

IGV - Session: /cl\_tmp/fischech/sturmbauer/project\_cichlid\_genomes/pt/for\_publication/sessionFiles/igv\_session\_proteins\_functional\_annotation.xml

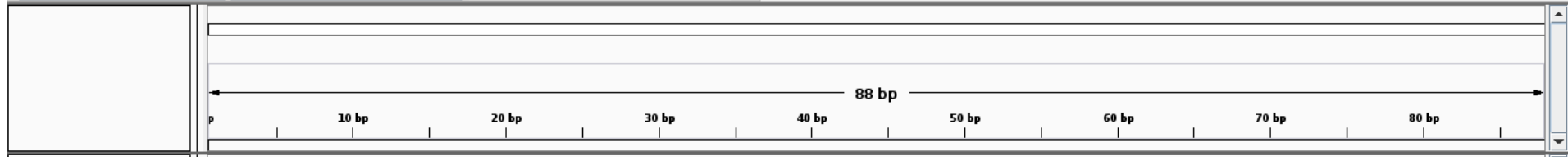
File Genomes View Tracks Regions Tools Help

pt\_genome\_draft\_v1... PT1\_T0000000362-R1 PT1\_T0000000362-R1:1-311 Go

Sequence  
InterProScan  
eggNOG

Type: functional\_element  
 Parent: PT1\_T0000000362-R1  
 parent\_location: scaffold\_1 12282 42204  
 gene: PT1\_T0000000362  
 database: finOG  
 ID: ENOG410N937  
 signature\_desc: shisa homolog 5 (Xenopus laevis)  
 feature\_location: 1 188  
 feature\_coverage: 0.603  
 seed\_eggNOG\_ortholog: 8128.ENSONIP00000006577  
 predicted\_gene\_name: SHISA5  
 GO terms: -  
 KEGG\_pathways: map04115  
 OGs: 0AQ3G@biNOG,0E3NB@chorNOG,0JREX@euNOG,0N937@finOG,0W2GF@meNOG,0YNKU@NOG,14702@opiNOG,1DAUZ@veNOG  
 bestOG|evalue|score COG cat: 0N937|1.49785332372e-50|172.256317139  
 eggNOG: 0

3 tracks loaded PT1\_T0000000362-R1:134 637M of 2.113M

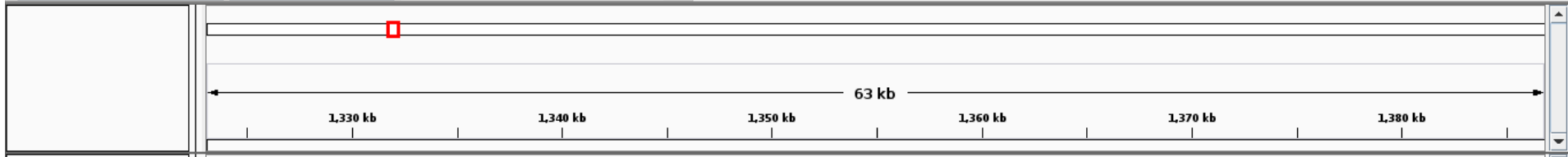


Sequence → MMARAGNSHLLTVLSYPNAGHLIEPPYTPHARSSTFKTVEIEEKVMCLWGGQTV EHSRAQEDAWKKMVVFLRENLYGGRNP T S FSHL

InterProScan

eggNOG

Type: functional\_element  
Parent: TM1\_T0000000004-R1  
parent\_location: scaffold\_1 32174 35625  
gene: TM1\_T0000000004  
feature\_location: TM1\_T0000000004-R1 1 76  
database: Pfam  
ID: PF08840  
signature\_desc: BAAT / Acyl-CoA thioester hydrolase C terminal  
Dbxref: InterPro:IPR014940,Reactome:R-HSA-75105  
GO\_terms: -  
ext\_desc\_ipr: IPR014940,Domain,BAAT/Acyl-CoA thioester hydrolase C-terminal  
ext\_desc\_go: -  
ext\_desc\_reactome: R-HSA-75105,Fatty acyl-CoA biosynthesis  
ext\_desc\_panther: -



Gene

T0000000418-R3 PT1\_T0000000419-R2 PT1\_G0000000420 PT1\_T0000000421-R1 PT1\_T0000000422-R1 PT1\_T0000000

Structures & Functions v1.0

Repeats v1.0

tRNAs

Rfam (ncRNAs, sRNAs)

lncRNAs (predicted)

CpG islands

Microsatellites

ORFs

Reapr errors

The tracks show various genomic features. The Gene track displays gene models with exons as blue boxes and introns as lines with arrows. The Structures & Functions v1.0 track shows protein domain structures. Repeats v1.0 shows repetitive elements as blue bars. tRNAs, Rfam, and lncRNAs are shown as small blue bars. CpG islands are shown as blue bars. Microsatellites are shown as vertical lines. ORFs are shown as horizontal lines with arrows. Reapr errors are shown as small blue bars.

IGV - Session: /cl\_tmp/fischech/sturbauer/project\_cichlid\_genomes/tm/for\_publication/sessionFiles/igv\_session\_genome\_basic\_annotation\_tracks.xml

File Genomes View Tracks Regions Tools Help

Tropheus moorii v1.0 scaffold\_1 scaffold\_1:1,846,835-2,264,303 Go

1,900 kb 2,000 kb 414 kb 2,100 kb 2,200 kb

Gene  
0000096-R1 TM1\_T0000000098-R1 TM1\_T0000000099-R1 TM1\_T0000000102-R1 TM1\_T0000000106-R1 TM1\_T0000000108-R6 TM1\_T0000000110-R1 TM1\_T0000000111-R1

Structures & Functions v1.0

Repeats v1.0

tRNAs

Rfam (ncRNAs, sRNAs)

lncRNAs (prediction)

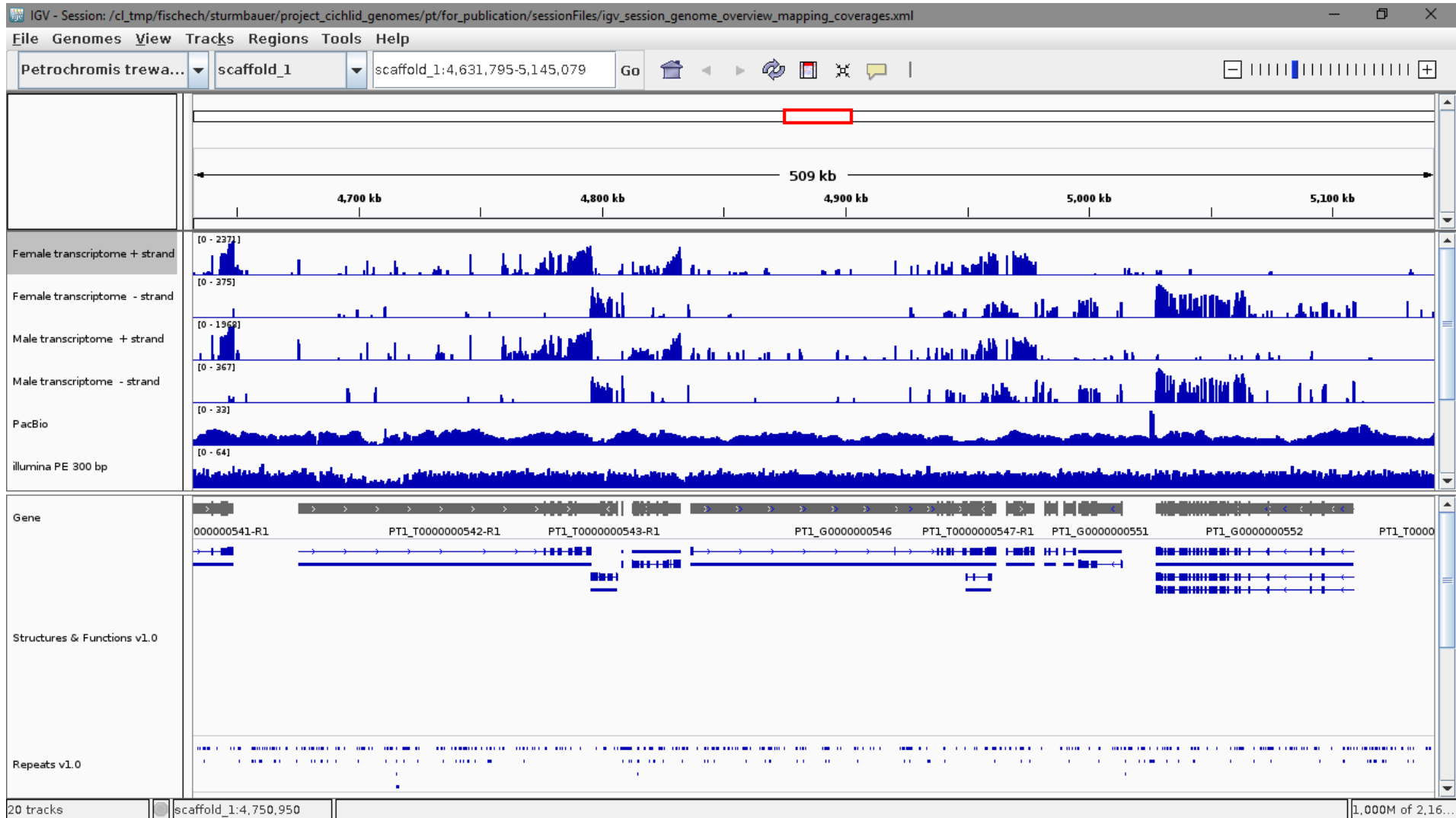
CpG islands

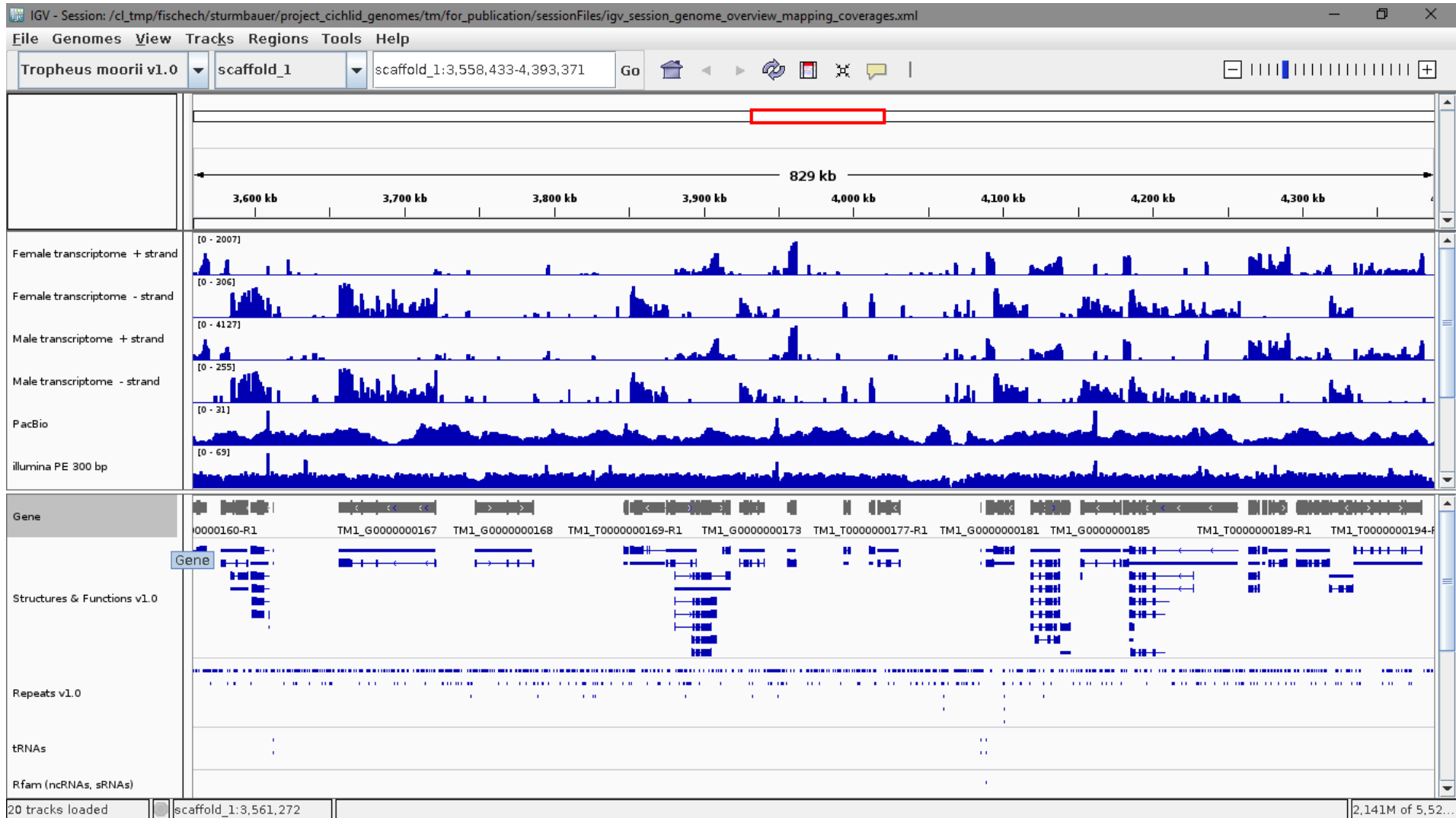
Microsatellites

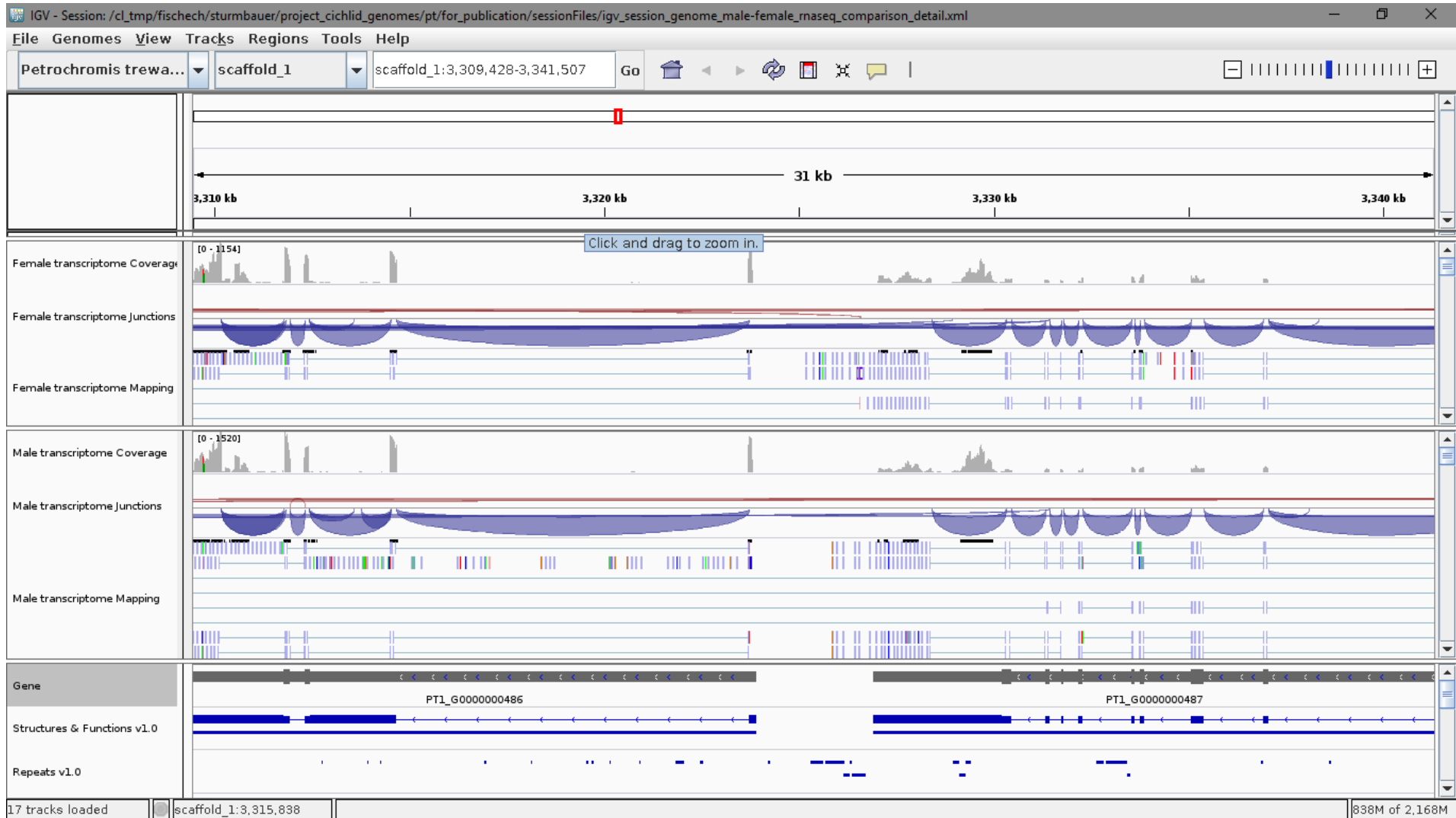
ORFs

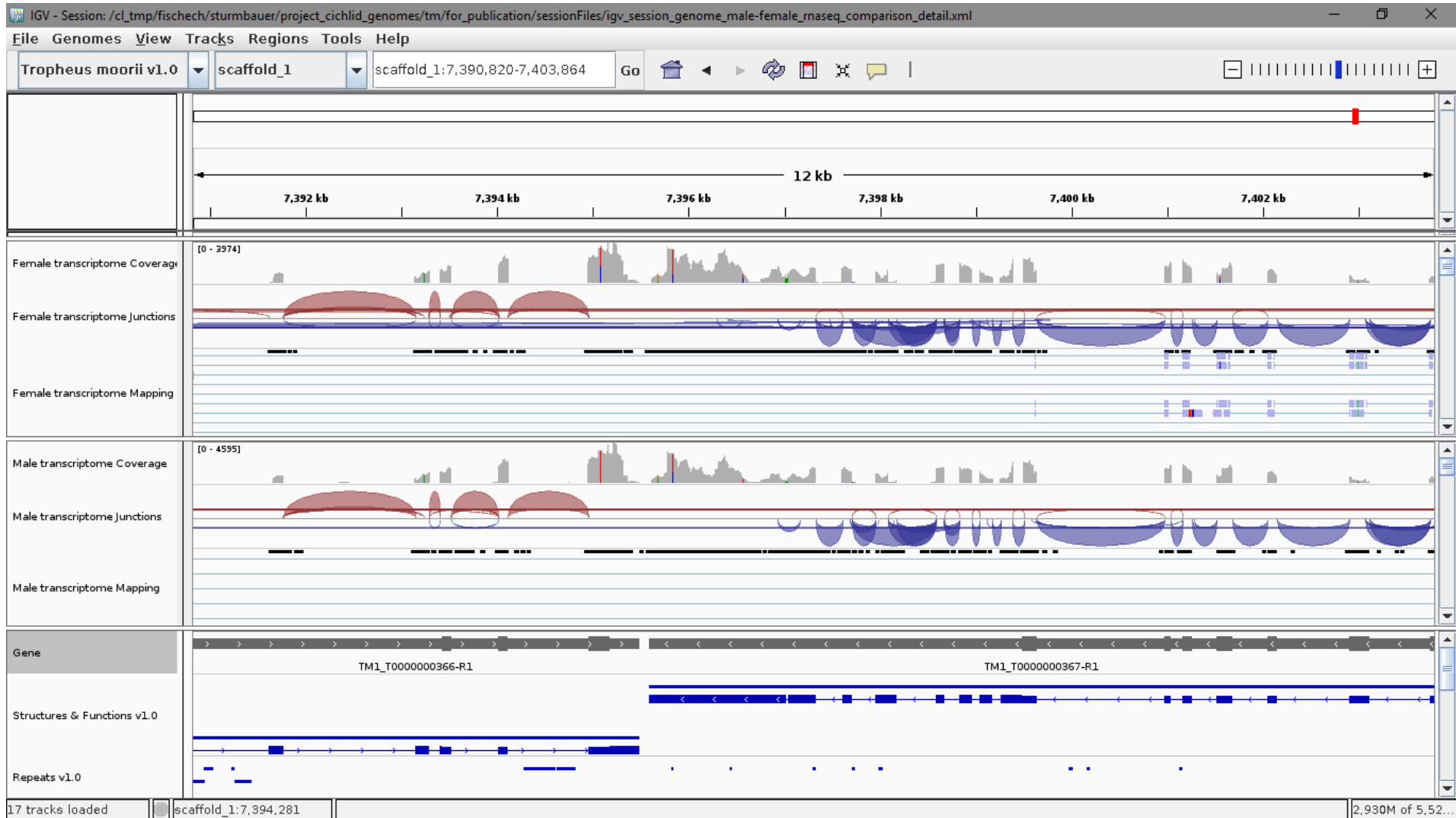
Reapr errors

11 tracks scaffold\_1:2,049,180 3,048M of 5,52...











The mouse-overs should also work:

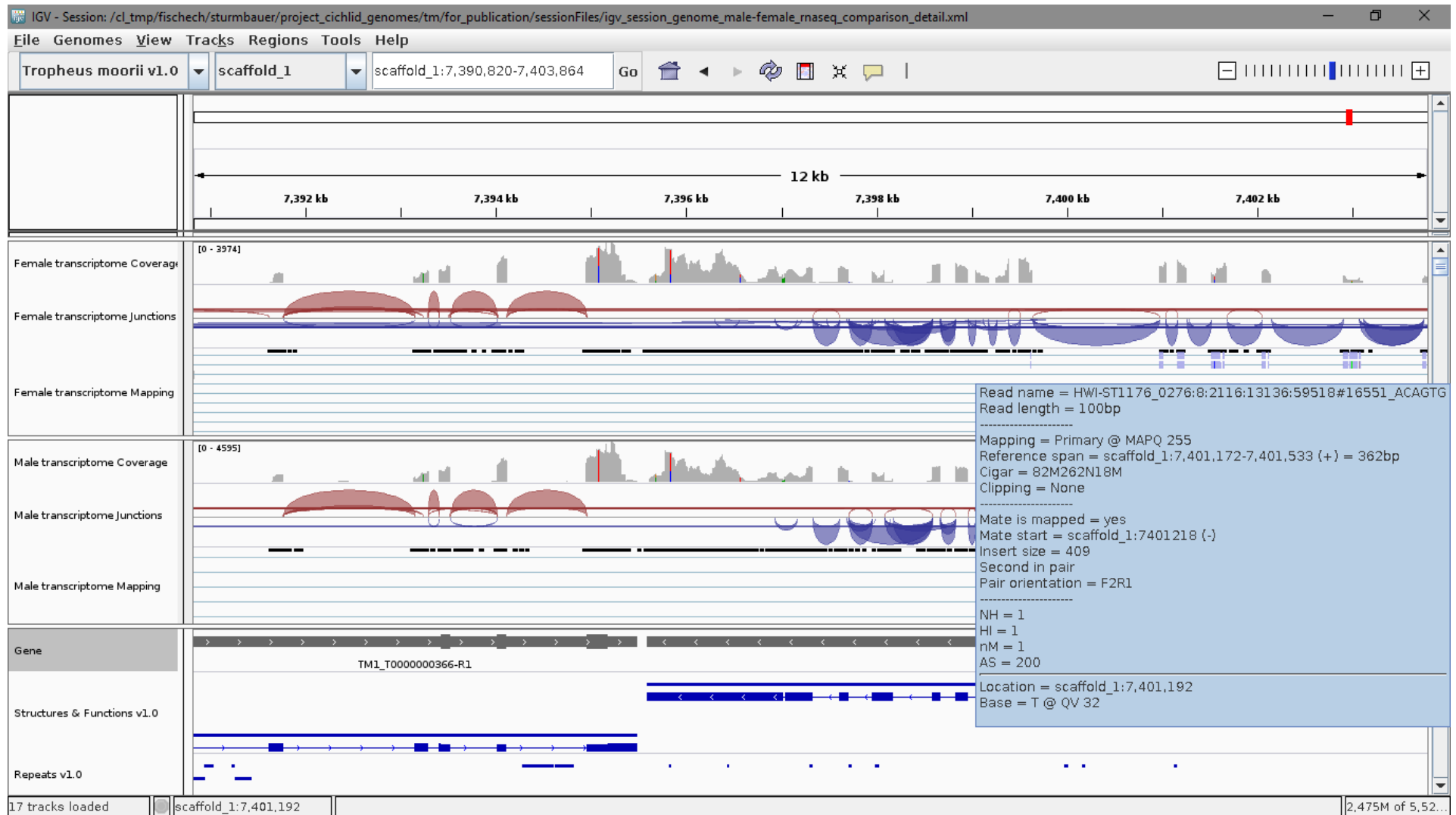
The screenshot displays the IGV interface for a session on *Tropheus moorii*. The main window shows a genomic region on scaffold\_1 from 7,390,820 to 7,403,864 bp. The tracks include:

- Female transcriptome Coverage (0 - 3974)
- Female transcriptome Junctions
- Female transcriptome Mapping
- Male transcriptome Coverage (0 - 4595)
- Male transcriptome Junctions
- Male transcriptome Mapping
- Gene: TM1\_T0000000366-R1
- Structures & Functions v1.0
- Repeats v1.0

The mouse-over window provides detailed information for the selected feature:

- Type:** mRNA
- ID:** TM1\_T0000000367-R1
- Parent:** TM1\_G0000000367
- note:** related\_db\_entry~PREDICTED: TNFAIP3-interacting protein 1 isoform [Haplochromis burtonii] || gi|554811171|ref|XP\_005916451.1||go\_terms~GO:0002755,GO:0043124,GO:0050727,GO:0070373||parent\_location~scaffold\_1\_7395589\_7407629\_||seed\_eggNOG\_ortholog~8128.ENSONIP00000022343,predicted\_gene\_name~TNIP1,bestOG~OMZFU,eggNOG~T||database~MobiDBLite,db\_id~mobidb-lite,signature\_desc~consensus disorder prediction,feature\_location~TM1\_T0000000367-R1\_1\_31\_(protein\_coordinates)||database~finOG,db\_id~ENOG410MZFU,signature\_desc~TNFAIP3 interacting protein 1,feature\_location~TM1\_T0000000367-R1\_1\_400\_(protein\_coordinates)||database~PANTHER,db\_id~PTHR31882,feature\_location~TM1\_T0000000367-R1\_1\_400\_(protein\_coordinates)||database~PANTHER,db\_id~PTHR31882:SF10,feature\_location~TM1\_T0000000367-R1\_1\_400\_(protein\_coordinates)||database~Coils,db\_id~Coil,feature\_location~TM1\_T0000000367-R1\_29\_80\_(protein\_coordinates)||database~Gene3D,db\_id~G3DSA:1.10.287.510,feature\_location~TM1\_T0000000367-R1\_201\_396\_(protein\_coordinates)||database~Coils,db\_id~Coil,feature\_location~TM1\_T0000000367-R1\_213\_265\_(protein\_coordinates)||database~MobiDBLite,db\_id~mobidb-lite,signature\_desc~consensus disorder prediction,feature\_location~TM1\_T0000000367-R1\_265\_313\_(protein\_coordinates)||database~Coils,db\_id~Coil,feature\_location~TM1\_T0000000367-R1\_318\_338\_(protein\_coordinates)||database~Coils,db\_id~Coil,feature\_location~TM1\_T0000000367-R1\_350\_384\_(protein\_coordinates)|||ext\_desc\_go~GO:0002755,biological\_process,MyD88-dependent toll-like receptor signaling pathway|GO:0043124,biological\_process,negative regulation of I-kappaB kinase/NF-kappaB signaling|GO:0050727,biological\_process,regulation of inflammatory response|GO:0070373,biological\_process,negative regulation of ERK1 and ERK2 cascade|||ext\_desc\_ipr~IPR033372,Family,TNFAIP3-interacting protein 1|||ext\_desc\_panther~PTHR31882,FAMILY NOT NAMED,-|PTHR31882:SF10,TNFAIP3-INTERACTING PROTEIN 1,-|||ext\_desc\_reactome~R-HSA-5689896,Ovarian tumor domain proteases||nt\_db\_hit~PREDICTED: Neolamprologus brichardi TNFAIP3-interacting protein 1-like (LOC102795602) mRNA || gi|583972617|ref|XM\_006781656.1|
- Type:** three\_prime\_UTR
- ID:** TM1\_T0000000367-R1:three\_prime\_utr
- Parent:** TM1\_T0000000367-R1

Structures & Functions mouse-over example



Read Mapping mouse-over example