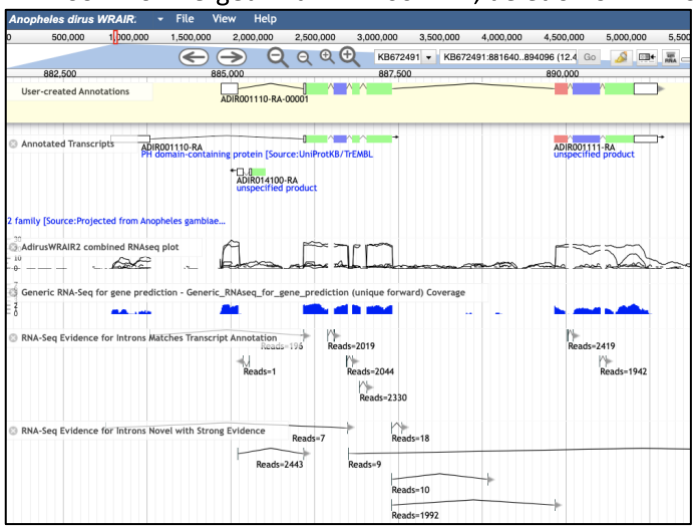
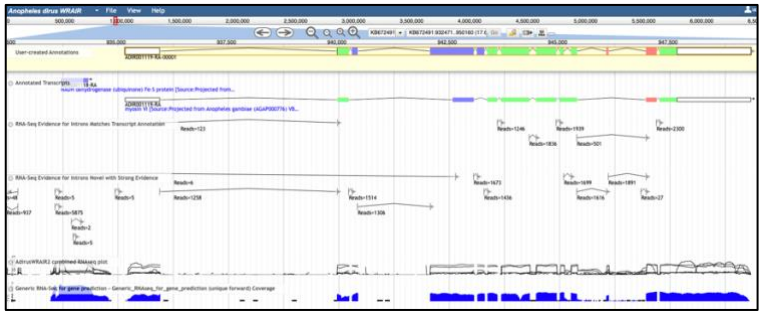
***Anopheles dirus* WRAIR2**

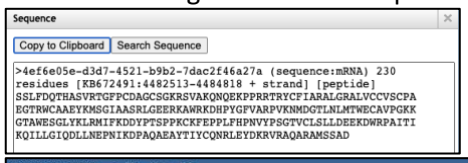
ADIR001110: merged with ADIR001111, deletion of ADIR014100 on reverse strand



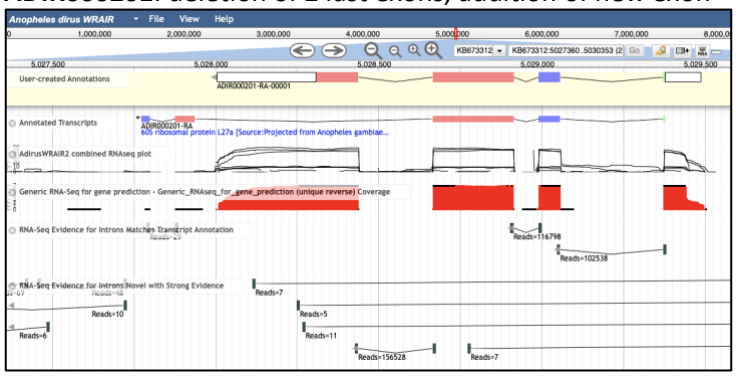
ADIR001119: Addition of exons, correction of exon-intron boundaries



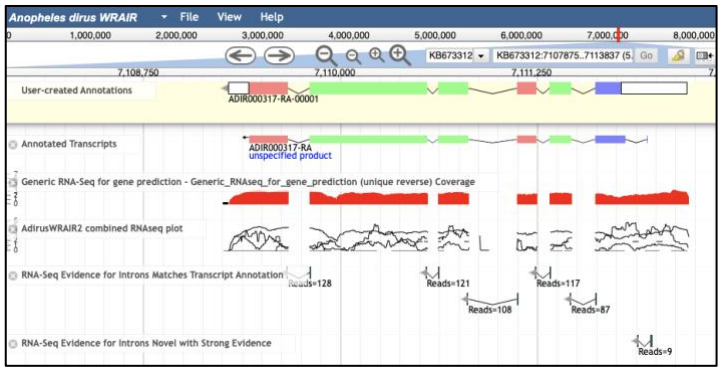
ADIR001359: Current annotation does not start with Met. Solution: Use the option in Apollo: find optimal ORF from the right-click menu. Apollo automatically creates a gene that starts with Met.



ADIR000201: deletion of 2 last exons, addition of new exon



ADIR000317: Deletion of first exon



***Anopheles albimanus* STECLA**

AALB008457: Current annotation does not start with Met. Solution: Use the option in Apollo: find optimal ORF from the right-click menu. Apollo automatically creates a gene that starts with Met.

Transcript ID	Transcript Length	Protein Length	Transcript Type	Genomic Length
AALB008457-RA	1624	358	mRNA	1827

Predicted Protein Sequence

358 aa

Copy to clipboard

```
PRYTLAWTPWARRGVHLSSHLHVPDVVLSWGLAERFRVRNCRSISFAASPRAPLEVNIIAAPLLPLCNVTVIMKKFYVFL
LLVLPAVLLTVNTGASPLAFATEDETDEELVDVETEDAAVVSDDAESEDEPETTKSPDADTFLLFTRPLHASGSQLELPA
GYPVEFLVGFANKNQFEDFIVETVEASFRYSMDFNYYIQNFSAVAFNREVKPGHEATVSYSFLPSESFAGRPFGLNIALN
YRDSRGNQFSEAVFNETVQITEIDEGLDGETFFLYVFLAAIVILLLVLGQQFLGSYGKRKRTTTTRKVVETGTTNSKDVD
YEWIPAETLKQIQNSPKGGKSSPKQSPRQRKAAKQASS
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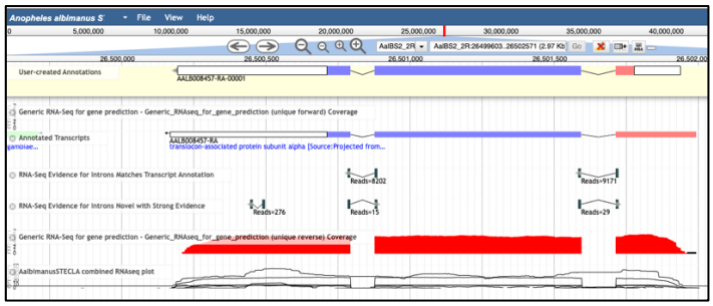
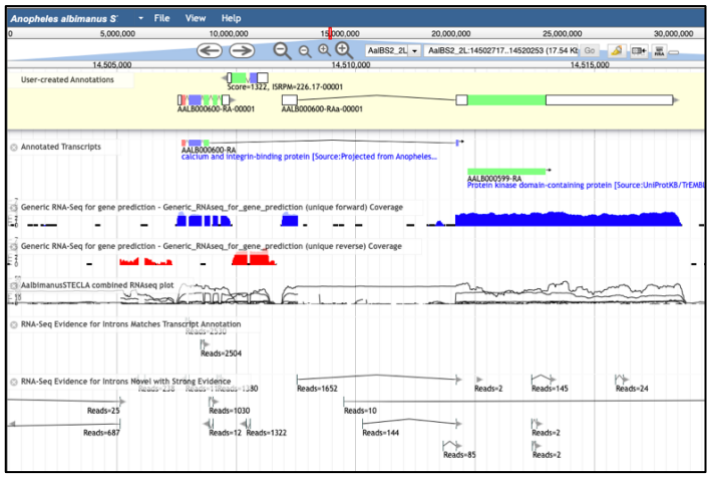


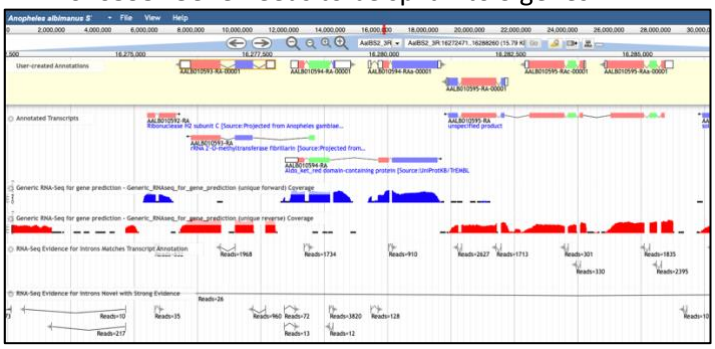
AALB000600: deletion of one exon, addition of 2 exons

New gene next to AALB000600: Oligosaccharyltransferase complex subunit OSTC based (IPR042416)

AALB000599: Addition of UTRs

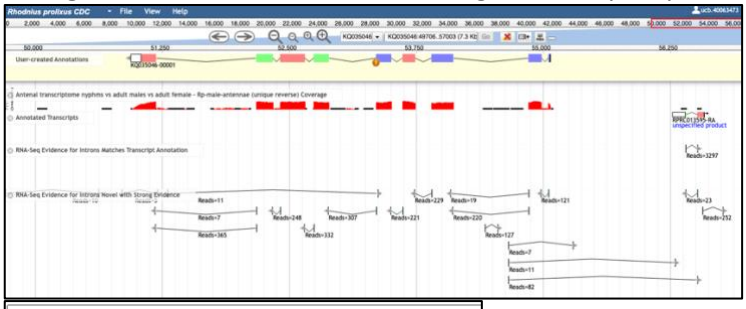


AALB010593: incorrect first exon
AALB010594: Gene needs to be split into 2 genes
AALB010595: Gene needs to be split into 3 genes



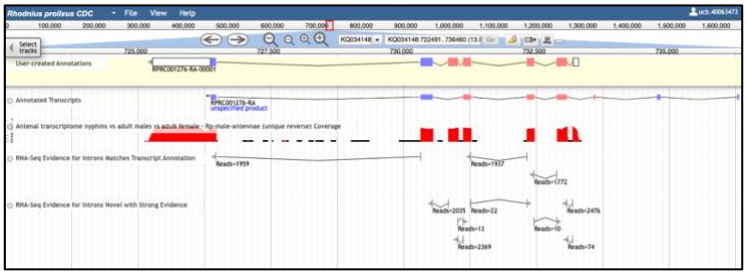
Rhodnius prolixus **CDC**

New gene next to RPRC013595: intraflagellar transport protein 52 (IPR039975)

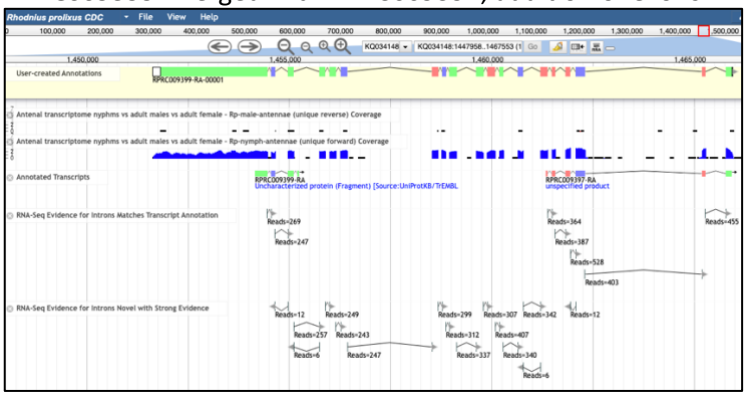


```
>459fa4dc-80fa-4471-8053-a5369a7c86fa (sequence:mRNA) 447
residues [KQ035046:50940-55074 - strand] [peptide]
MAPVEGPLNQDNYERSIVFDQSKNELFKLADNYKTFHRKLKLSWKVDINKDEIVPEALRD
VAVFVIPSPRERFTENEFNTLKGFLDGGGSVLVTLGEGGEKKFETNINYLLEEYGIMINN
DSVVRTHYFKYFHPKECLVPNGVLNRGIAKFVGKEVNKDFSQCLQFVYPYGASLNTAKPA
IPLLSSGPTSWPLNRPLCAITTLTPTPKVKSGGKICVFGSGHVFADRYLEKEDNTQLLNI
VISYLTSDDLQLDPIDVEDPEVAEYTVVADTCSVSERIRGCLIETTEELPSDYLSLFKTN
SMYWVGLDHVAKVISVYDNLDVPHGTLNLATPAFDDALPKLEAAVFPPRFLDLGPPALEL
YDLQEEFYSEVSRLSQTANKILSSSMKNQEANSTTDKTNQIEAELEDVEYFTLECGQILG
FGNAANAKSILWQVALTIGSFKKSVHK
```

RPRC010556: addition of 2 exons, deletion of 3 exons

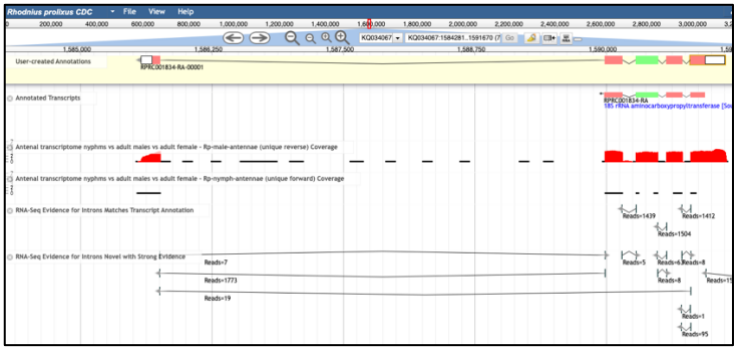


RPRC009399: merged with RPRC009397, addition of exons



New gene next to **RPRC006087** (nucleolar protein 11, IPR042859)

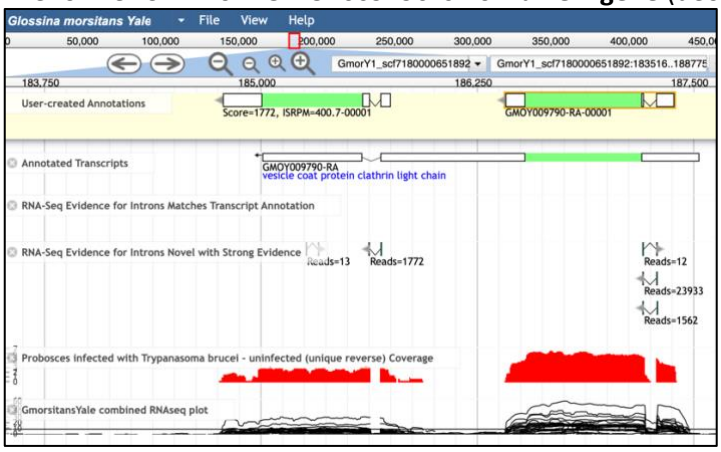
RPRC001834: addition of exon



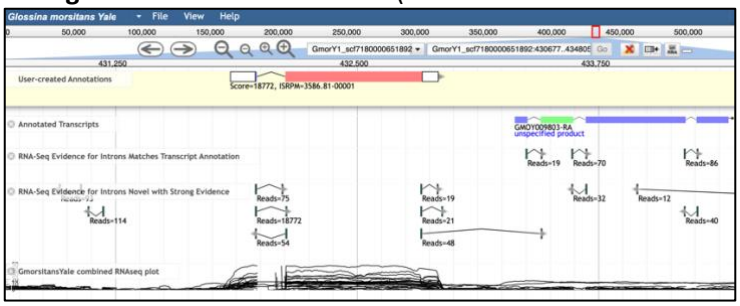
***Glossina morsitans* Yale**

GMOY009790: correction of UTR boundaries, corrected to 2-exon gene

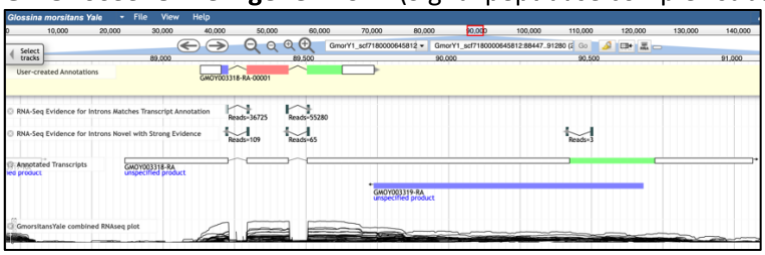
The former UTR from GMOY009790 is now a **new gene** (deoxycytidylate deaminase, IPR015517)



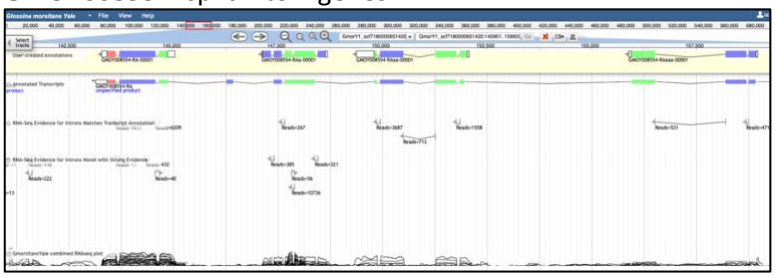
New gene next to GMOY009803 (viral IAP-associated factor homolog)



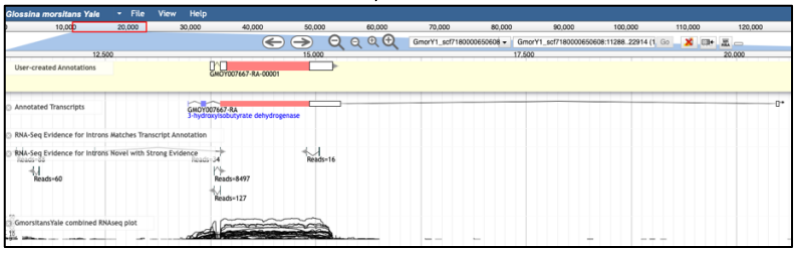
GMOY003318: **New gene** in UTR (Signal peptidase complex subunit 1)



GMOY008554: split into 4 genes.

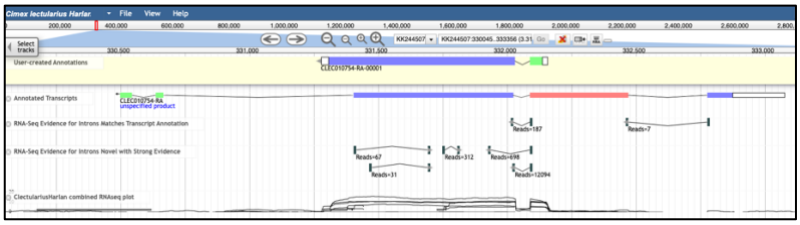


GMOY007667: 2 exons deleted, UTR corrected

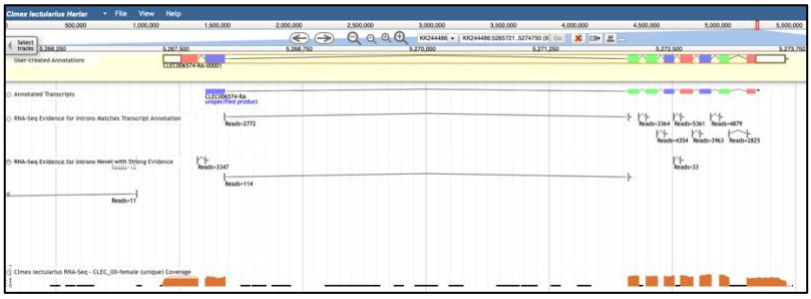


Cimex lectularius **Harlan**

CLEC010754: incorrect exons

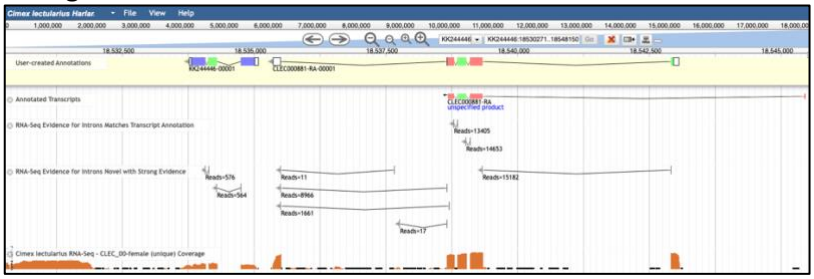


CLEC006574: incorrect exons

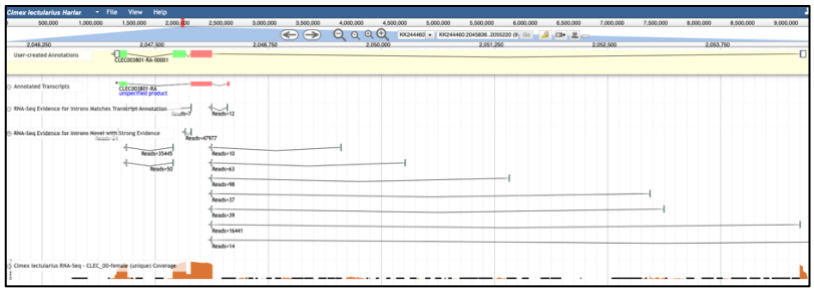


CLEC000881: incorrect exons

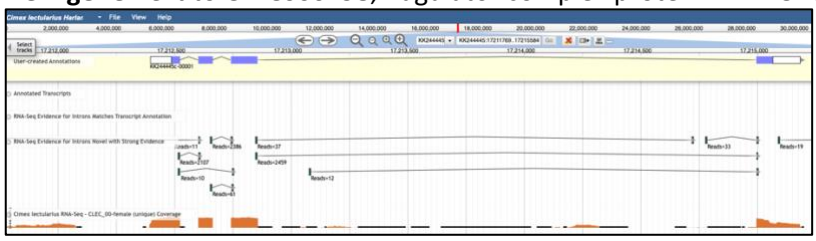
New gene next to CLEC000881



CLEC003801: incorrect exon



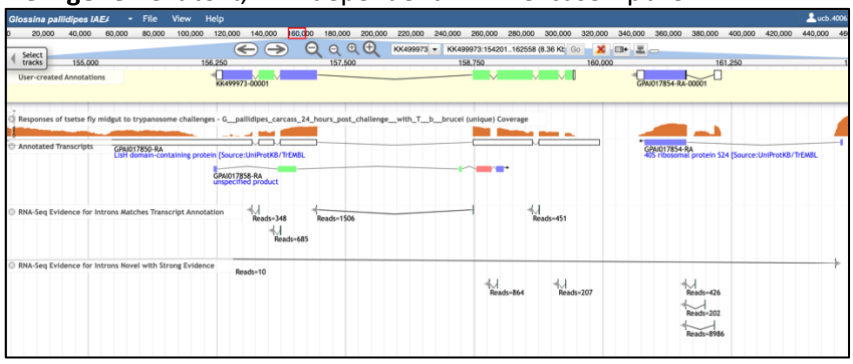
New gene next to **CLEC000298**, Ragulator complex protein LAMTOR5 (IPR024135)



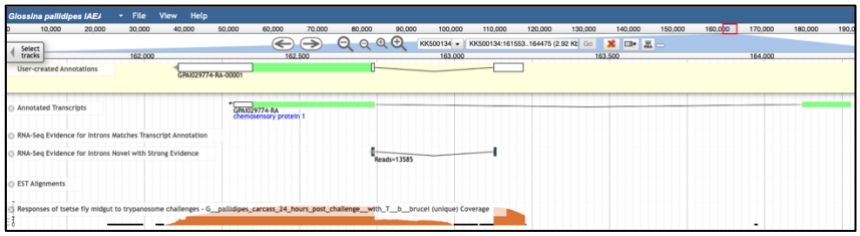
***Glossina pallidipes* IAEA**

GPAI017854: incorrect first exon

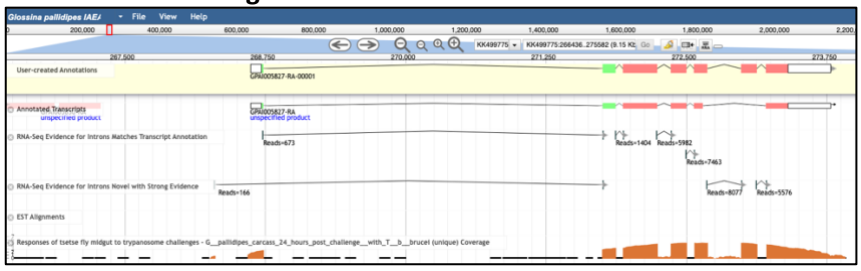
New gene next to it, ATP-dependent RNA helicase Dpb45A



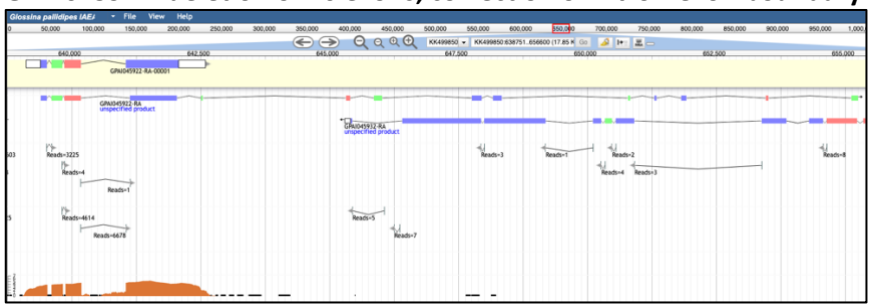
GPAI029774: incorrect first exon



GPAI005827: missing exon



GPAI045922: deletion of 10 exons, correction of intron-exon boundary



GPAI005387: addition of 2 exons