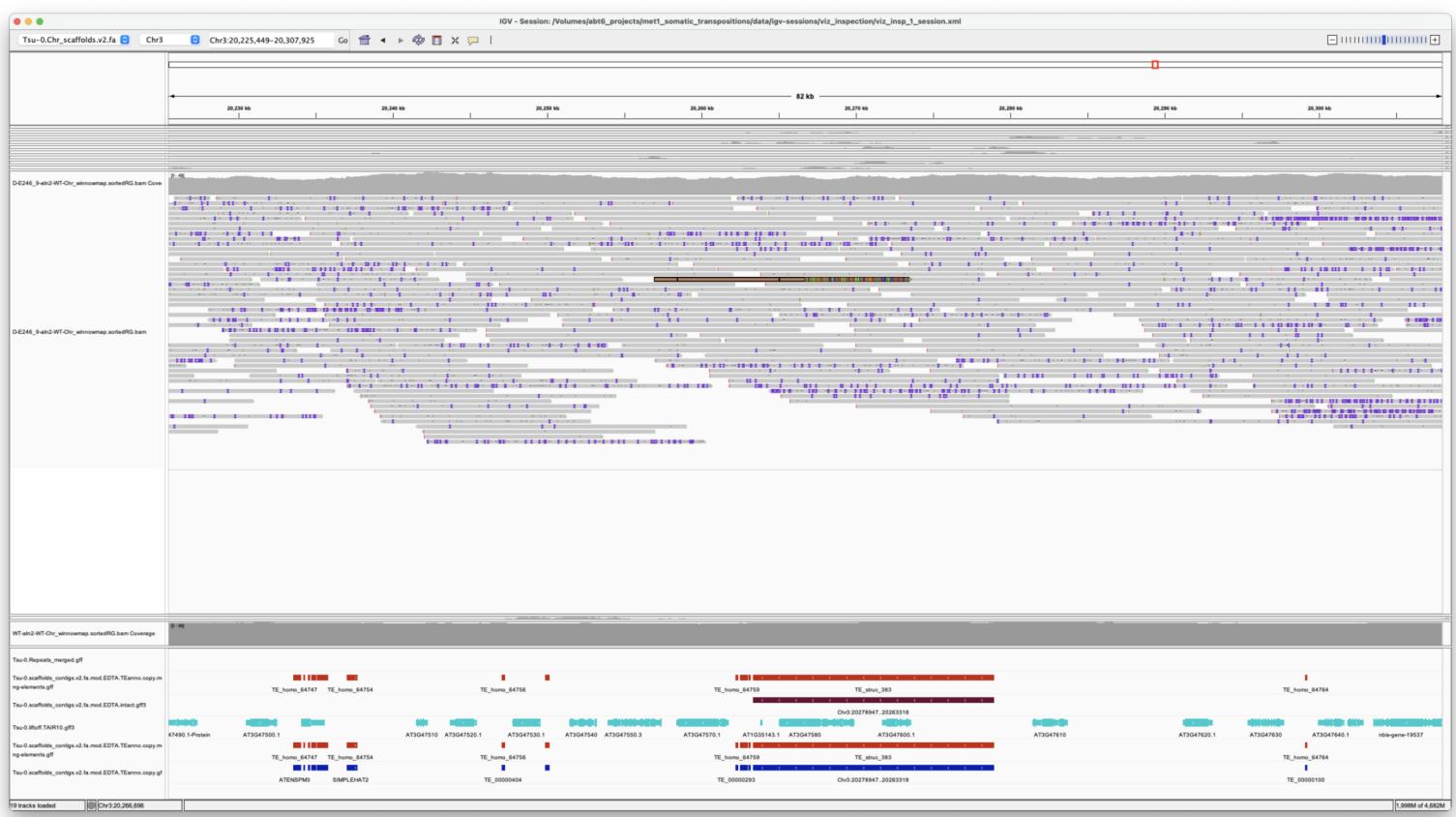
Chr3 13397987 13397987 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/31457762/ccs met1_09



Partial

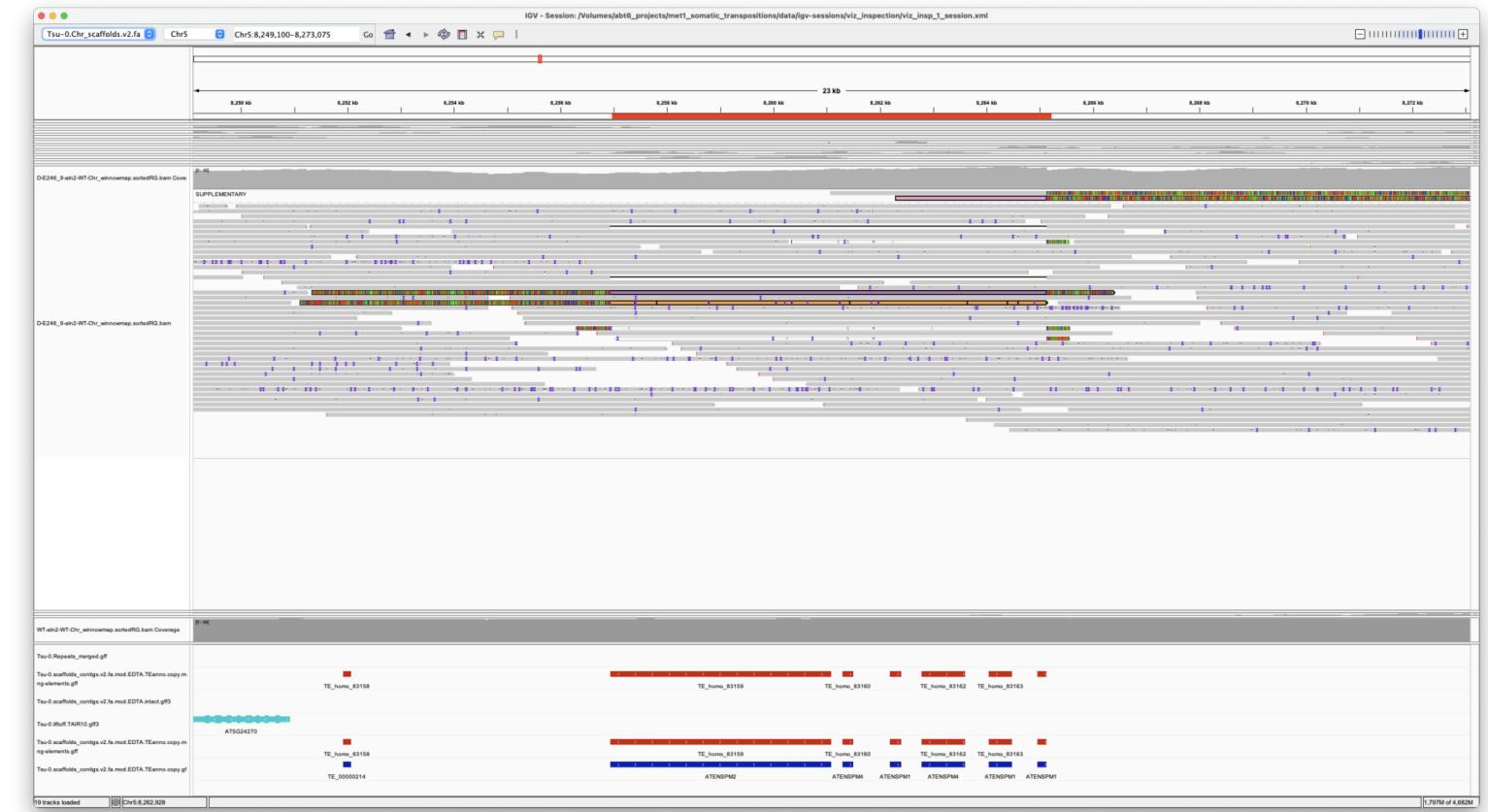
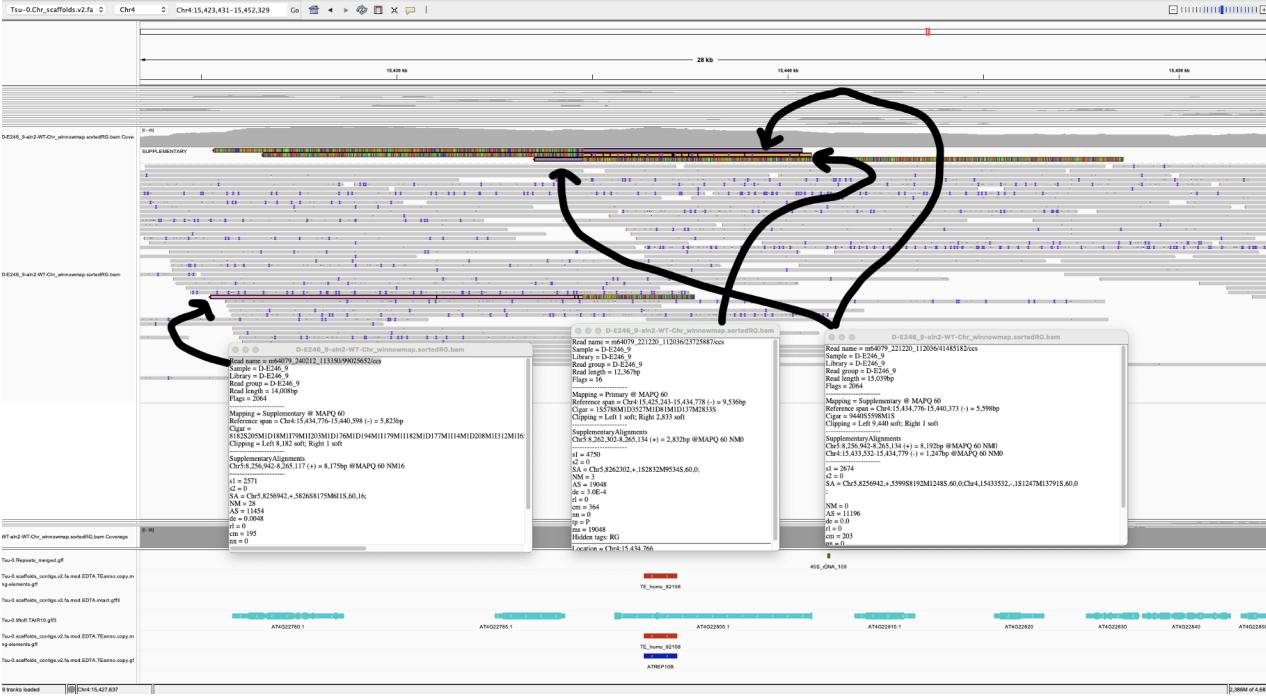
Confirmed

Chr3 20266688 20266688 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/116129982/ccs met1_09



Partial

Confirmed



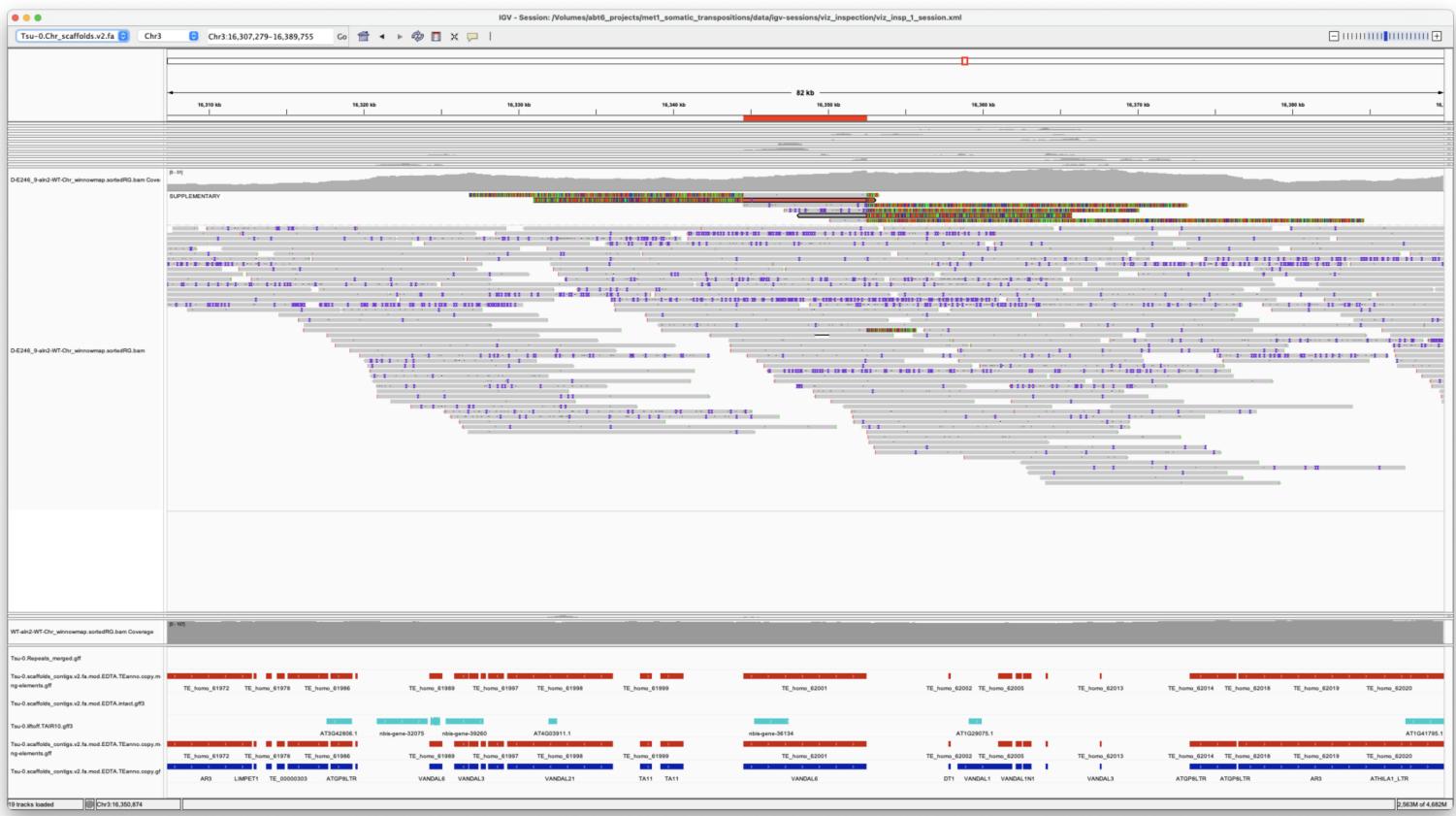
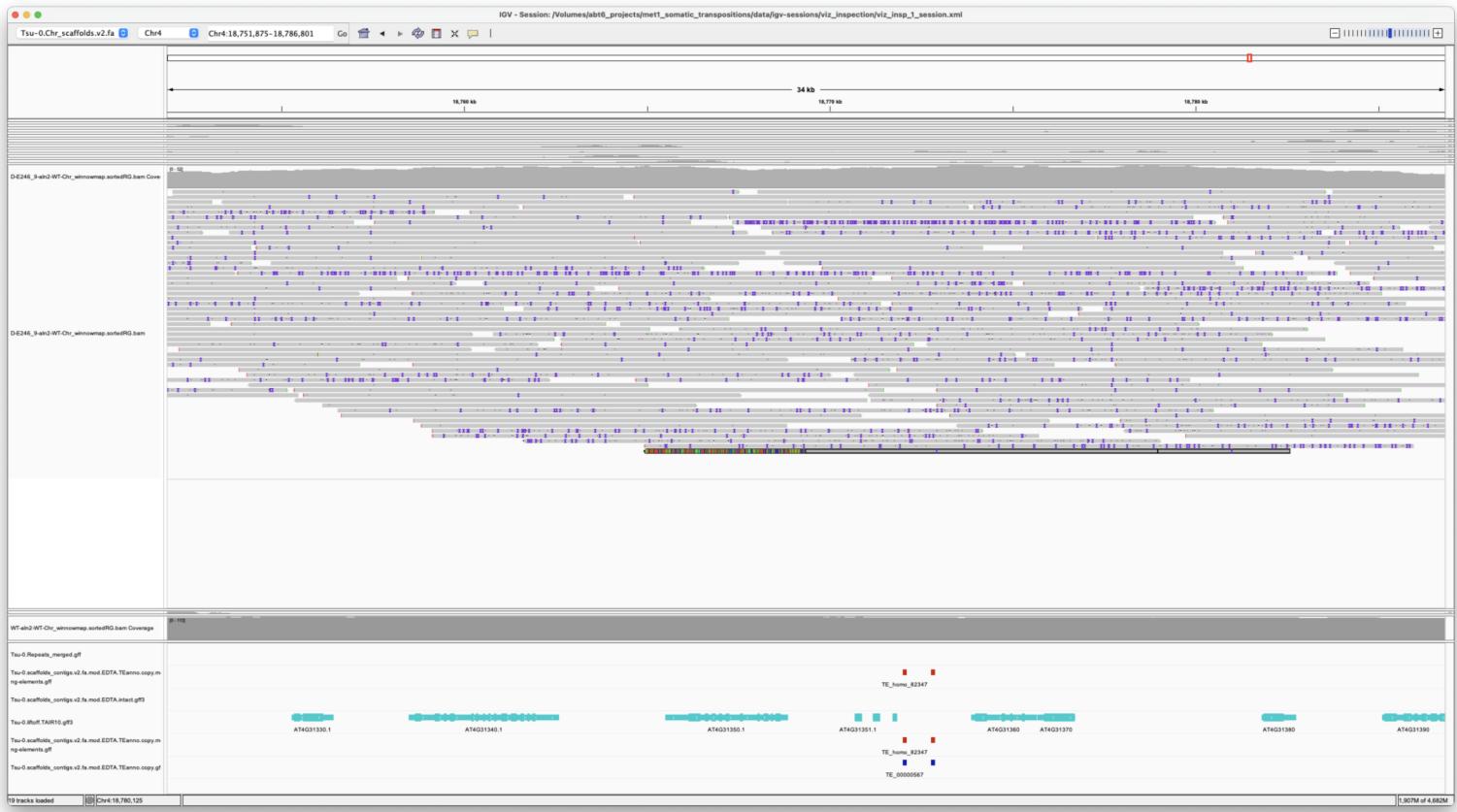
(-) insertion

Corrected, merged

Mixed

Confirmed

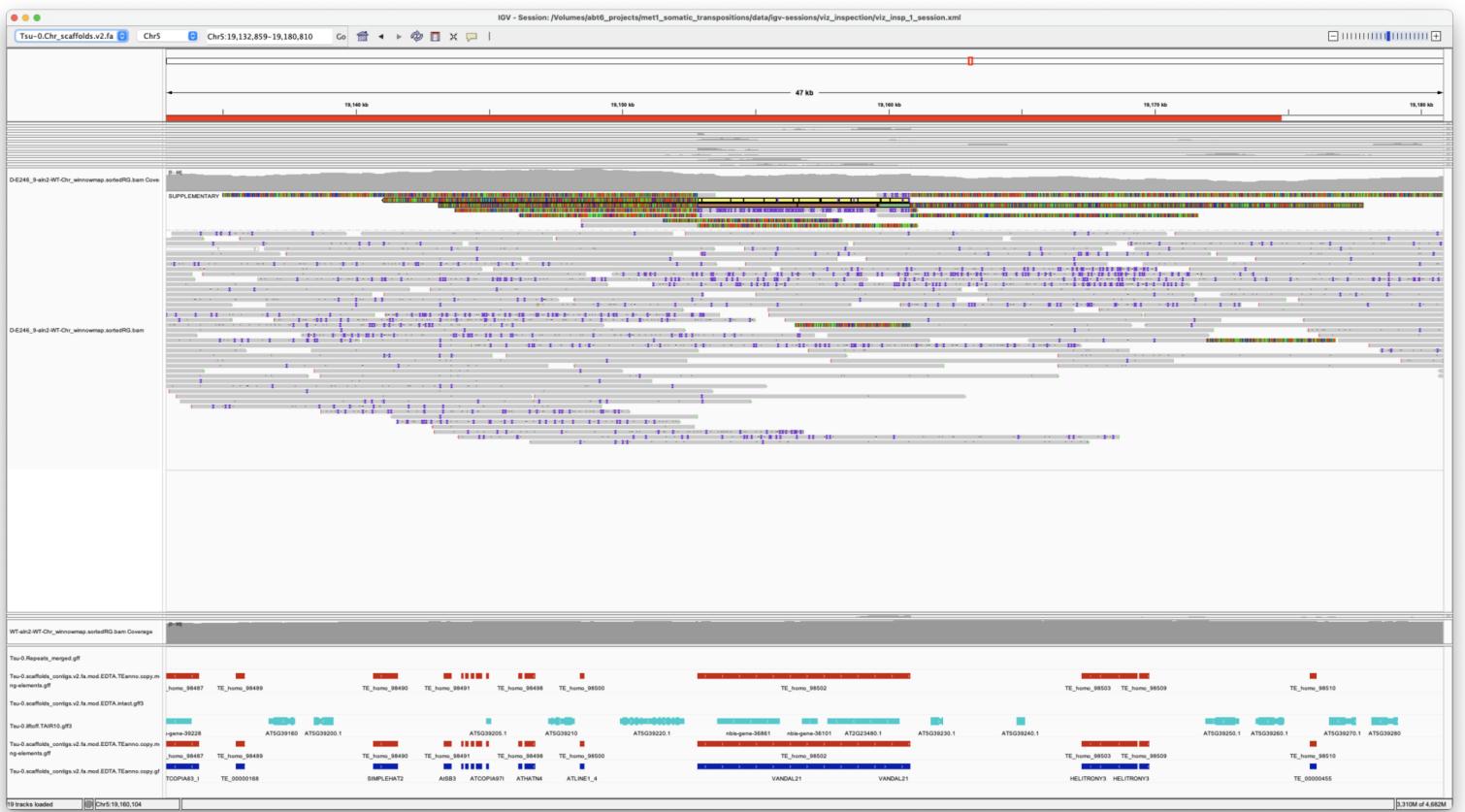
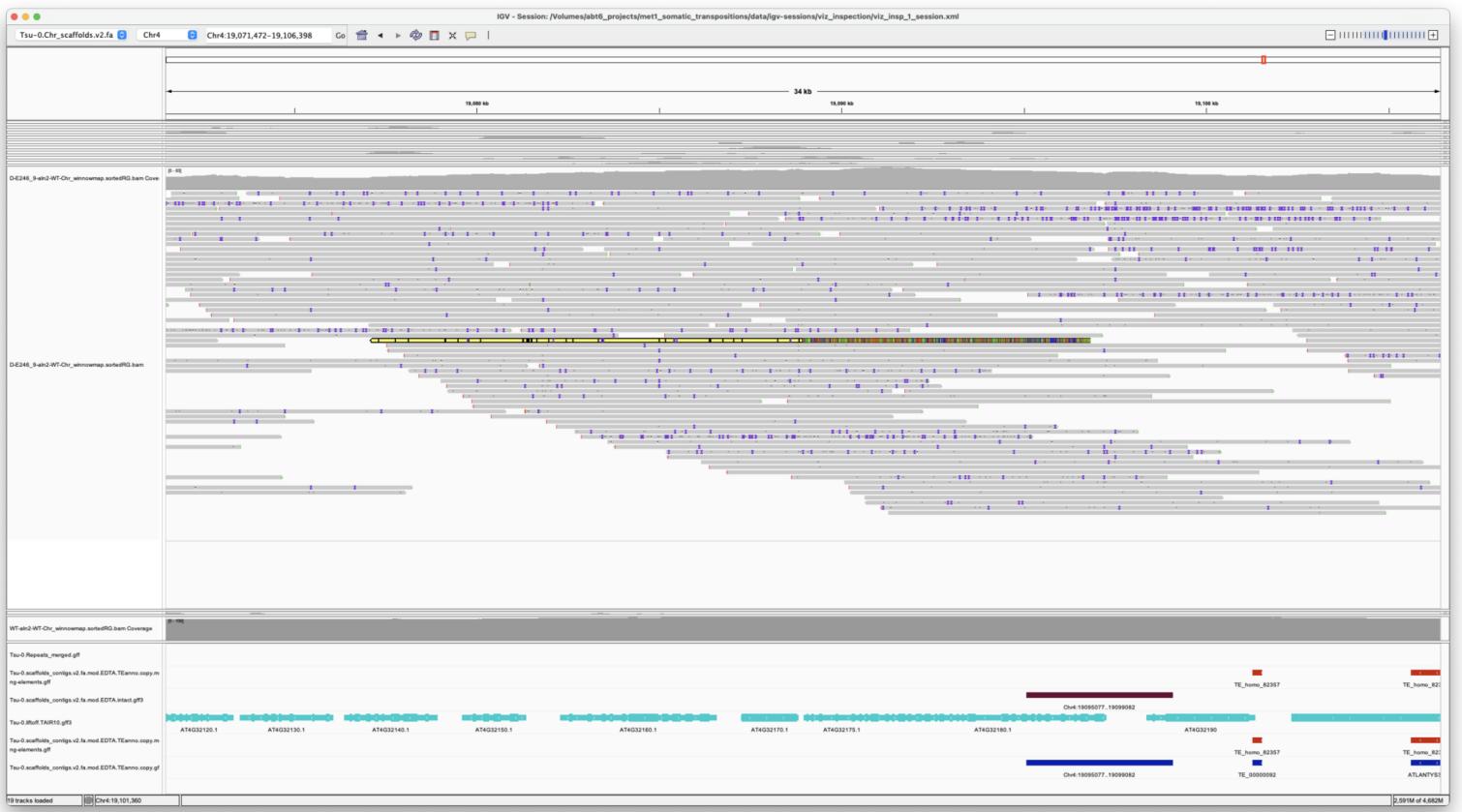
Chr4 18769338 18769338 + 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/45547713/ccs met1_



Partial

Confirmed

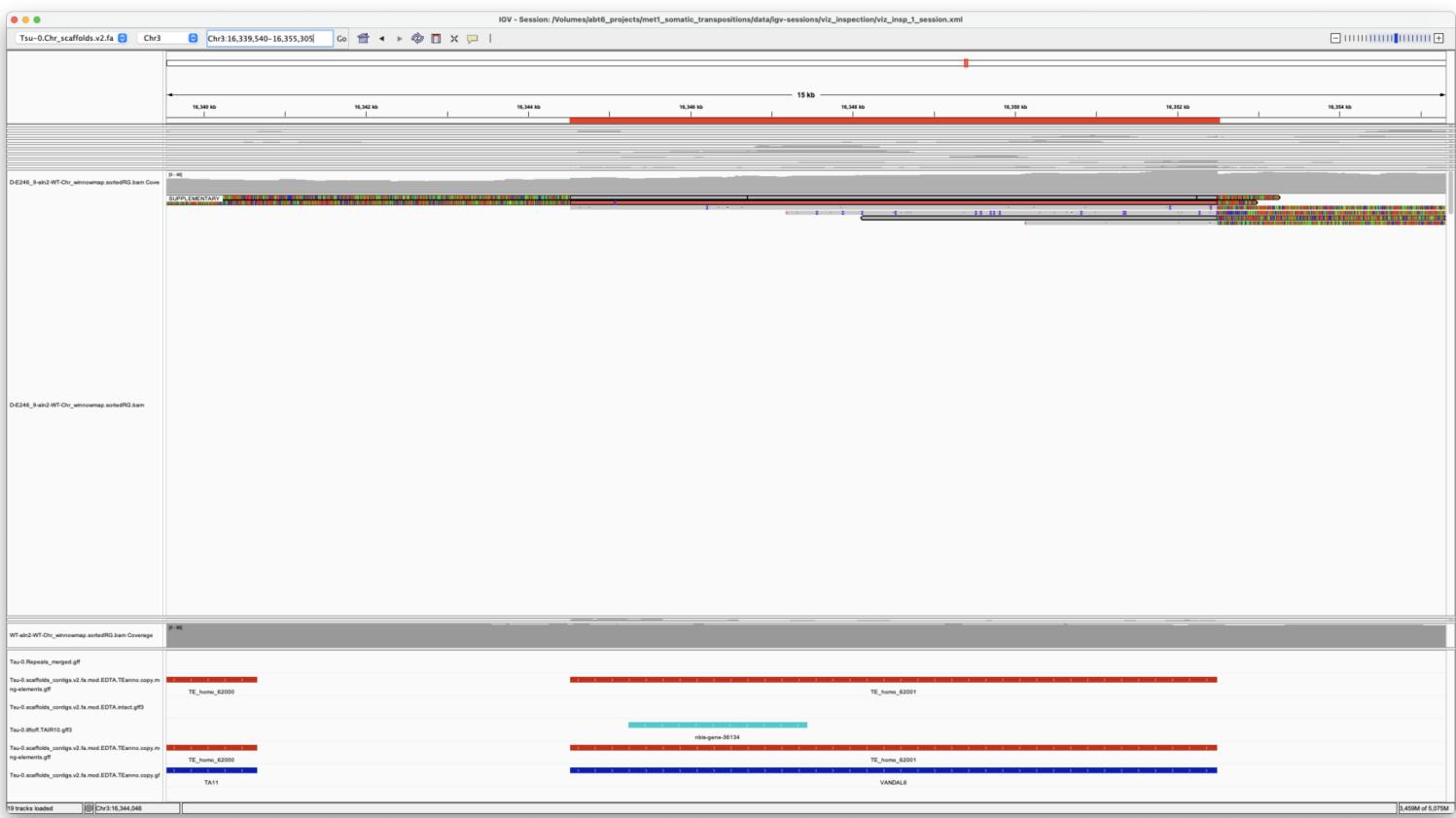
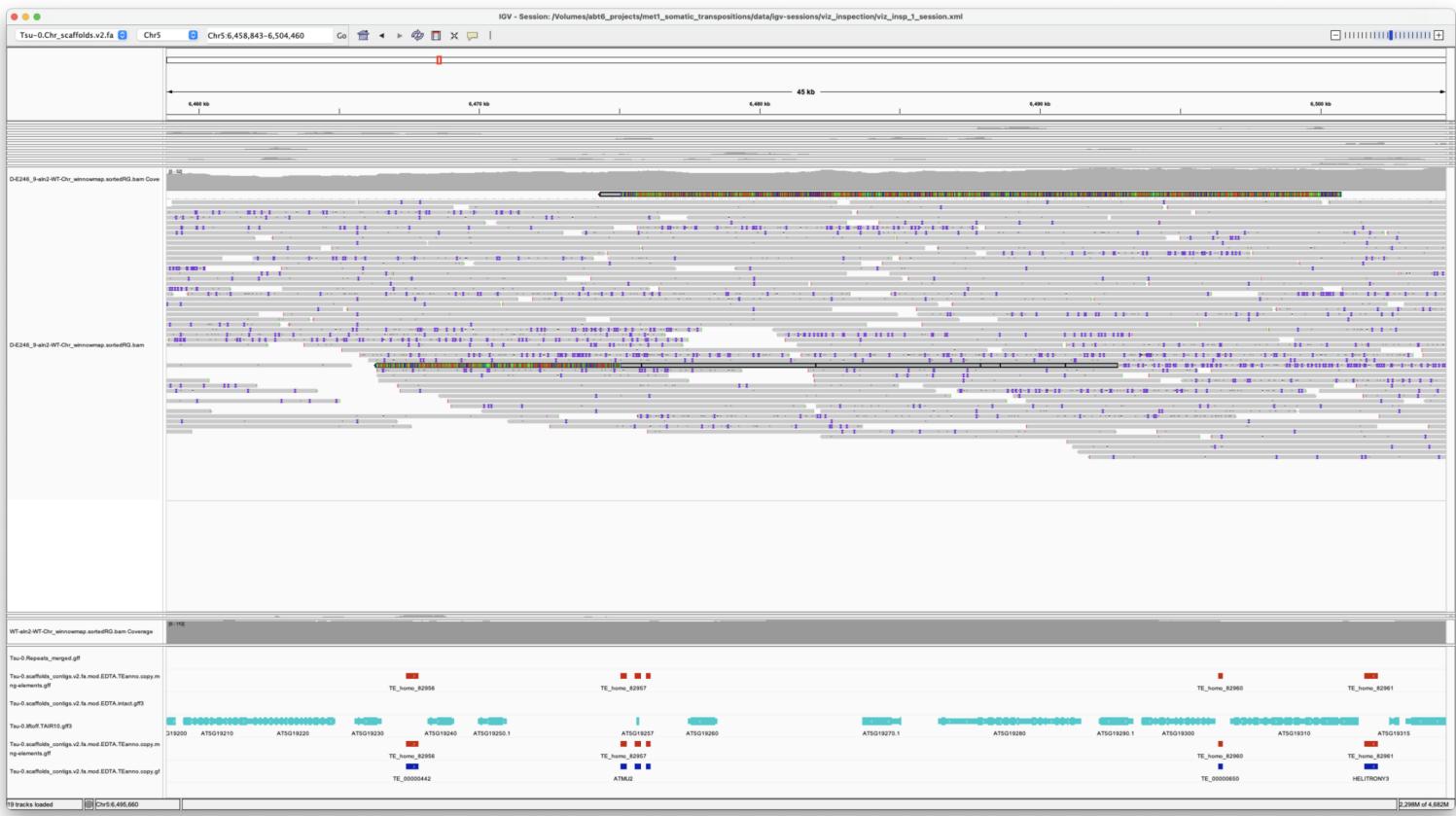
Chr4 19088936 19088936 + 1 Chr5:19152829;19160826;VANDAL21 m64079_240212_113350/175768560/ccs met1_09



Partial

Confirmed

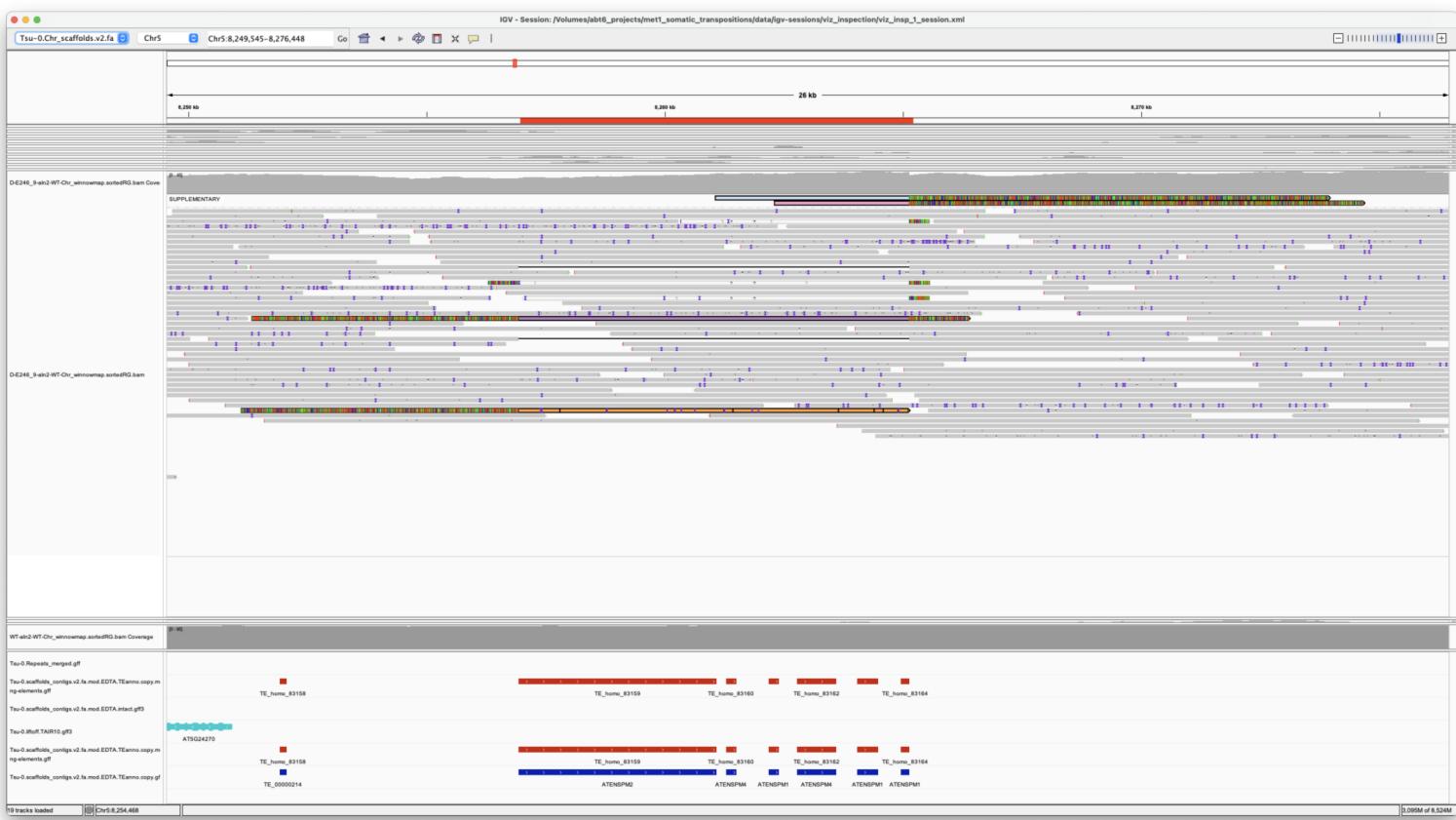
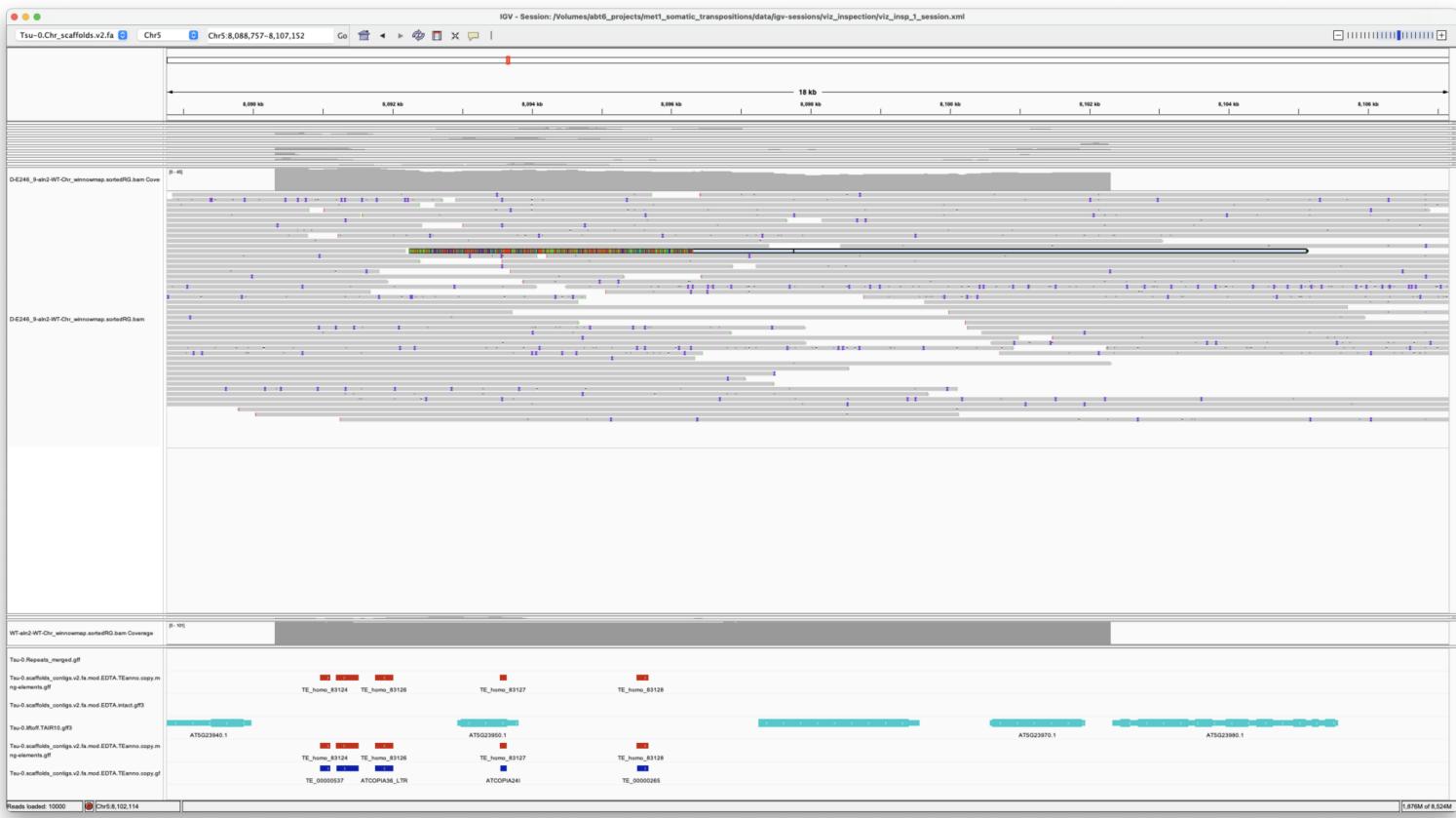
Chr5 6475054 6475054 + 1 Chr3:16344522;16352497;VANDAL6 m64079_221220_112036/60819523/ccs met1_09



Central
TSD

Confirmed

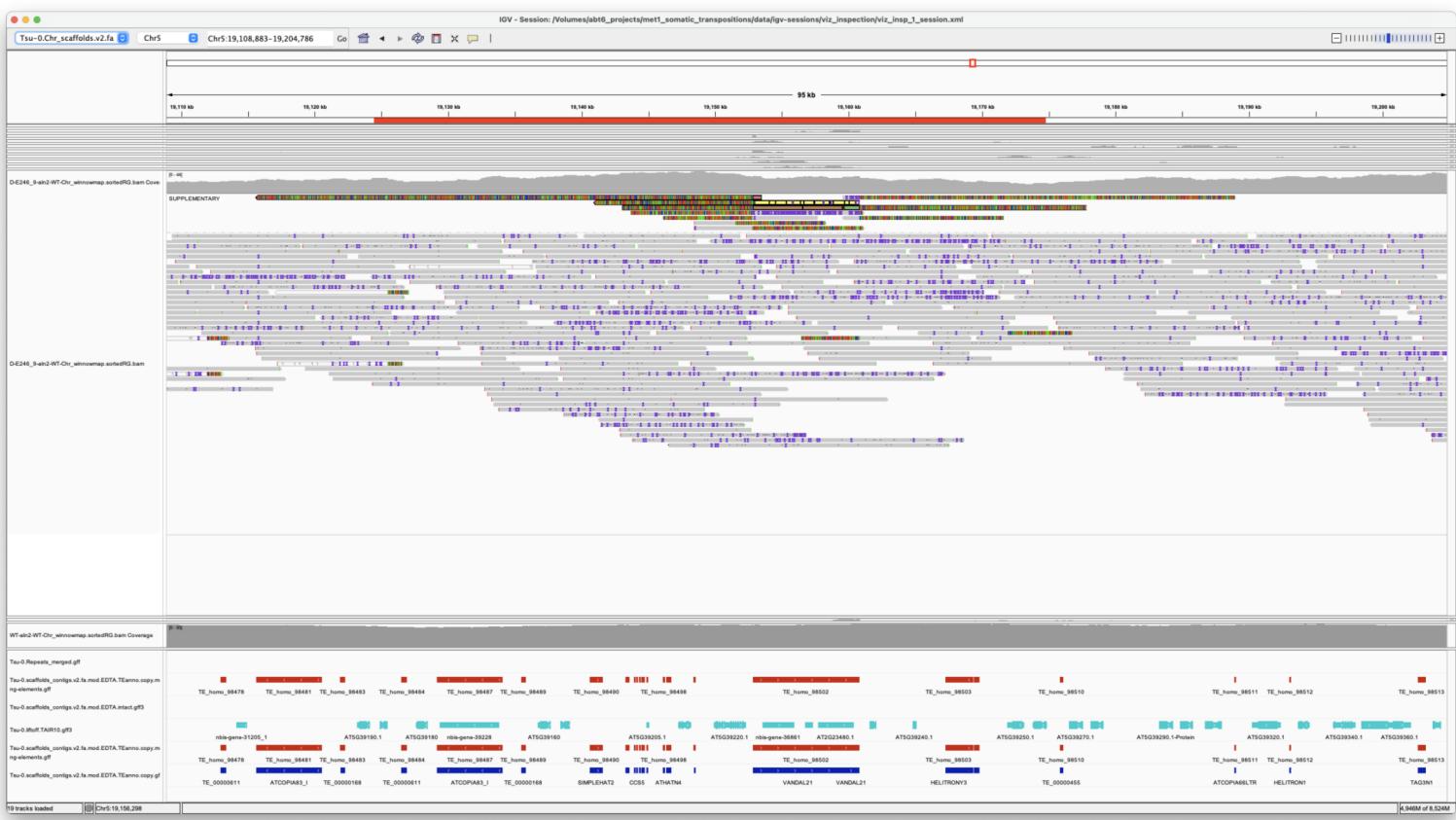
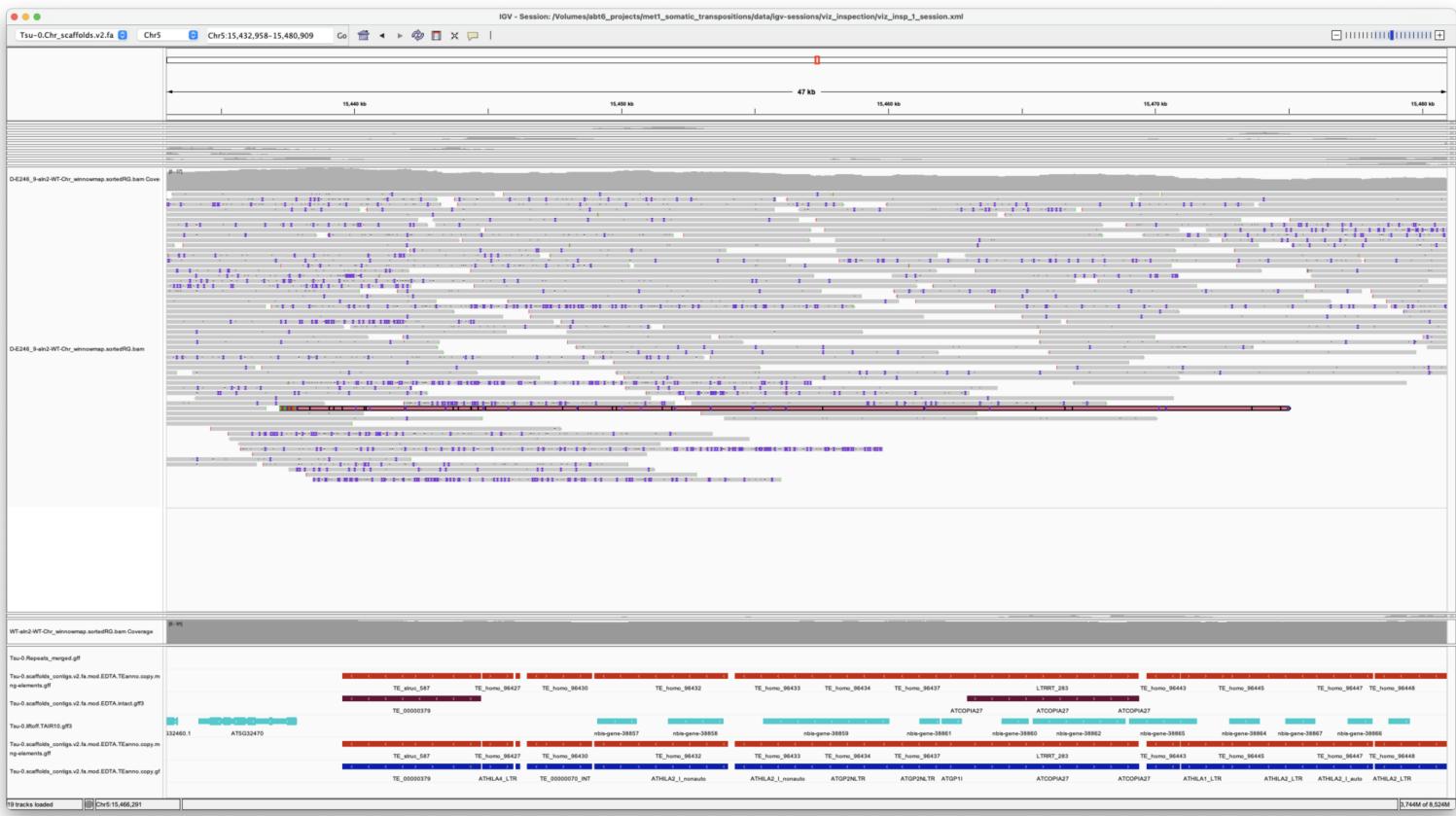
Chr5 8096312 8096312 + 1 Chr5:8256939:8265133;CAC2A m64079_221220_112036/151978242/ccs met1_09



Partial

Confirmed

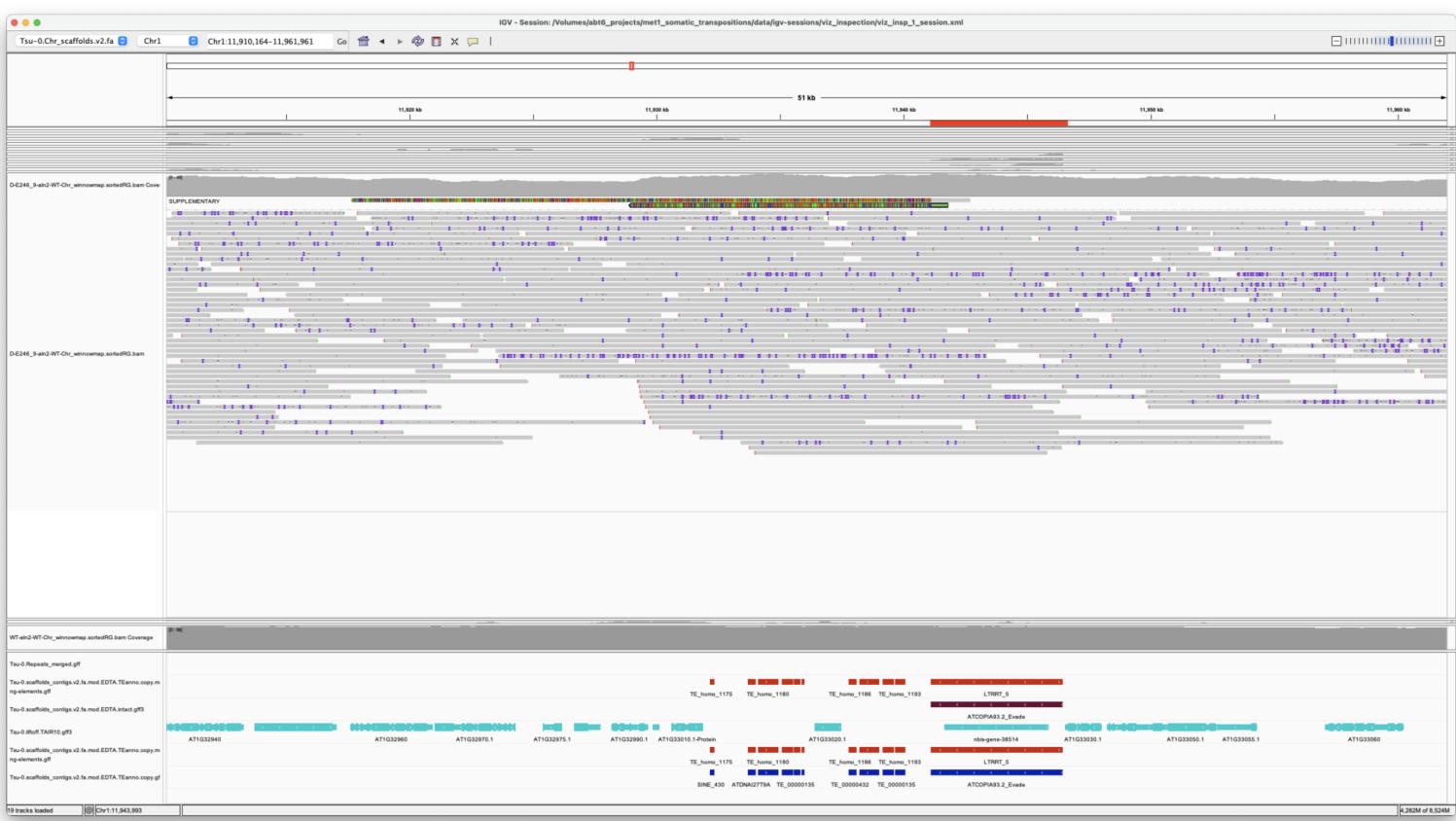
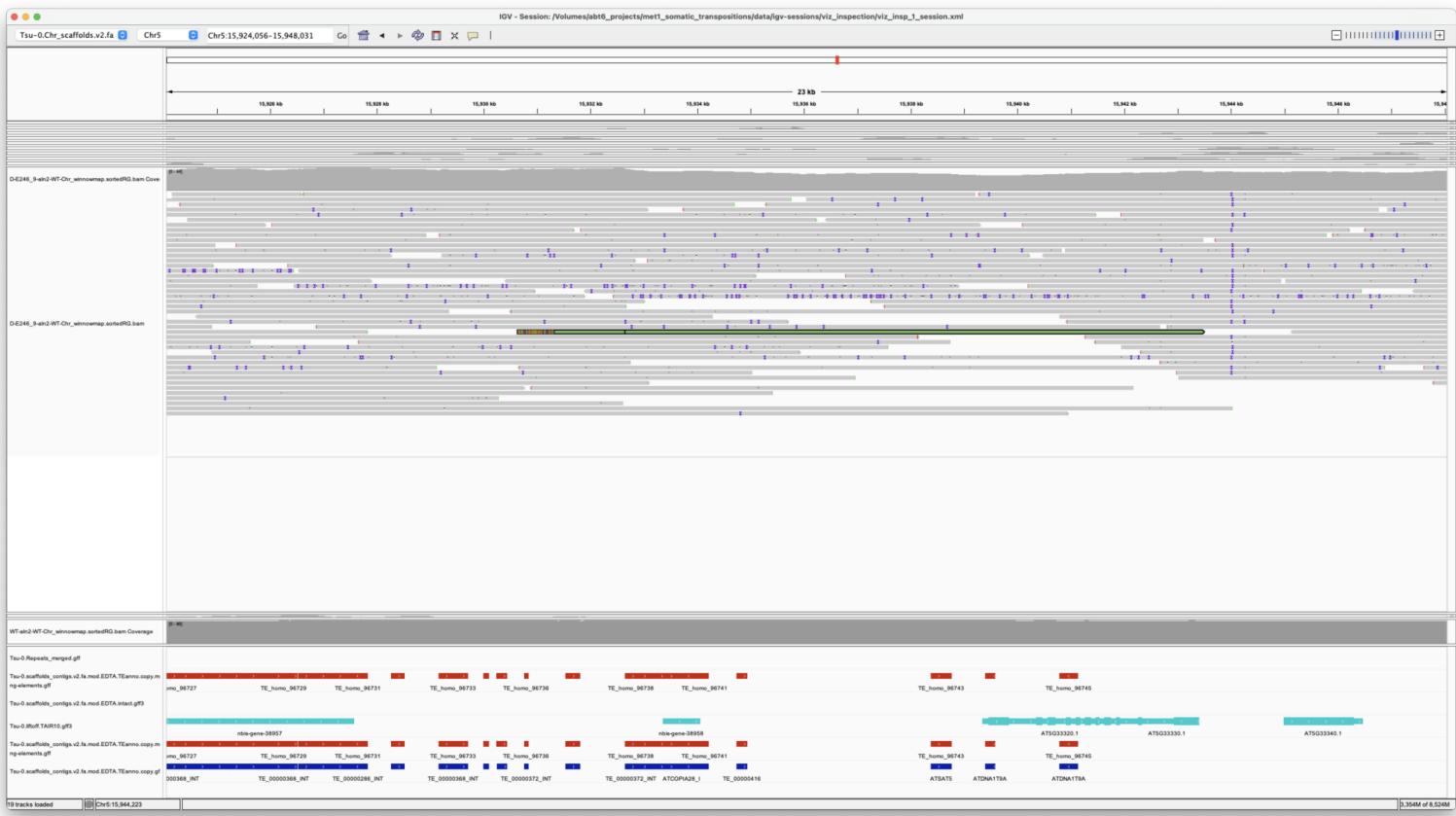
Chr5 15437880 15437880 - 1 Chr5;19152829;19160826;VANDAL21 m64079_240212_113350/130941060/ccs met1_09



Partial

Confirmed

Chr5 15931318 15931318 - 1 Chr1;11941106;11946436;ATCOPA93_Evade m64079_221220_112036/35193719/ccs met1_09



Partial

Confirmed

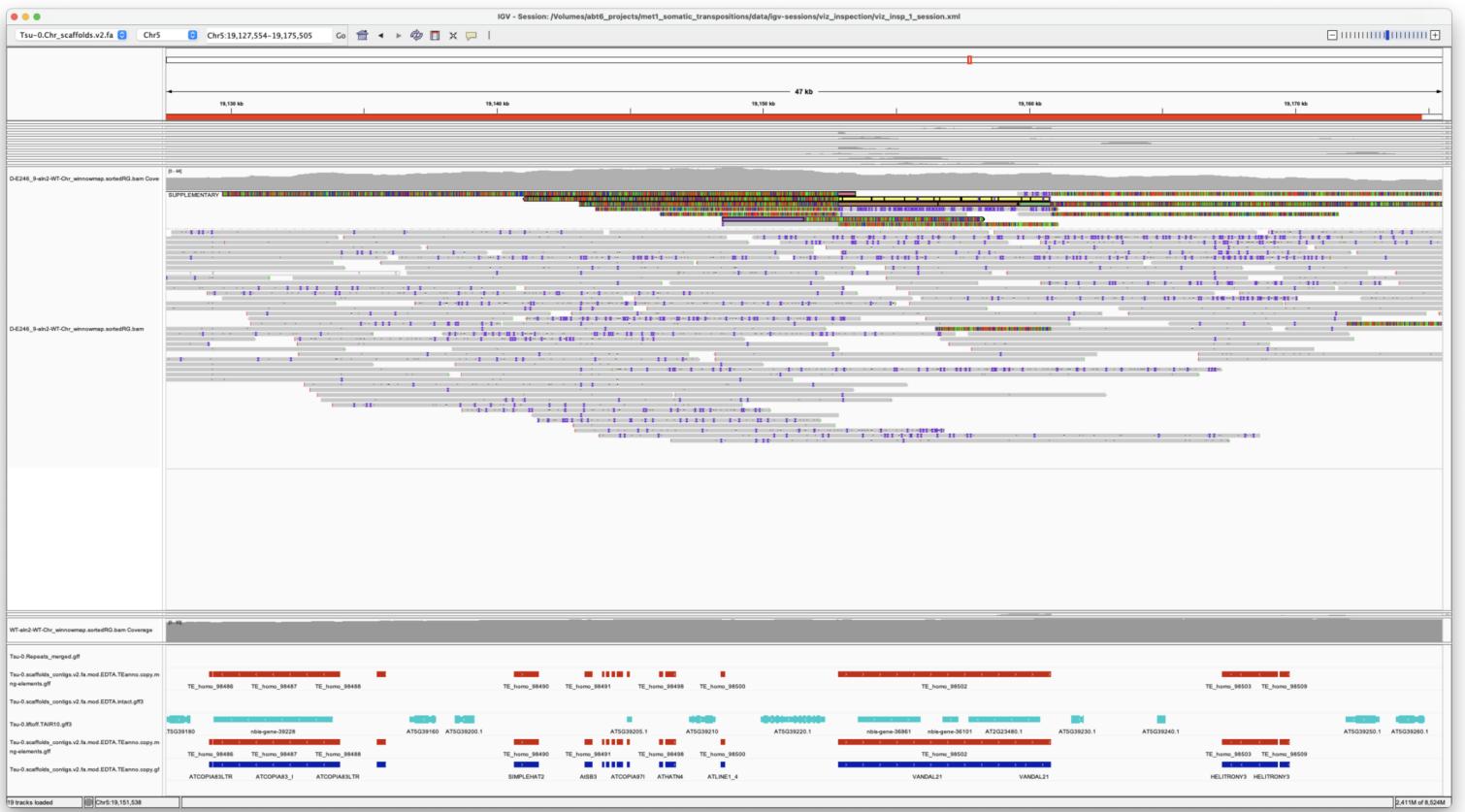
Additional
not detected

m64079_221220_112036/147851825/ccs



Partia

Confirmed



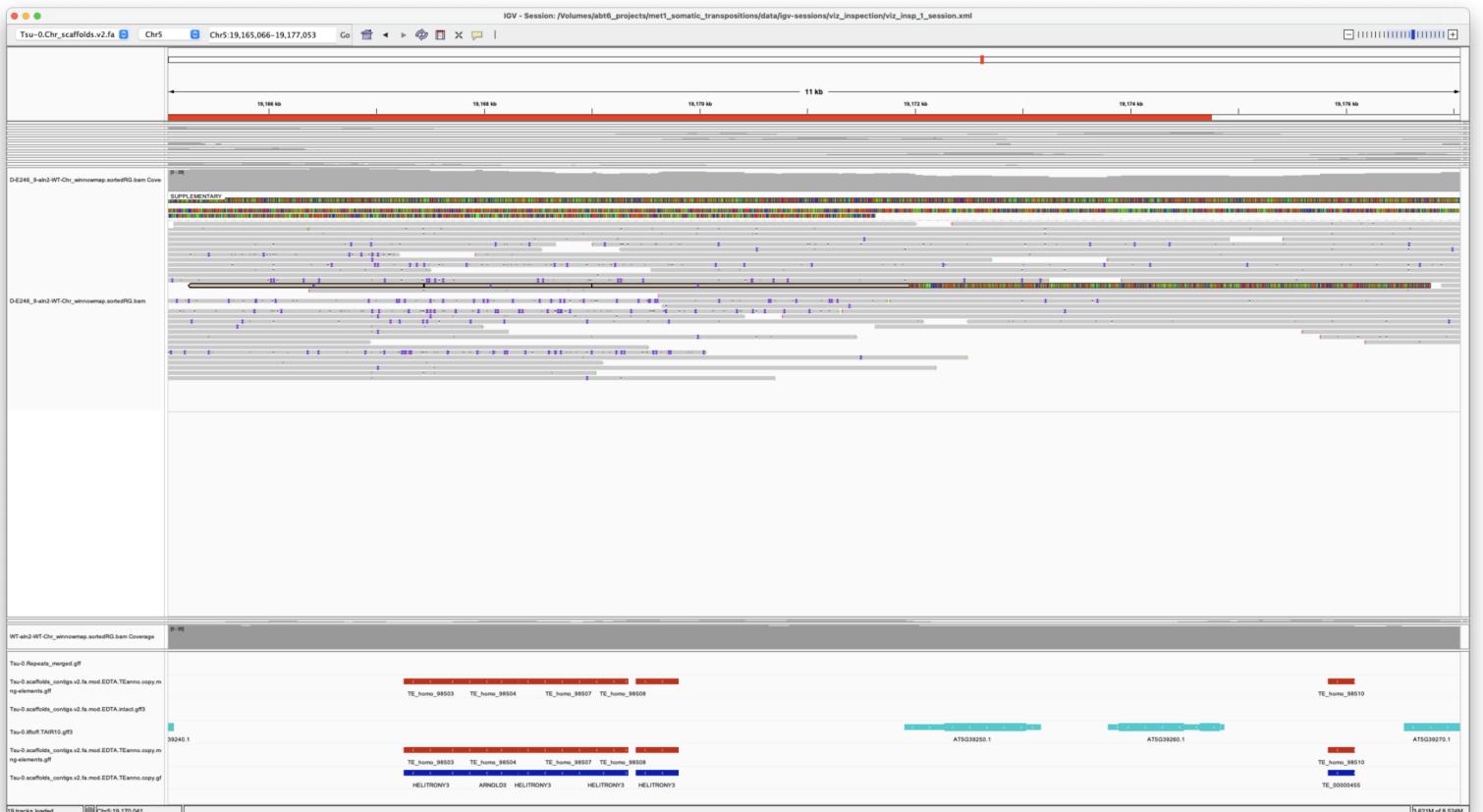
REARRANGEMENT WITH THE OTHER V21 locus subjected to rearrangements, Alternative transpositions

Hypermutable region

Rearrangement

unsupported

Chr5 19171951 19171951 + 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036/112722986/ccs met1_09





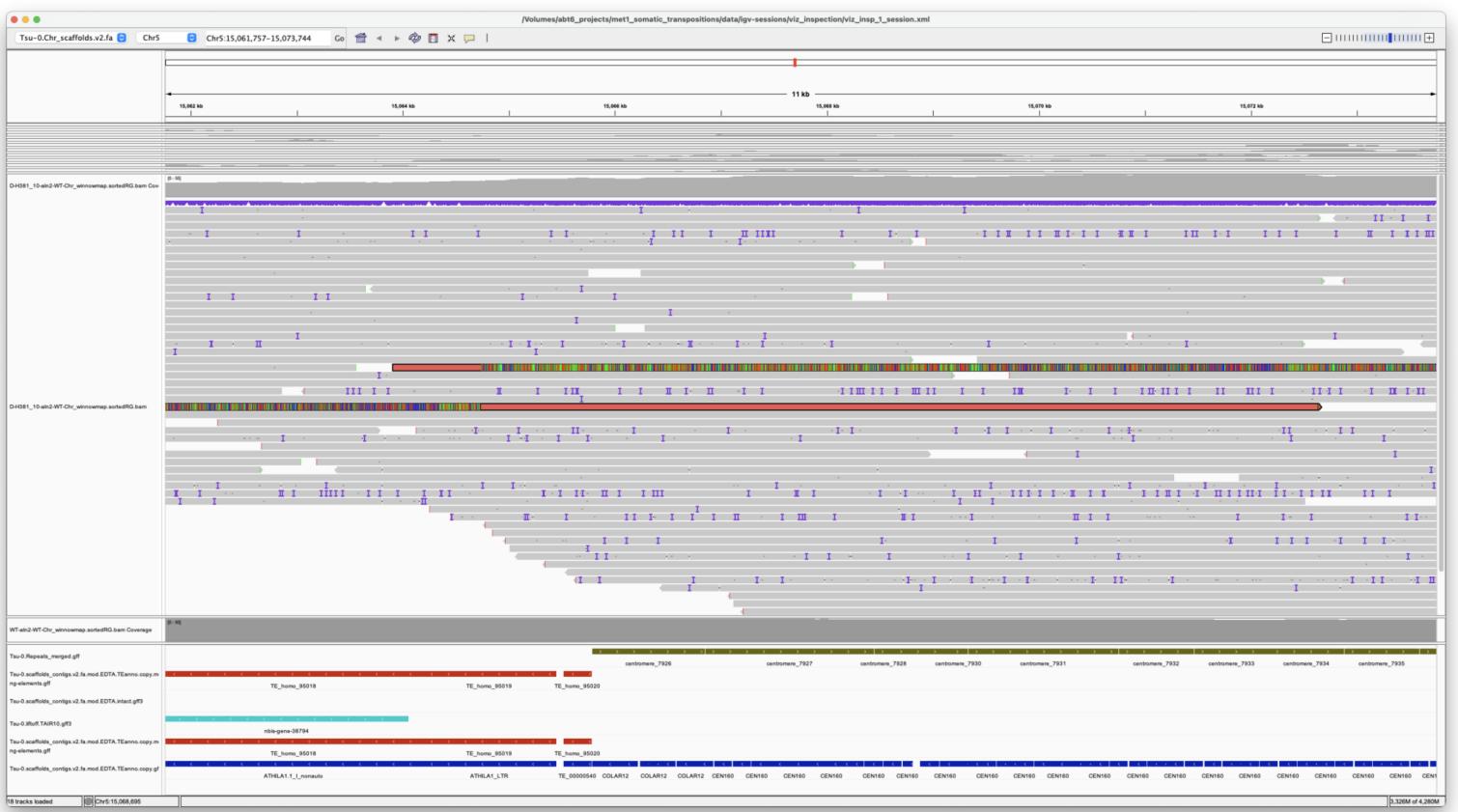
Probably too close to be a transposition

Rearrangement

unsupported

met1_10

DIFFICULT CASE TO AUTOMATE: m64079_221220_112036/101450167/ccs 0 836 Chr5 15063906 15064742 16743 + ATHILA1.1_I_nonauto m64079_221220_112036/101450167/ccs 836 8838 Chr5 19152825 19160827 16743 + VANDAL21 m64079_221220_112036/101450167/ccs 8836 16742 Chr5 15064732 15072638 16743 + .

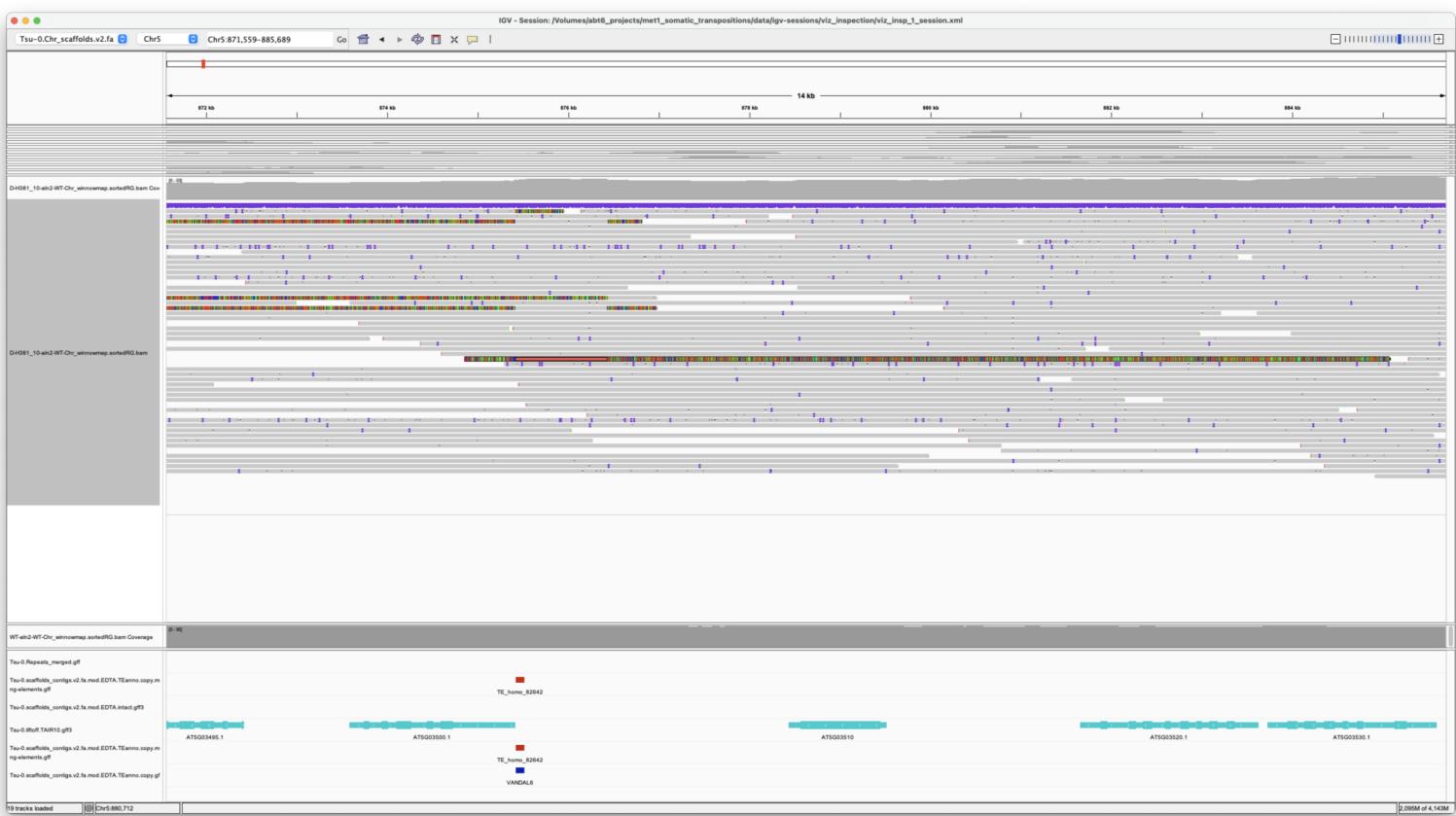
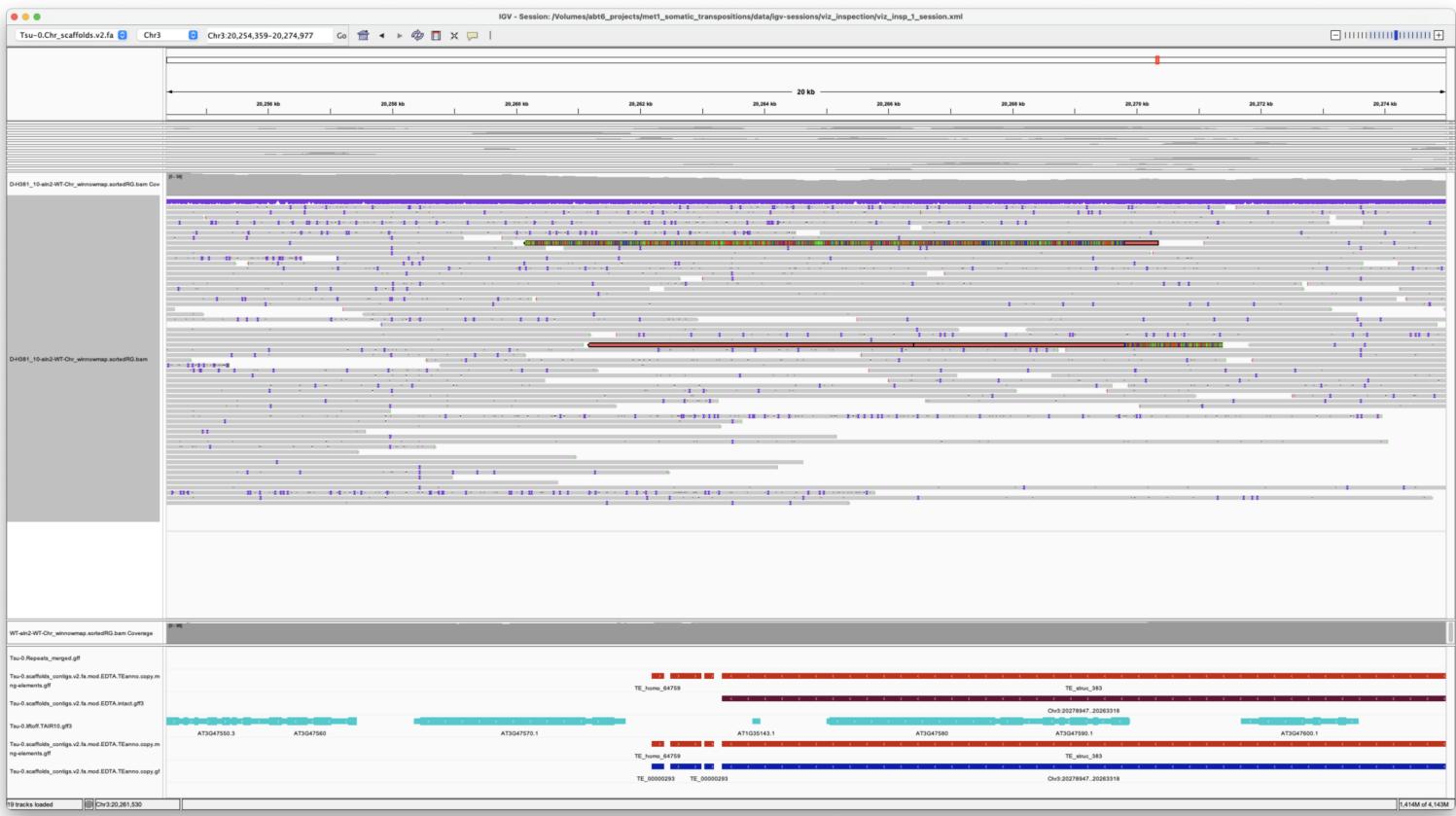




Central
TSD

Confirmed

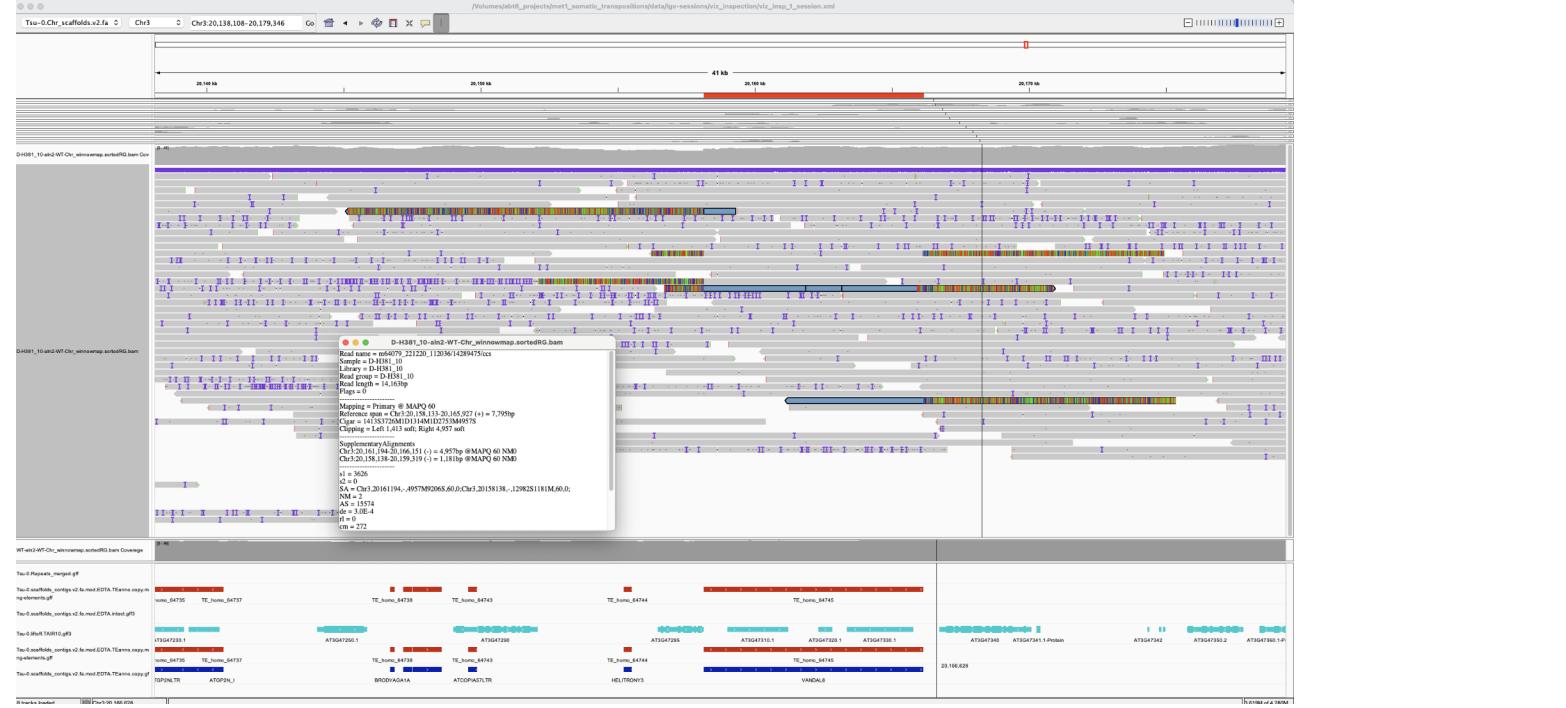
DIFFICULT CASE TO AUTOMATE: m64079_221220_112036/102368776/ccs 0 551 Chr3 20269803 20270354 10204 - Chr3:20278947..20263318 m64079_221220_112036/102368776/ccs 551 1575 Chr5 875413 876437 10204 + Putative DIFFICULT CASE TO AUTOMATE: m64079_221220_112036/102368776/ccs 0 551 Chr3 20269803 20270354 10204 - Chr3:20278947..20263318 m64079_221220_112036/102368776/ccs 551 1575 Chr5 875413 876437 10204 + PACm64079_221220_112036/102368776/ccs 1570 10204 Chr3 20261179 20269814 10204 - . met1_10PAC m64079_221220_112036/102368776/ccs 1570 10204 Chr3 20261179 20269814 10204 - . met1_10



Central
TSD

Confirmed

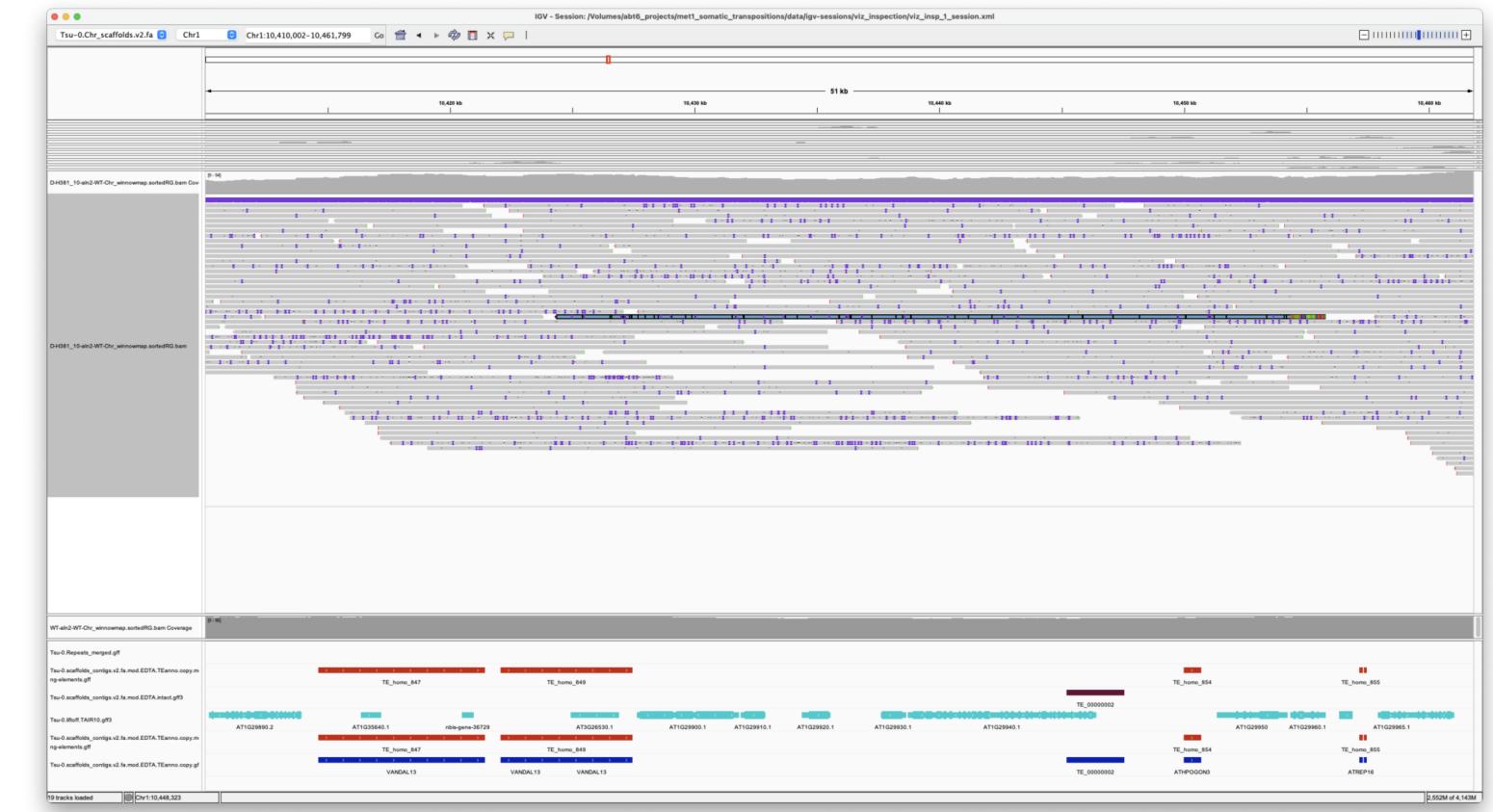
DIFFICULT CASE TO AUTOMATE: m64079_221220_112036/14289475/ccs 0 1181 Chr3 20158137 20159318 14163 - VANDAL6 m64079_221220_112036/14289475/ccs 1413 9206 Chr3 20158132 20165927 14163 + VANDAL6 m64079_221220_112036/14289475/ccs 9206 14163 Chr3 20161193 20166150 14163 - VANDAL6

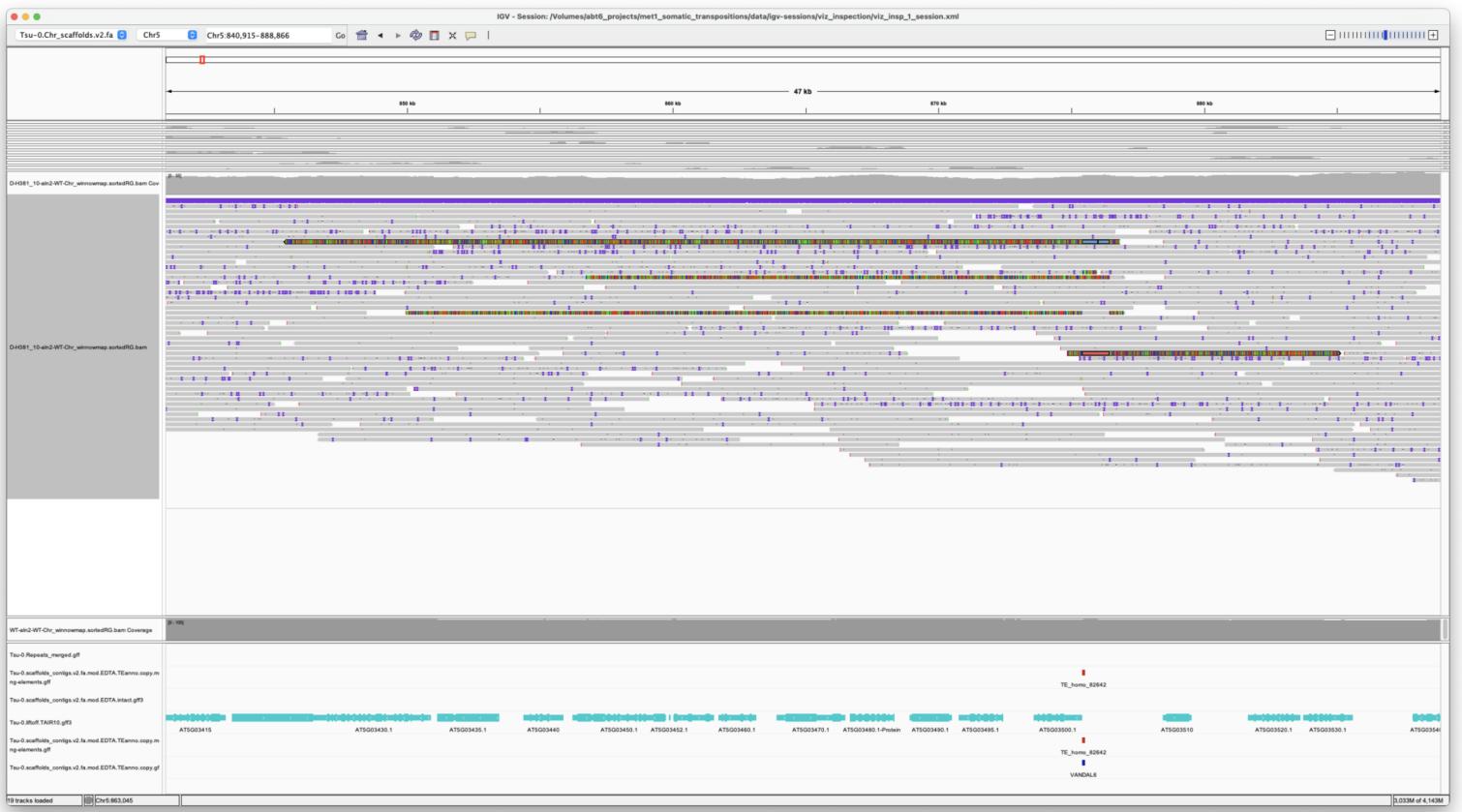


it is a rearrangement inversion with duplication!

unsupported

Chr1 10454365 10454365 + 1 Chr5:875414;876434;PAC m64079_221220_112036/177408517/ccs met1_10



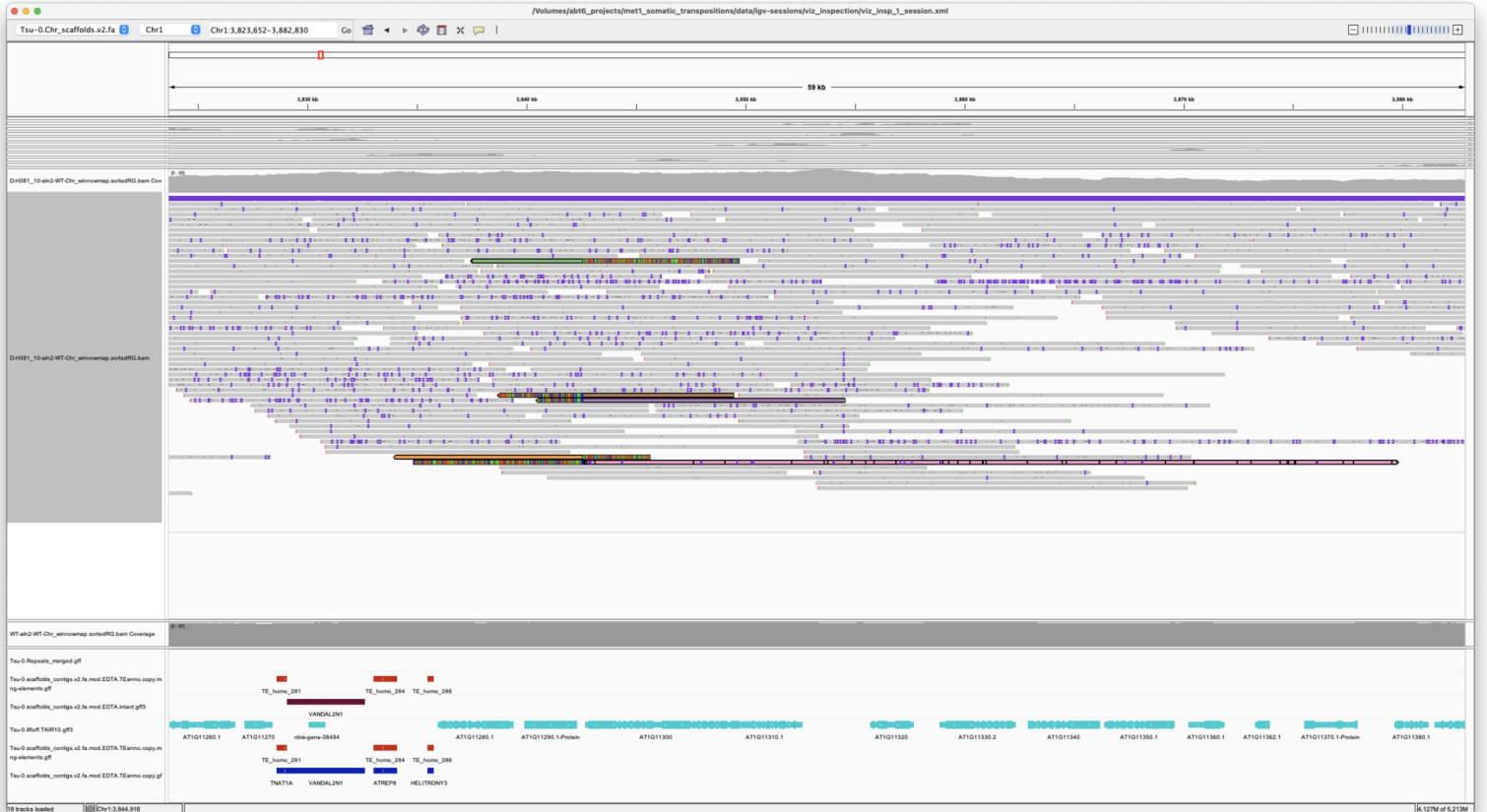


Partial

Confirmed

Chr1 3842584 3842586 -- 3 Chr3;16344522;16352497;VANDAL6,Chr3;16344522;16352497;VANDAL6,Chr3;16344522;16352497;VANDAL6
m64079_221220_112036/145426603/ccs,m64079_221220_112036/86837412/ccs,m64079_240212_113350/93847777/ccs met1_10

Chr1 3842593 3842595 -- 2 Chr3;16344522;16352497;VANDAL6,Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/12387756/ccs,m64079_221220_112036/66126715/ccs met1_10

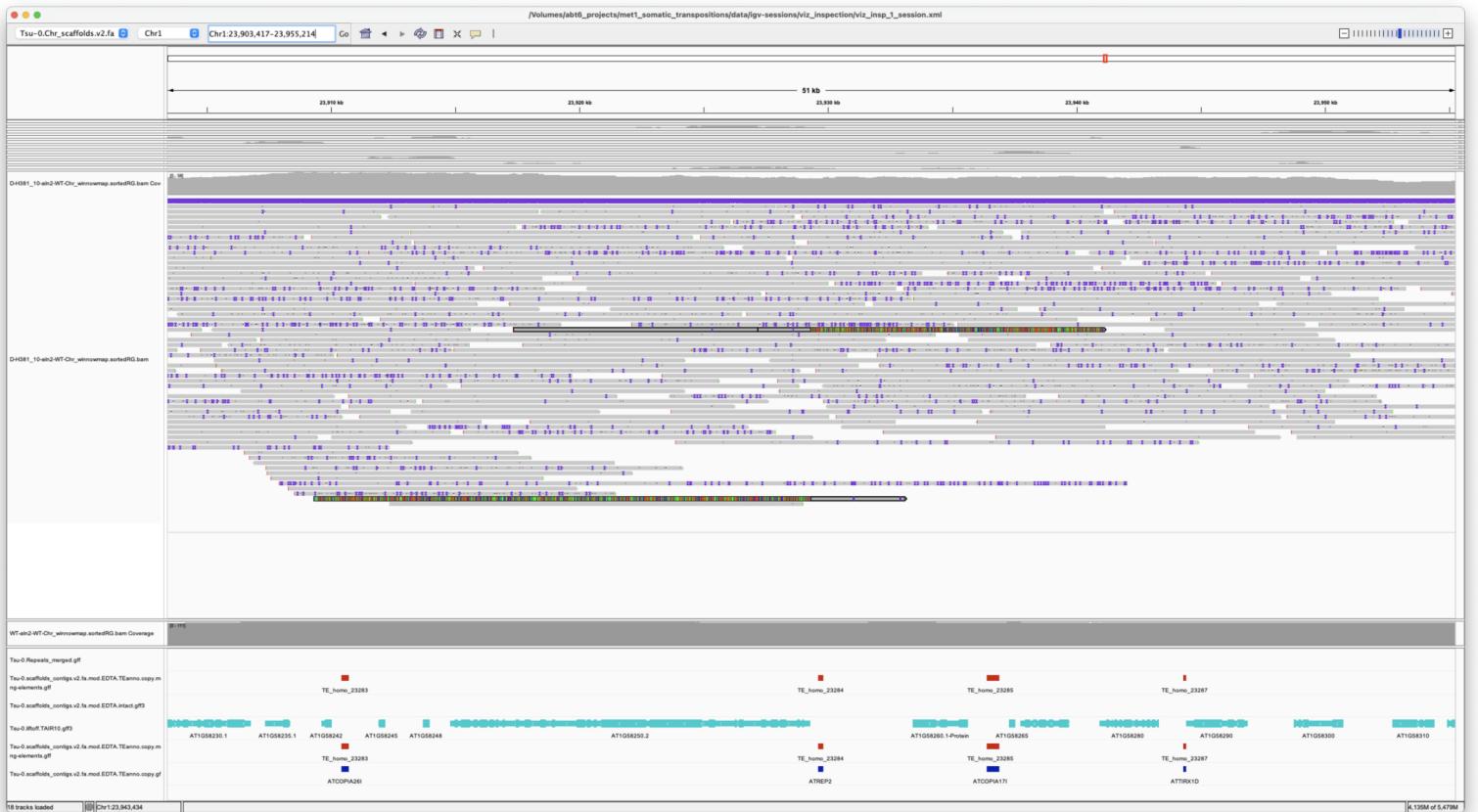


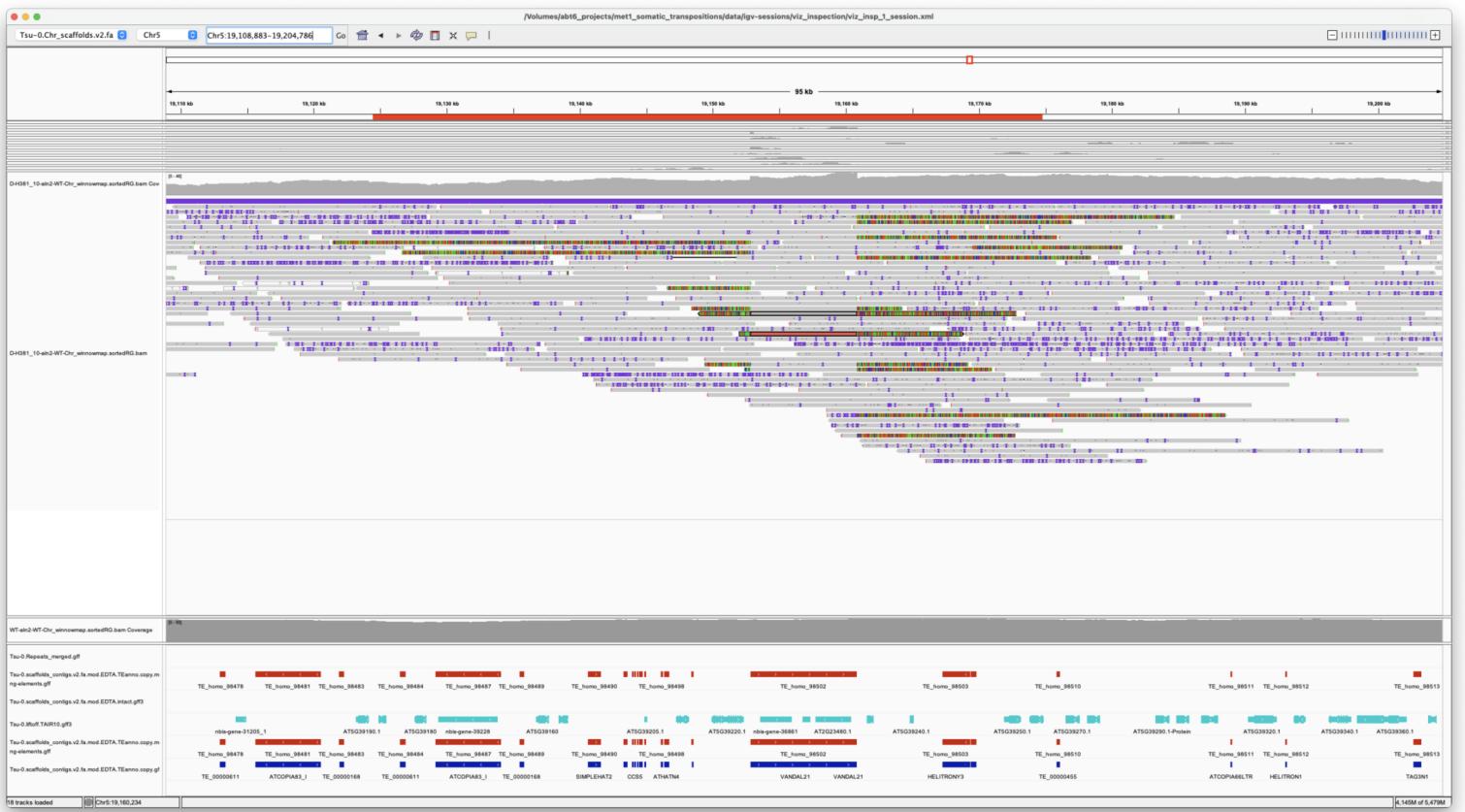


Partial

Confirmed

Chr1 23929316 23929316 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/163251438/ccs met1_10

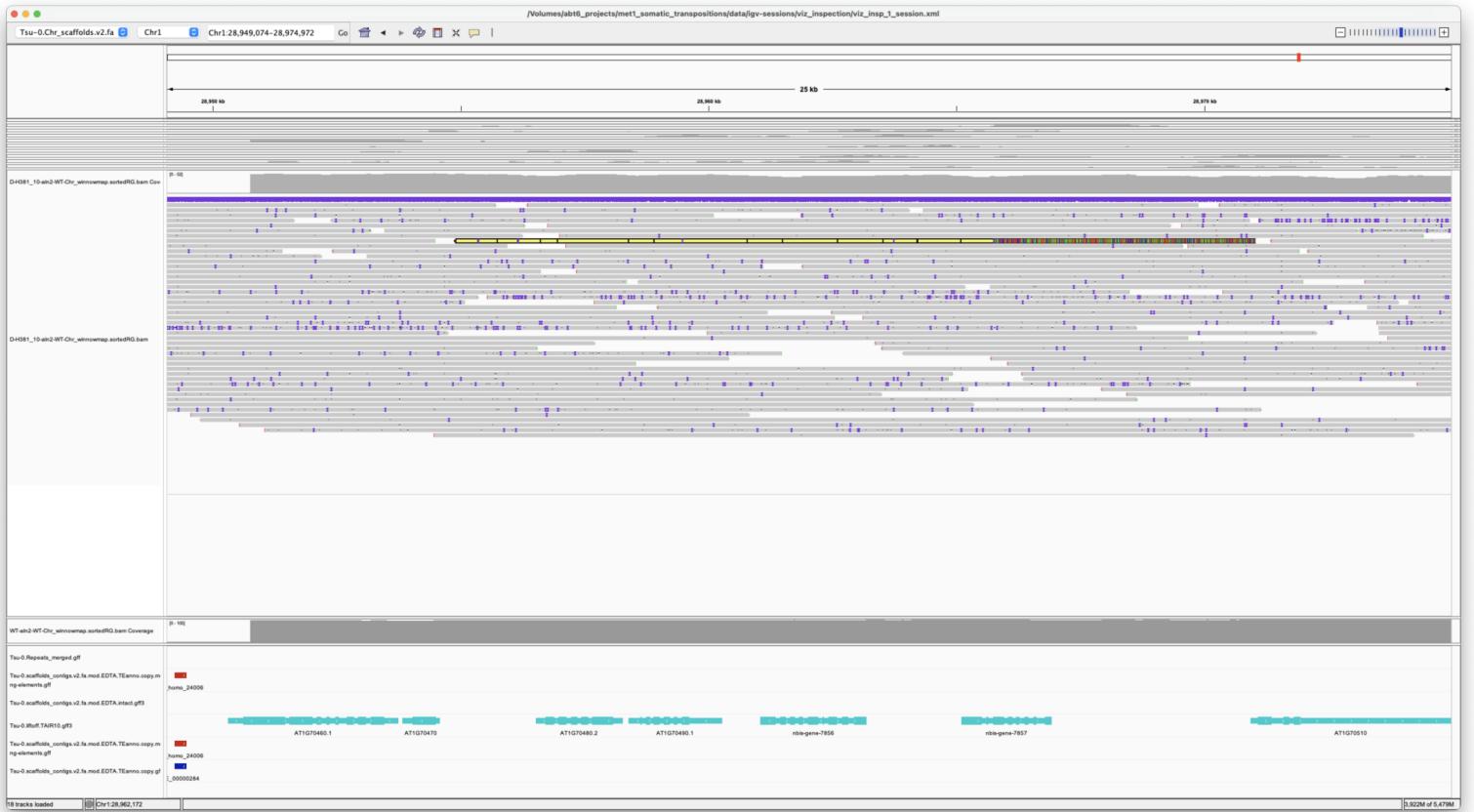


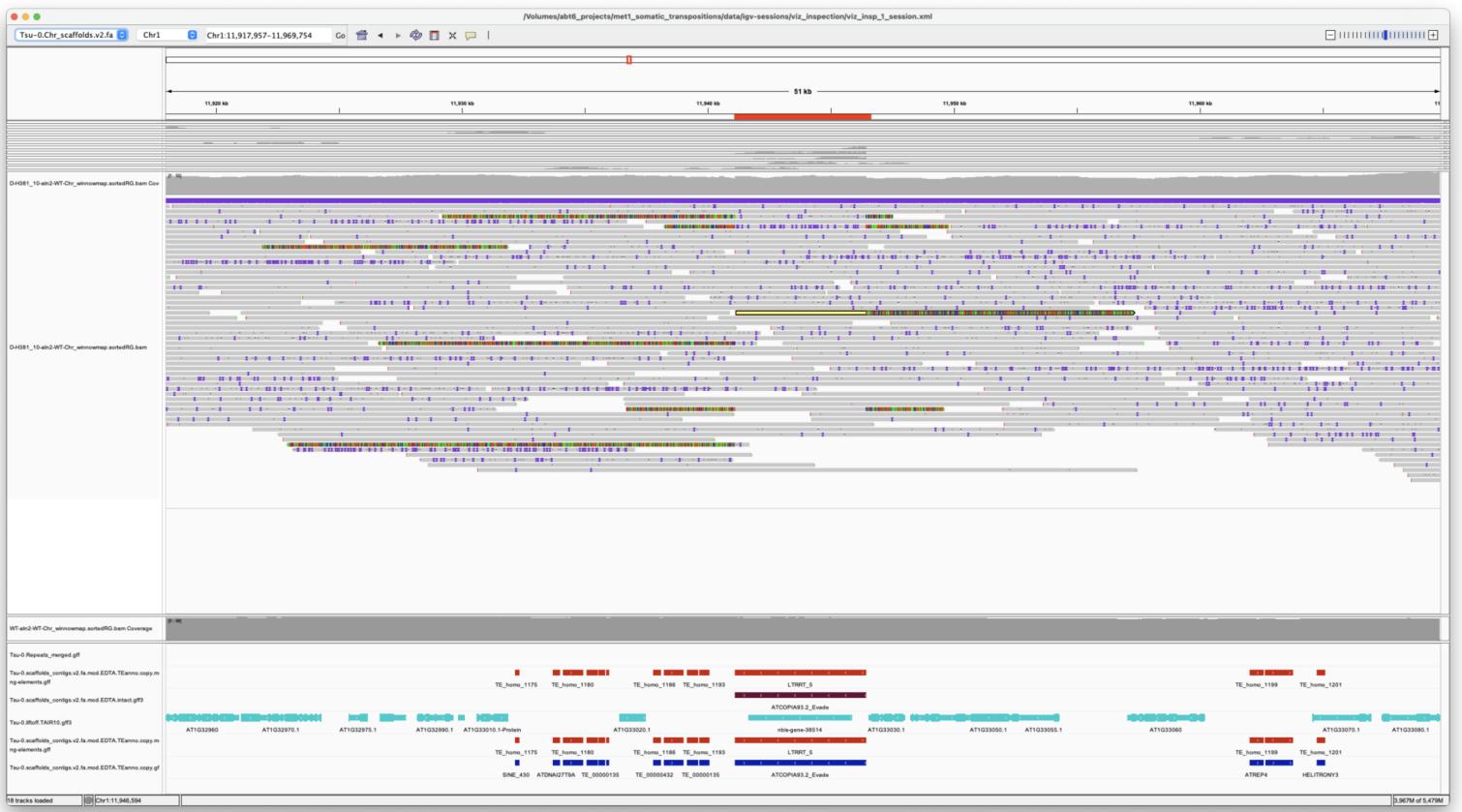


Central
TSD

Confirmed

Chr1 28965760 28965760 - 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/143788169/ccs met1_10

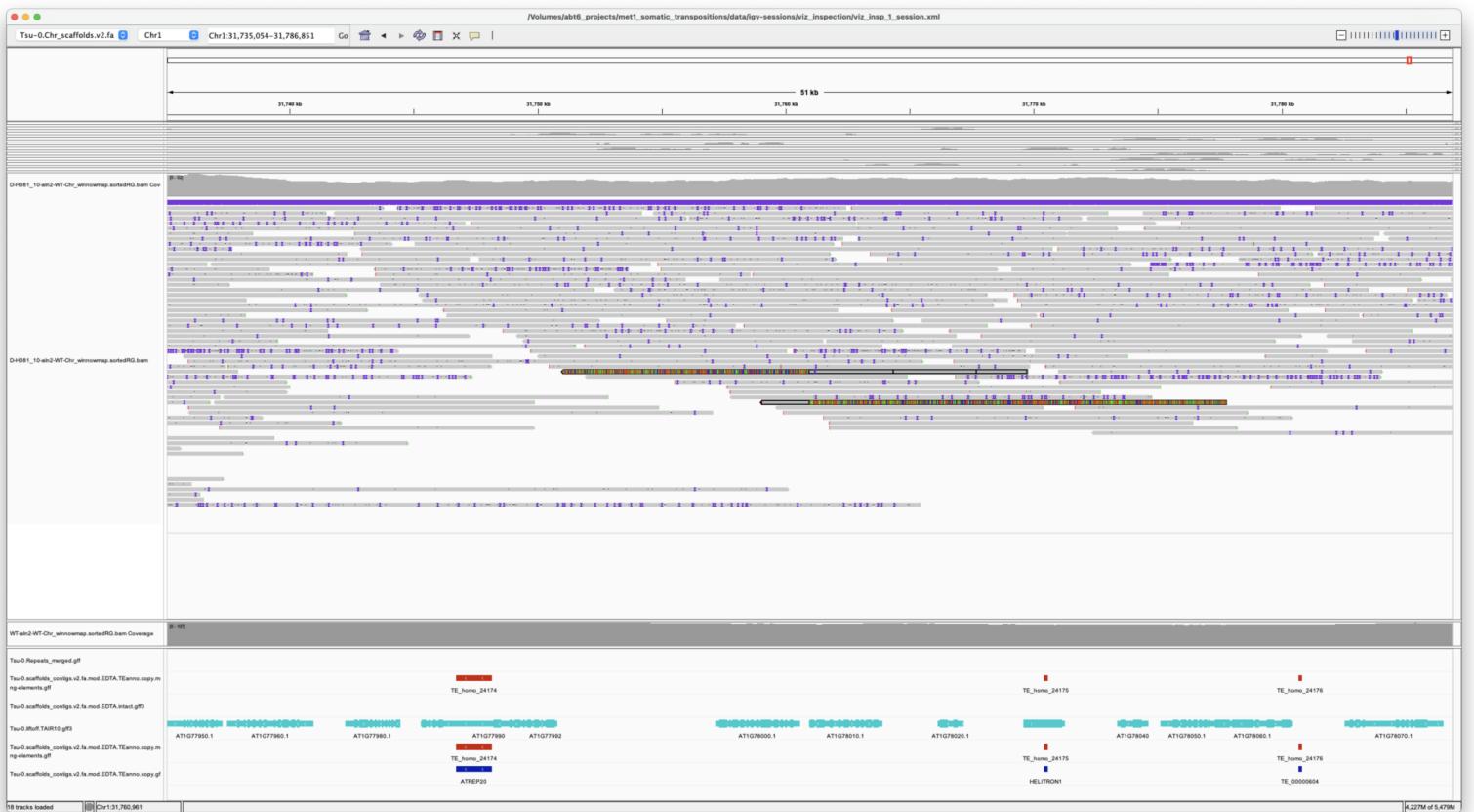


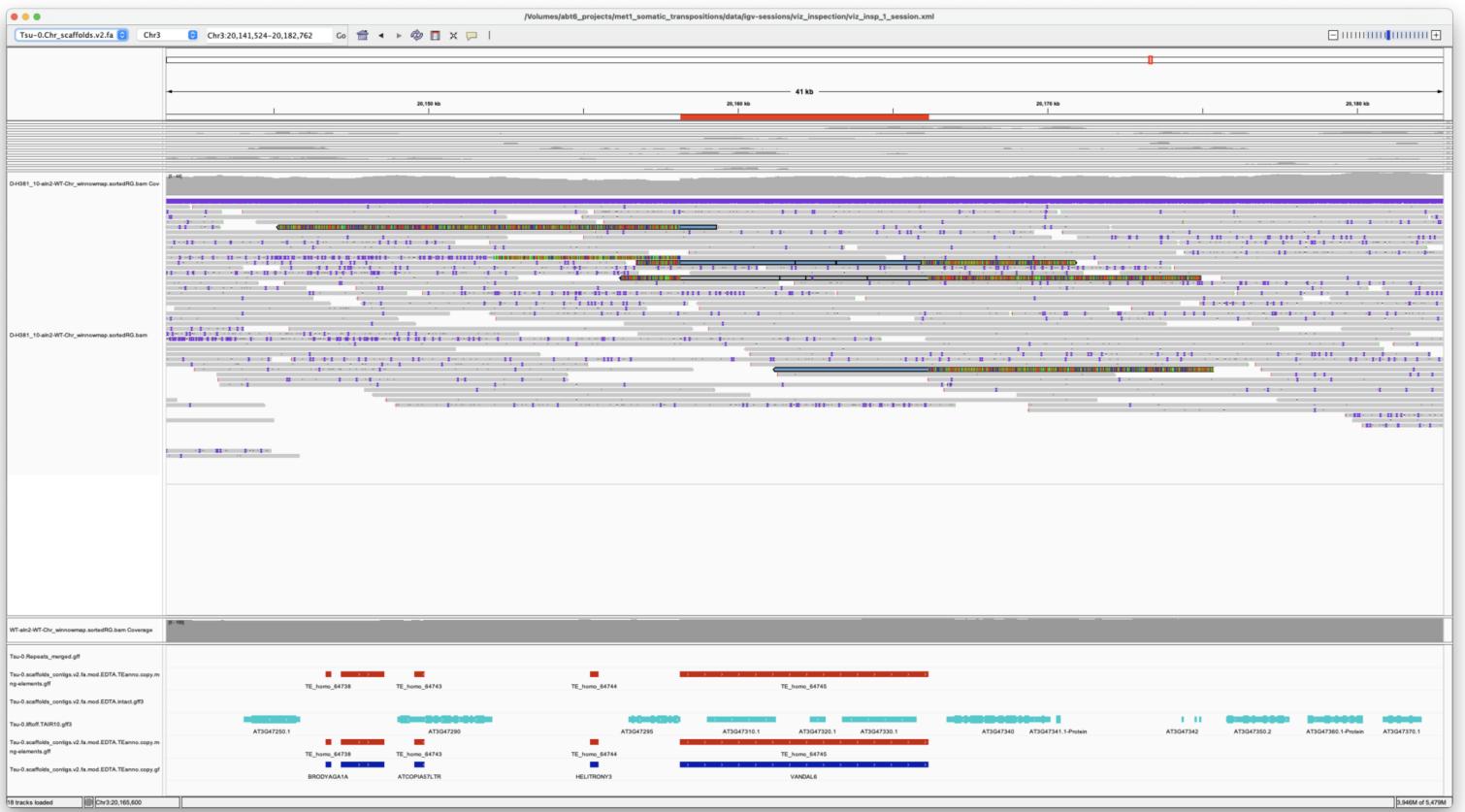


Partial

Confirmed

Chr1 31760953 31760953 + 1 Chr3;20158137;20166150;VANDAL6 m64079_221220_112036/151979729/ccs met1_10

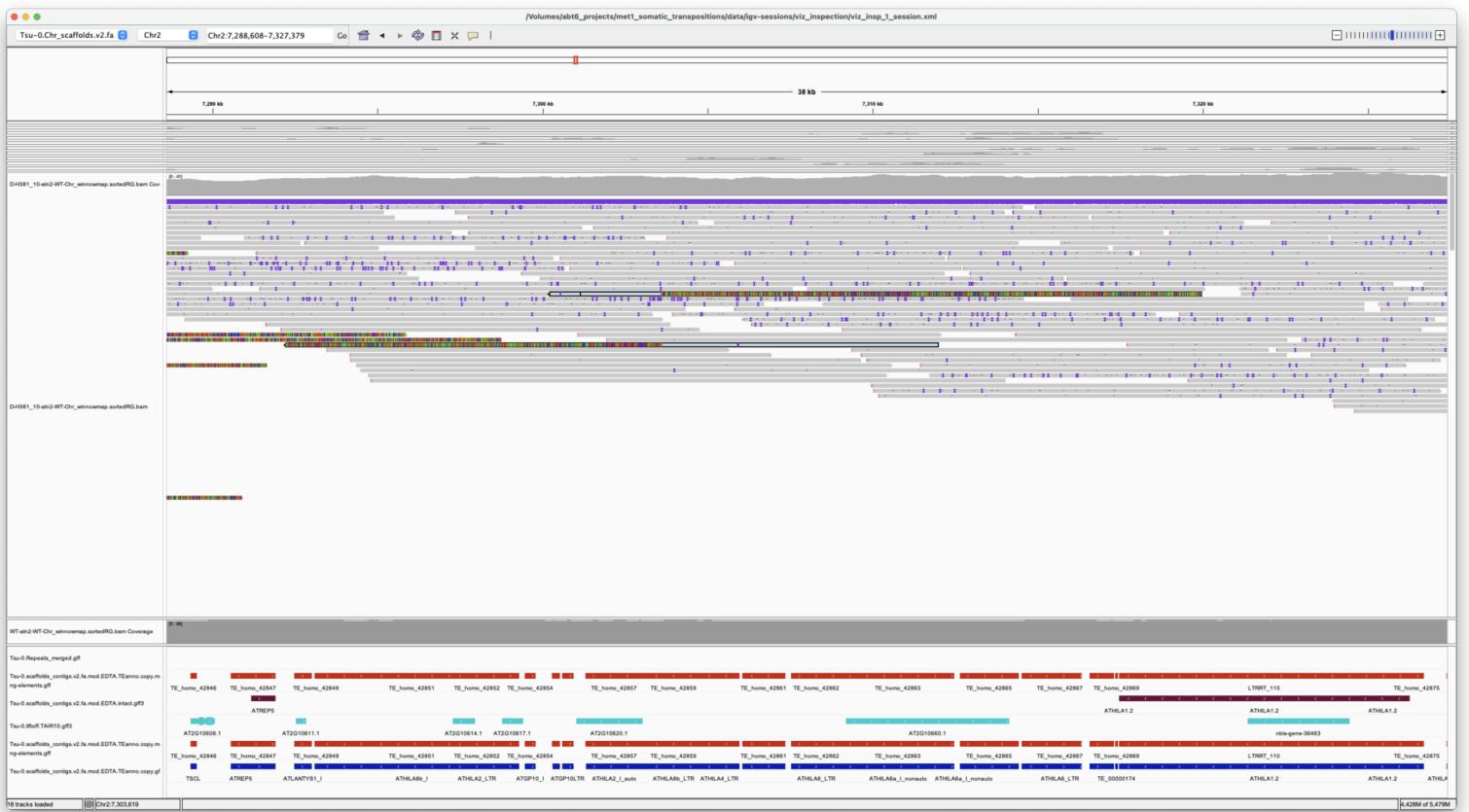


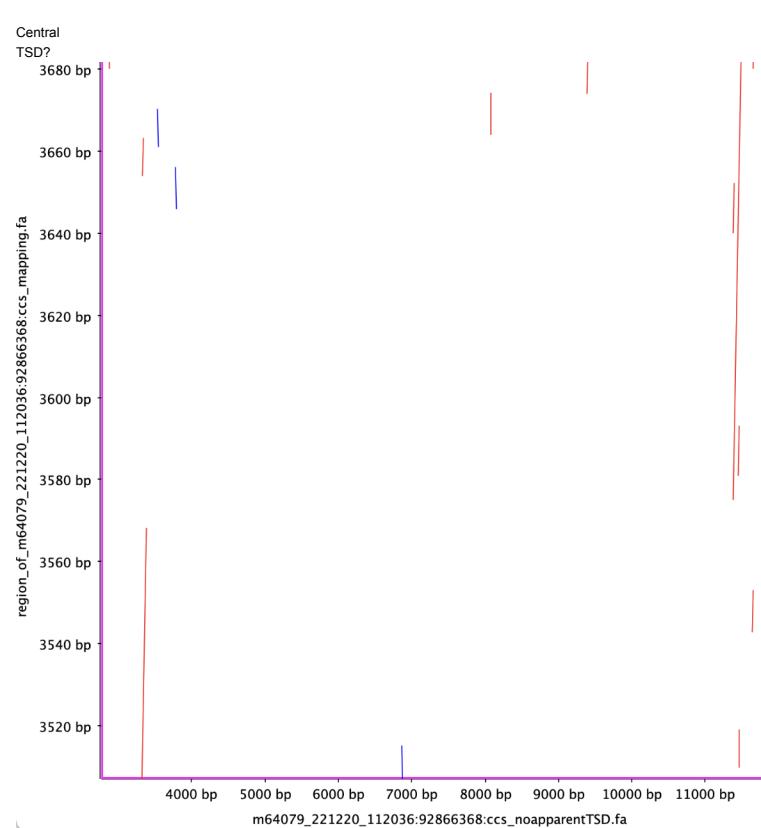
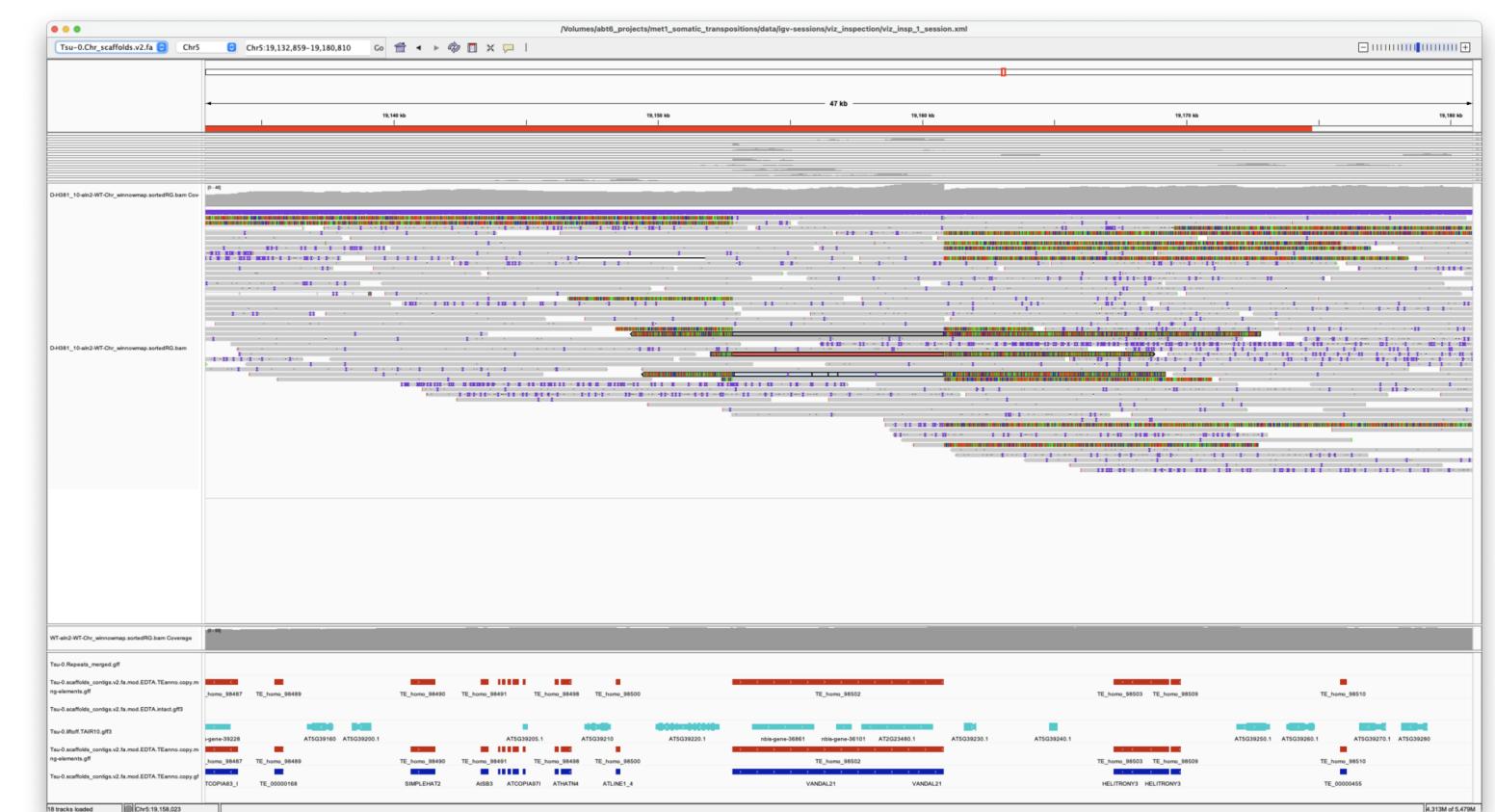


Central
TSD

Confirmed

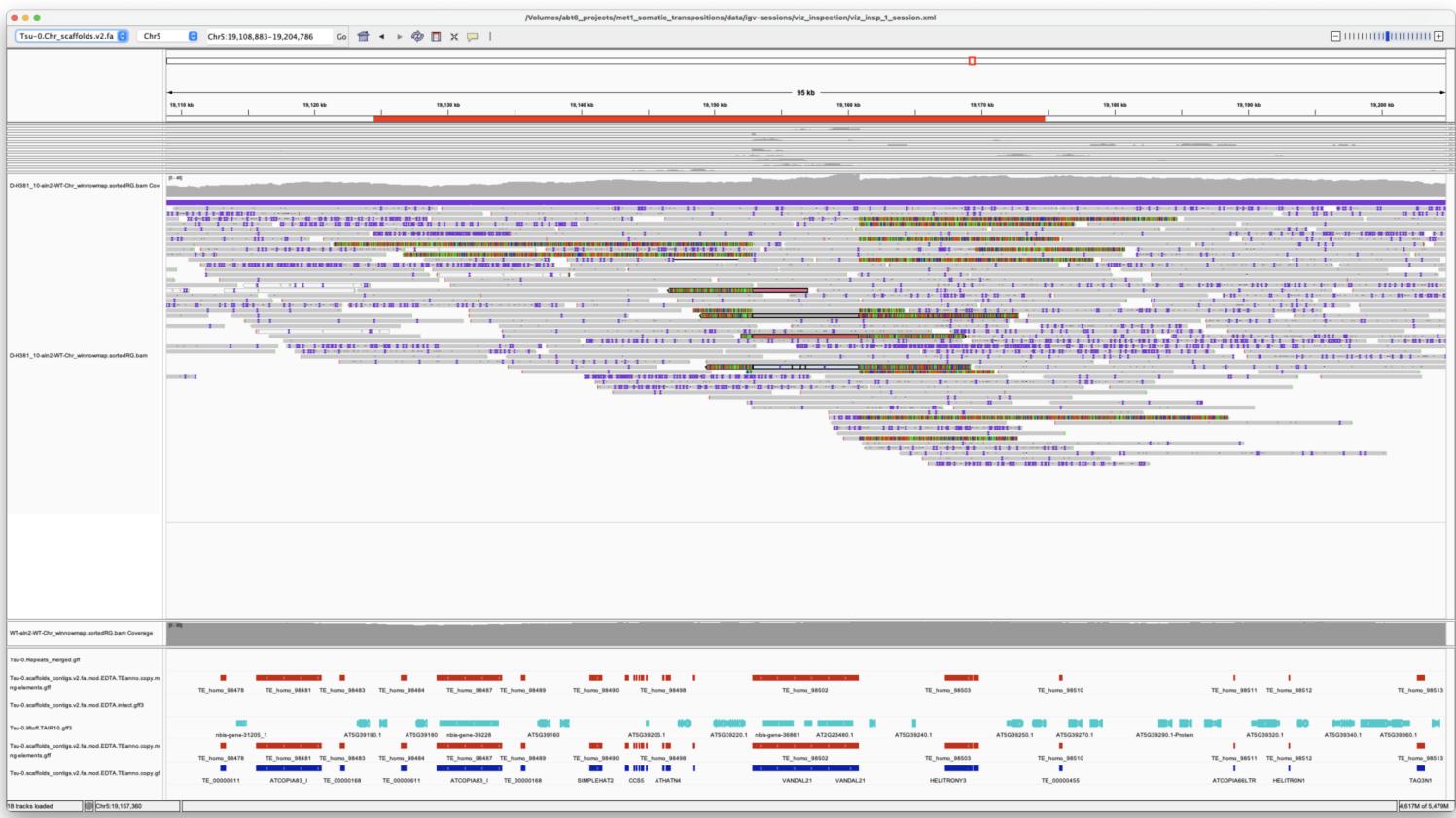
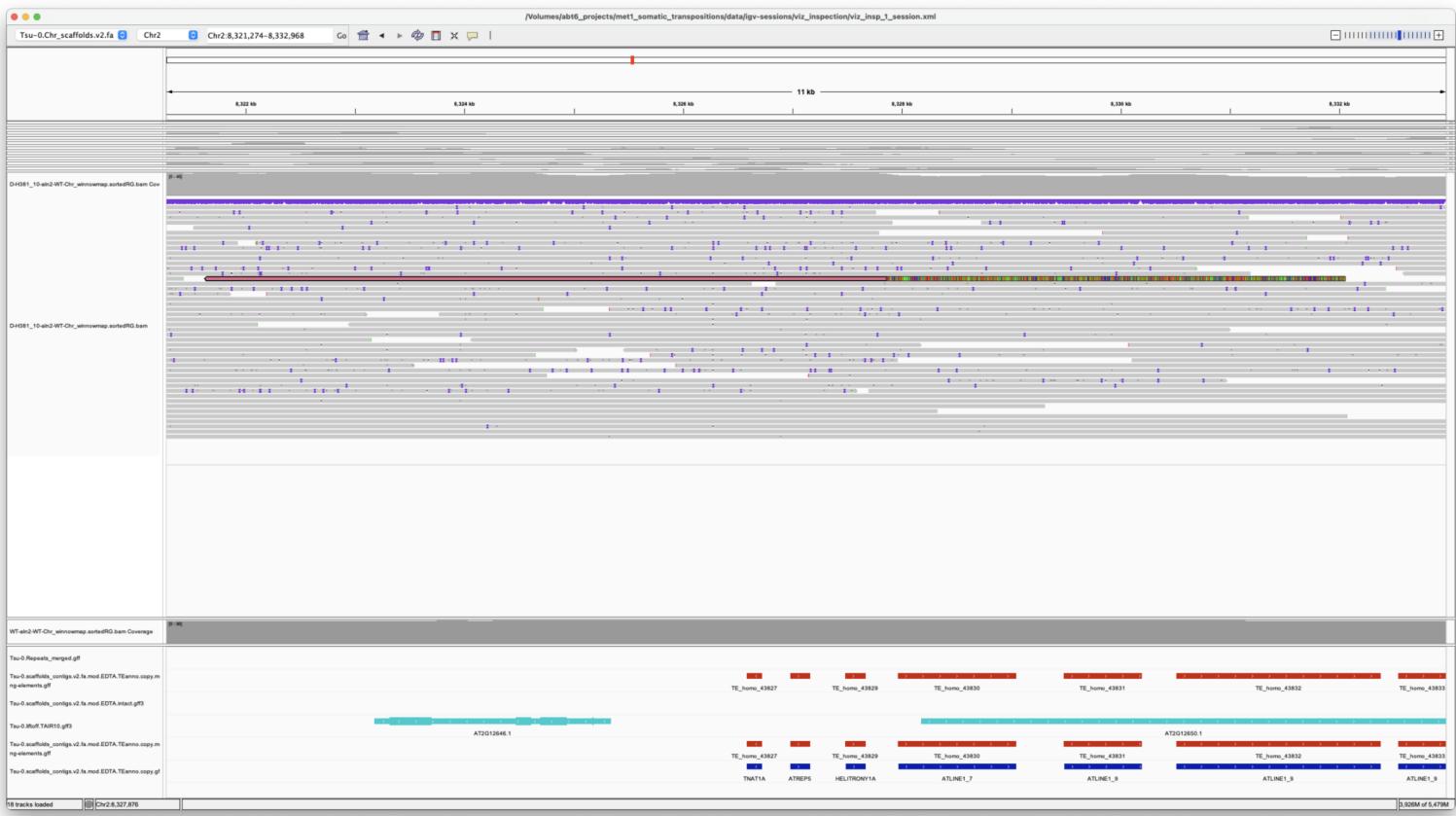
Chr2 7303606 7303606 + 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036/92866368/ccs met1_10





Confirmed

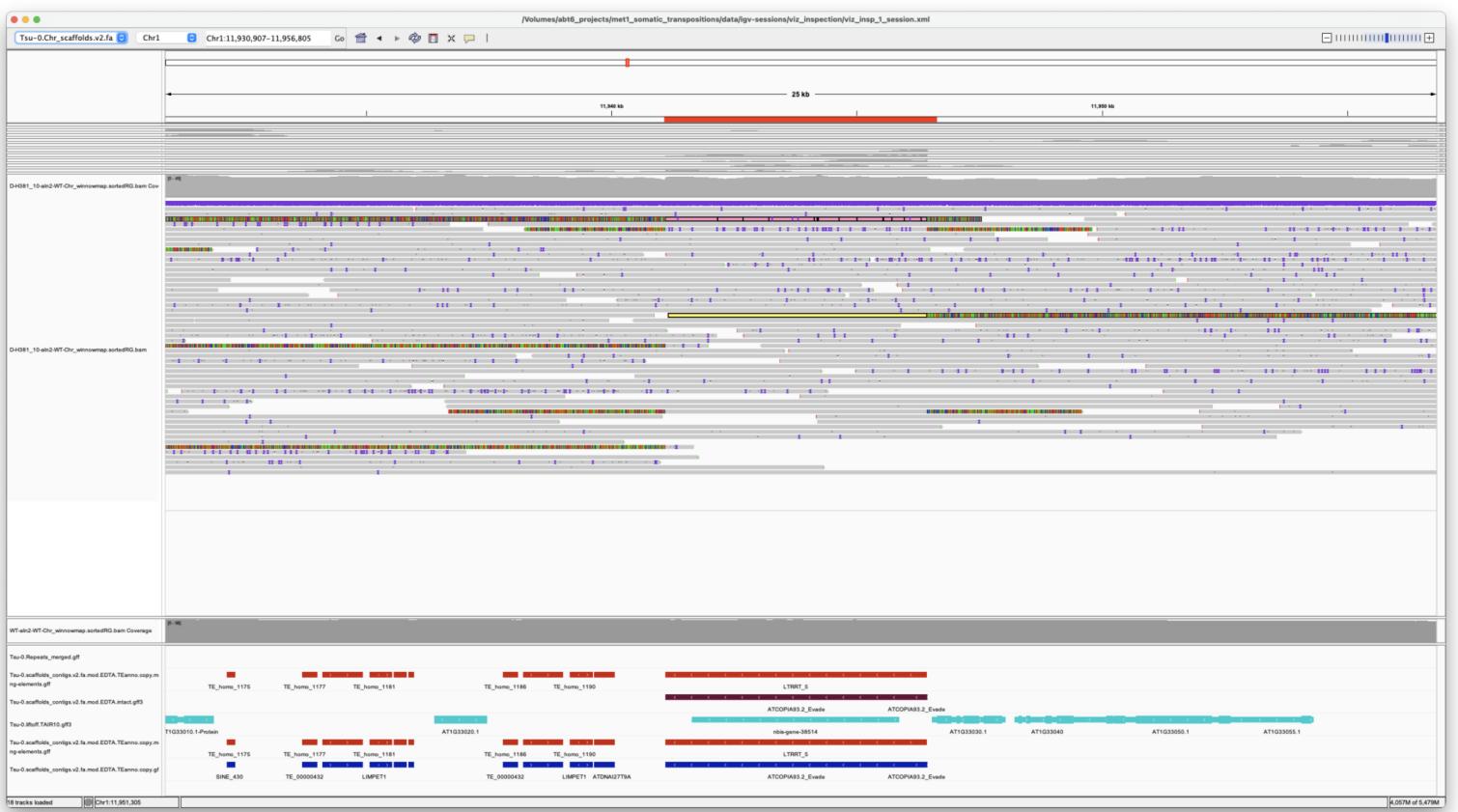
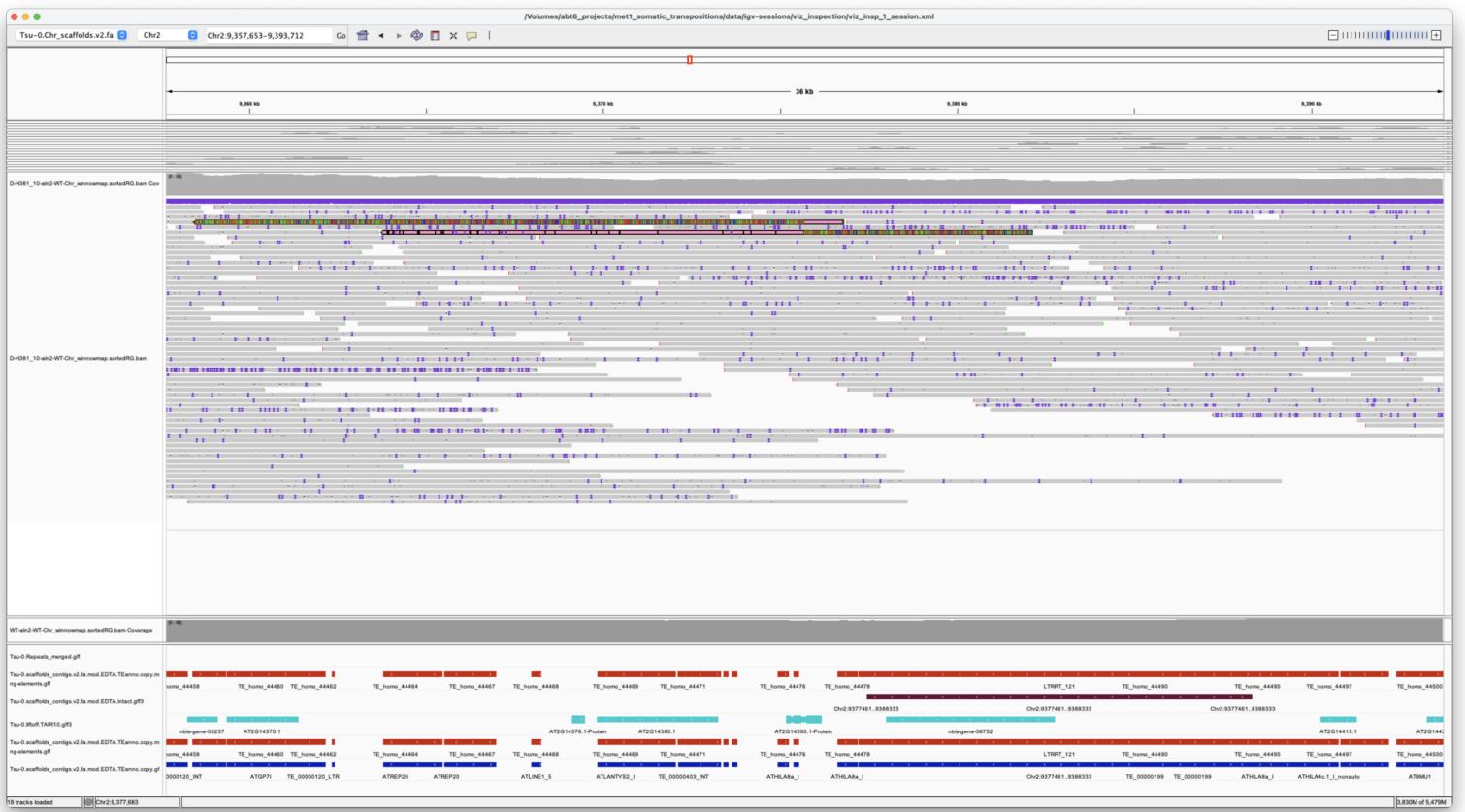
Ch2 8327863 8327863 + 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036:82247748:ccs met1_10



Partial

Confirmed

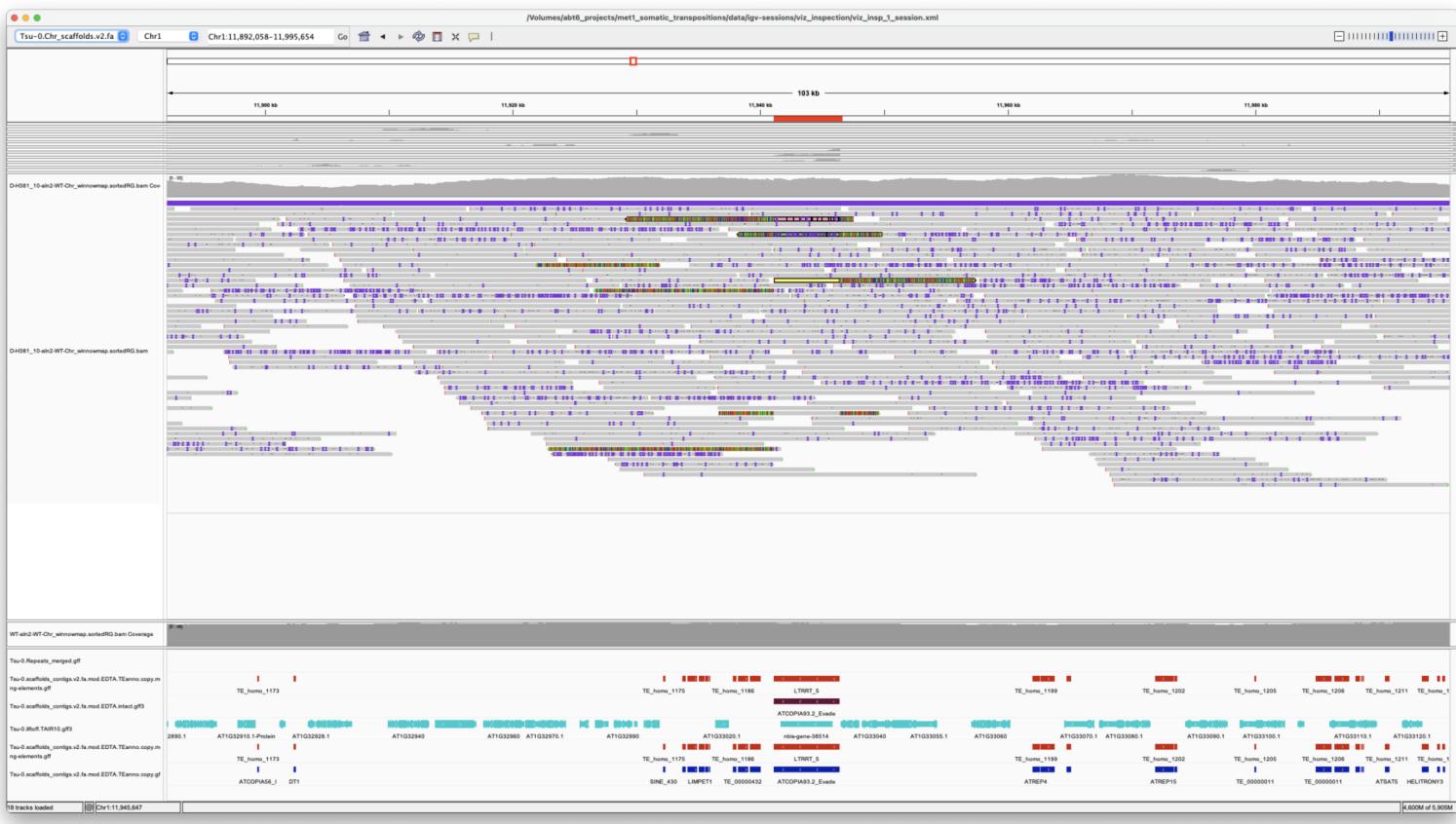
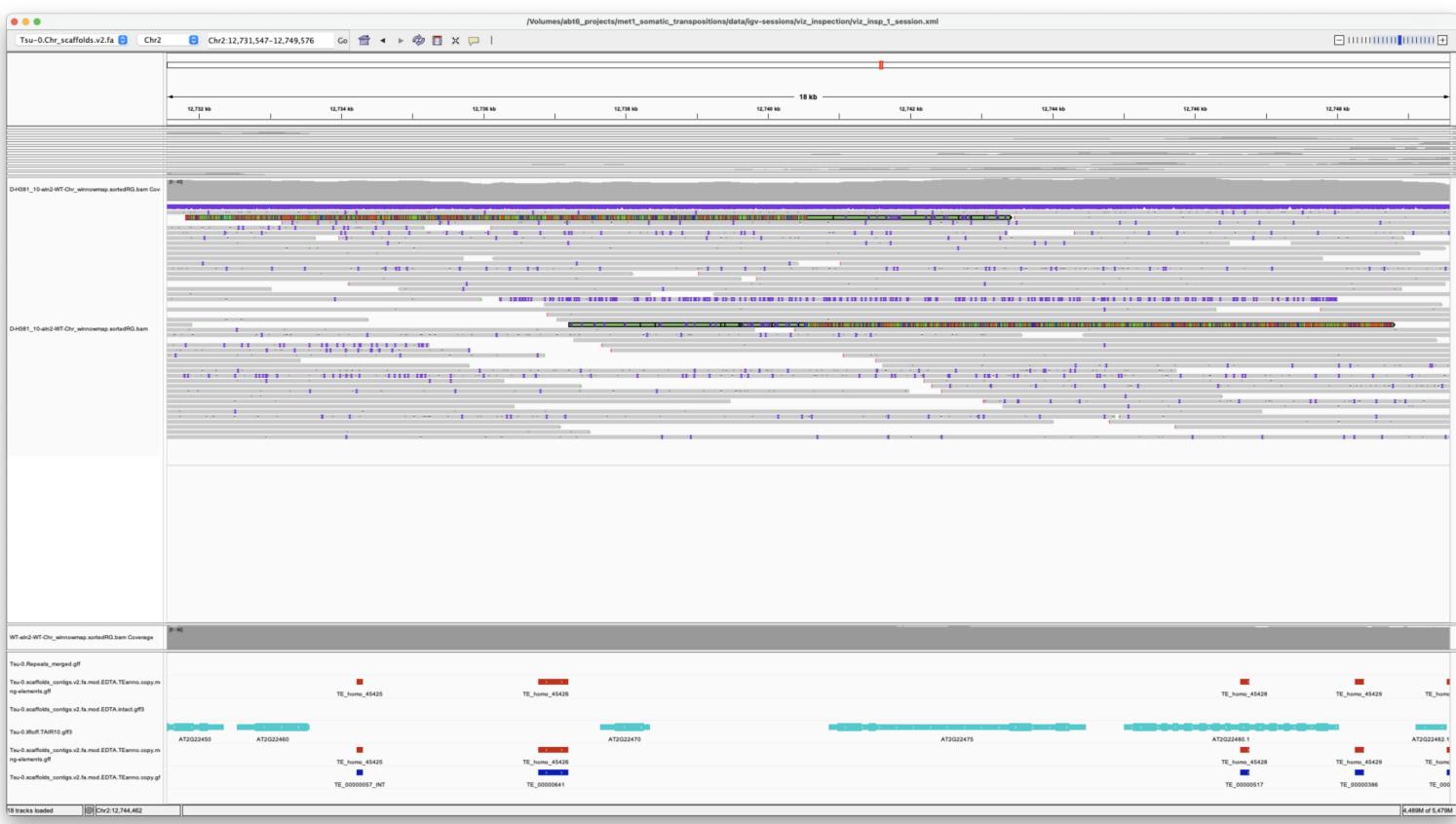
Chr2 9375683 9375683 + 1 Chr1:11941106:11946436:ATCOPIA93_Evade m64079_221220_112036/78775709/ccs met1_10



Central
TSD

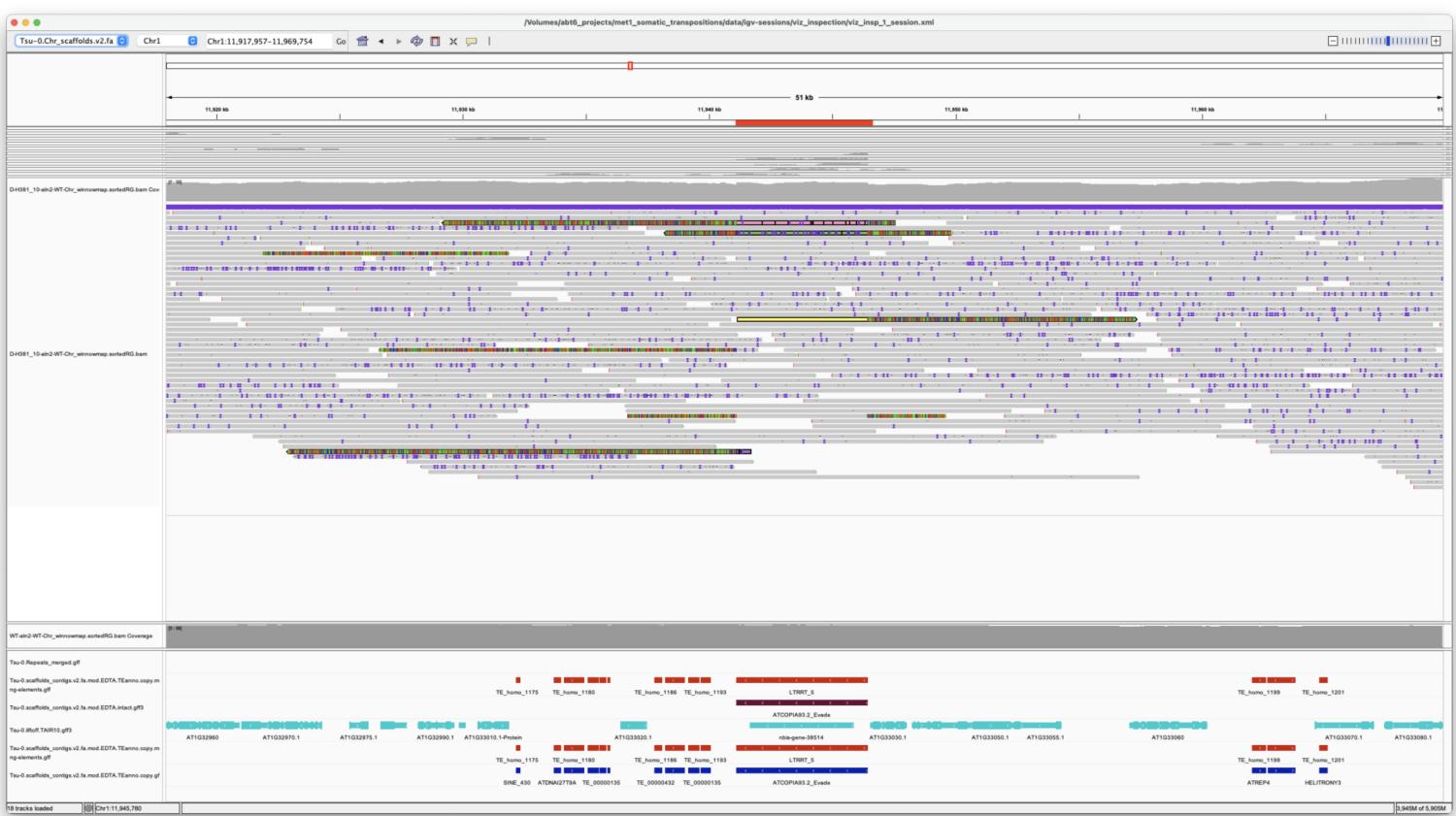
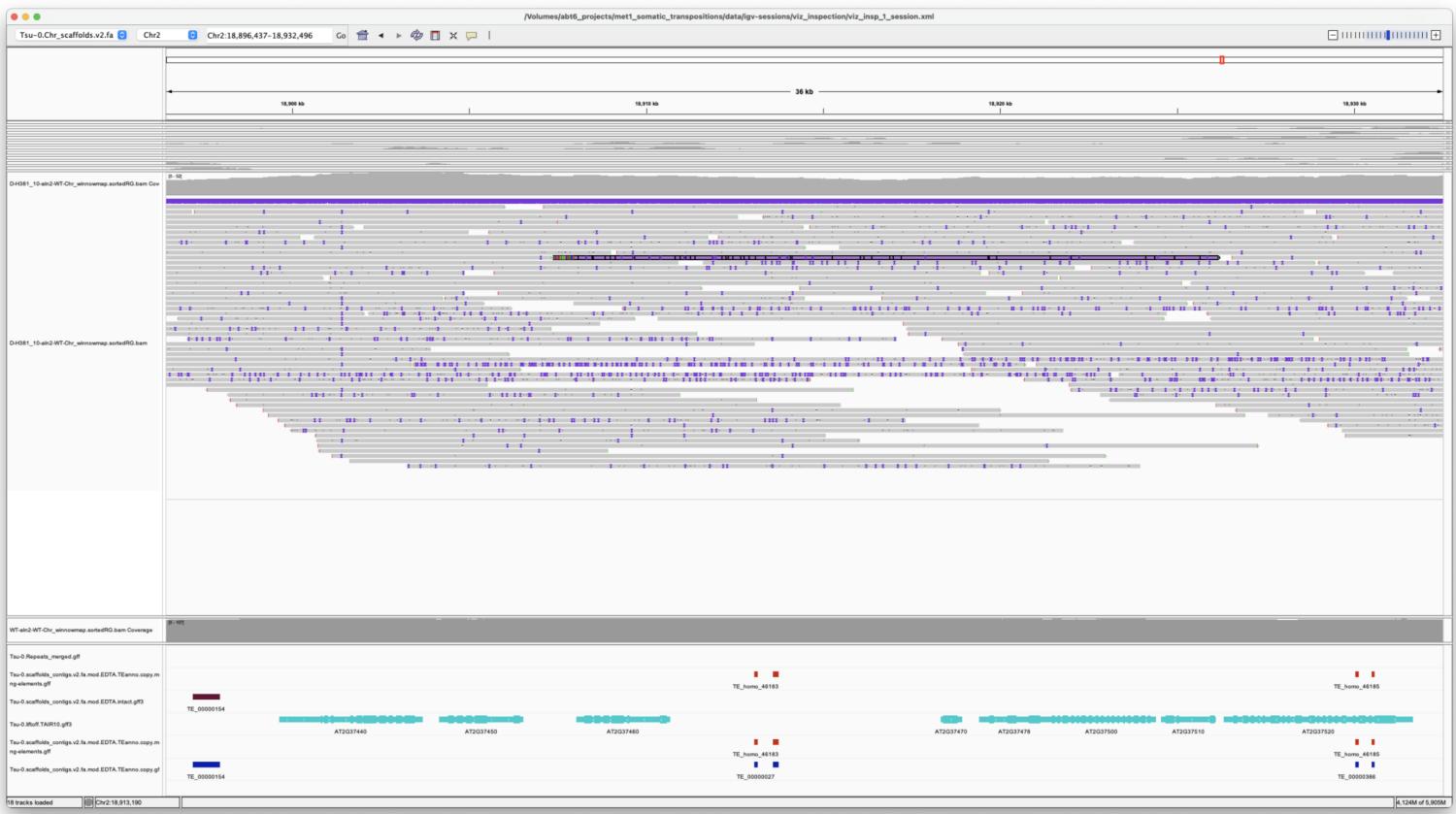
Confirmed

Chr2 12740561 12740561 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/102499387/ccs met1_10



Central
TSD

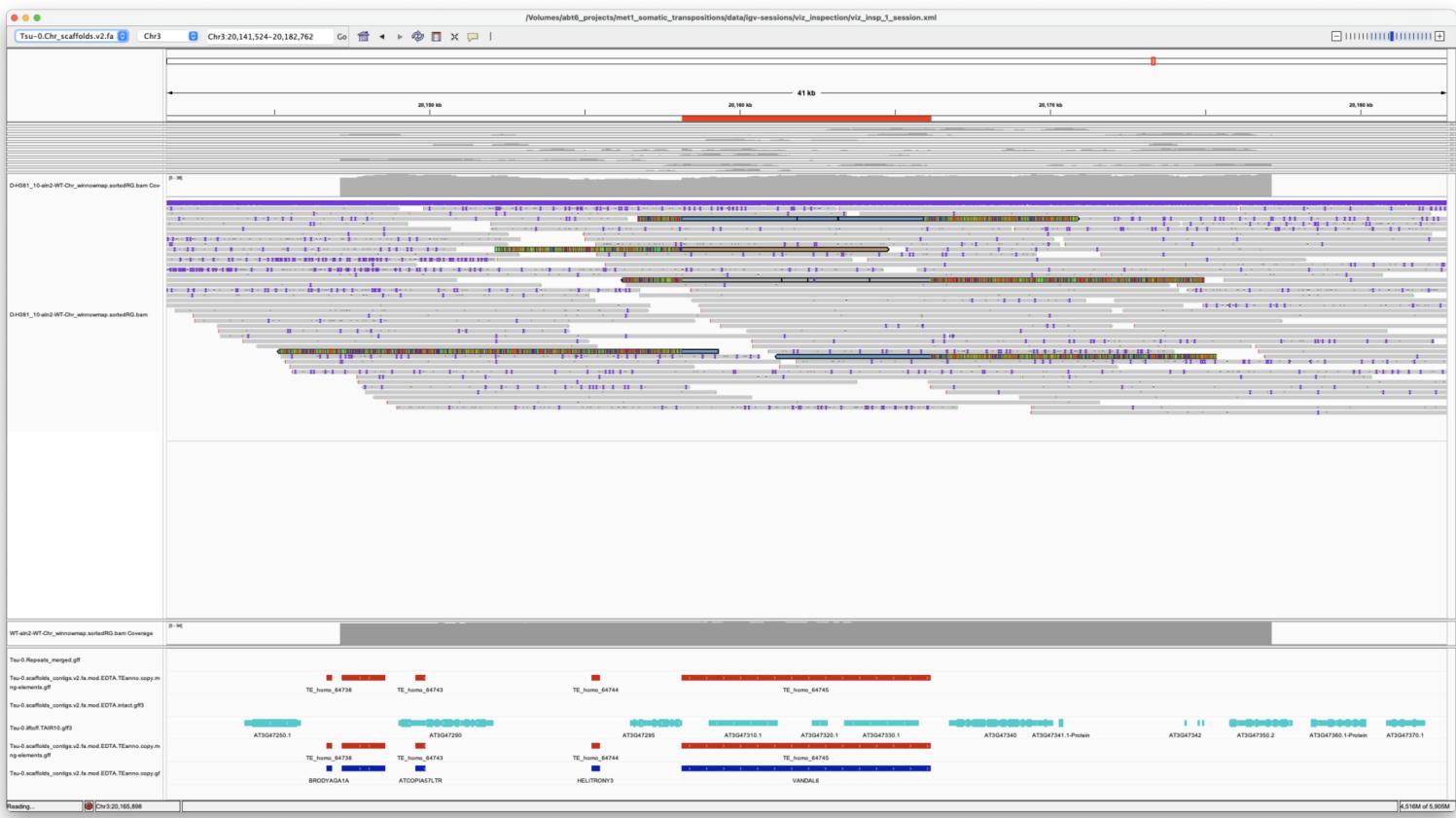
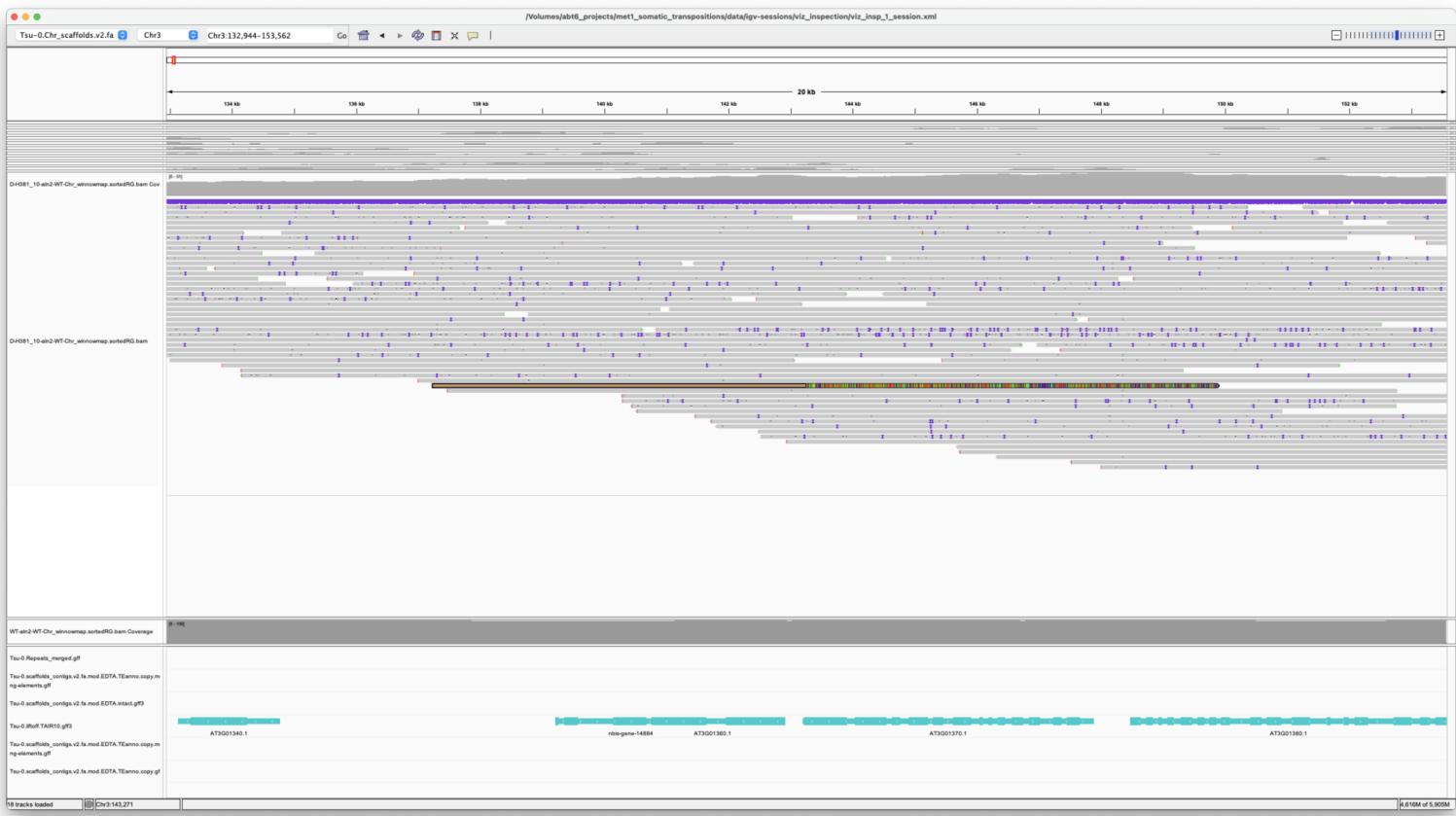
Confirmed



Partial

Confirmed

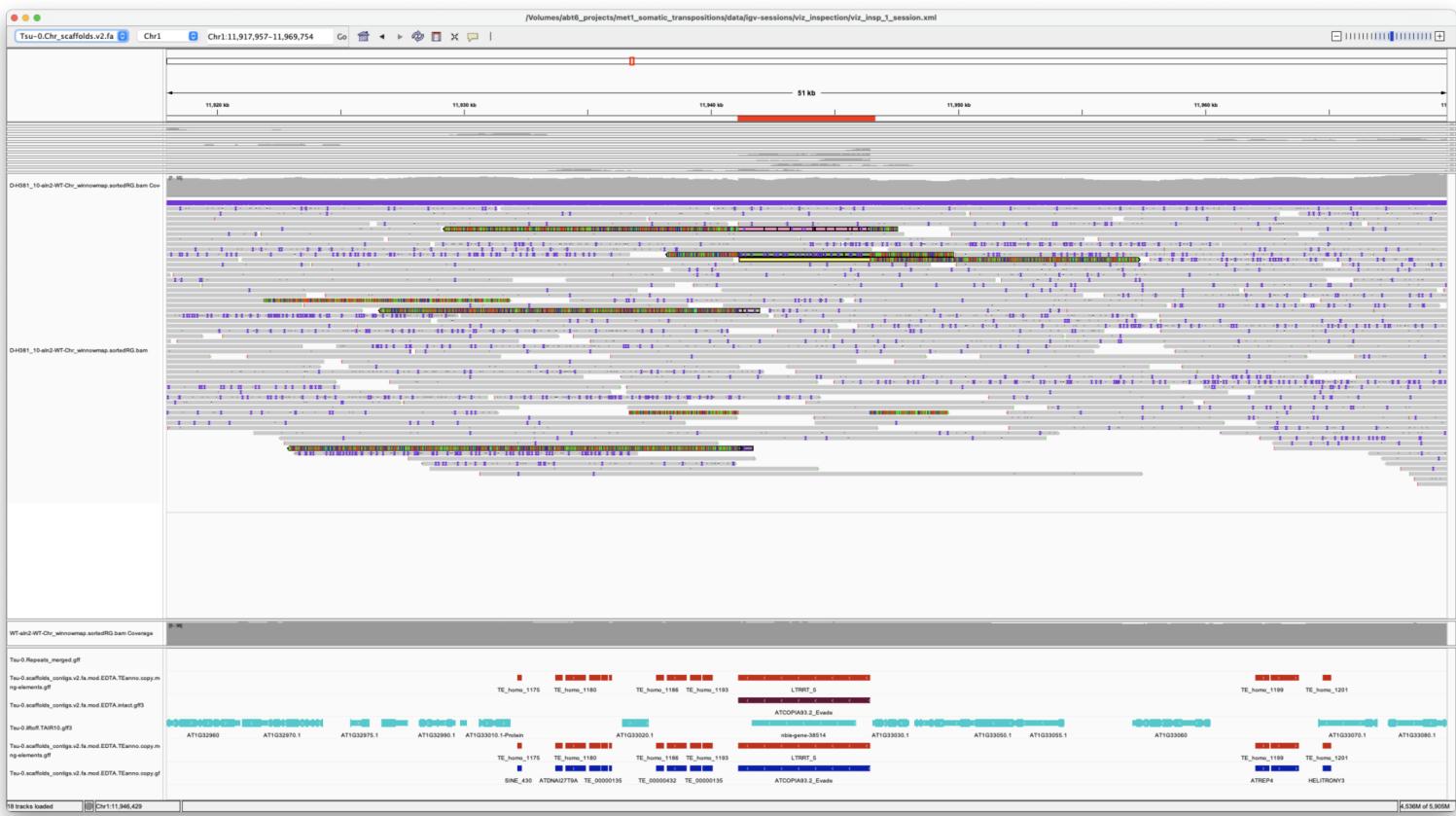
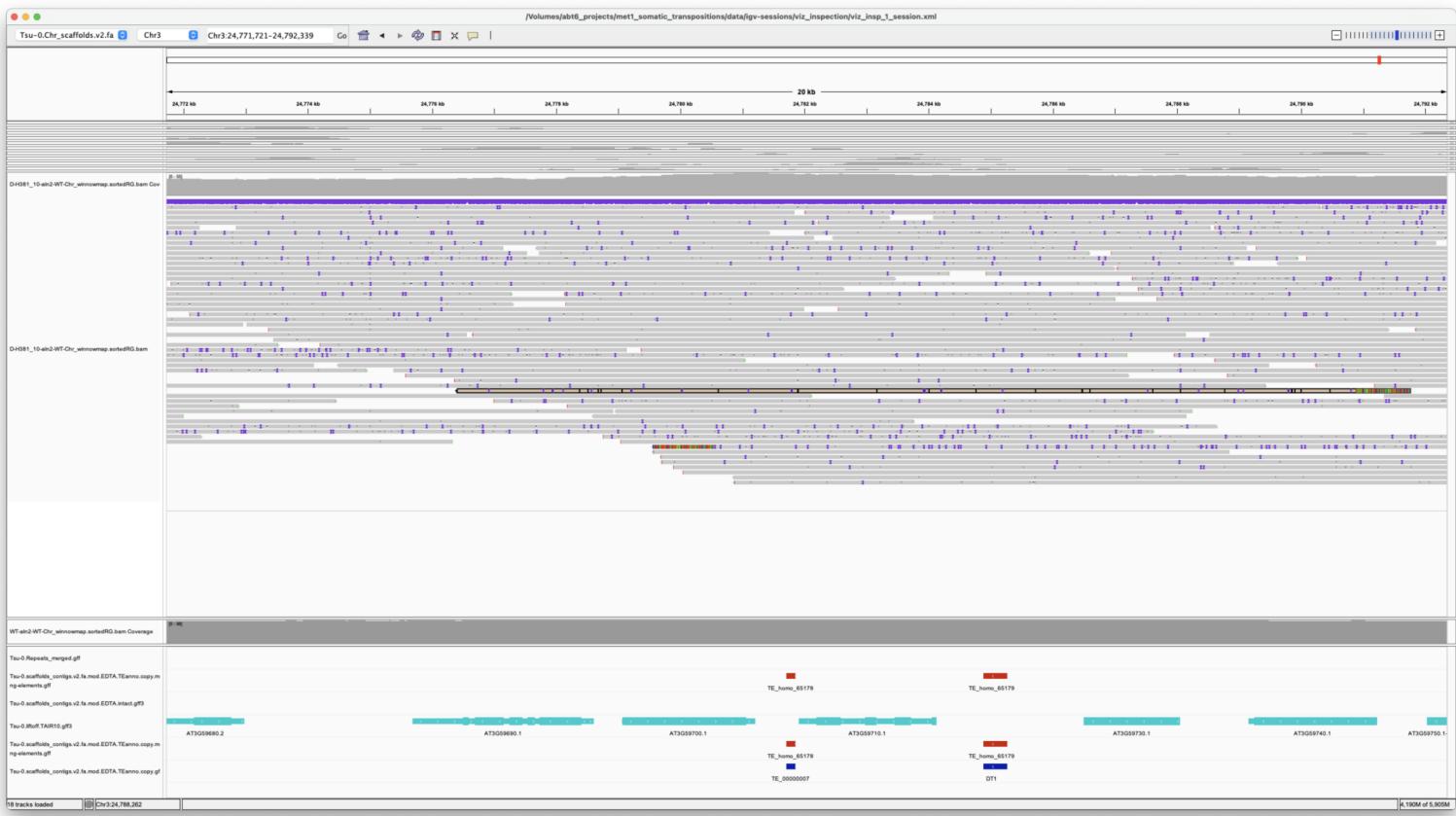
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Partial

Confirmed

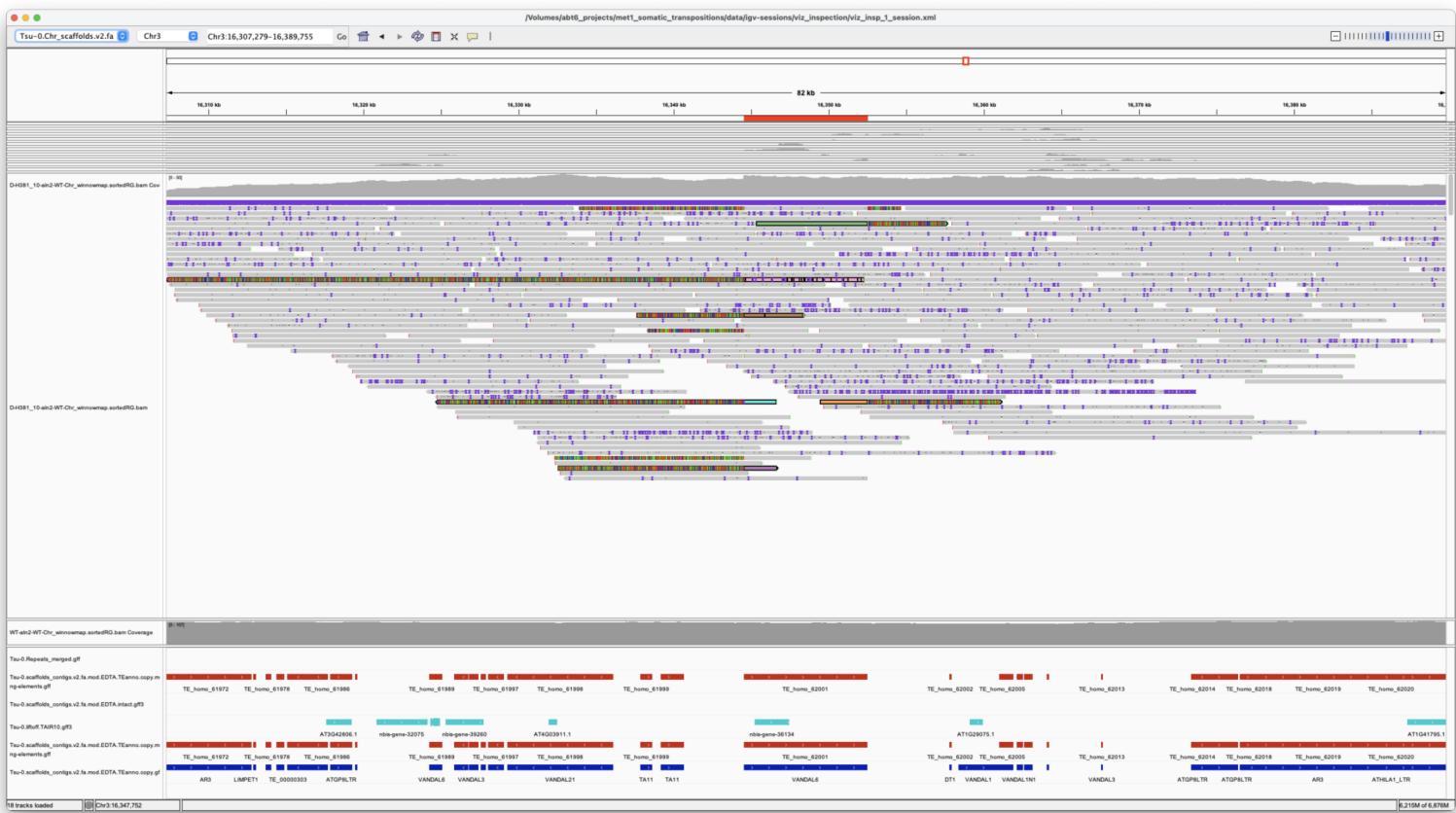
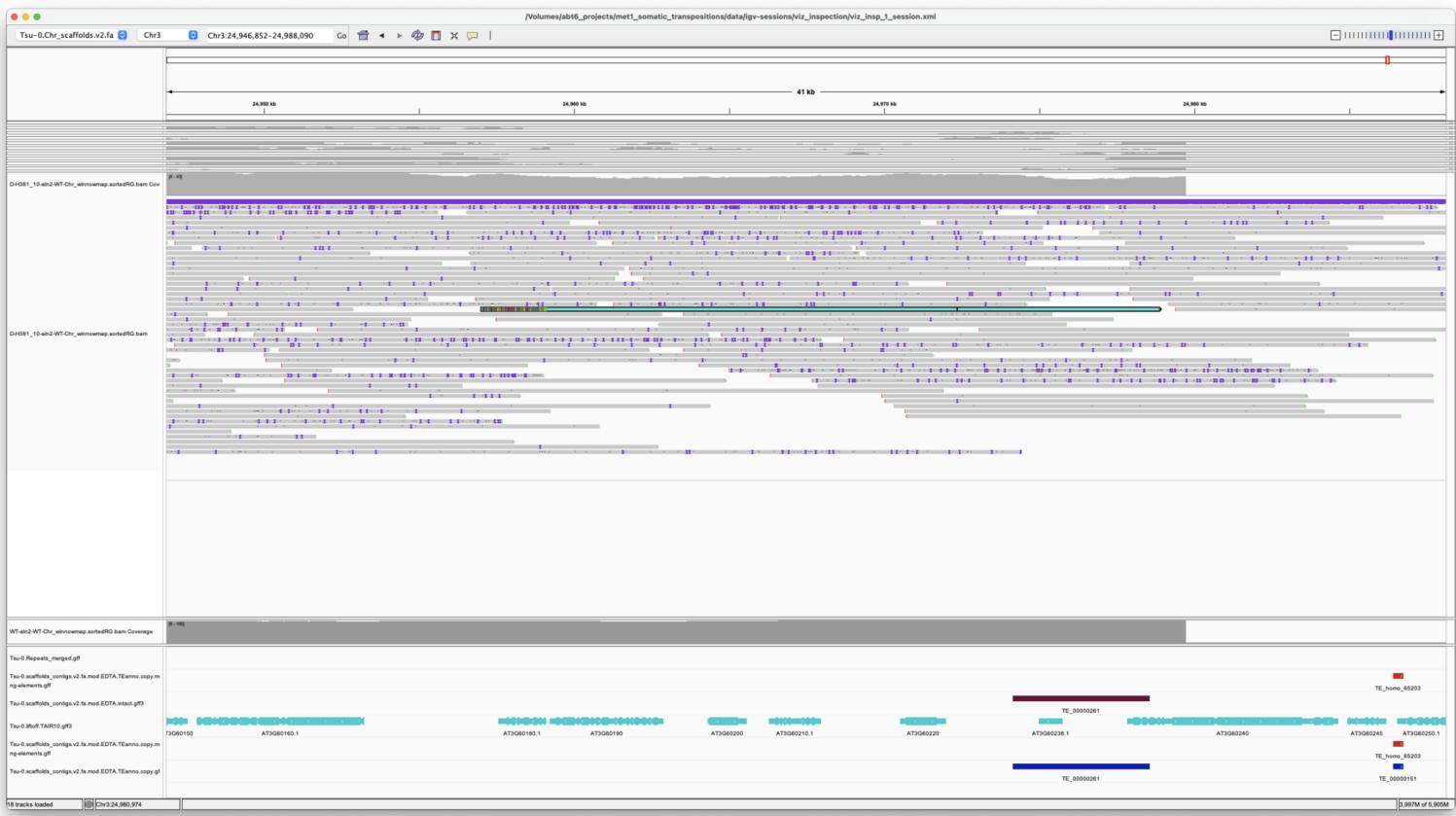
Chr3 24790888 24790888 + 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/170920651/ccs met1_10



Partial

Confirmed

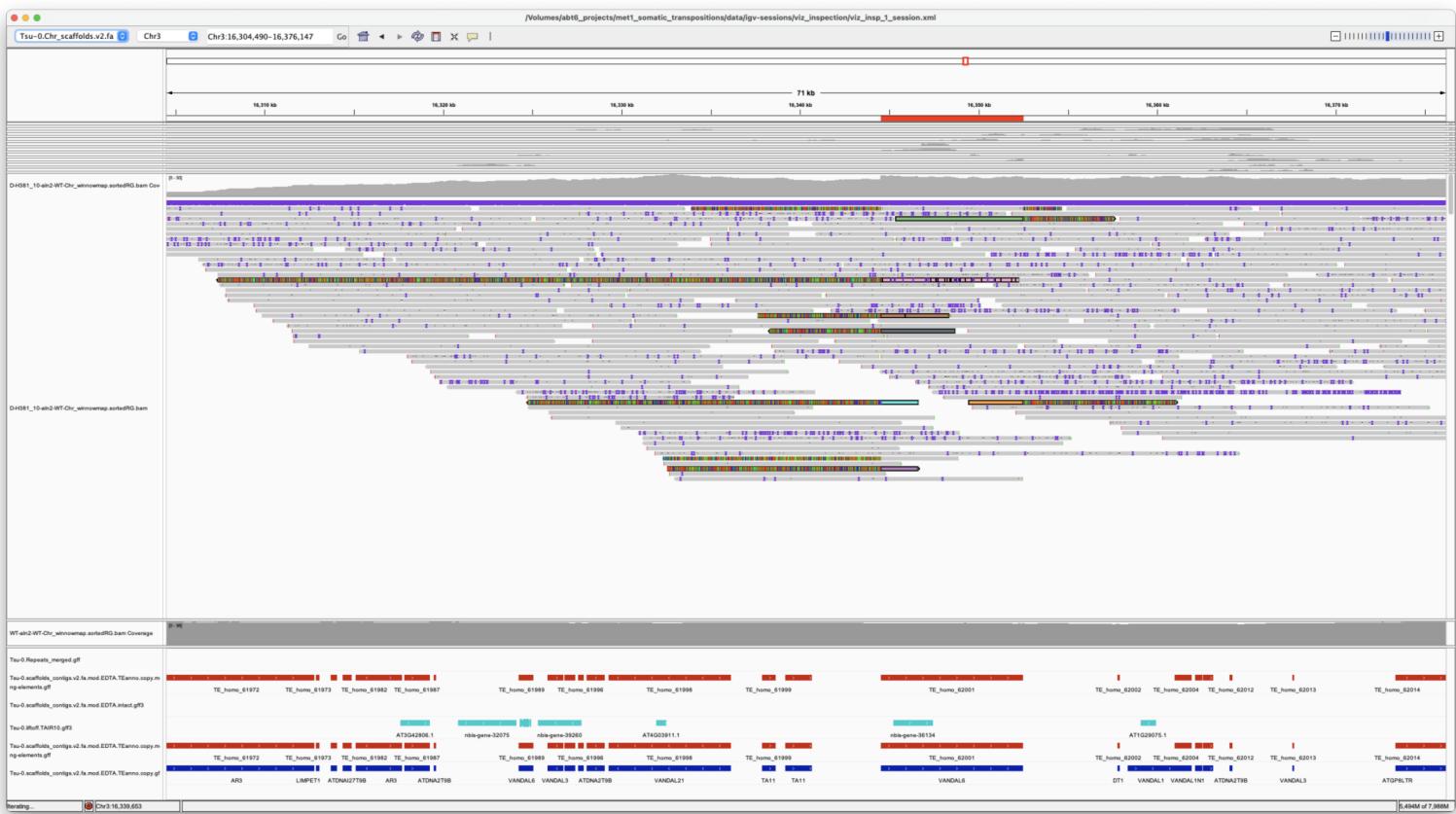
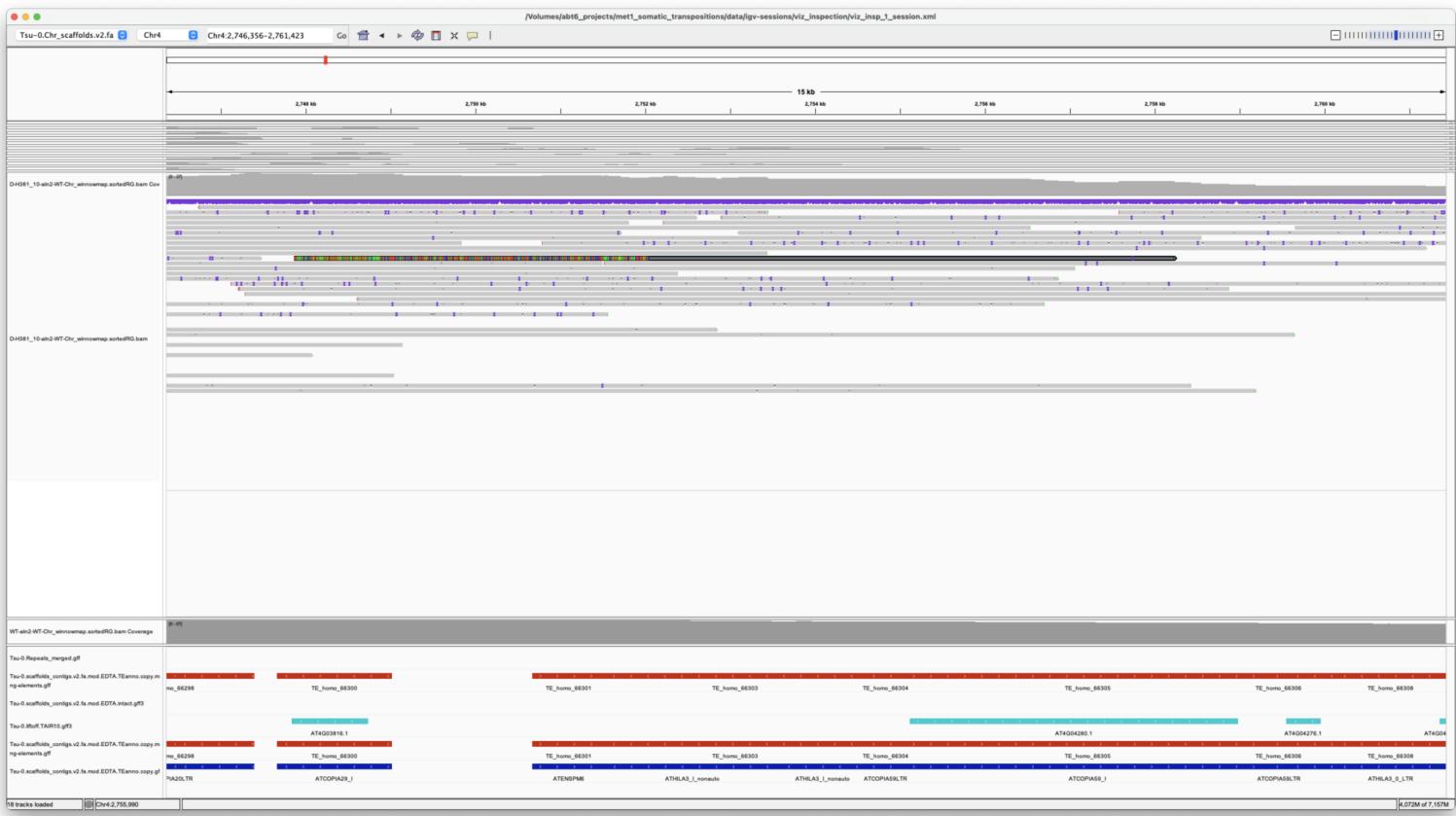
Chr3 24959115 24959115 - 1 Chr3;16344522;16352497;VANDAL6 m64079_240212_113350/19138681/ccs met1_10



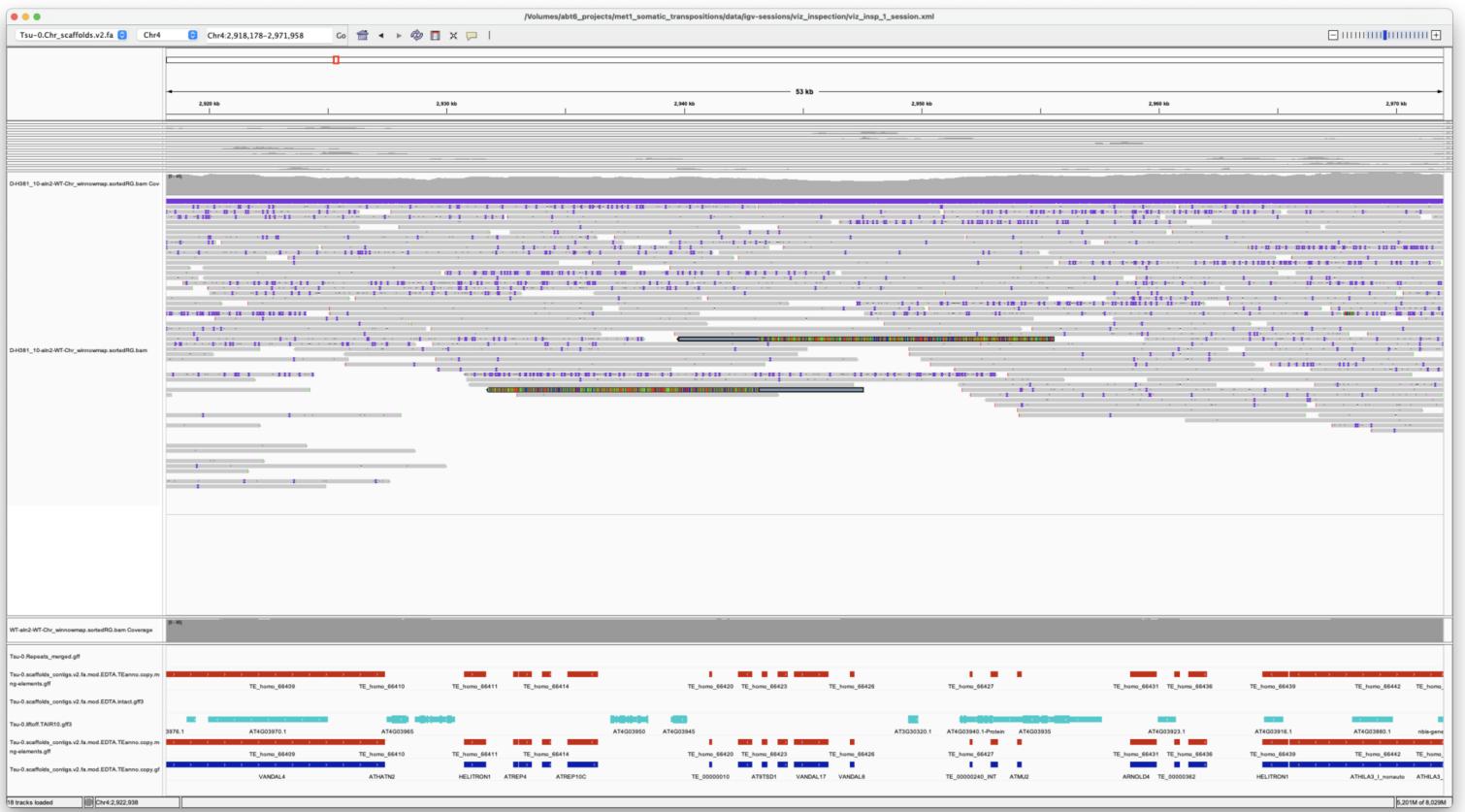
Partial

Confirmed

Chr4 2752044 2752044 - 1 Chr3:16344522;16352497;VANDAL6 m64079_221220_112036/154208565/ccs met1_10

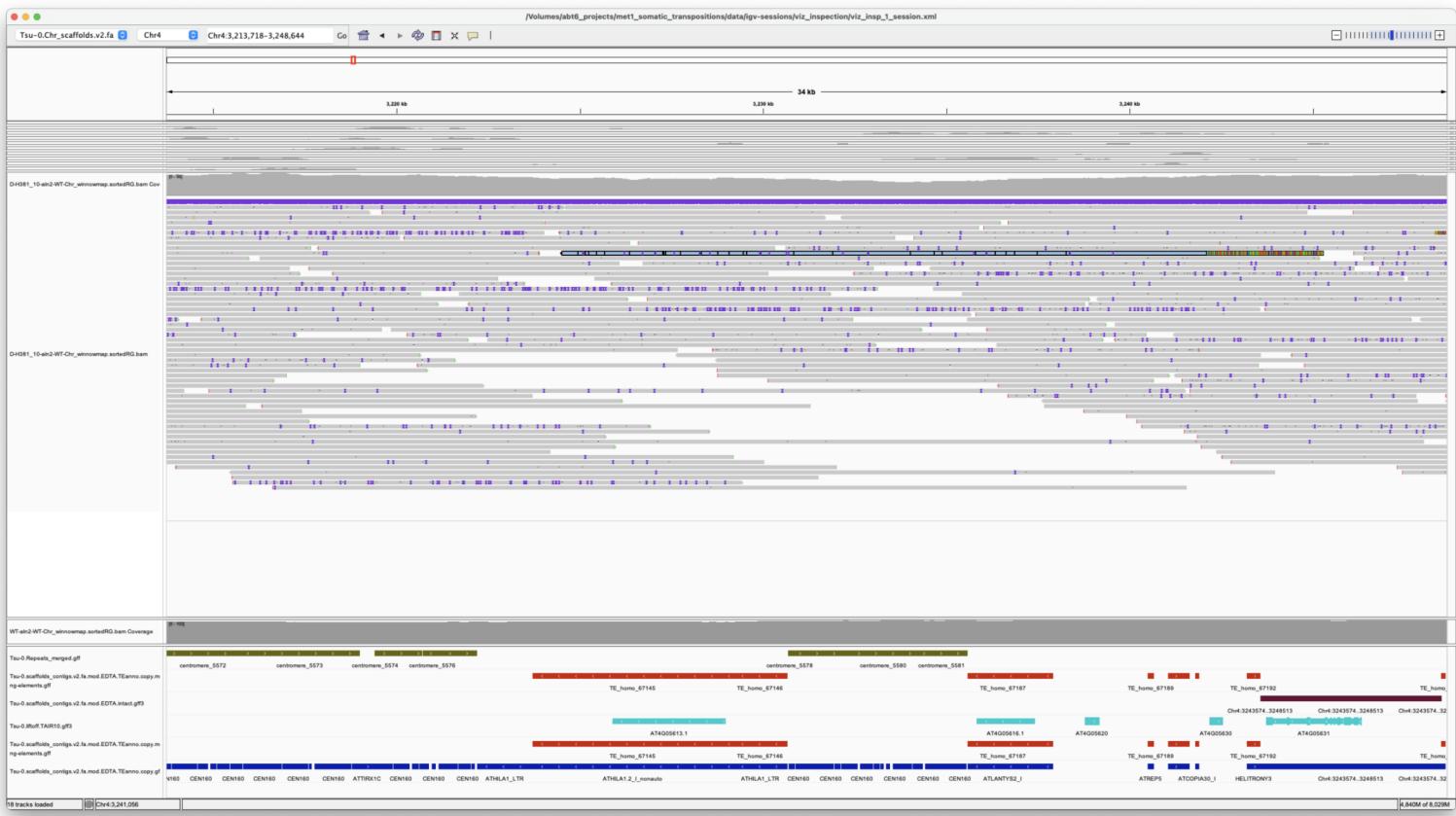


Chr4 2943152 2943152 + 1 Chr5:19152829:19160826;VANDAL21 m64079_221220_112036/172949806/ccs met1_10



Central
TSD

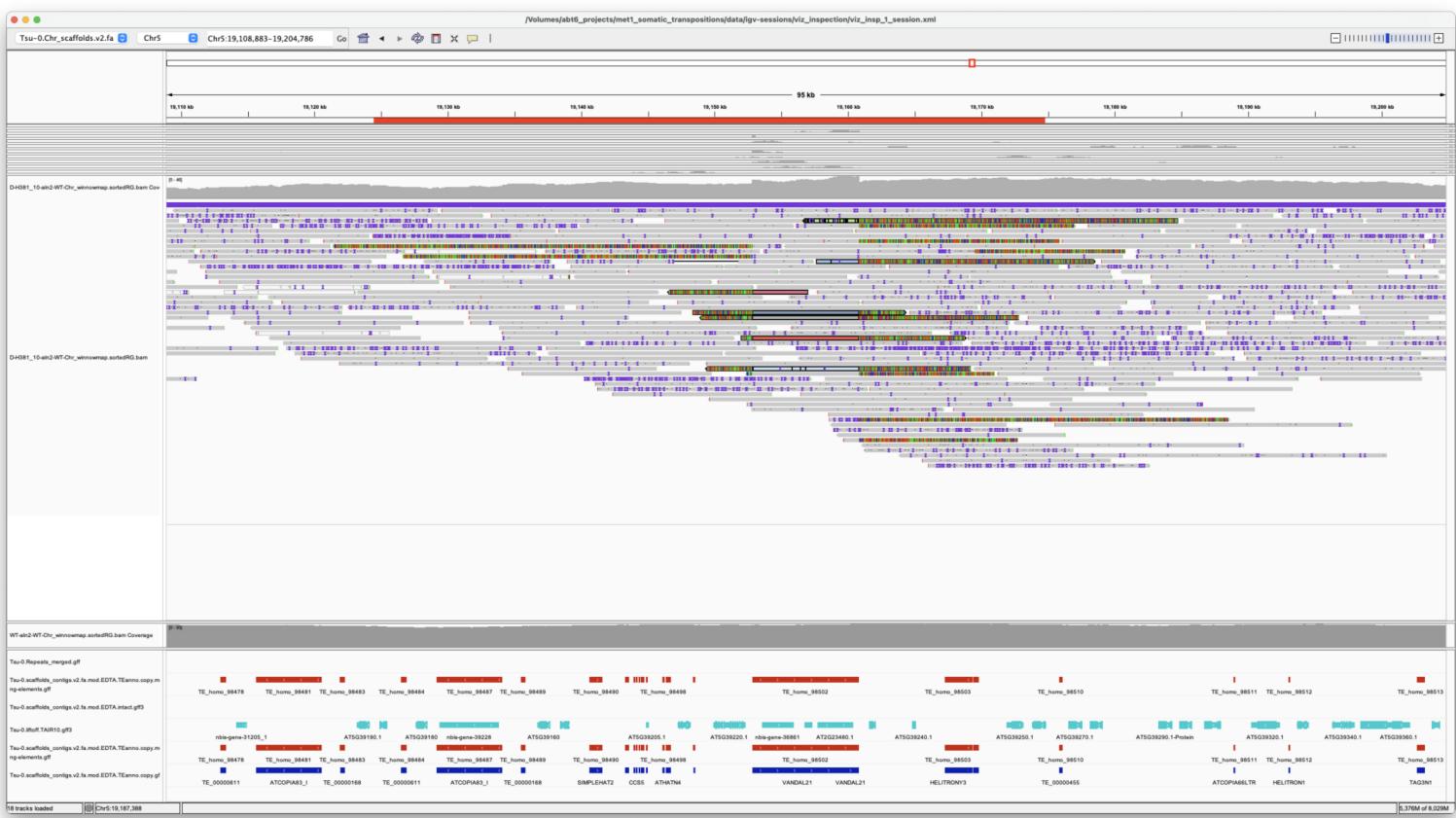
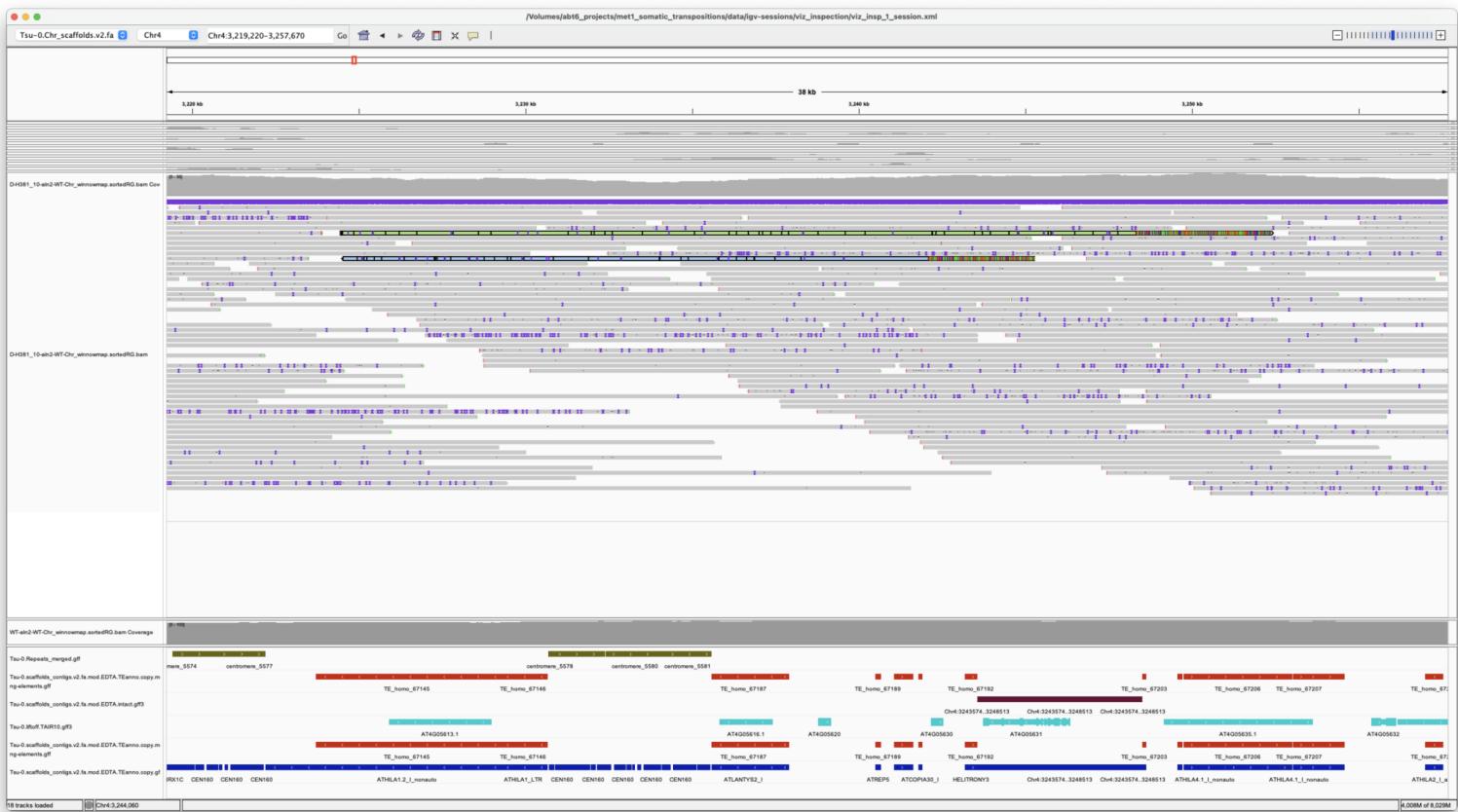
Confirmed



Partial

Confirmed

Chr4 3248337 3248337 - 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/917628/ccs met1_10

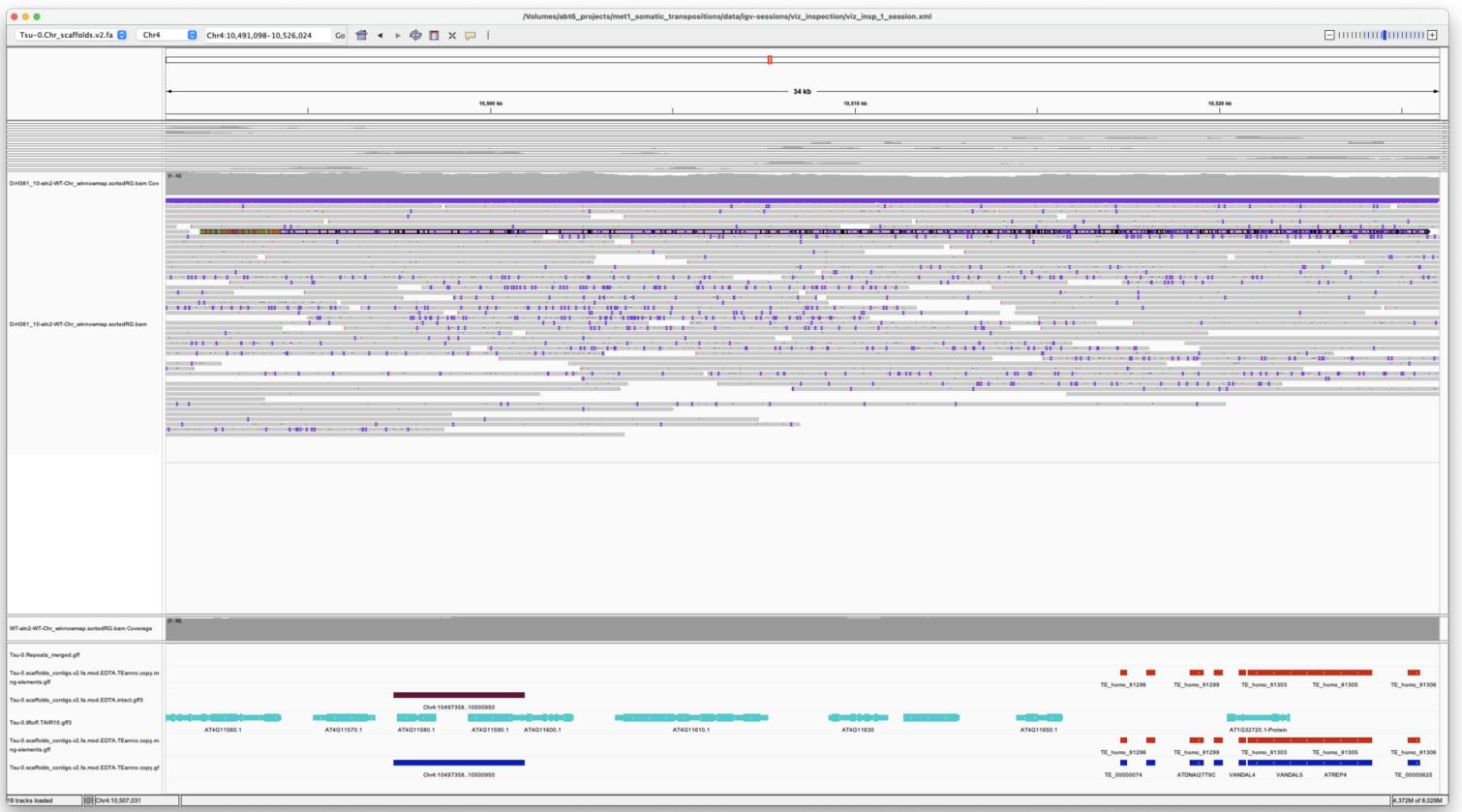


Most probably two independent VANDAL21 insertions close to each other

Partial

Confirmed

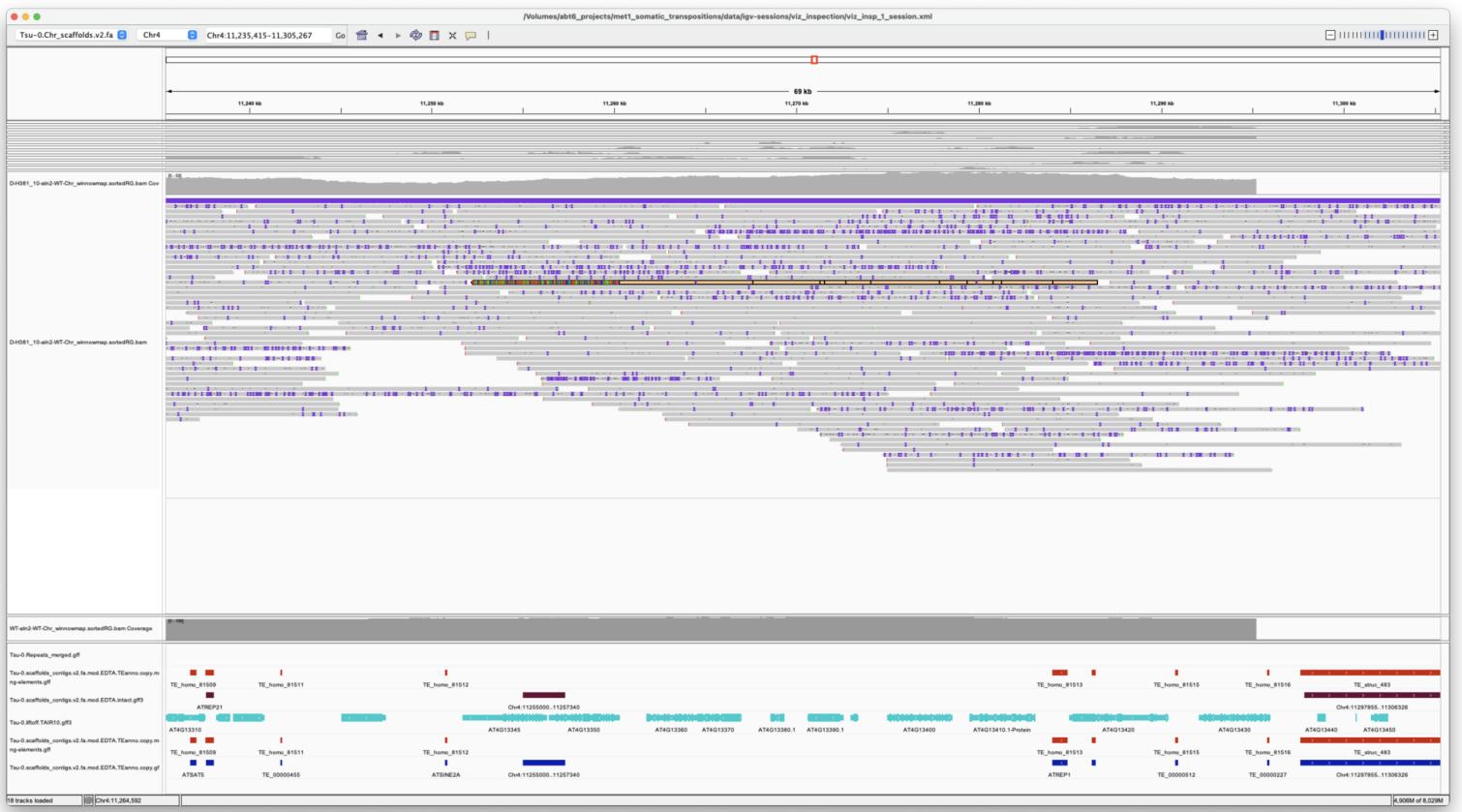
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Partial

Confirmed

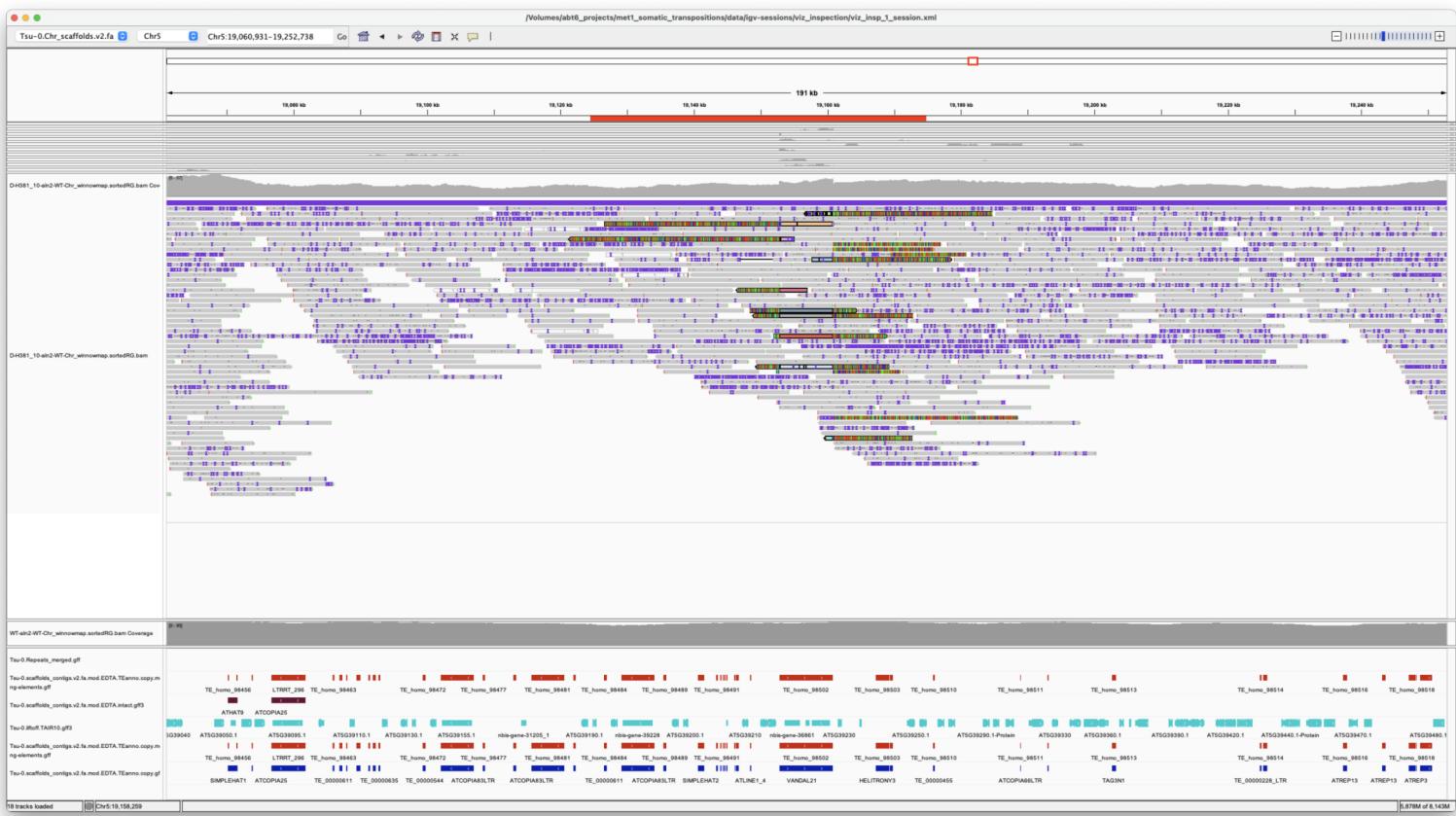
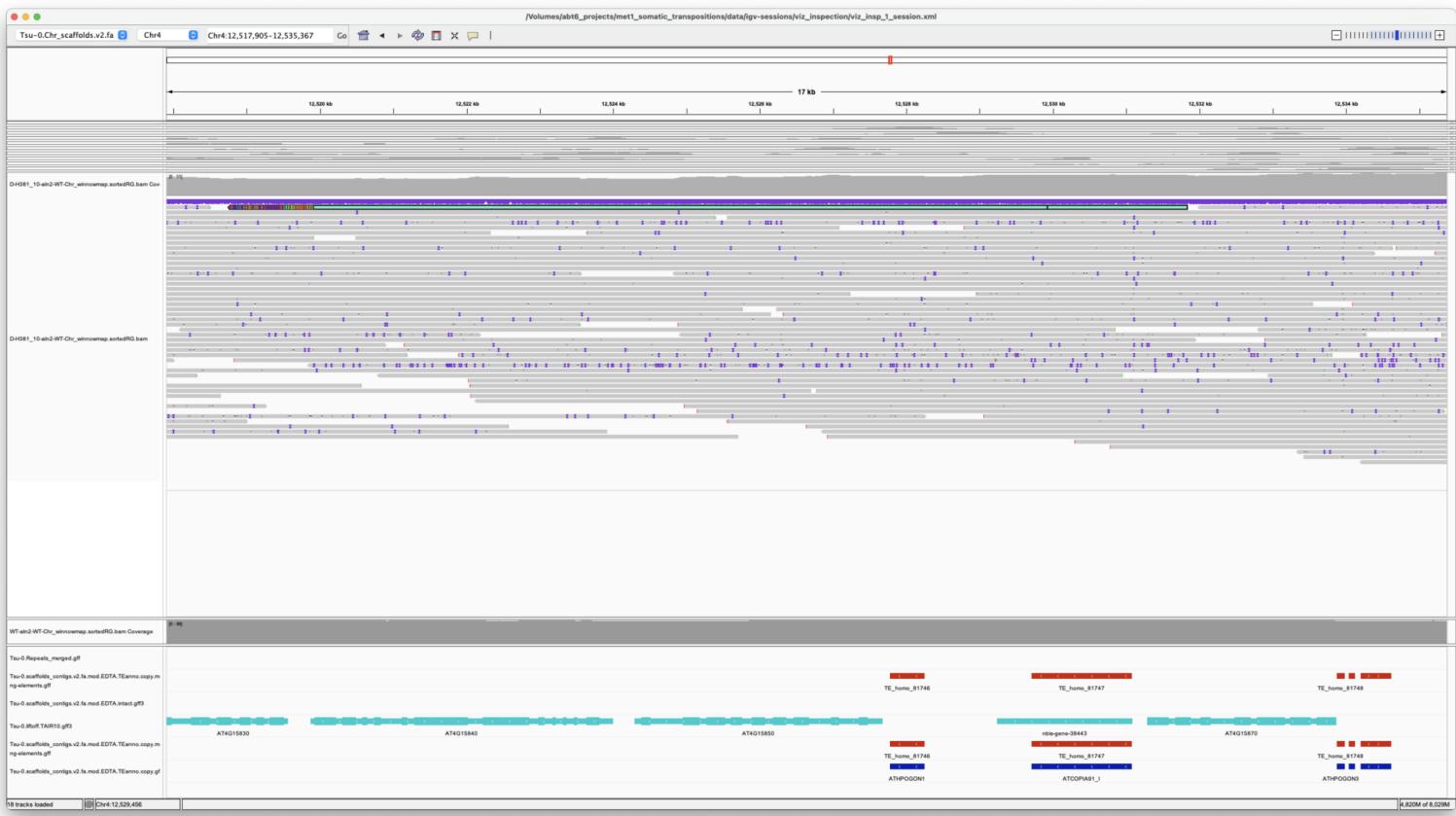
Chr4 11260296 11260296 - 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036/47711675/ccs met1_10



Partial

Confirmed

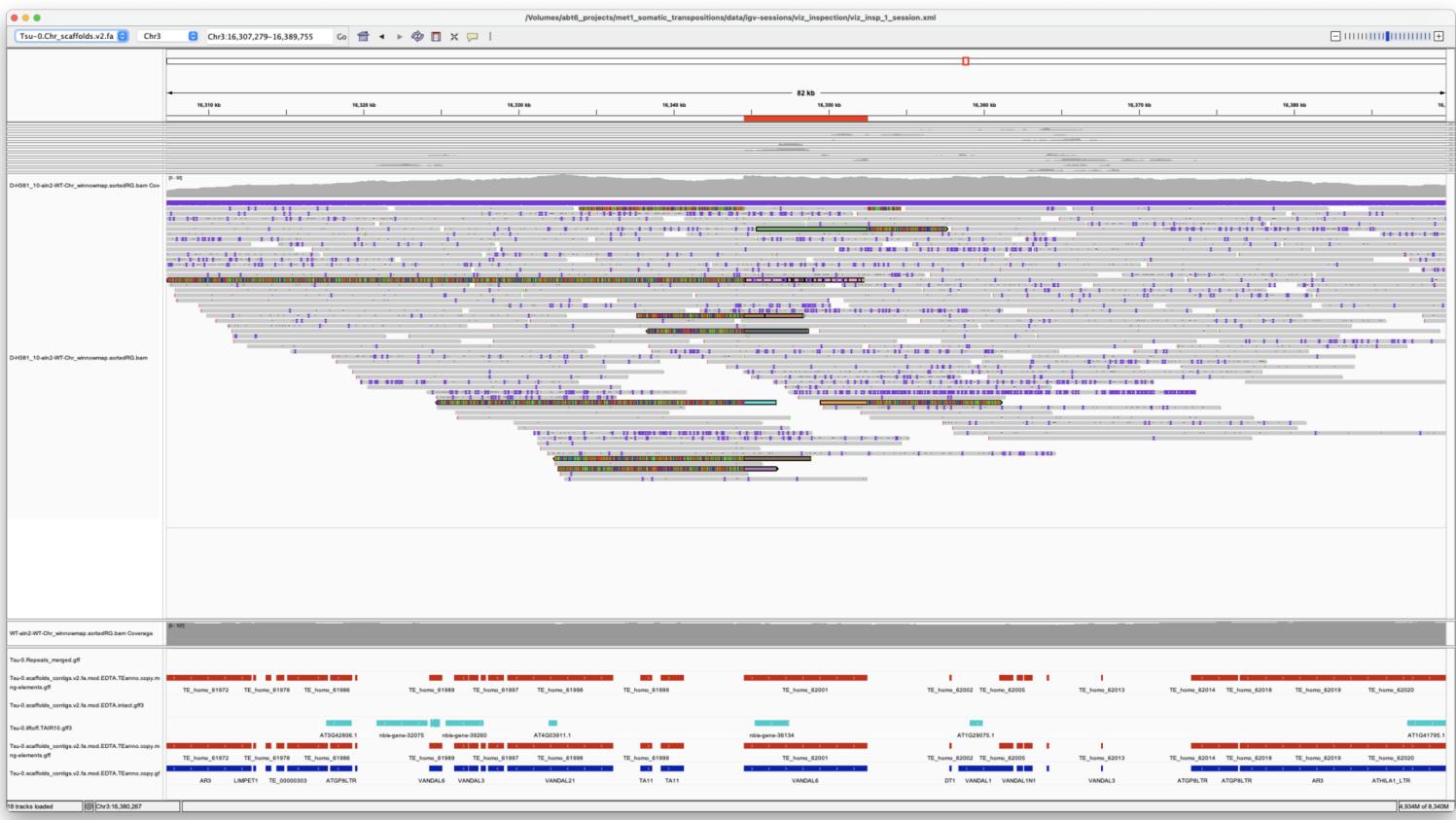
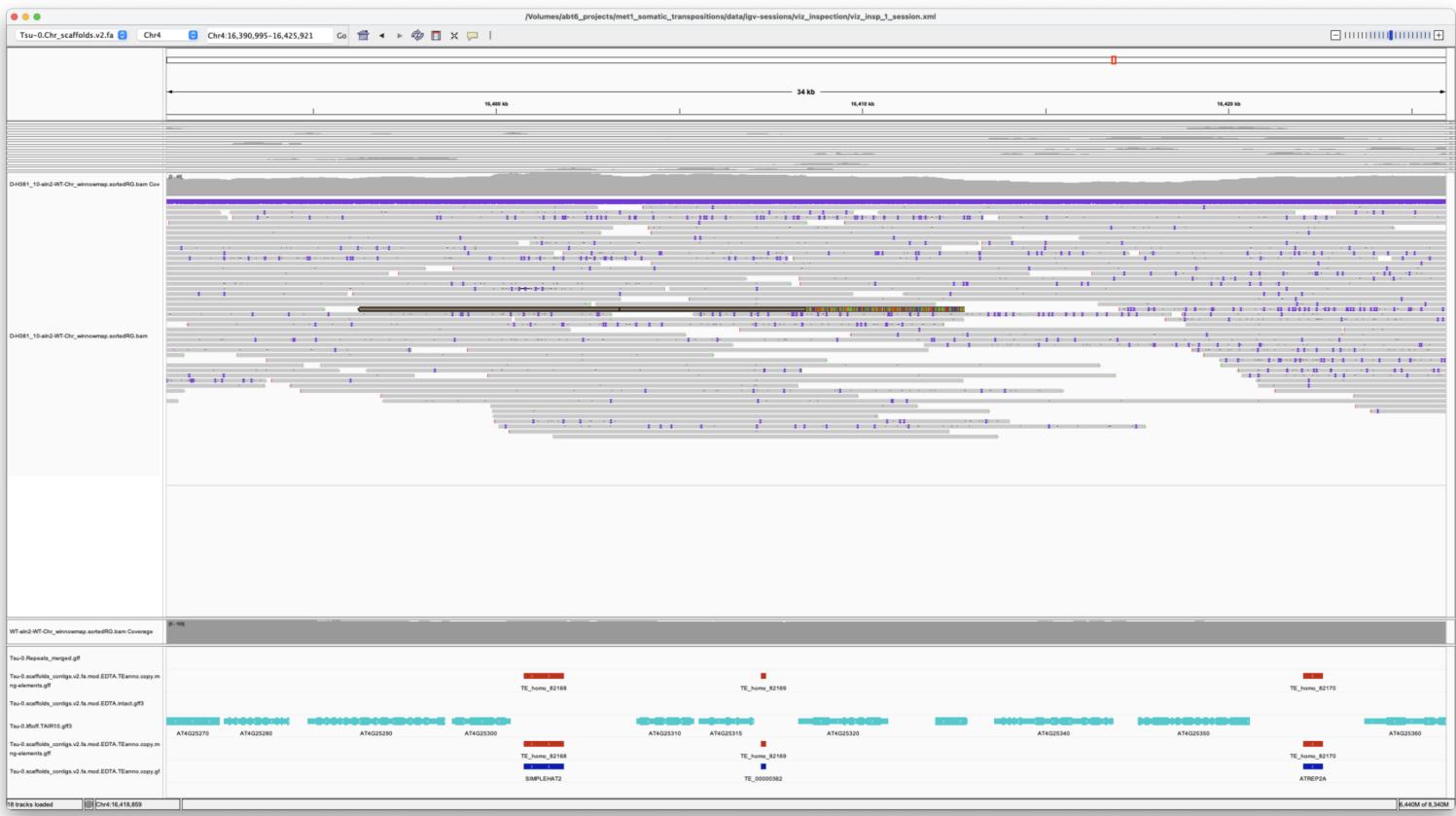
Chr4 12519914 12519914 + 1 Chr5:19152829;19160826;VANDAL21 m64079_221220_112036/148965309/ccs met1_10



Partial

Confirmed

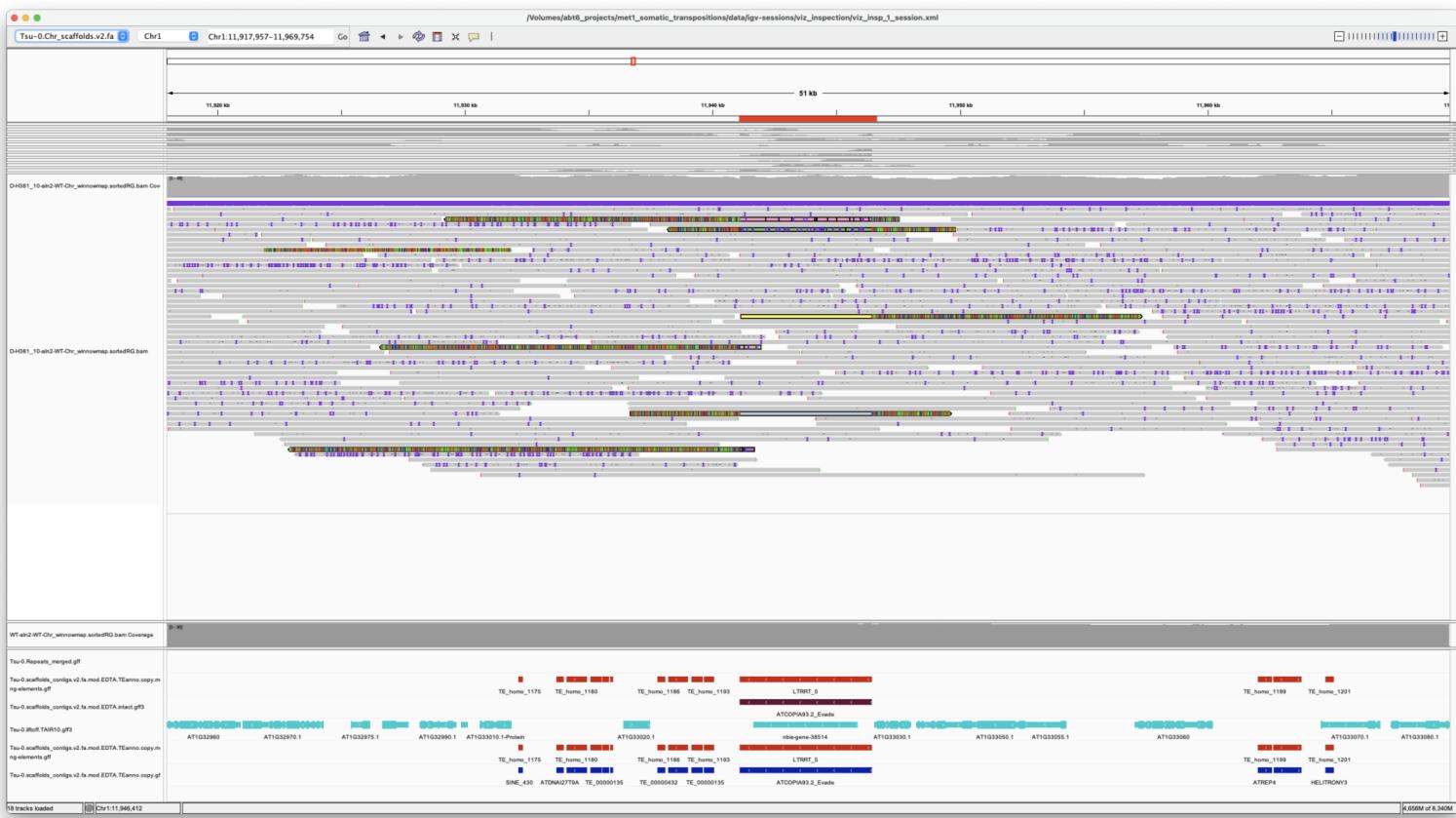
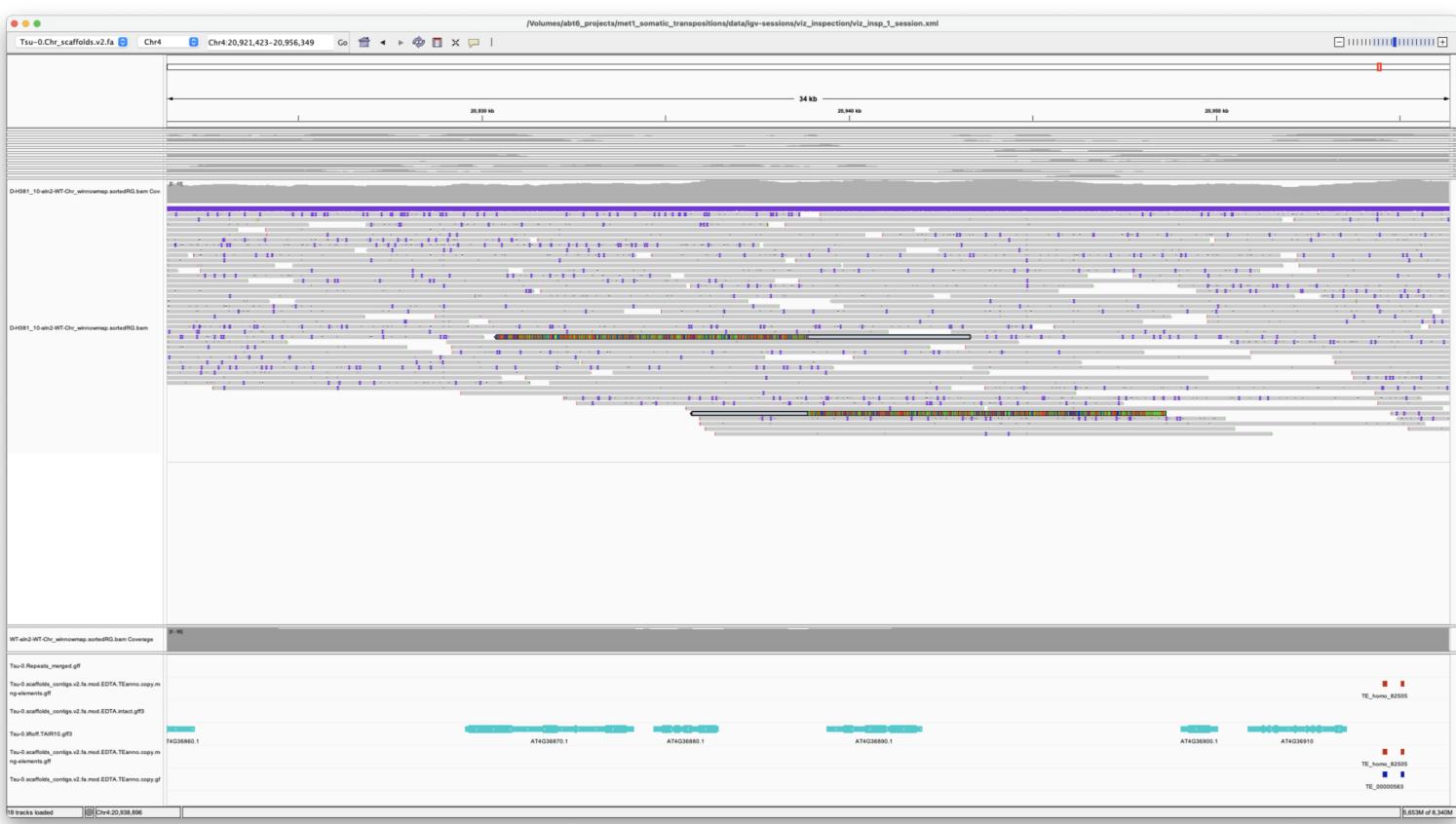
Chr4 16408459 16408459 + 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/77595626/ccs met1_10



Partial

Confirmed

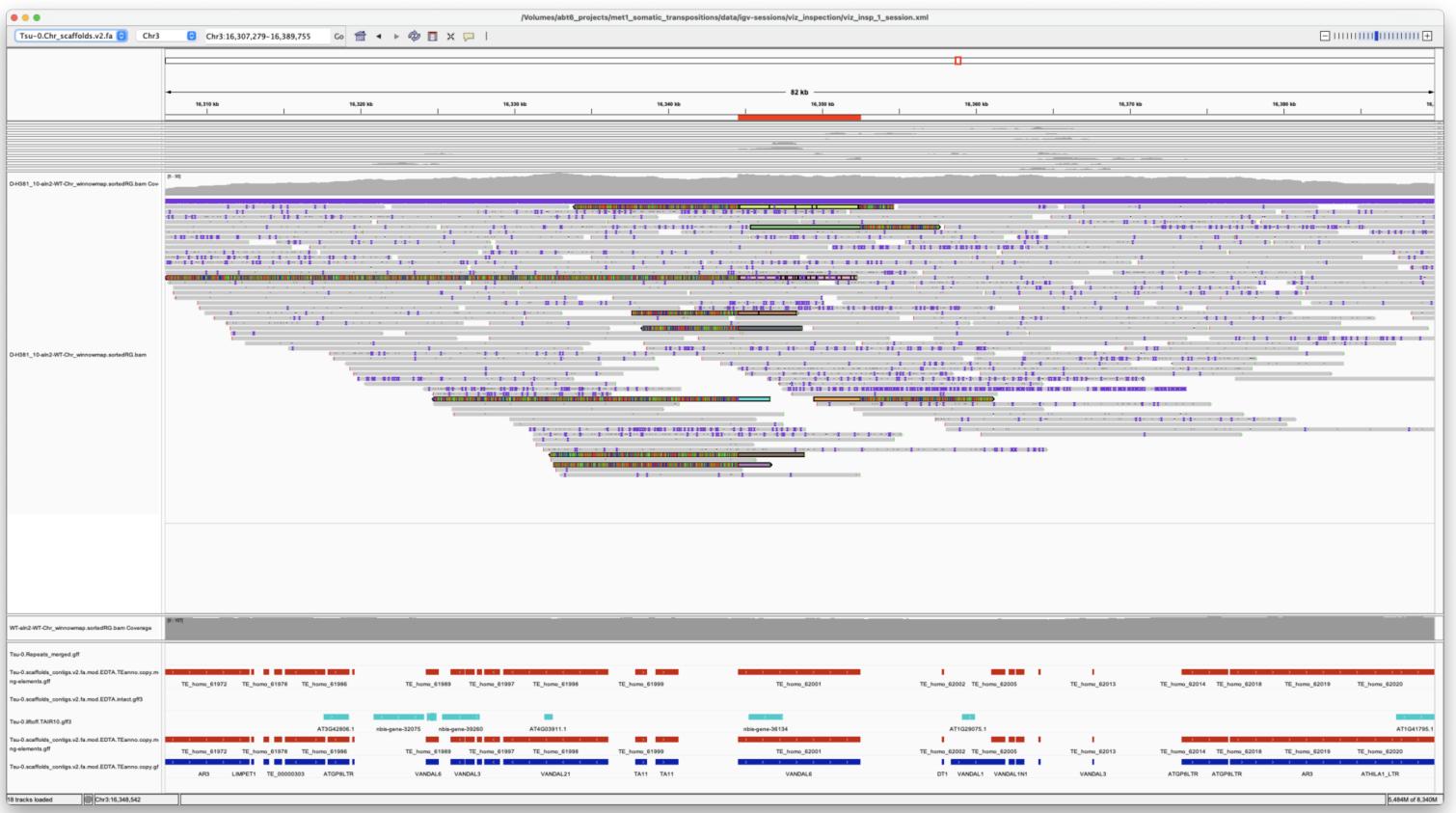
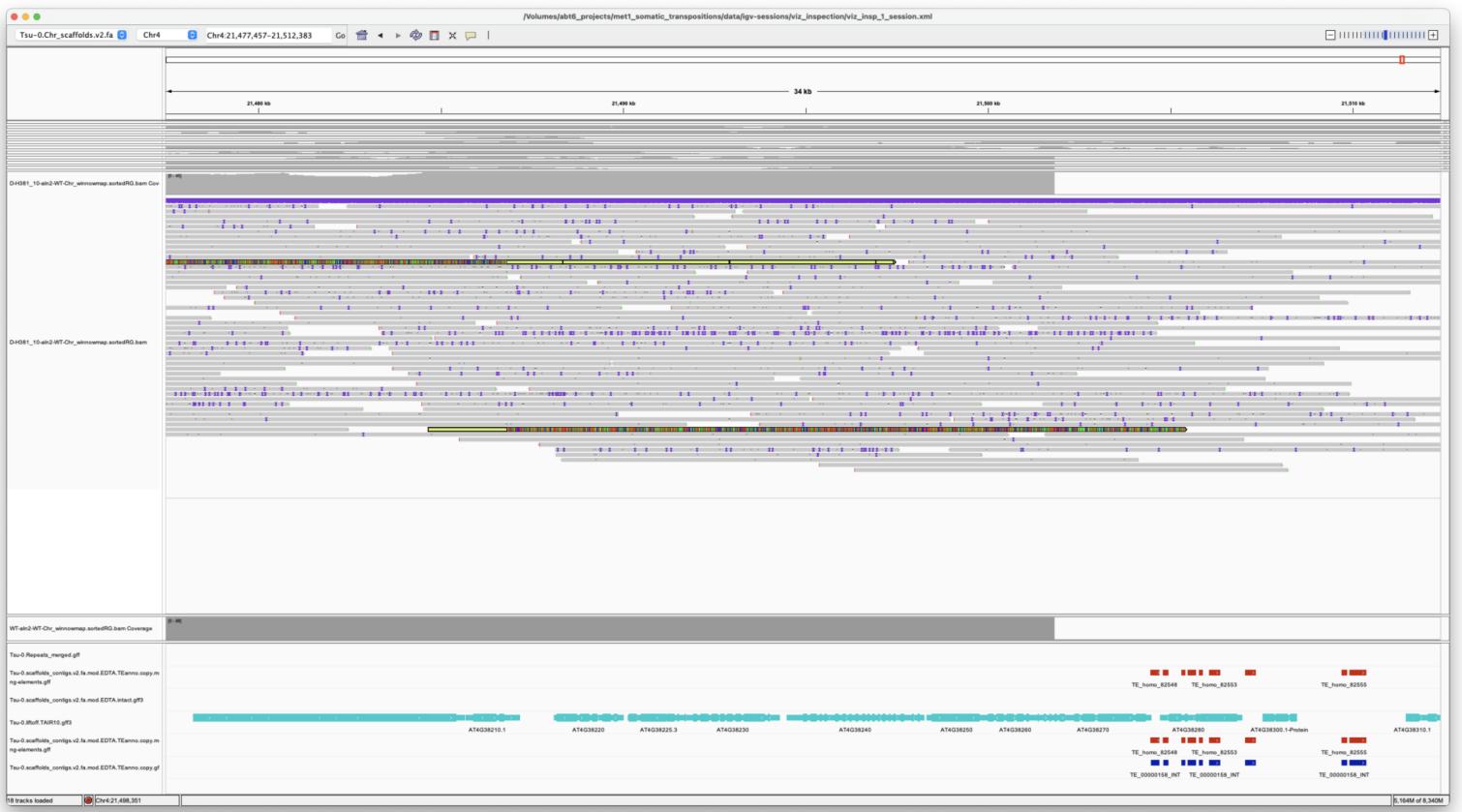
Chr4 20938887 20938887 - 1 Chr1;11941106;11946436;ATCOPIA93_Evade m64079_221220_112036/154403691/ccs met1_10



Central
TSD

Confirmed

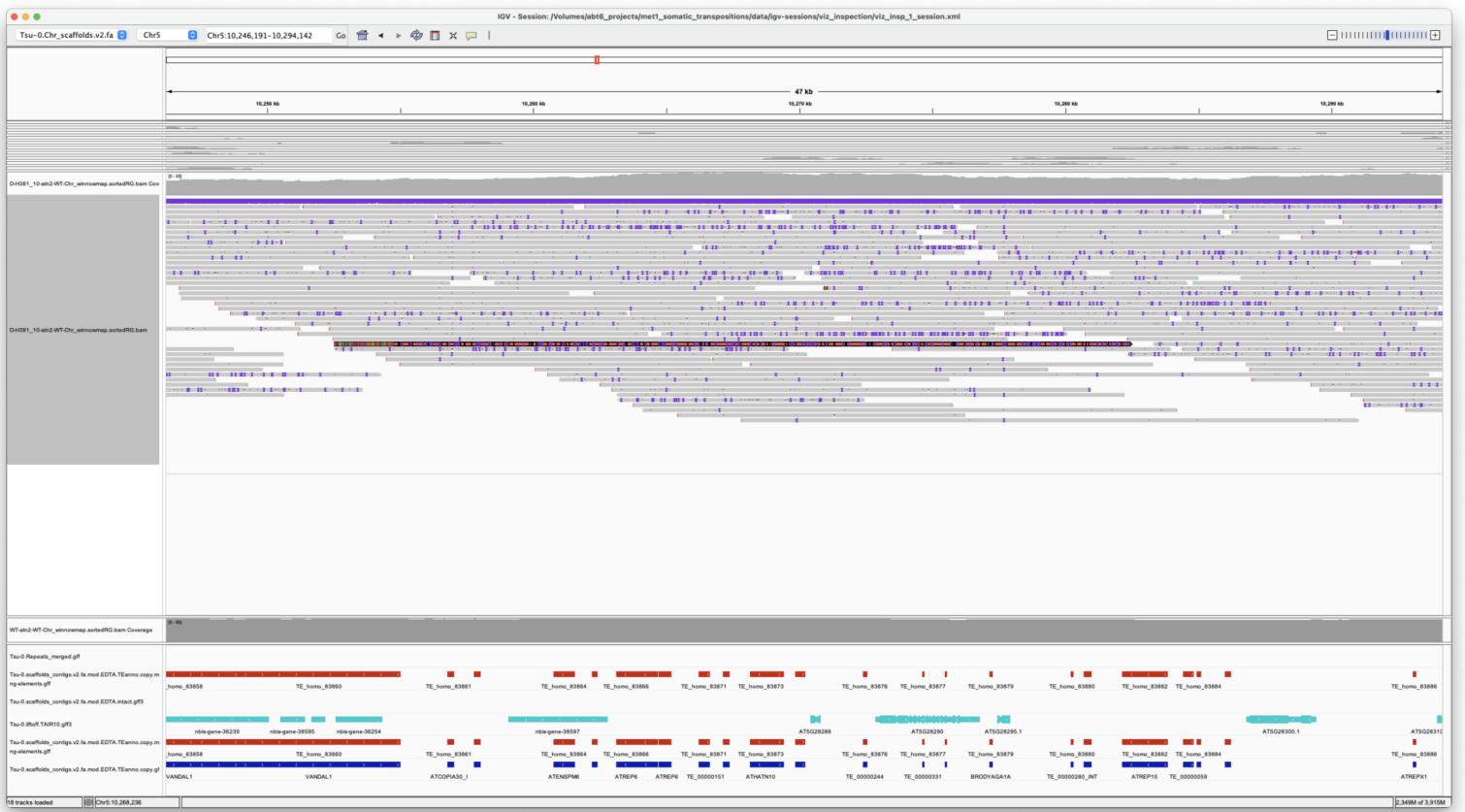
Chr4 21486823 21486823 + 1 Chr3;16344522;16352497;VANDAL6 m64079_221220_112036/90048082/ccs met1_10



Central

Confirmed

Chr5 10254763 10254763 + 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/73926086/ccs met1_10



Partial

Confirmed

Chr5 15974204 15974204 - 1 Chr5;19872565;19877095;VANDAL21 m64079_240212_113350/144048955/ccs met1_10

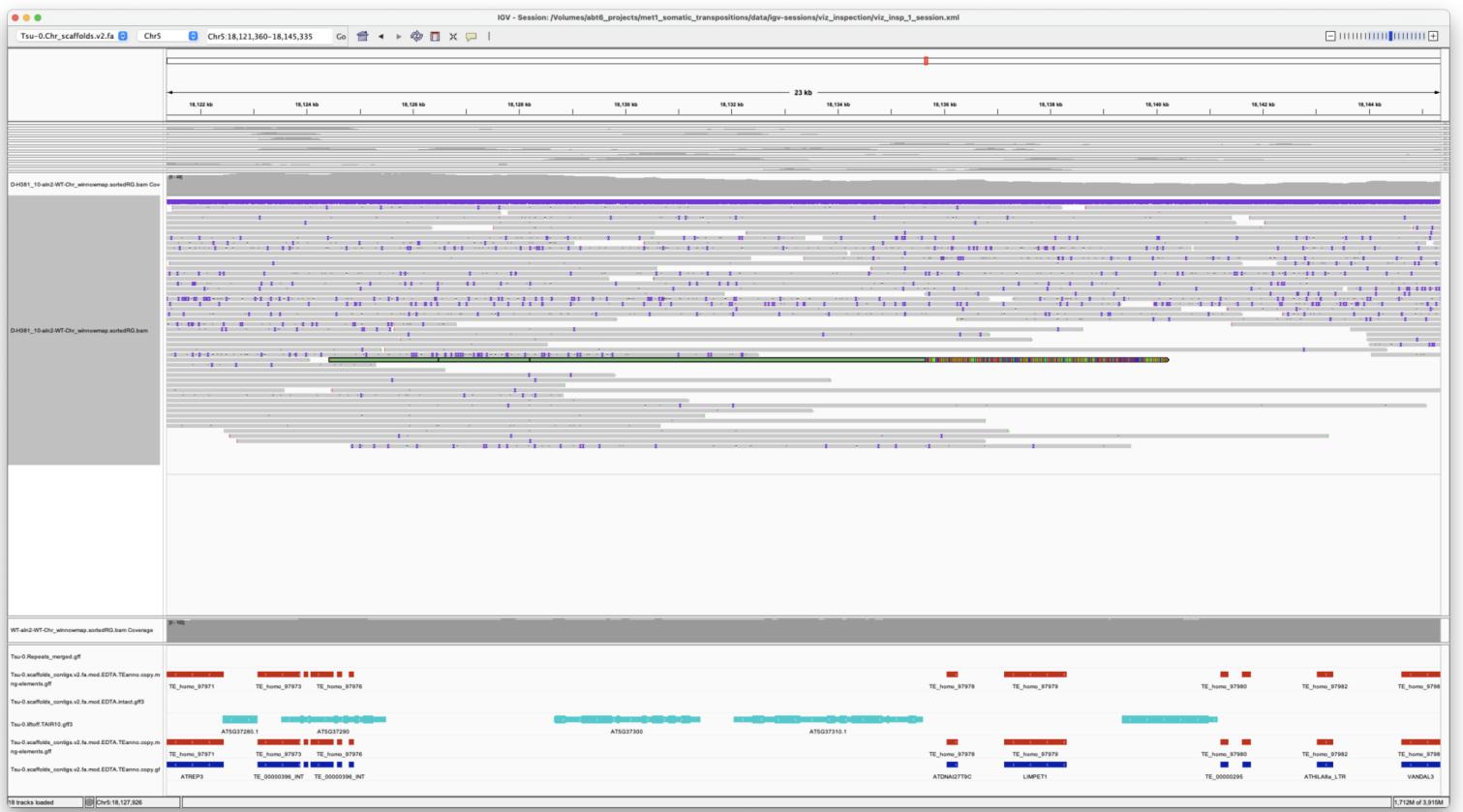
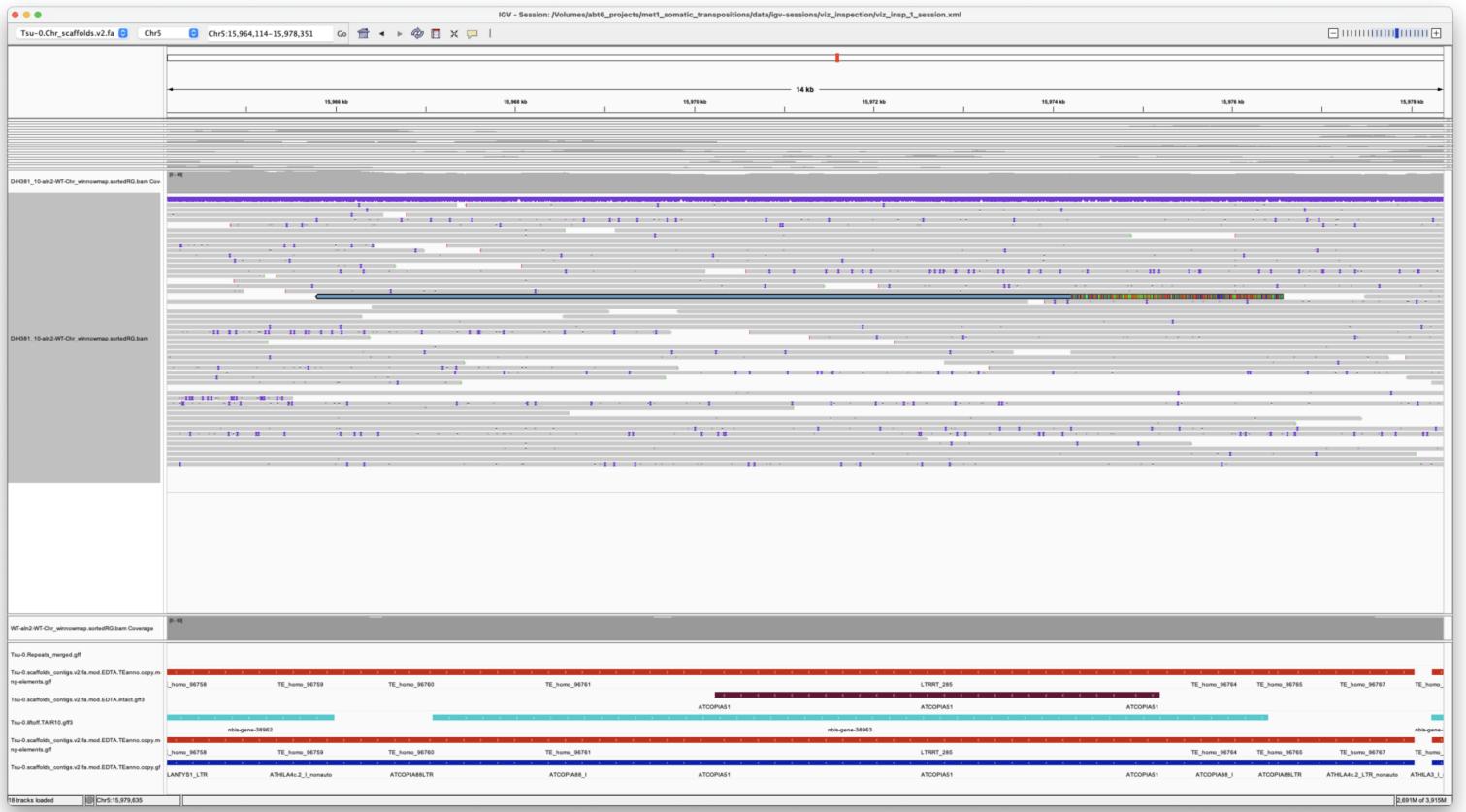
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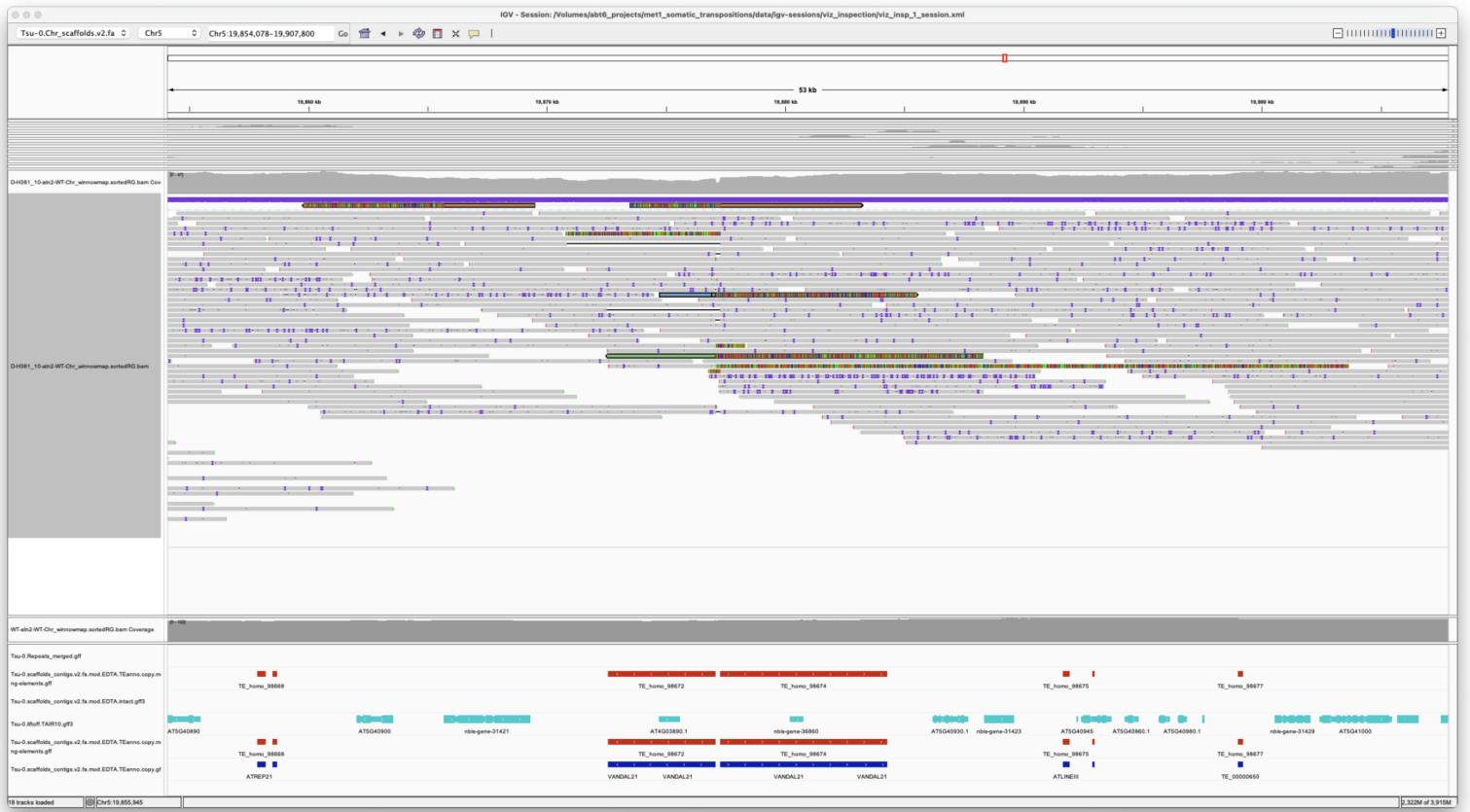
Chr5 18135651 18135651 - 1 Chr5;19872565;19877095;VANDAL21 m64079_240212_113350/166003235/ccs met1_10

unsupported

Chr5 19865711 19865711 - 1 Chr5;19877283;19884298;VANDAL21 m64079_221220_112036/120390570/ccs met1_10

unsupported



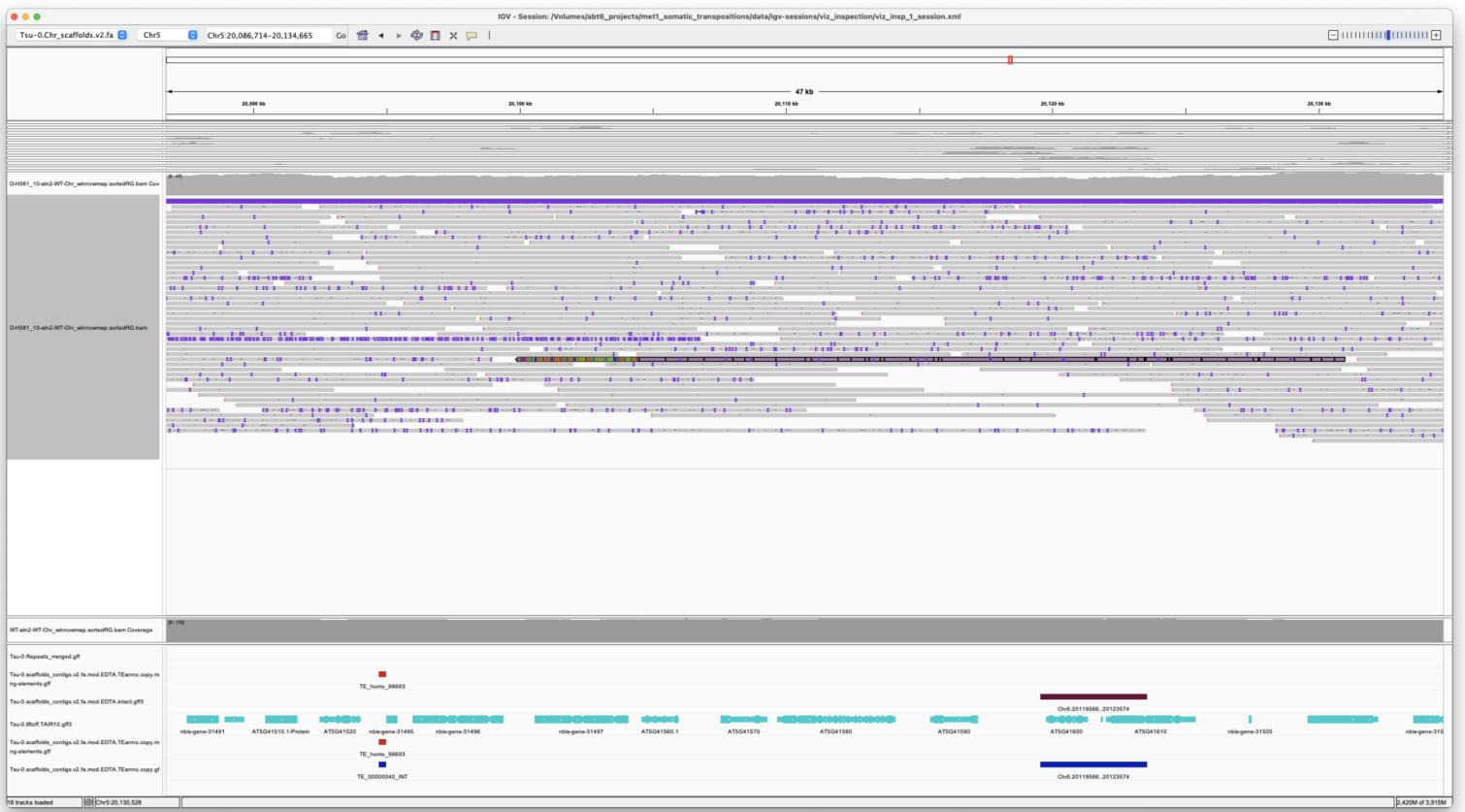


Chr5 20104411 20104411 + 1 Chr5:19872565;19877095;VANDAL21 m64079_240212_113350/104006494/ccs met1_10

Hypermutable region

unsupported

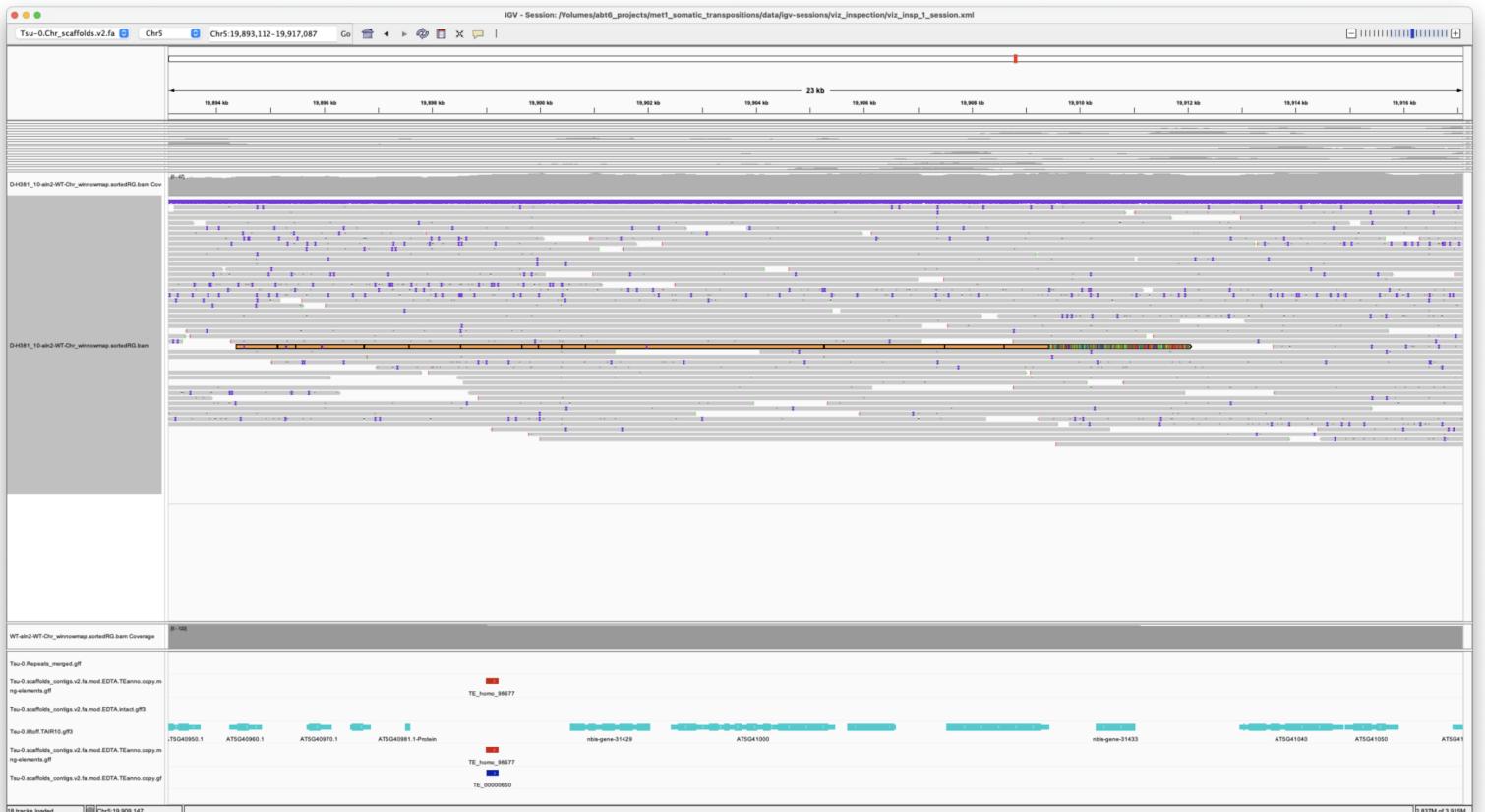




ALL REARRANGEMENTS

Rearrangement

Chr5 19909428 19909428 - 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/160170644/ccs met1_10

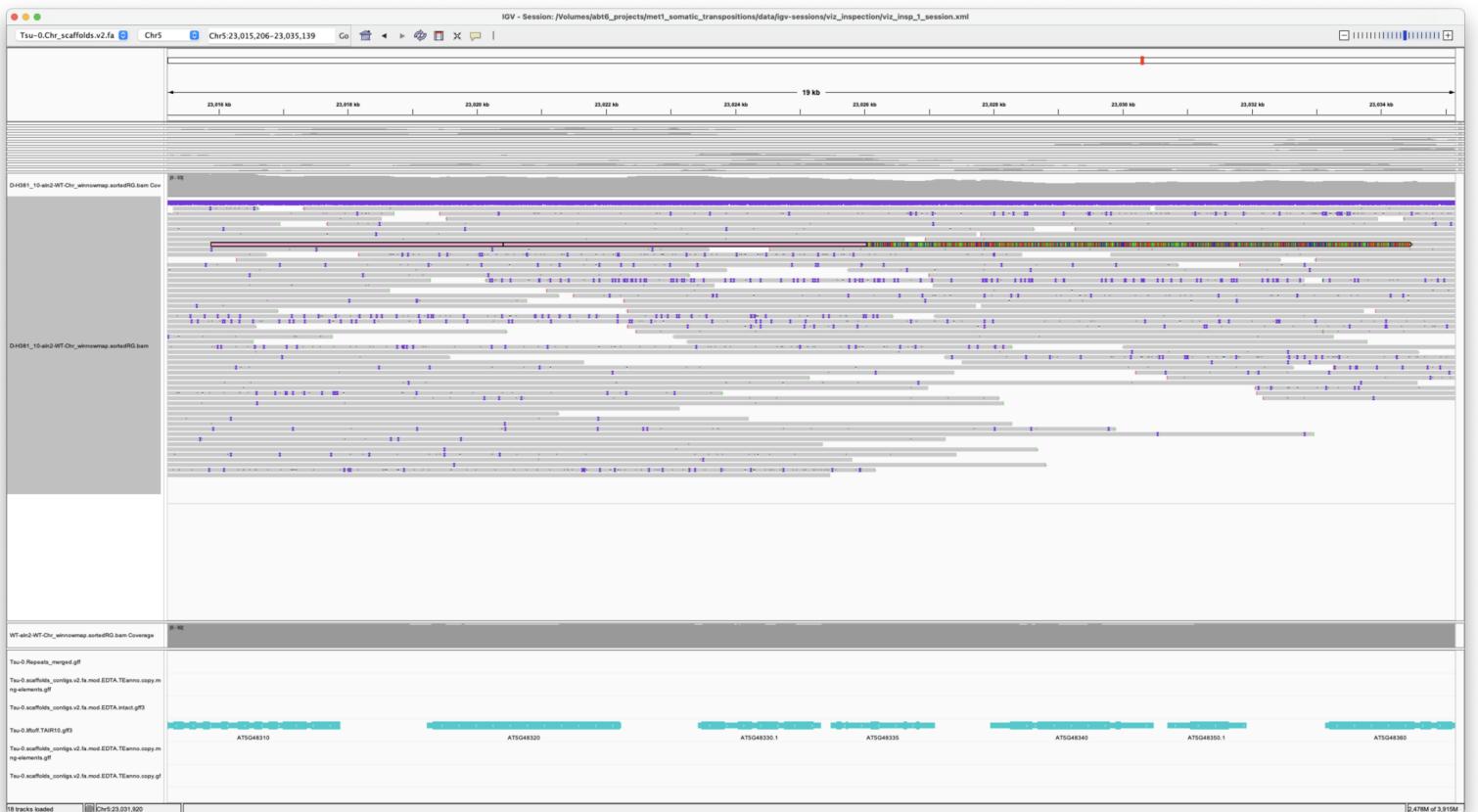


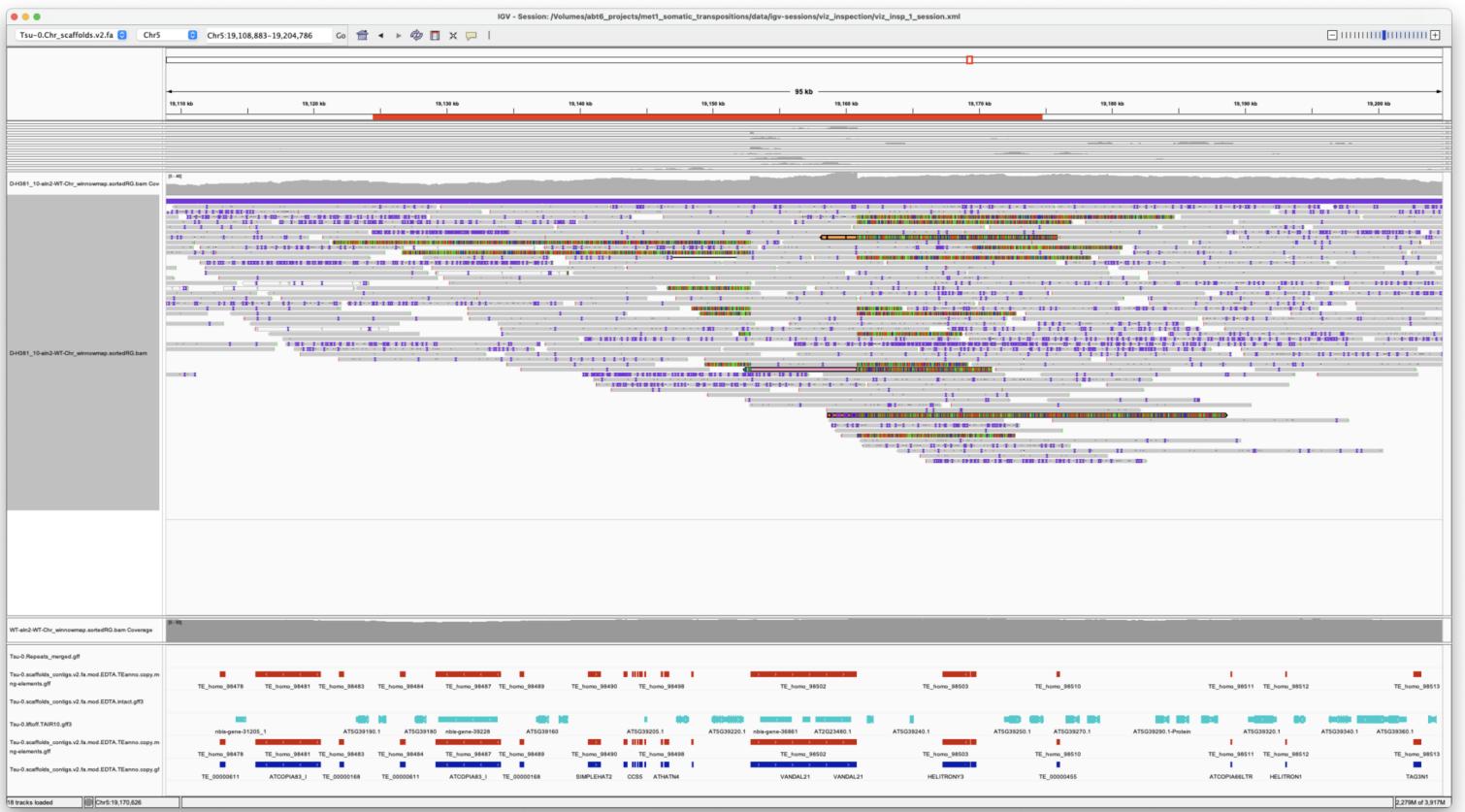


Partial

Confirmed

Chr5 23026038 23026038 - 1 Chr5;19152829;19160826;VANDAL21 m64079_221220_112036/113183496/ccs met1_10

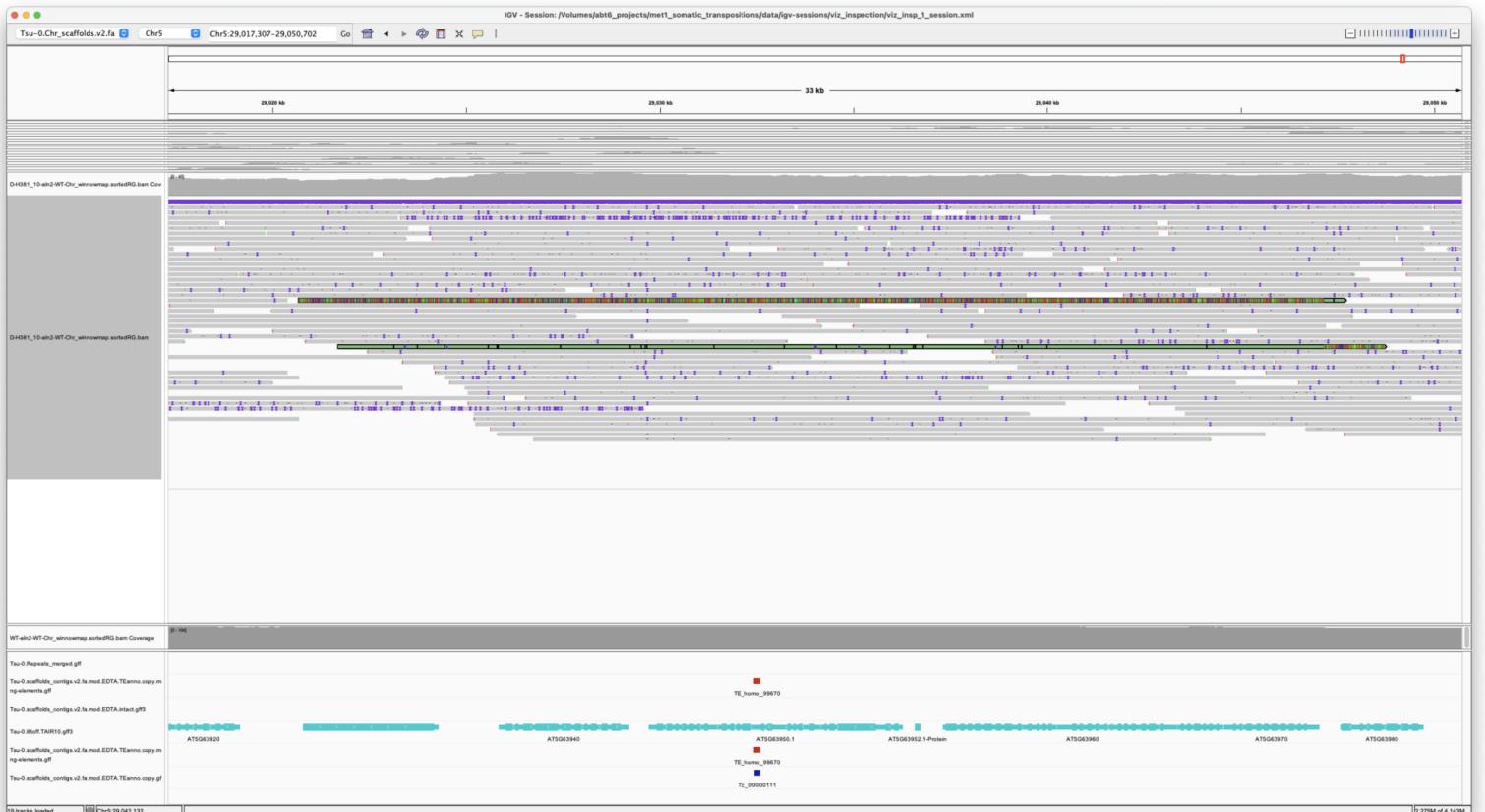


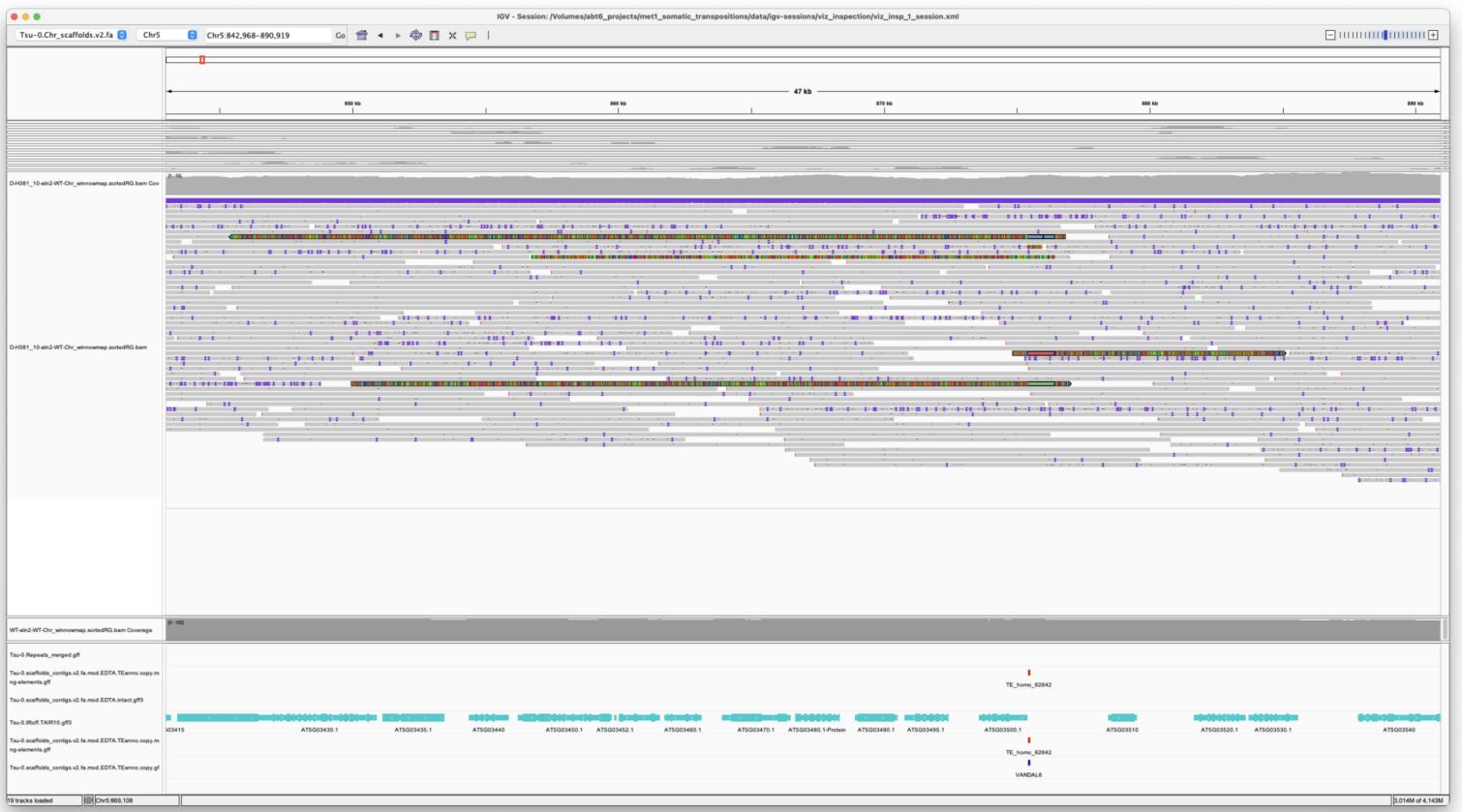


Partial

Confirmed

Chr5 29047155 29047155 + 1 Chr5:875414;876434;PAC m64079_221220_112036/118751517/ccs met1_10



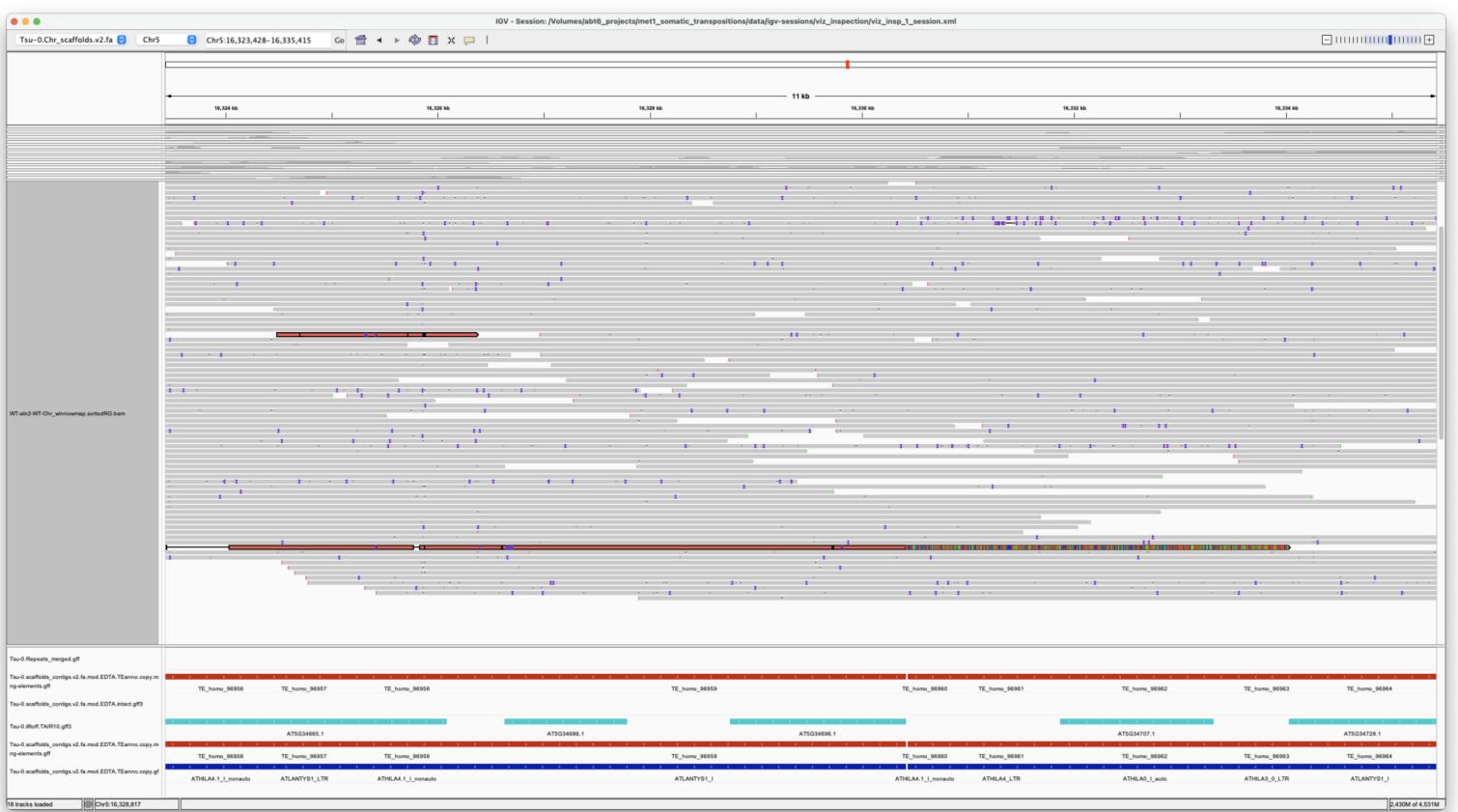


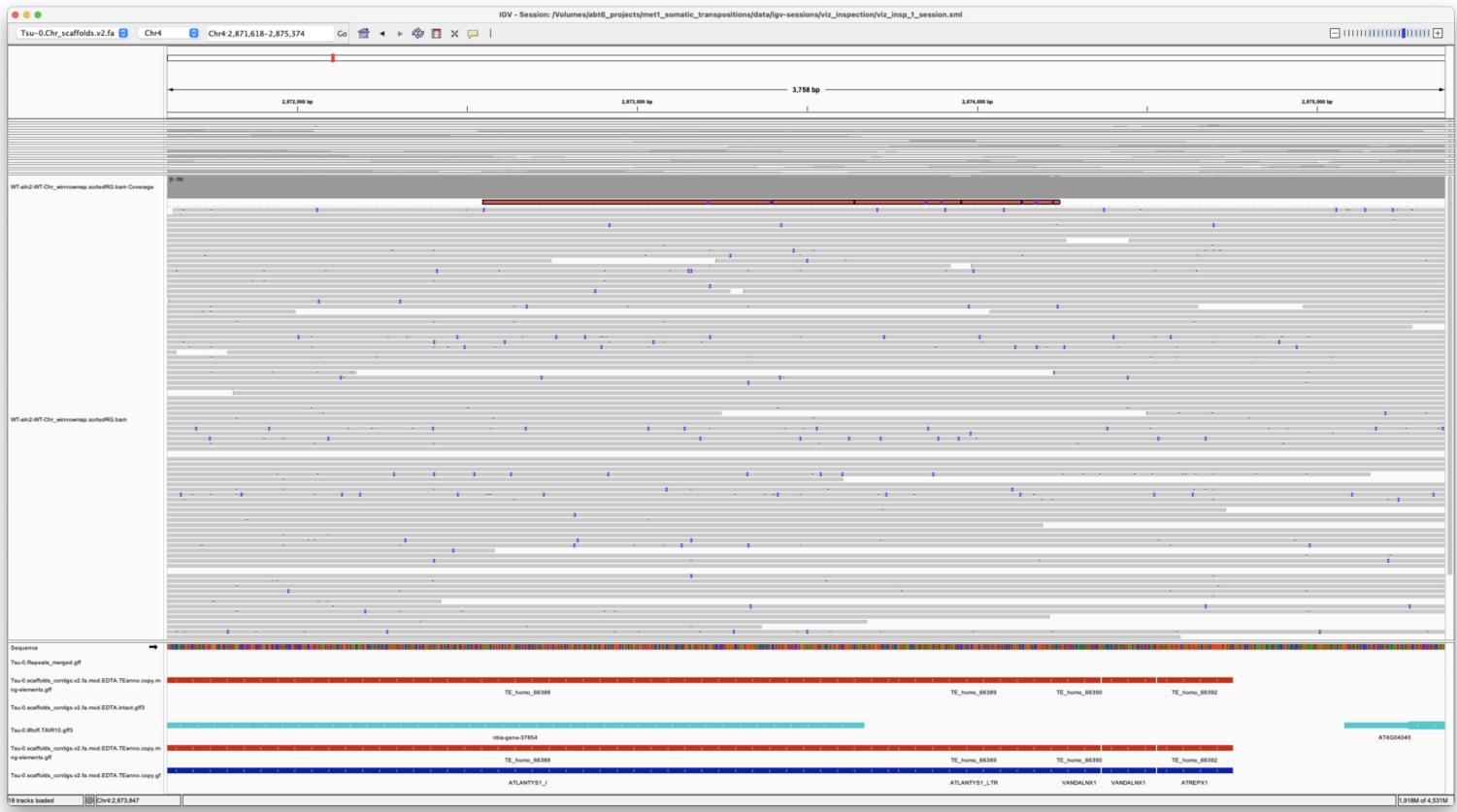
Partial

Confirmed

WT

Chr5 16330415 16330415 + 1 Chr4;2862691;2874240;ATLANTYS1_LTR m64079_220303_191344/2163209/ccs WT

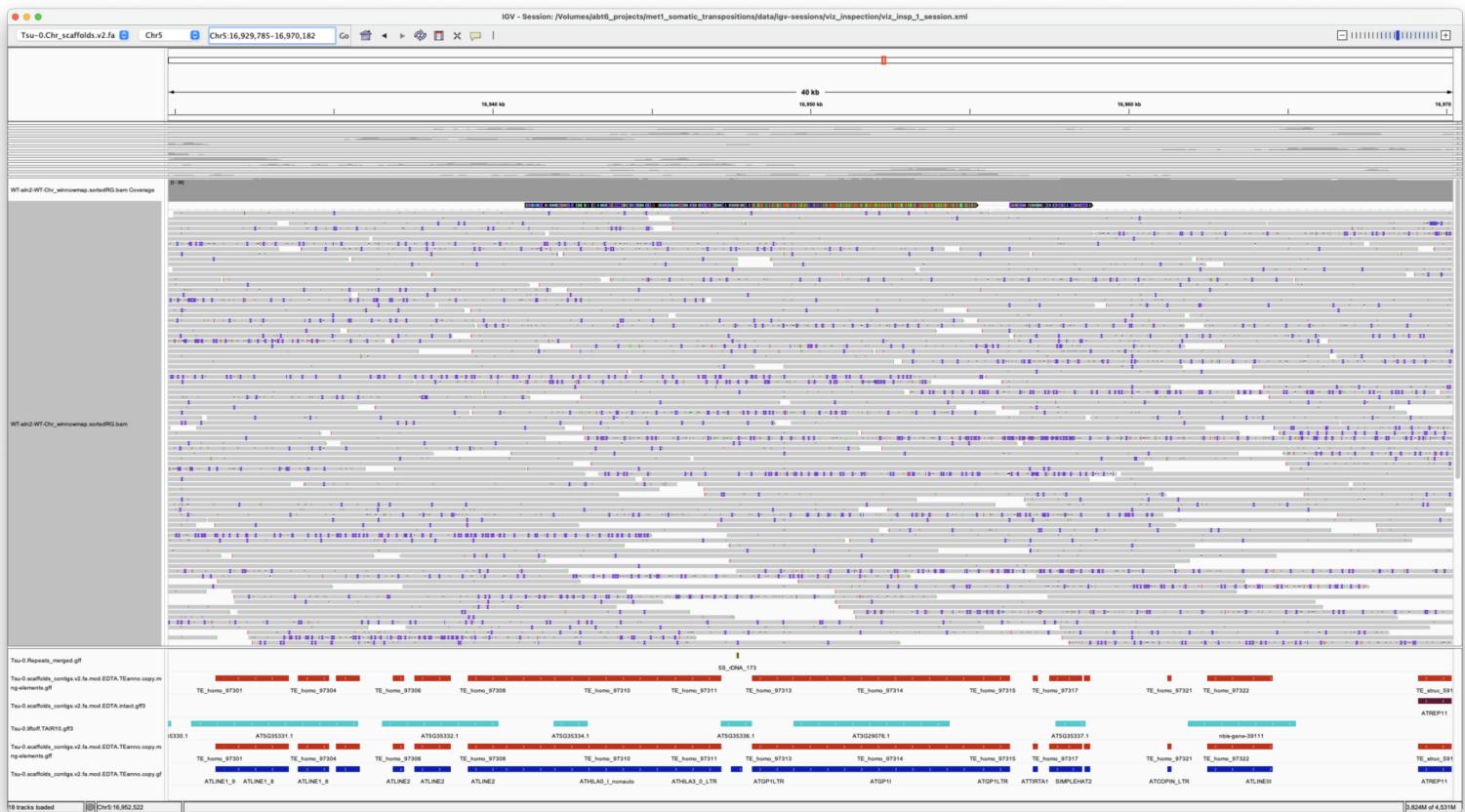


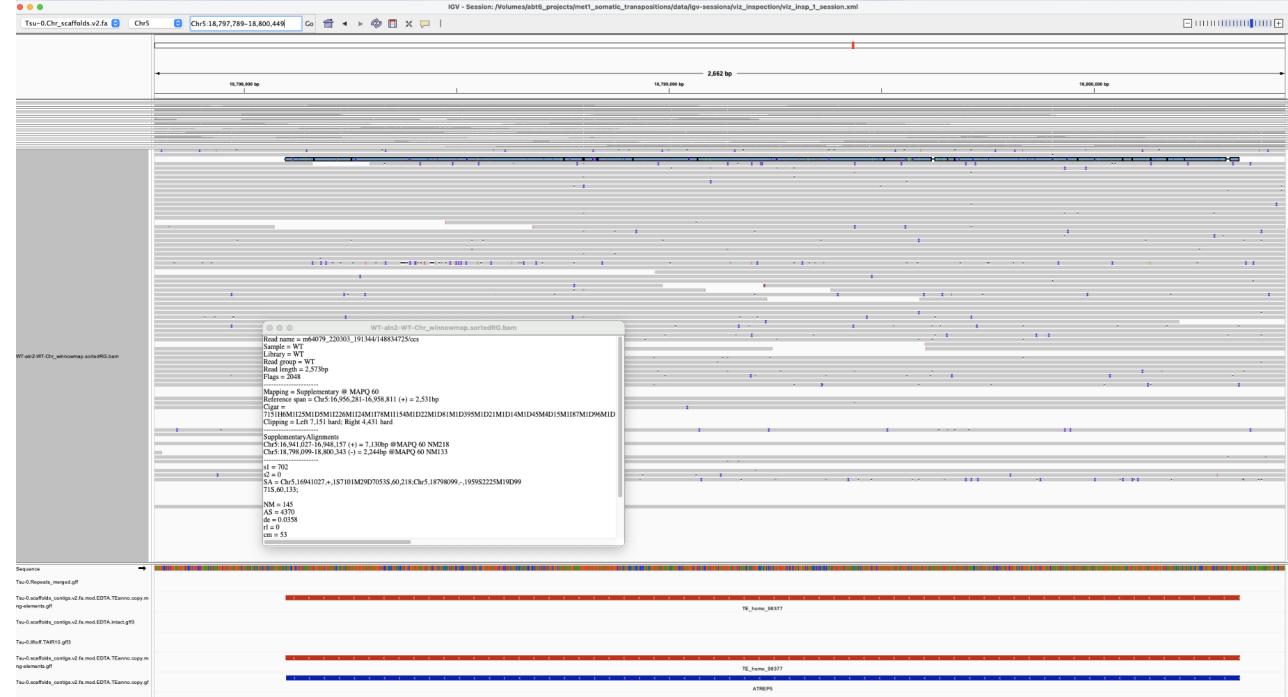


Probably just a rearrangement. It is not a whole TE insertion. Illegitimate recombination involved?

Rearrangement

Chr5 16958811 16958811 - 1 Chr5;18798099;18800344;ATREP5 m64079_220303_191344/148834725/ccs WT





Not even Rearrangement

Something weird