

Figure S3

Human Cryptic Exons from *Quantitative analysis of cryptic splicing associated with TDP-43 depletion*

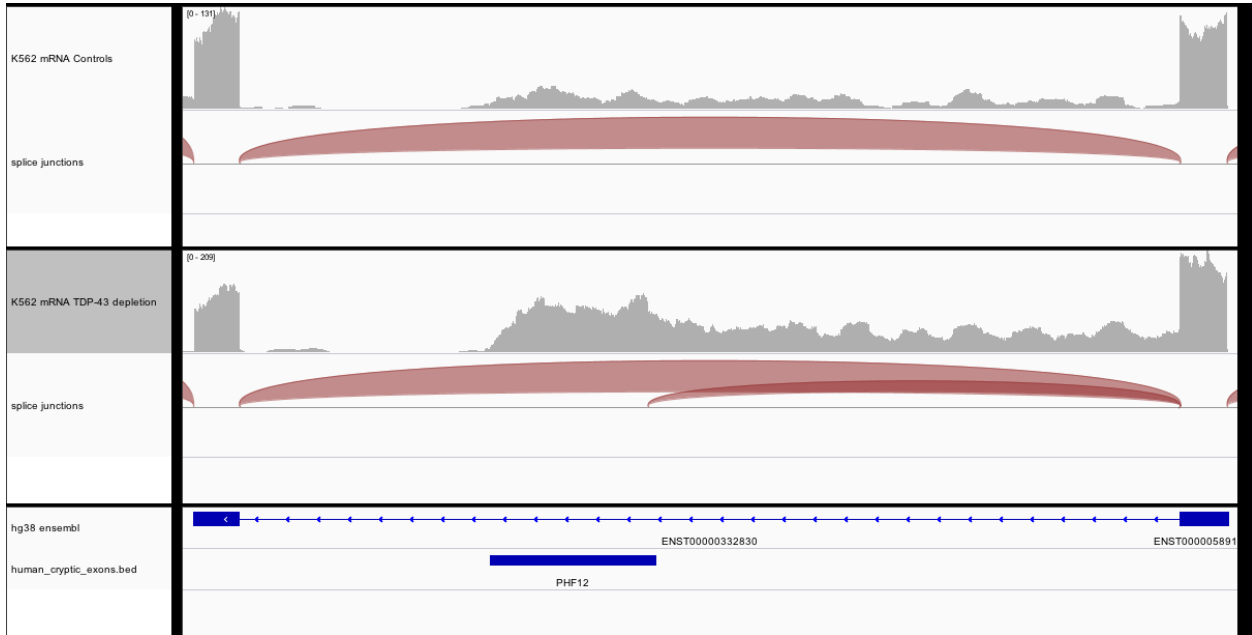
Jack Humphrey, Warren Emmett, Pietro Fratta, Adrian M. Isaacs & Vincent Plagnol

September 16, 2016

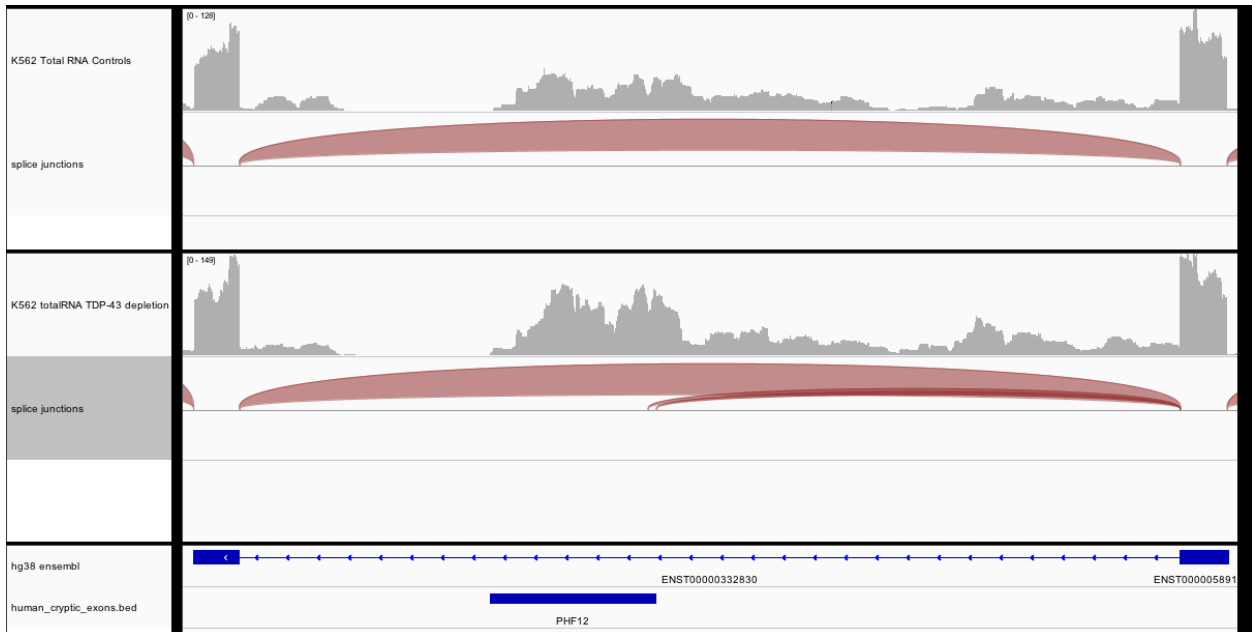
Each cryptic exon discovered in either of the two human K562 datasets was visualised in both datasets using the IGV browser. For each dataset, the biological replicates were combined to create merged files for each condition. Read coverage and splice junctions are shown. The Ensembl transcripts for the hg38 build are provided, as are the coordinates of the cryptic exons discovered by CryptEx.

1 PHF12 E028i1

Human K562 mRNA

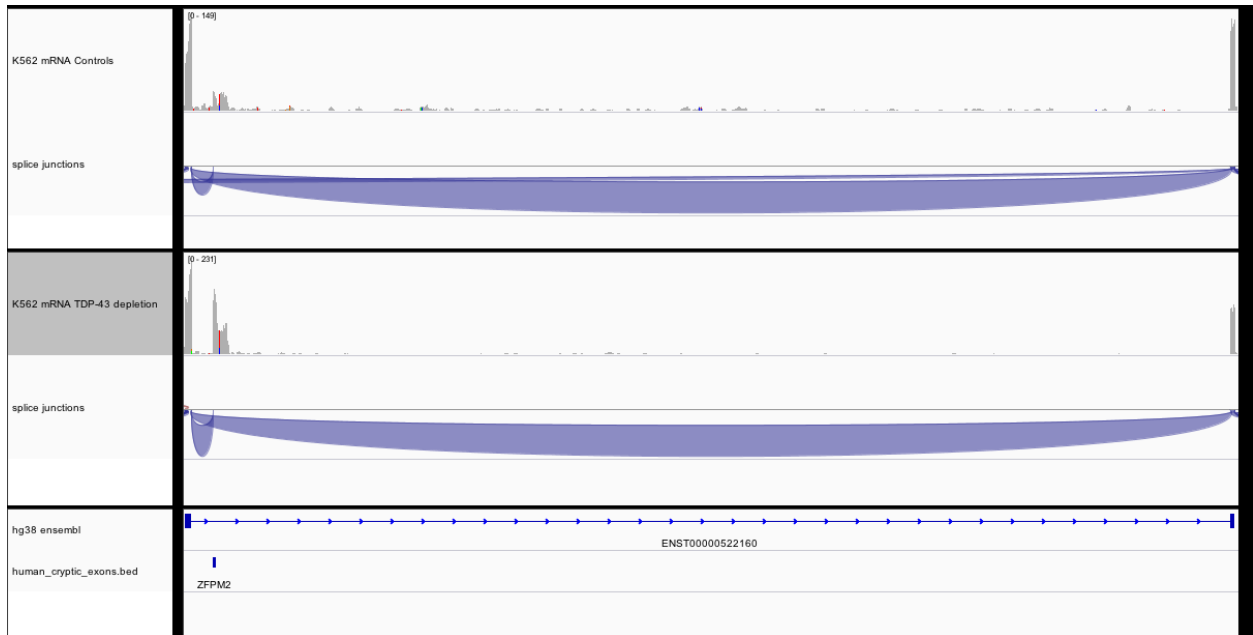


Human K562 total RNA

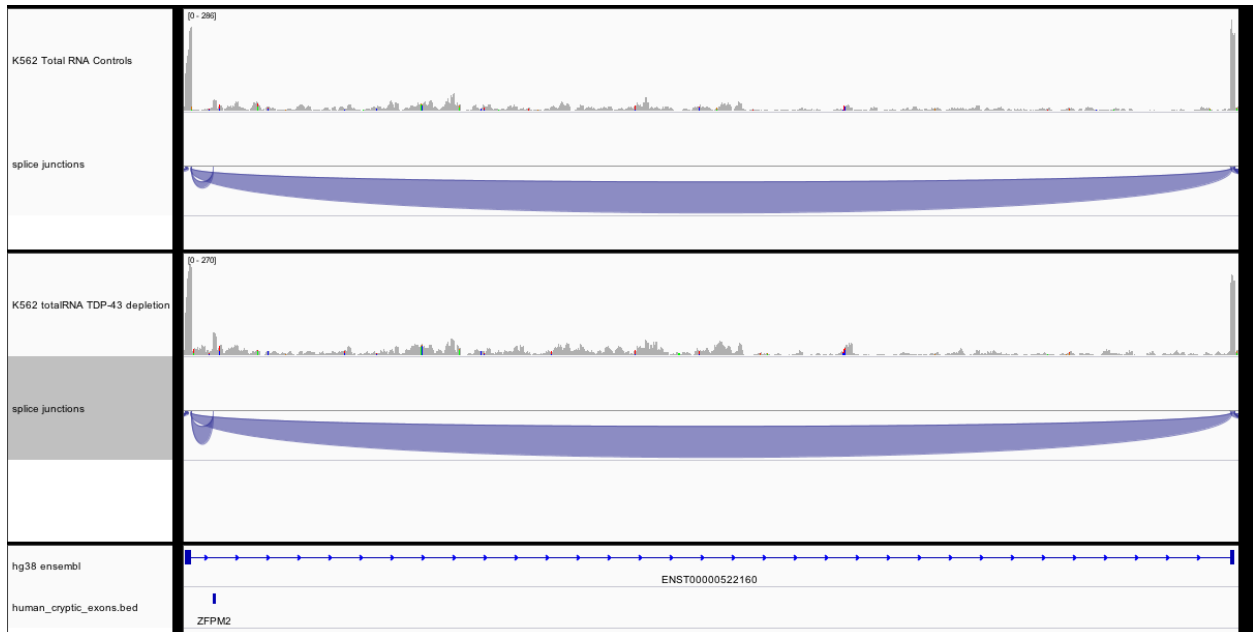


2 ZFPM2 E016i1

Human K562 mRNA

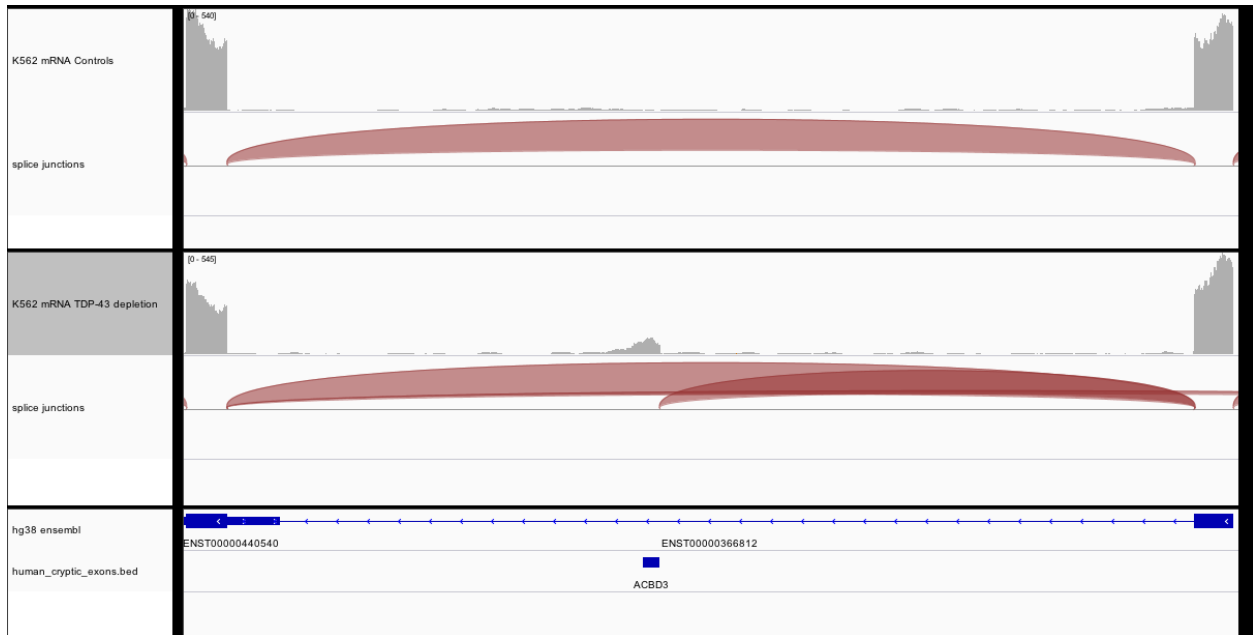


Human K562 total RNA

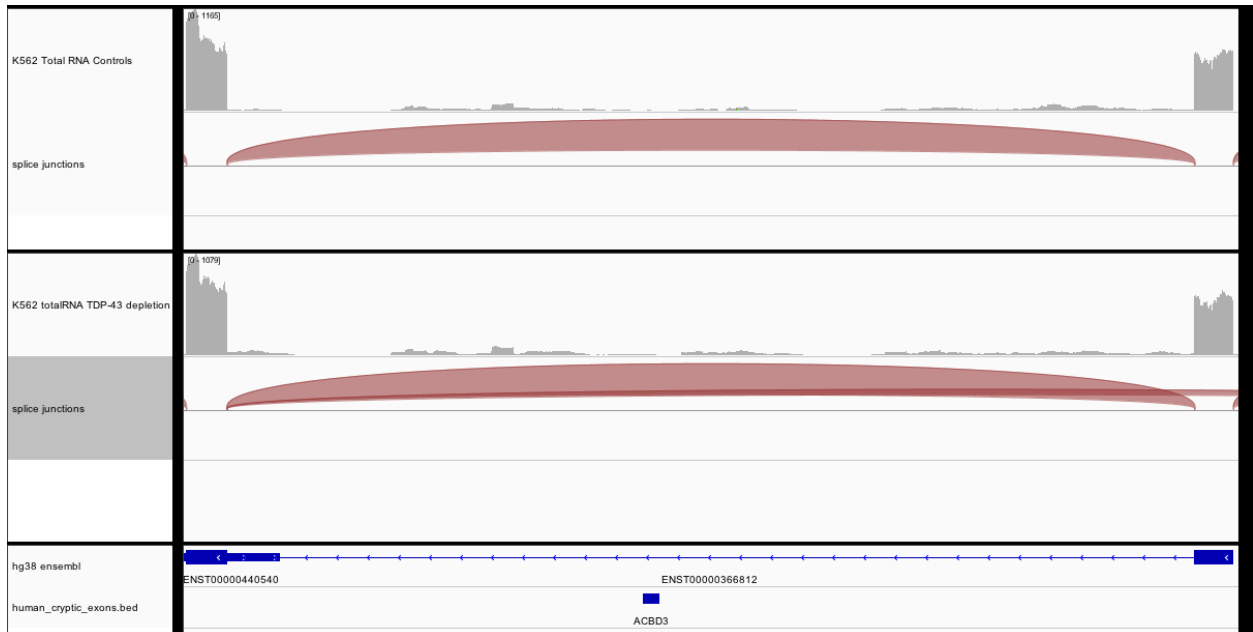


3 ACBD3 E004i1

Human K562 mRNA

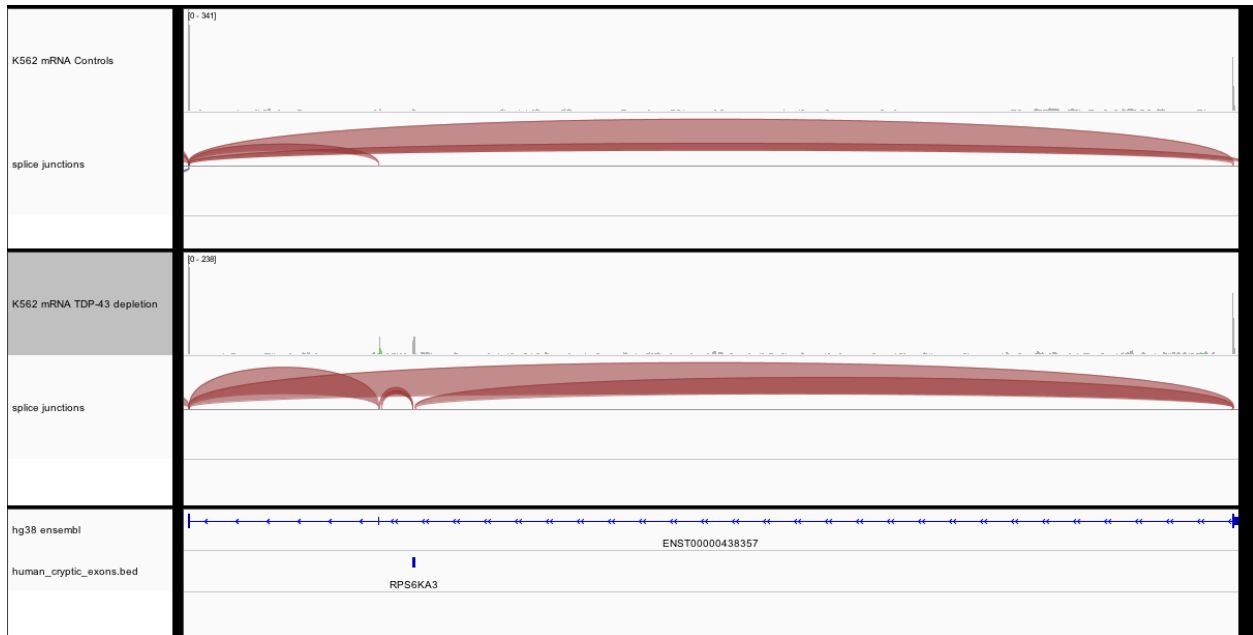


Human K562 total RNA

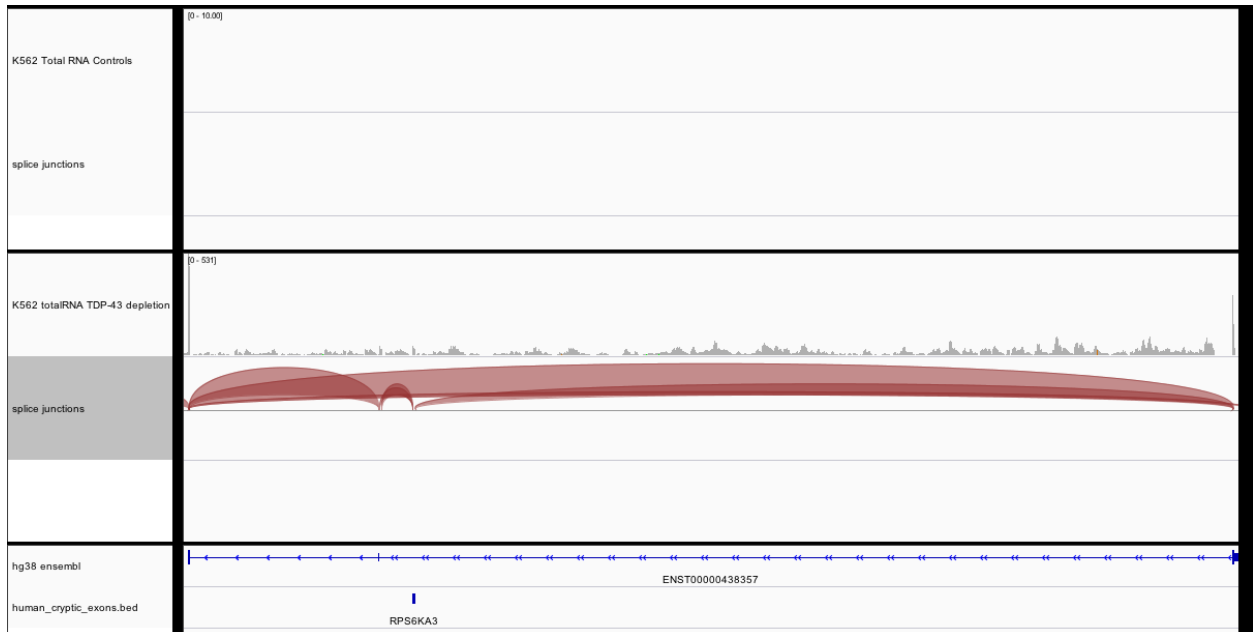


4 RPS6KA3 E031i2

Human K562 mRNA

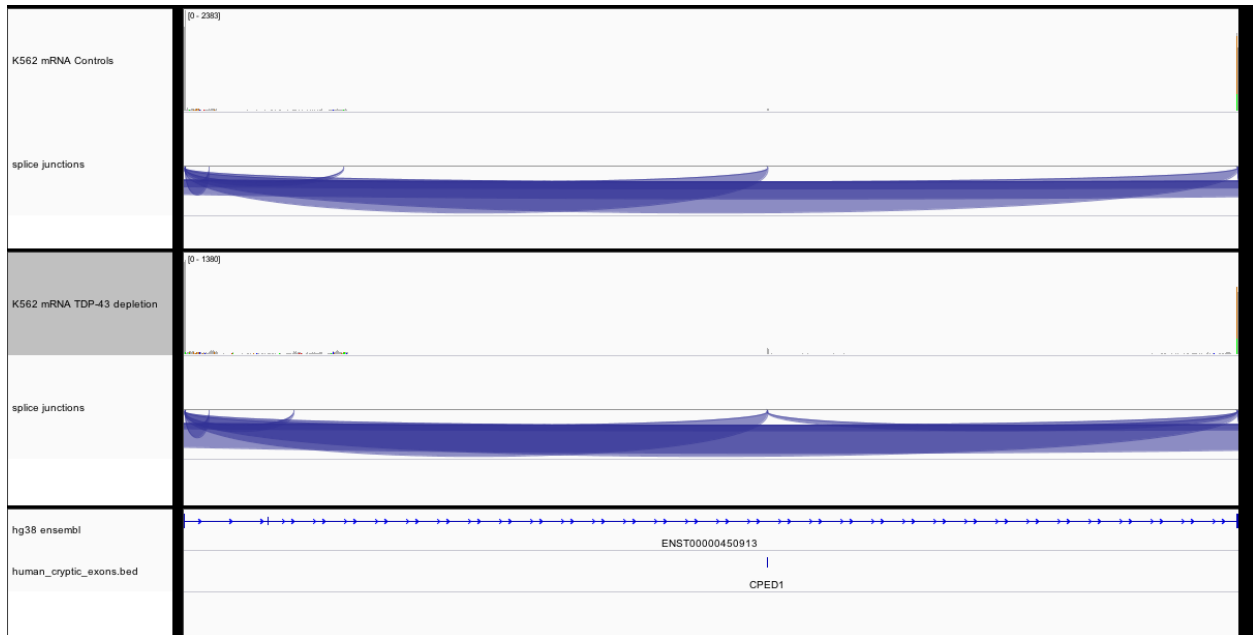


Human K562 total RNA

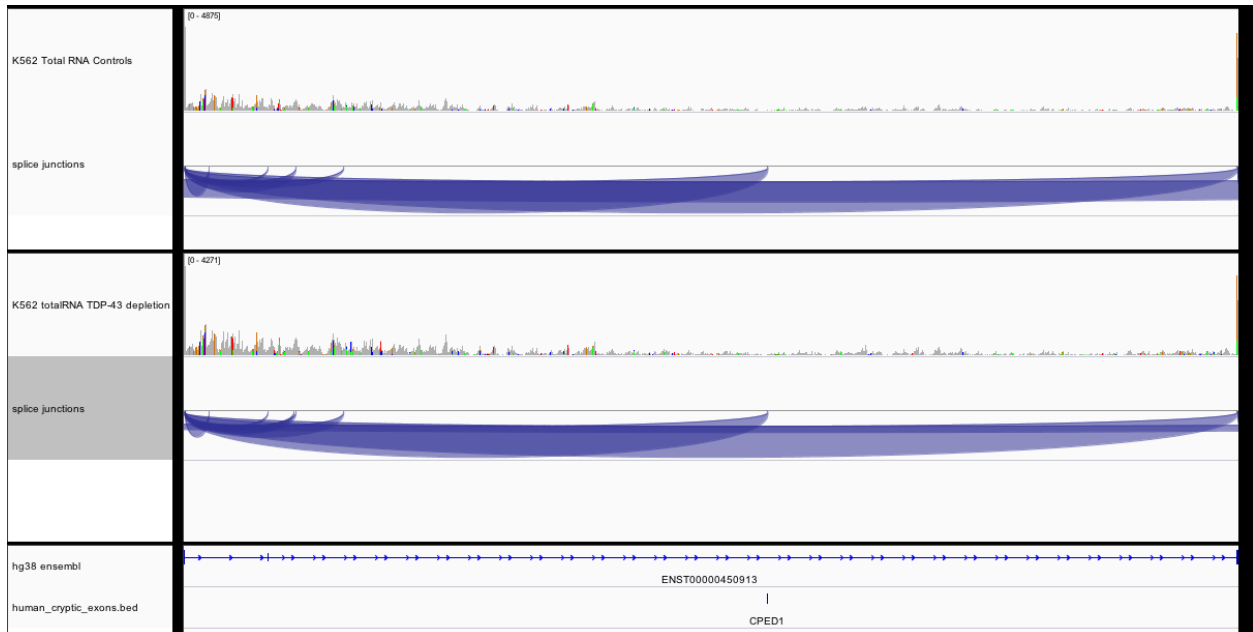


5 CPED1 E034i7

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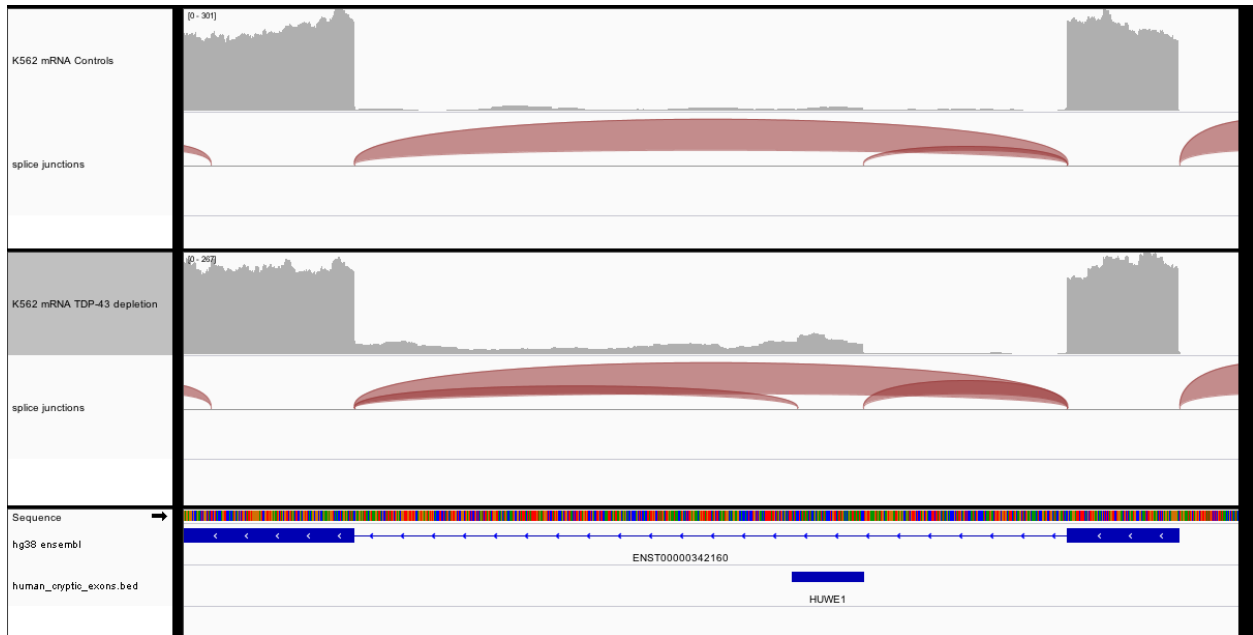


Human K562 total RNA

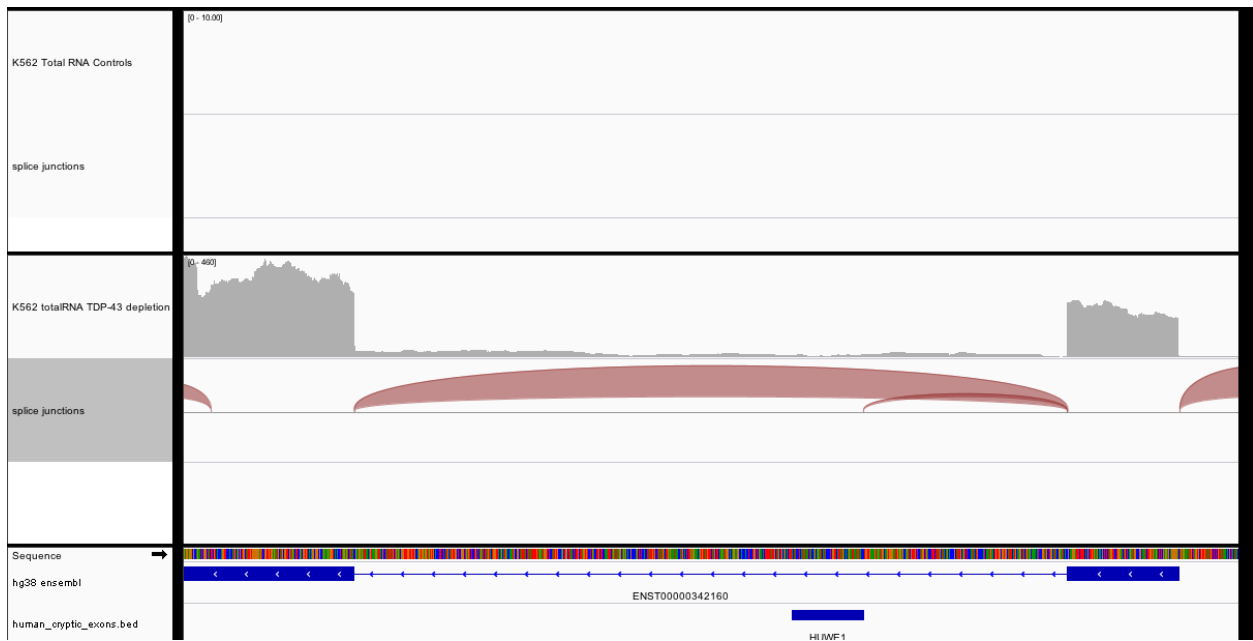


6 HUWE1 E033i1

Human K562 mRNA

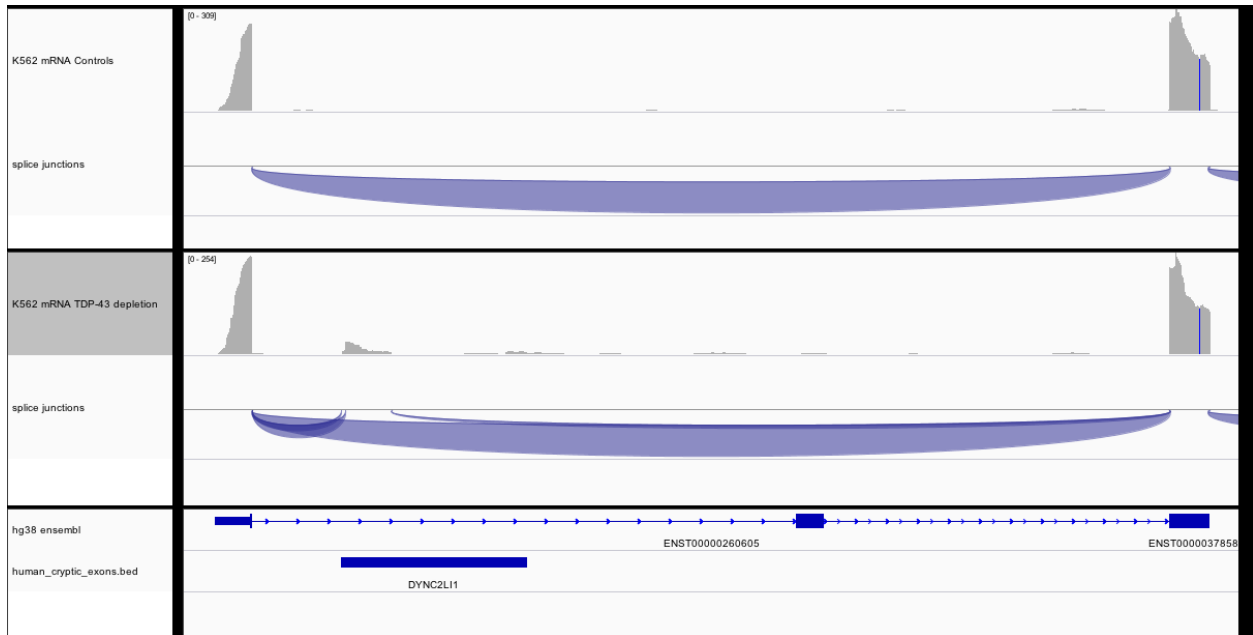


Human K562 total RNA

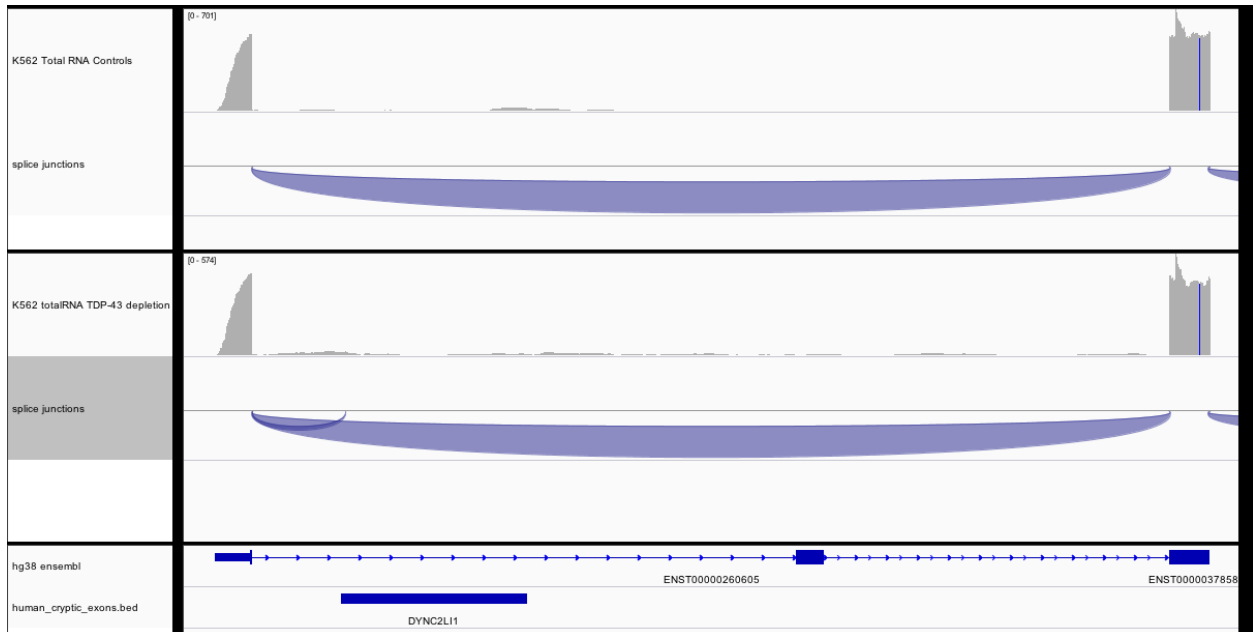


7 DYNC2LI1 E006i1

Human K562 mRNA

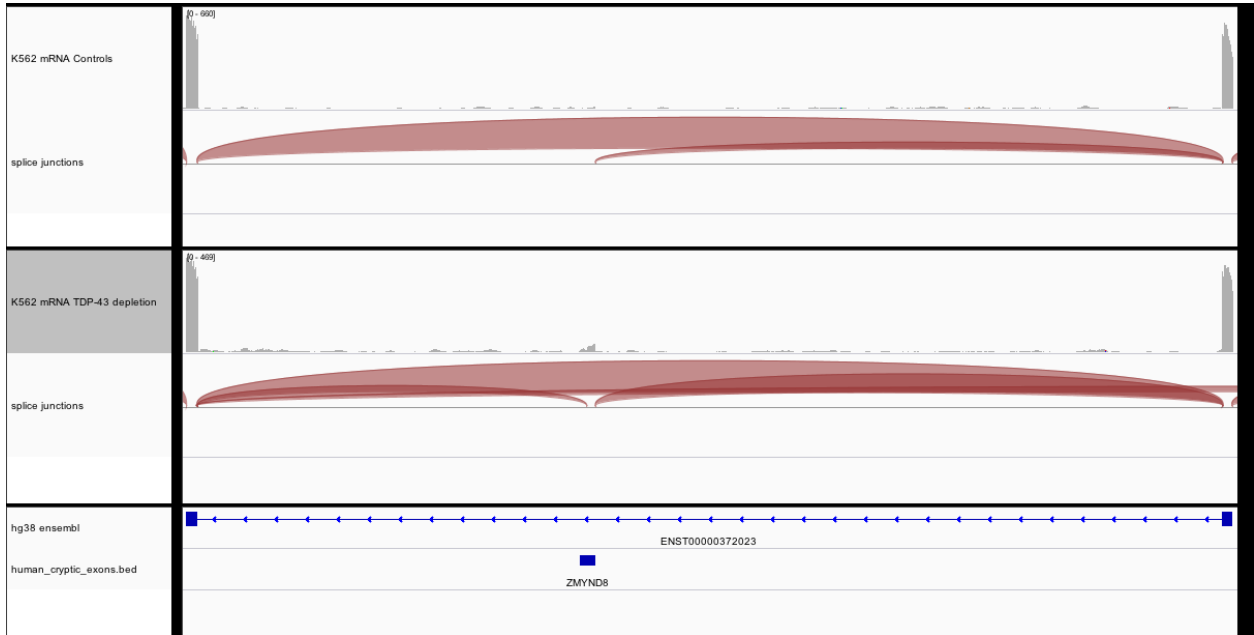


Human K562 total RNA

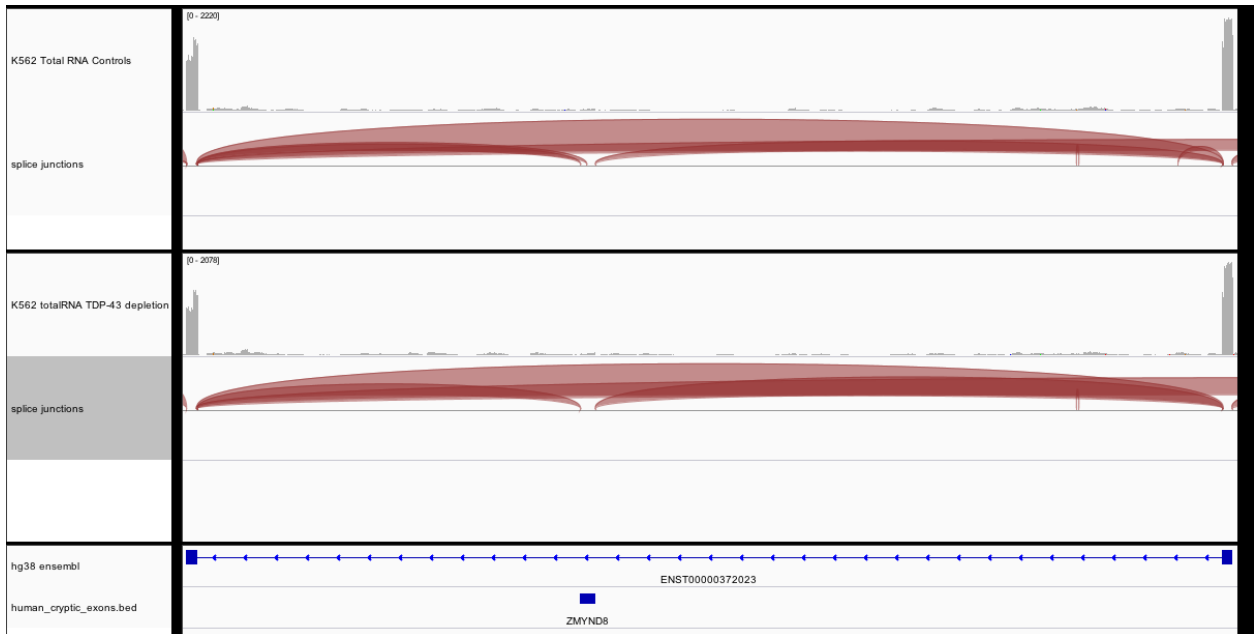


8 ZMYND8 E019i2

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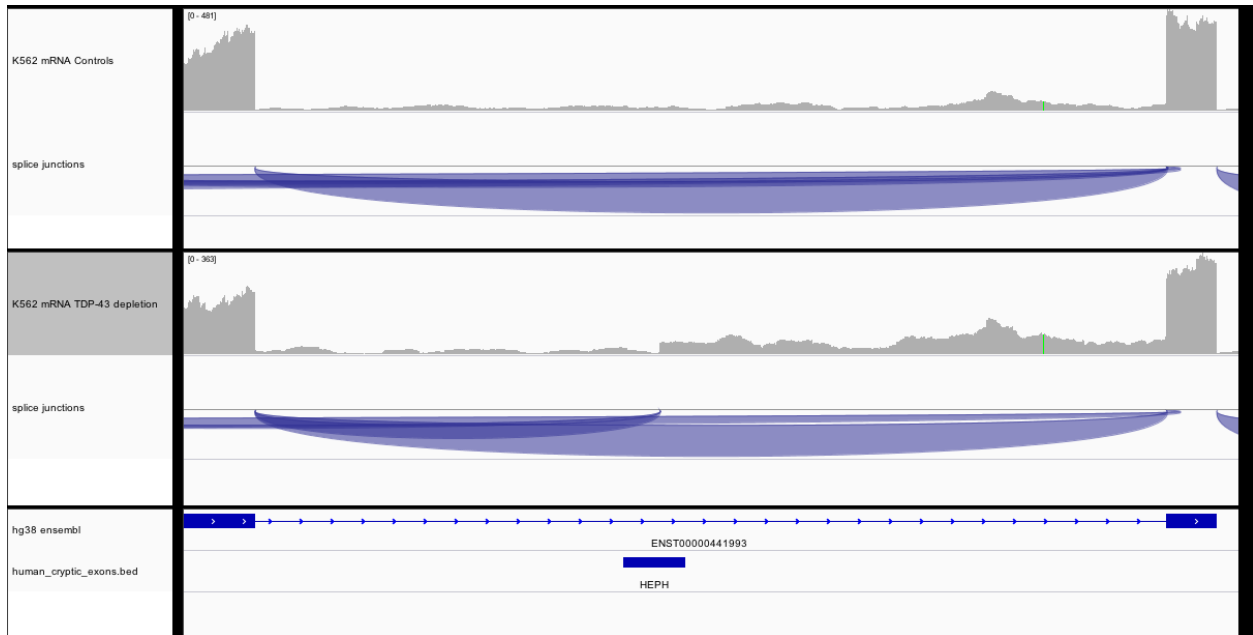


Human K562 total RNA

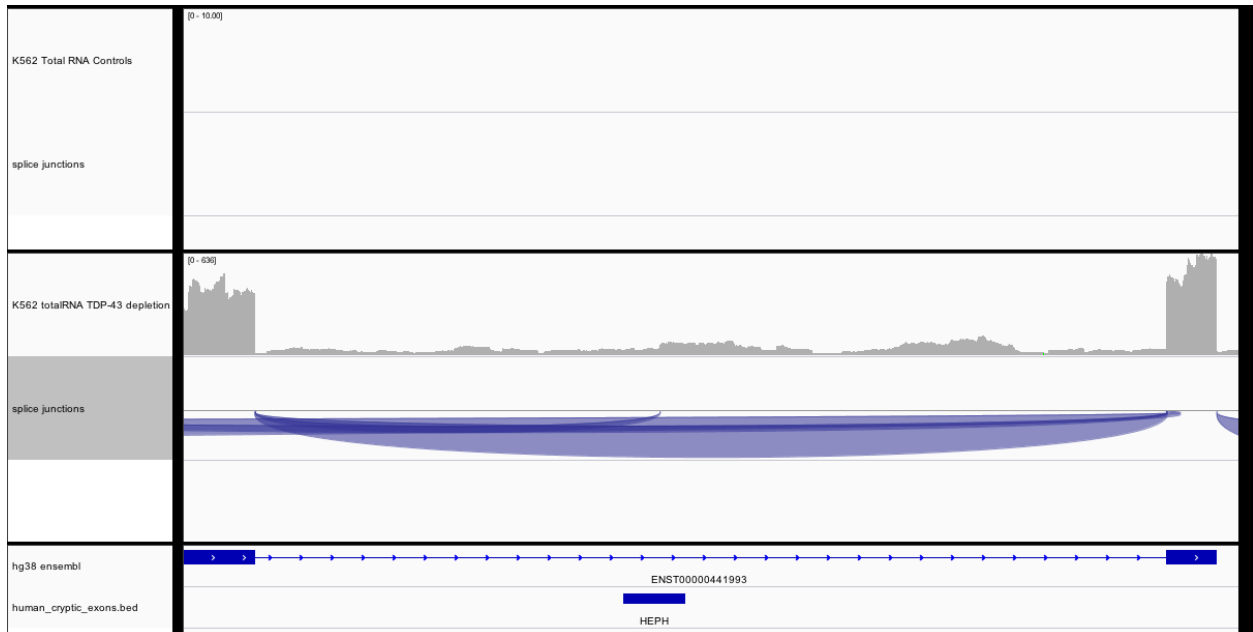


9 HEPH E030i1

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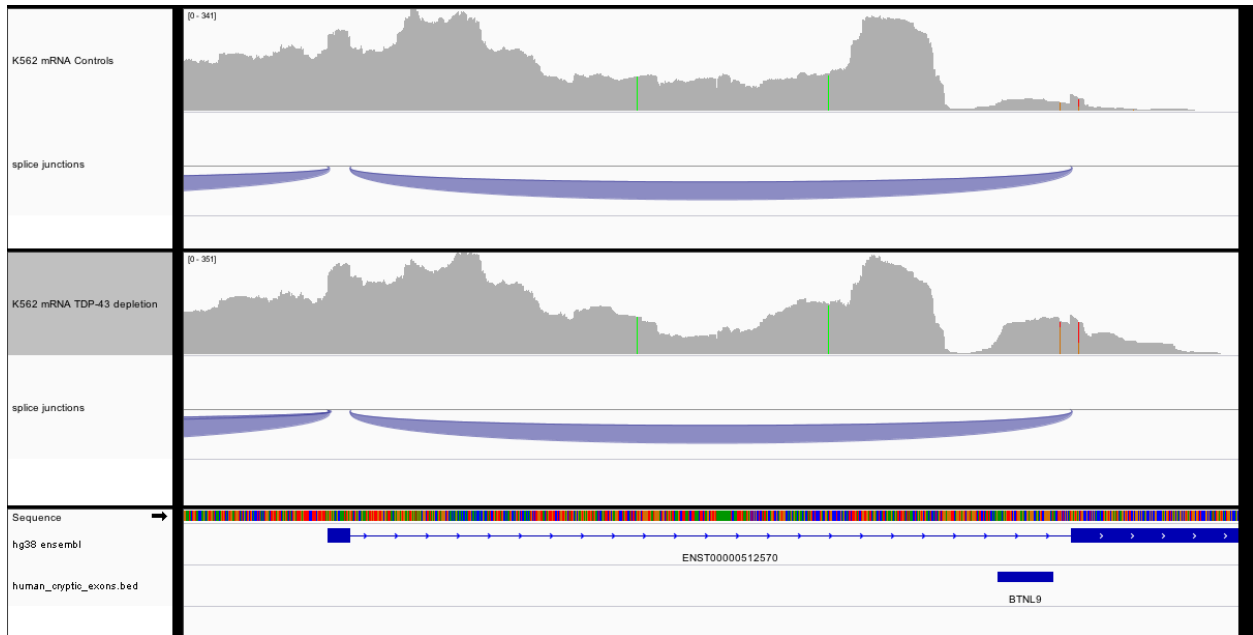


Human K562 total RNA

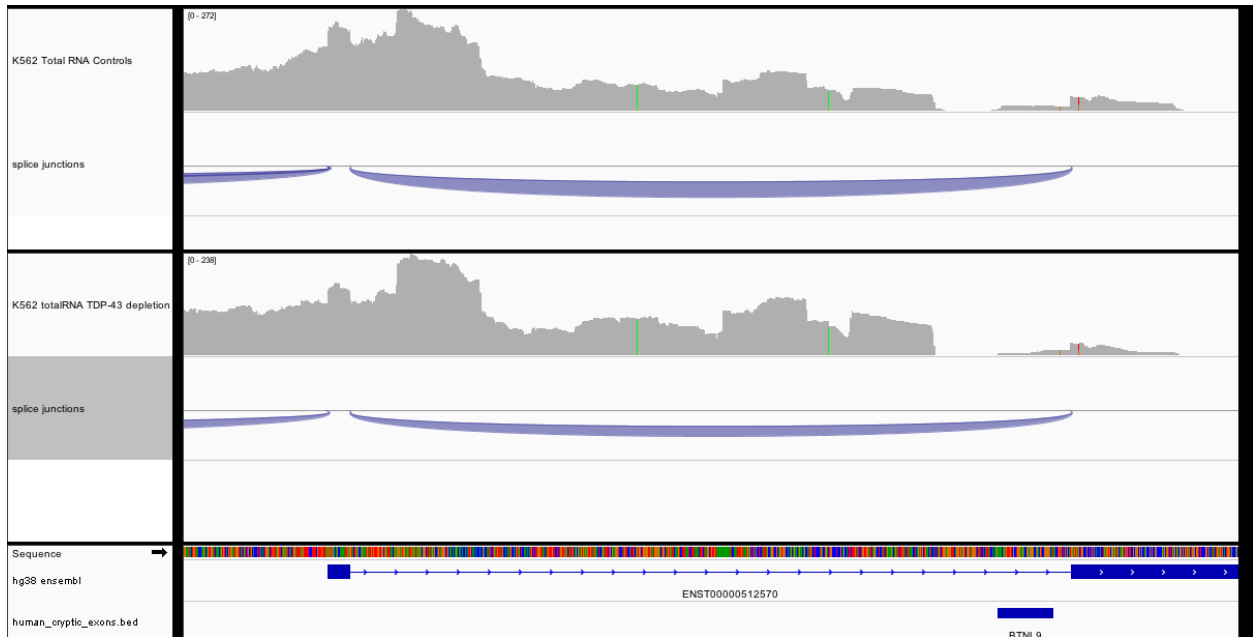


10 BTNL9 E031i1

Human K562 mRNA

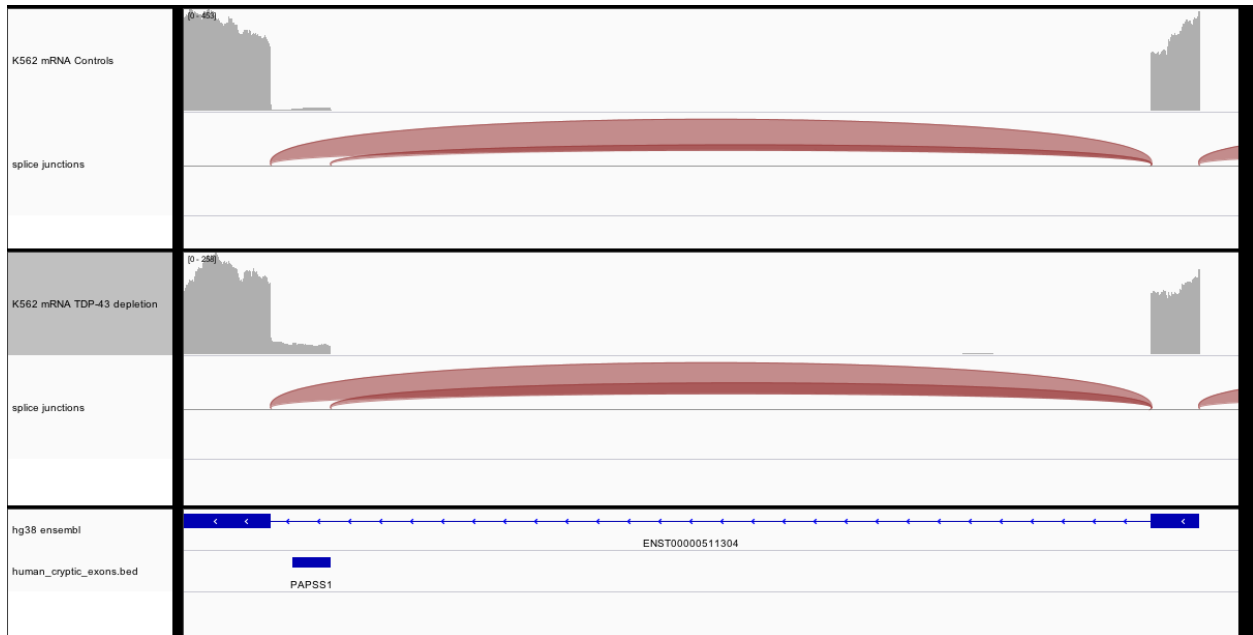


Human K562 total RNA

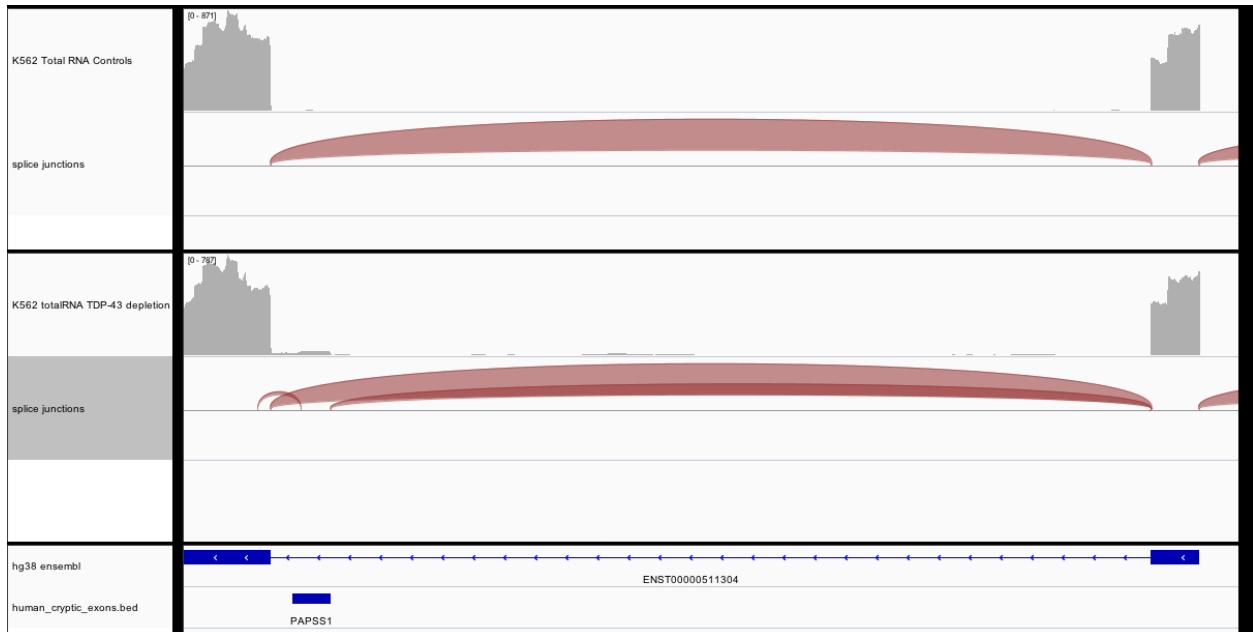


11 PAPSS1 E008i1

Human K562 mRNA

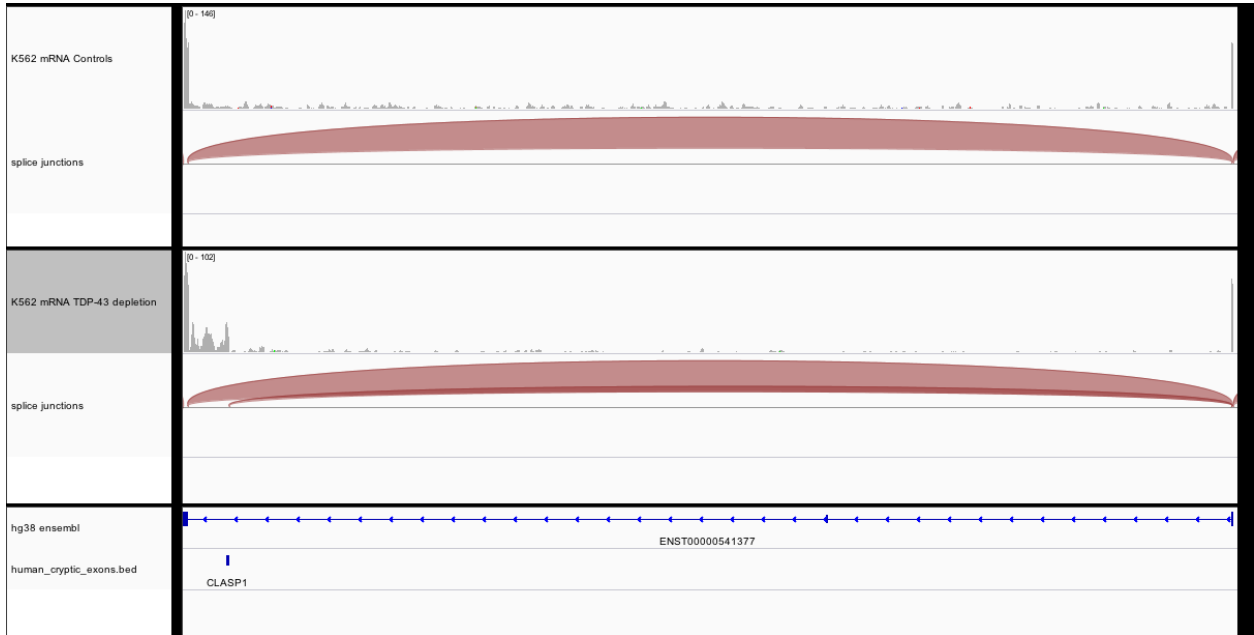


Human K562 total RNA

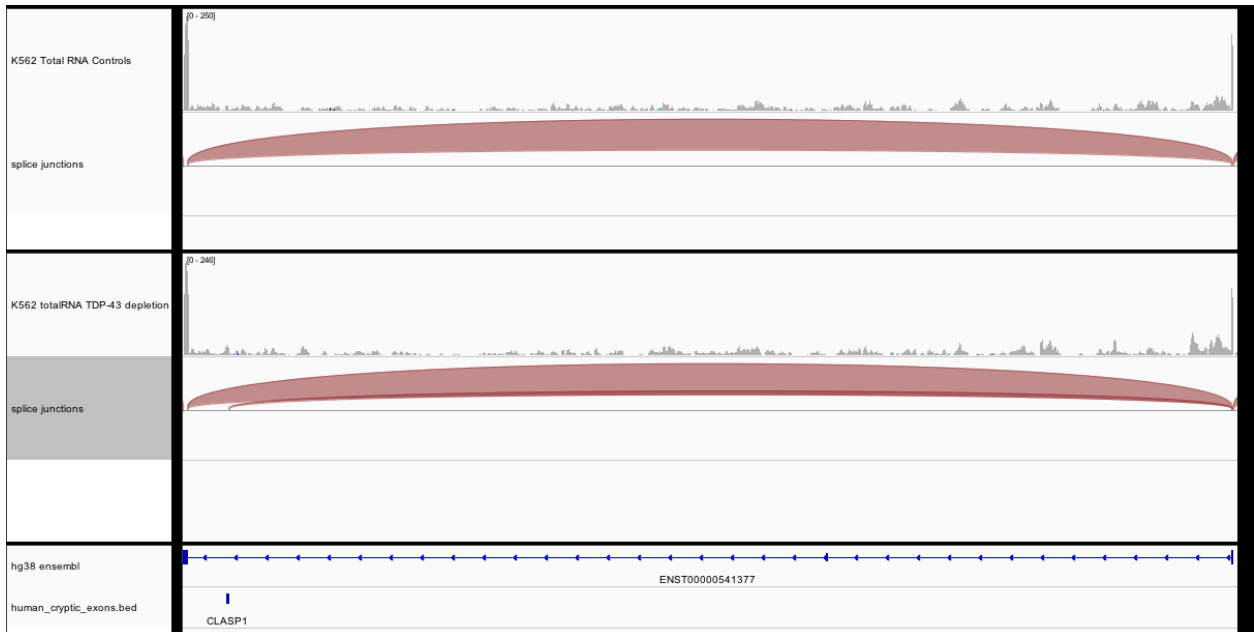


12 CLASP1 E049i1

Human K562 mRNA

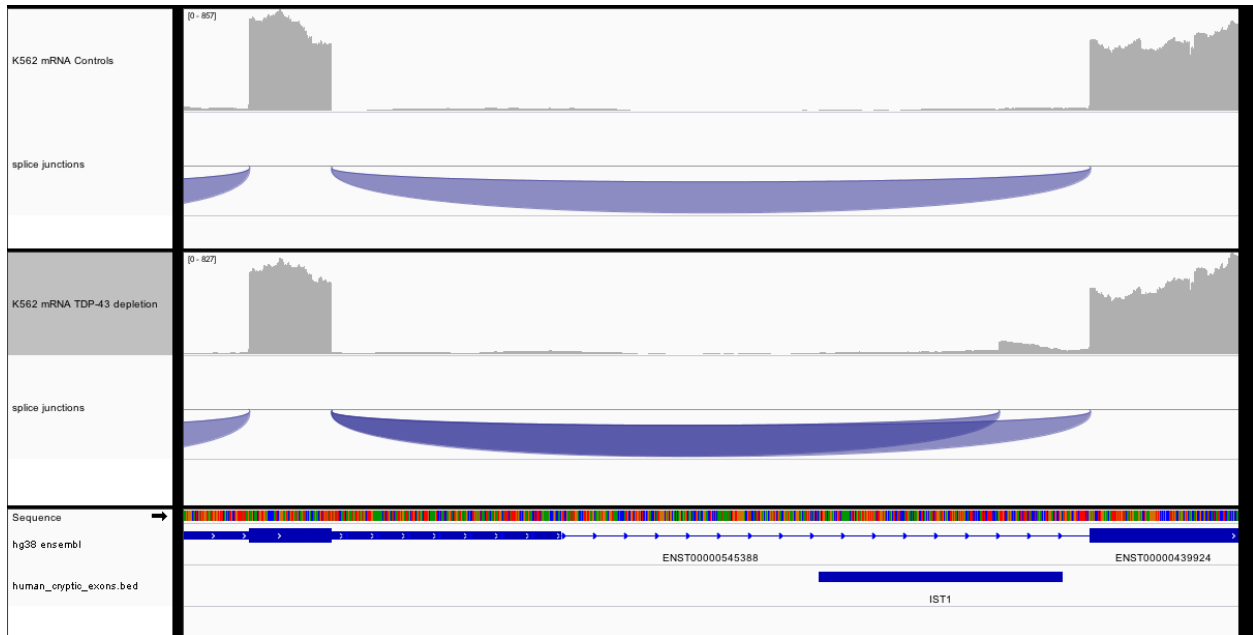


Human K562 total RNA

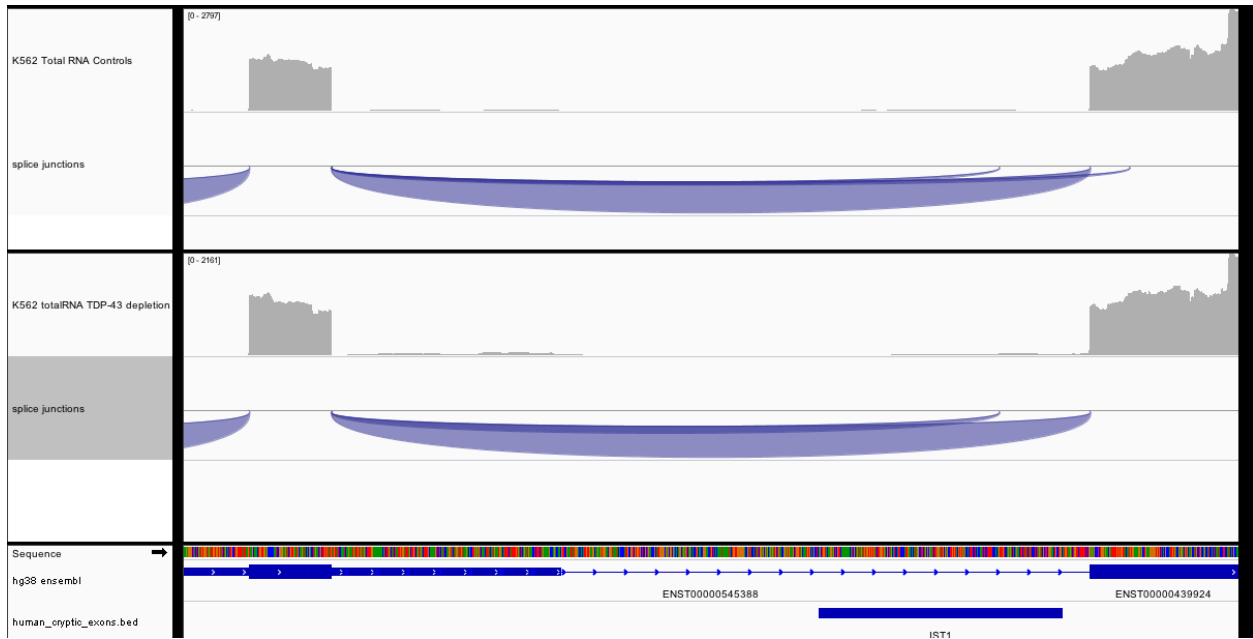


13 IST1 E053i1

Human K562 mRNA

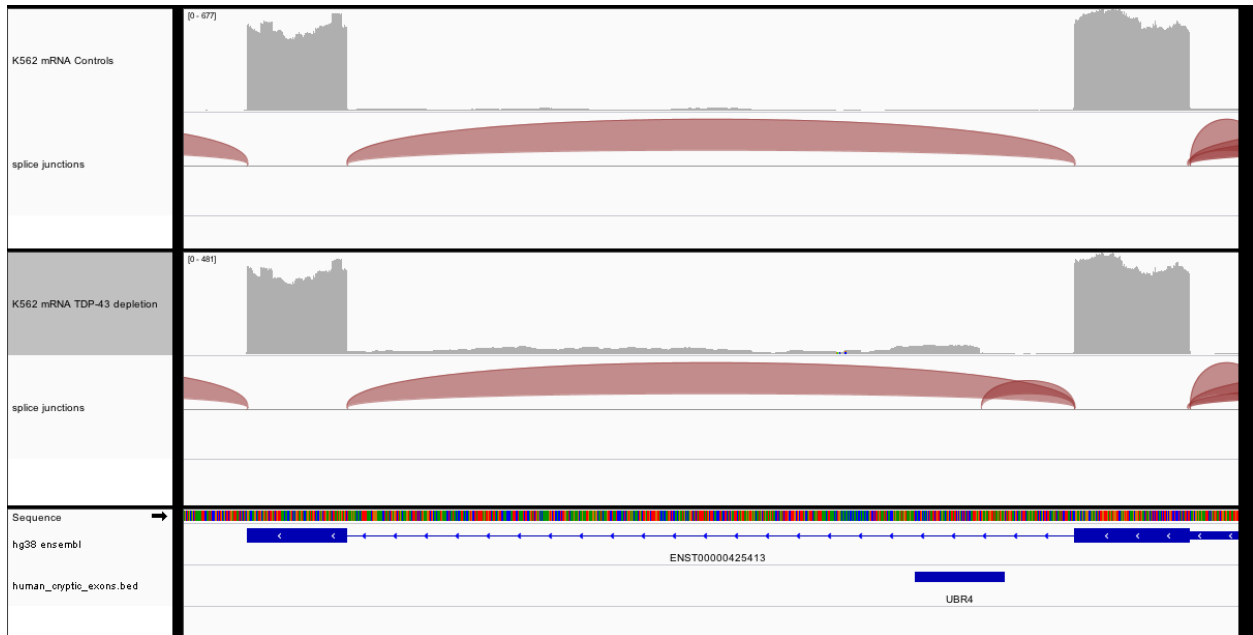


Human K562 total RNA

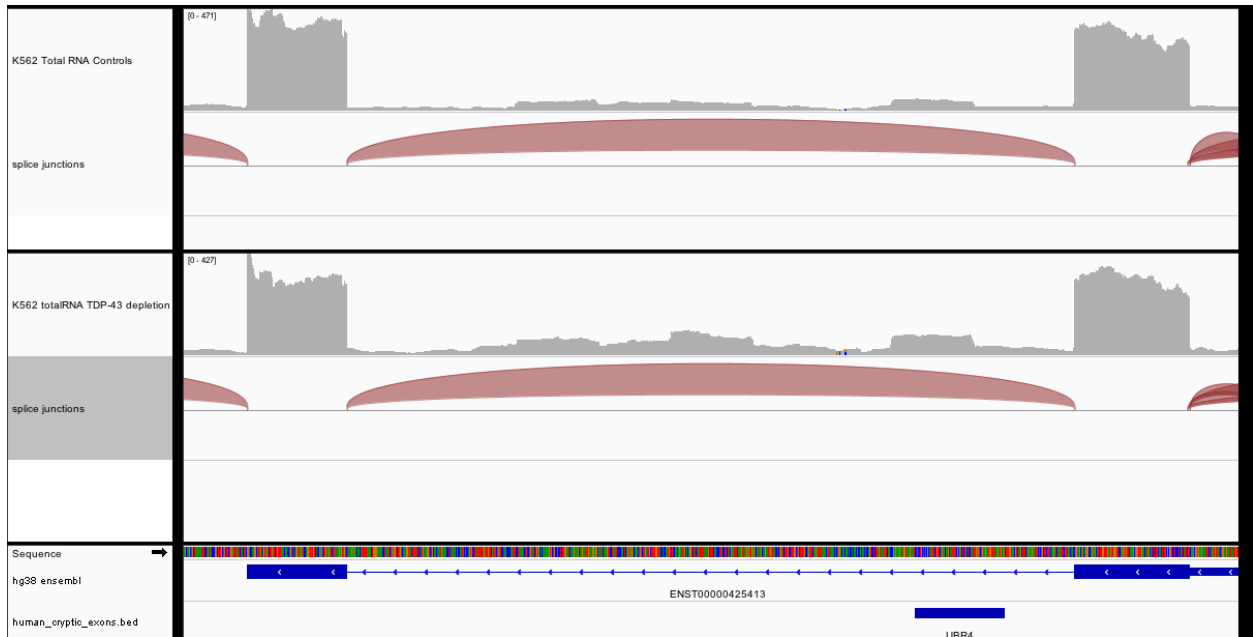


14 UBR4 E084i1

Human K562 mRNA

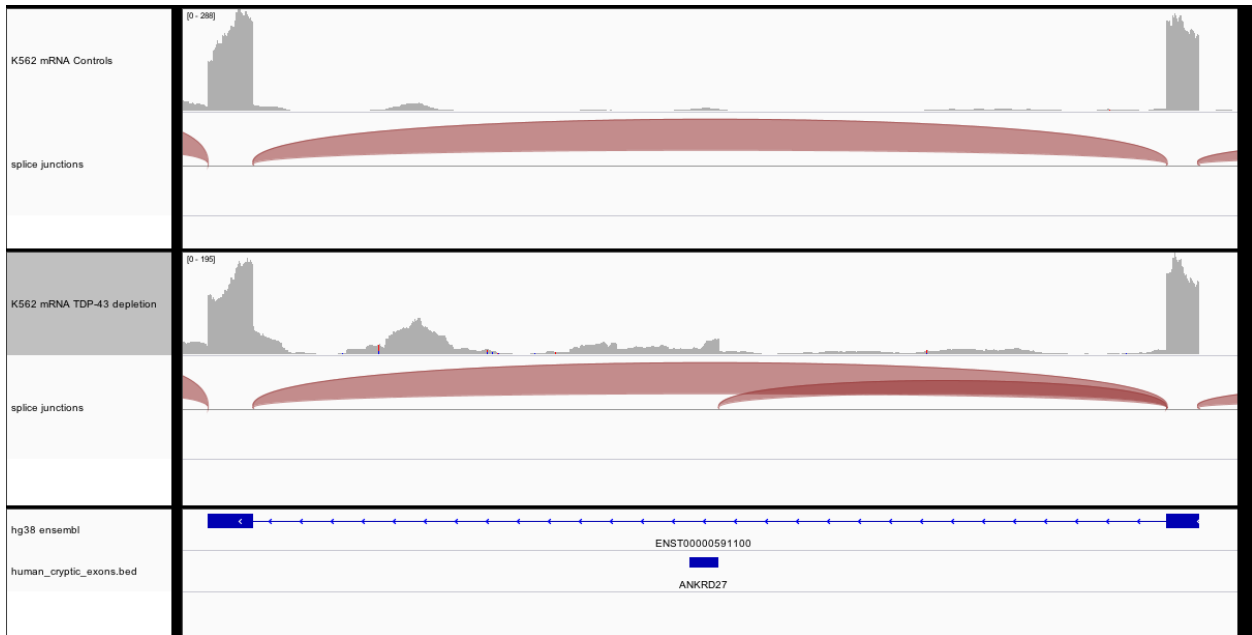


Human K562 total RNA

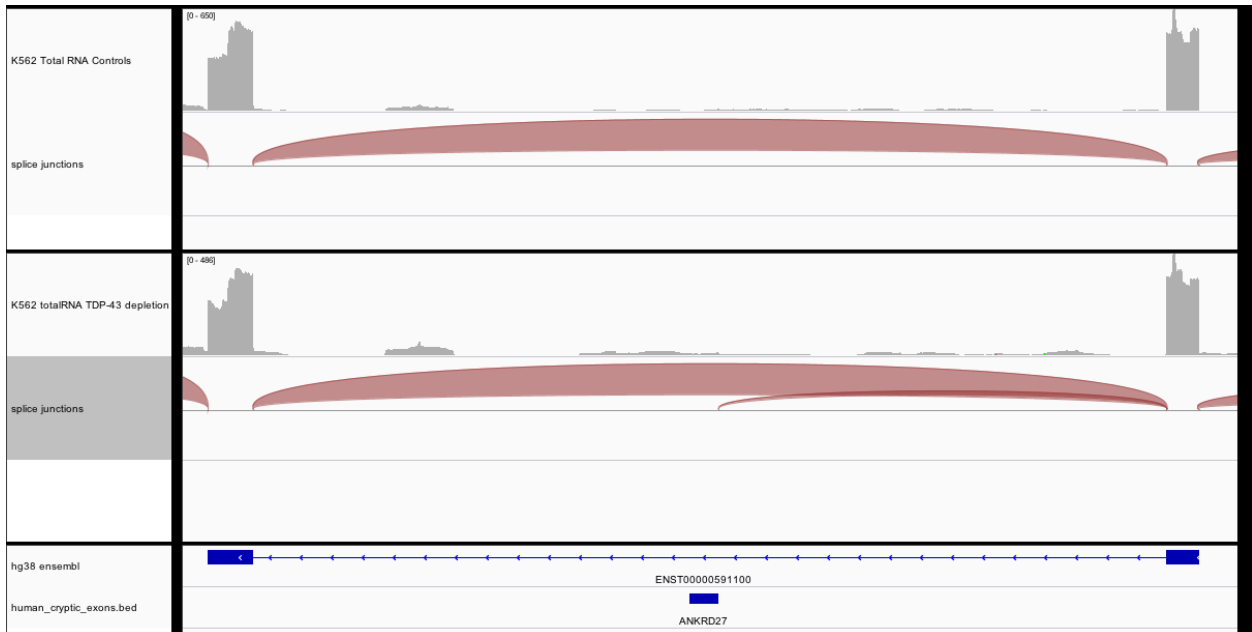


15 ANKRD27 E019i1

Human K562 mRNA

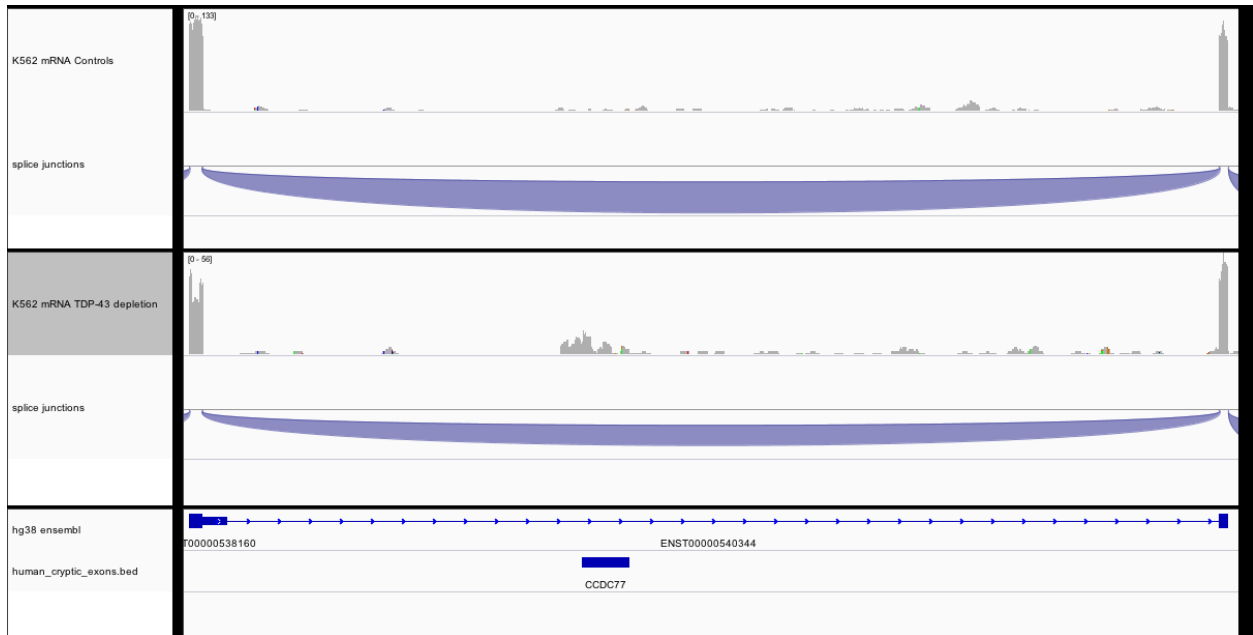


Human K562 total RNA

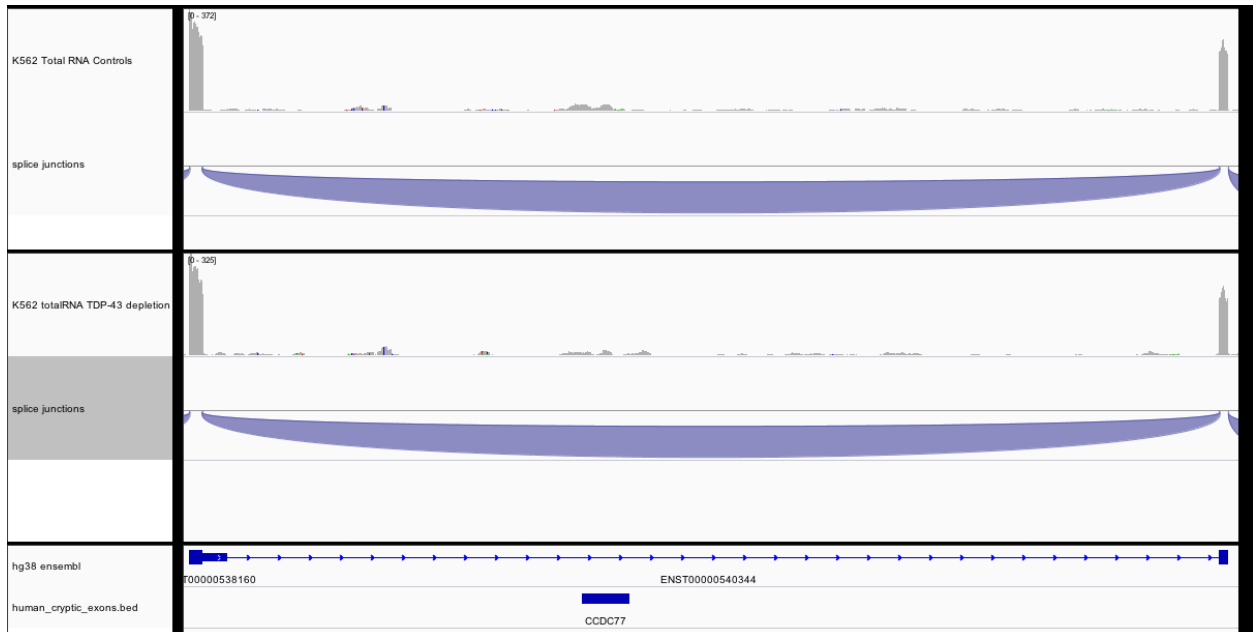


16 CCDC77 E020i1

Human K562 mRNA

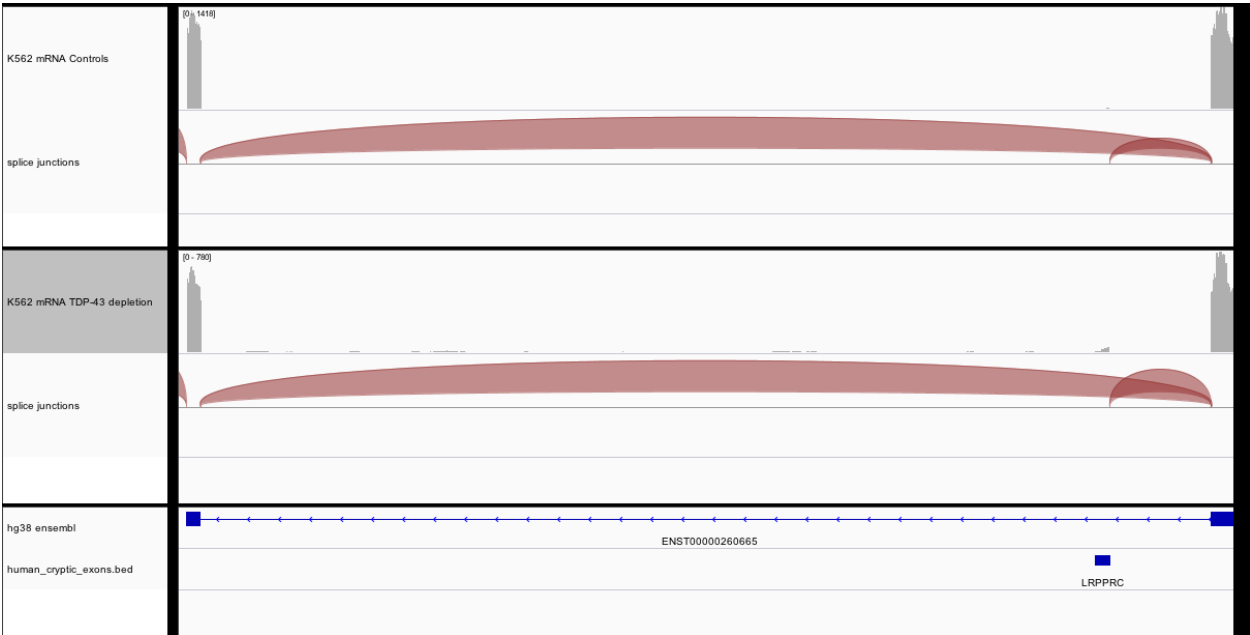


Human K562 total RNA



17 LRPPRC E024i1

Human K562 mRNA

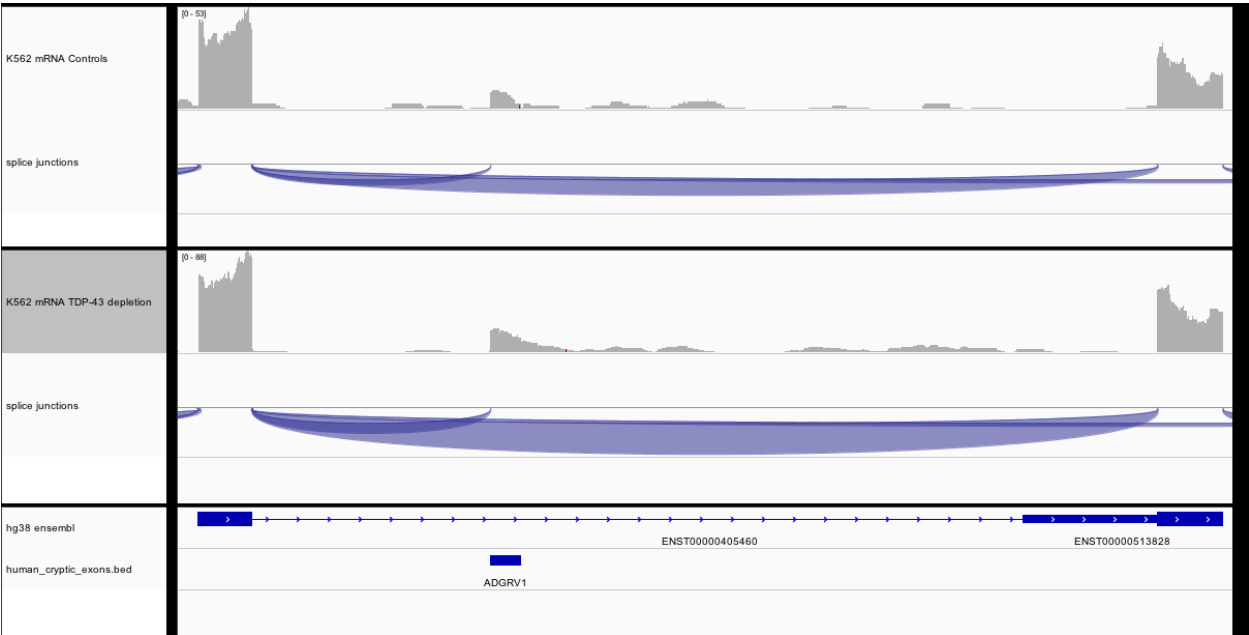


Human K562 total RNA

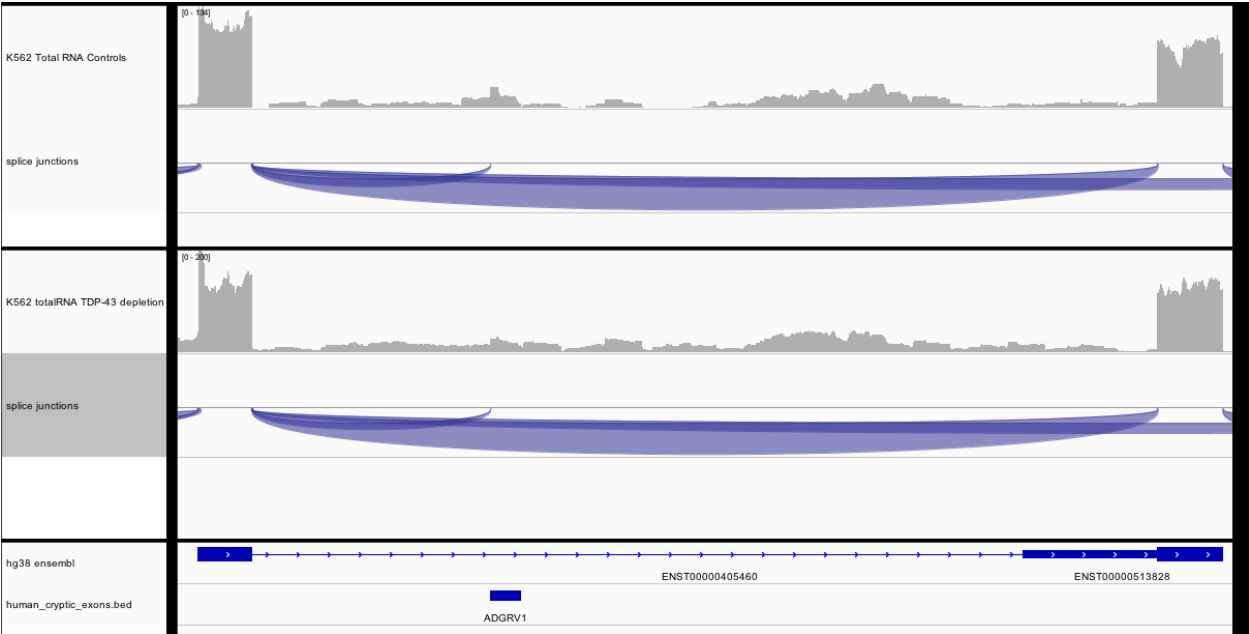


18 ADGRV1 E085i1

Human K562 mRNA

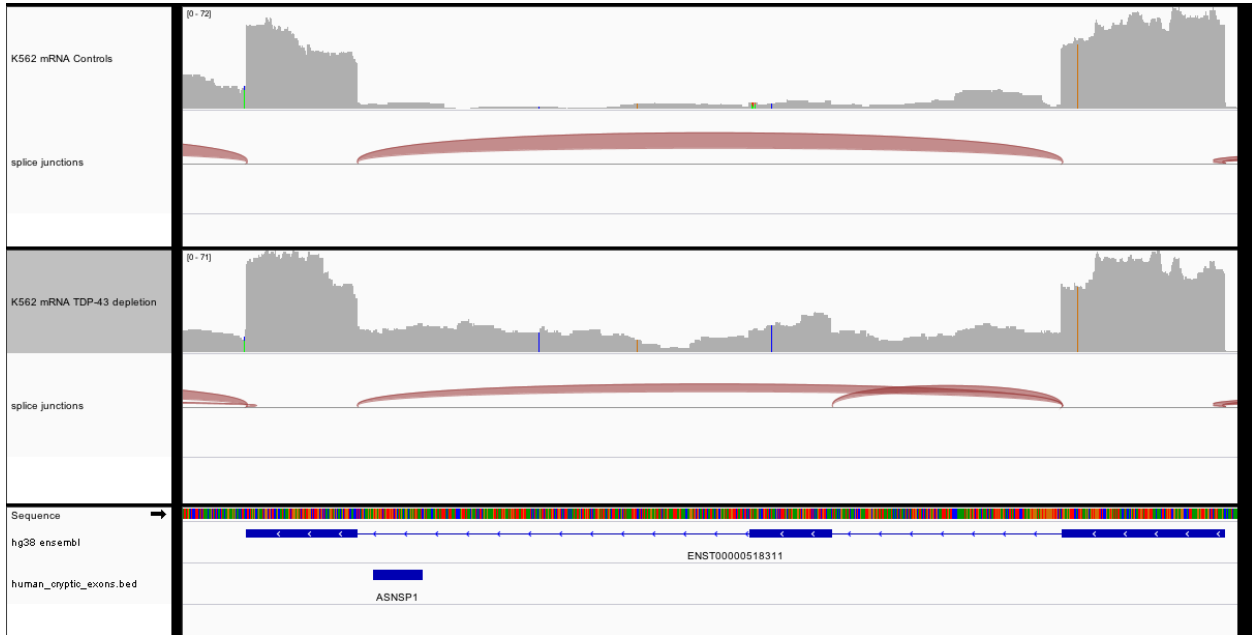


Human K562 total RNA

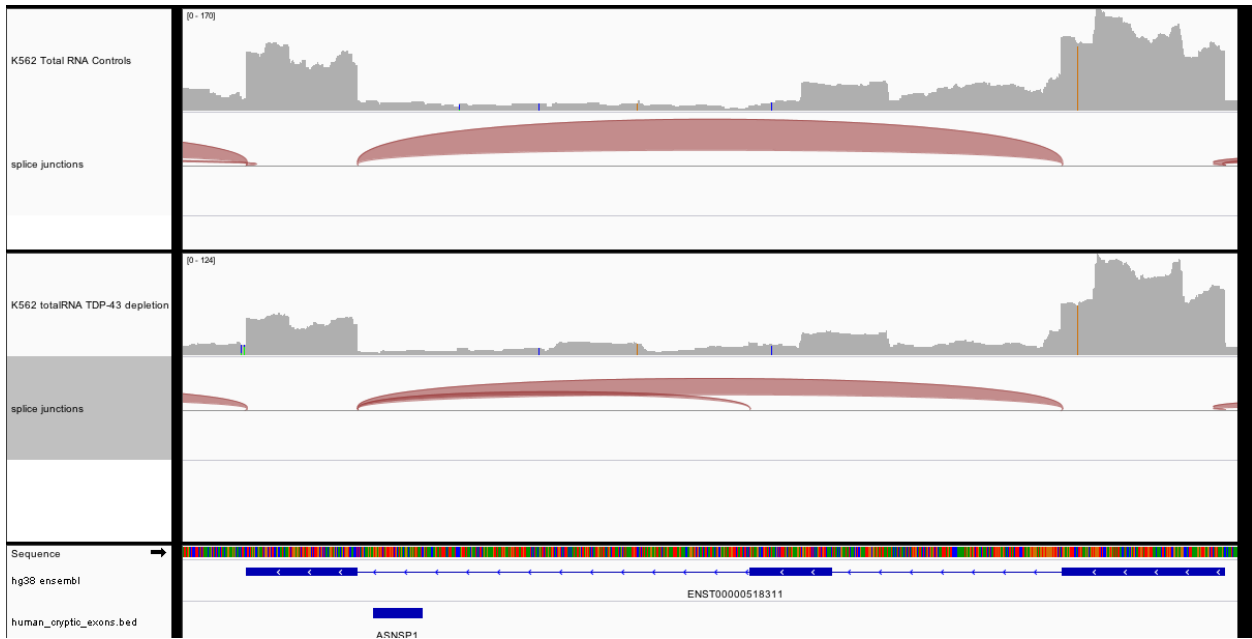


19 ASNSP1 E006i1

Human K562 mRNA

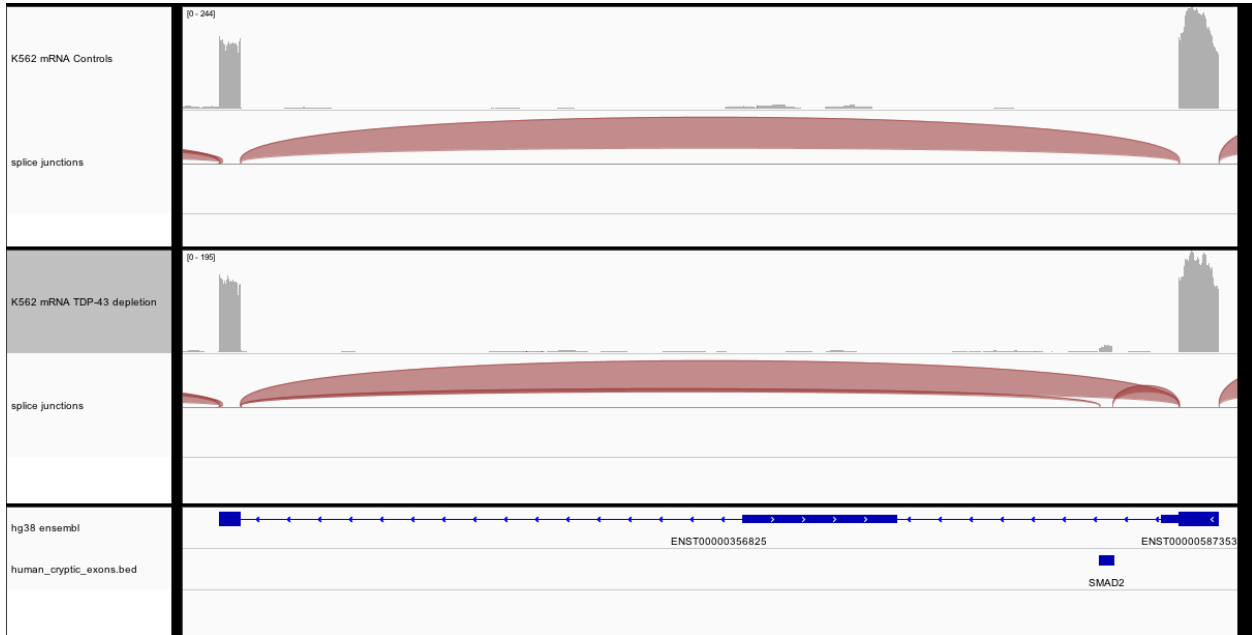


Human K562 total RNA

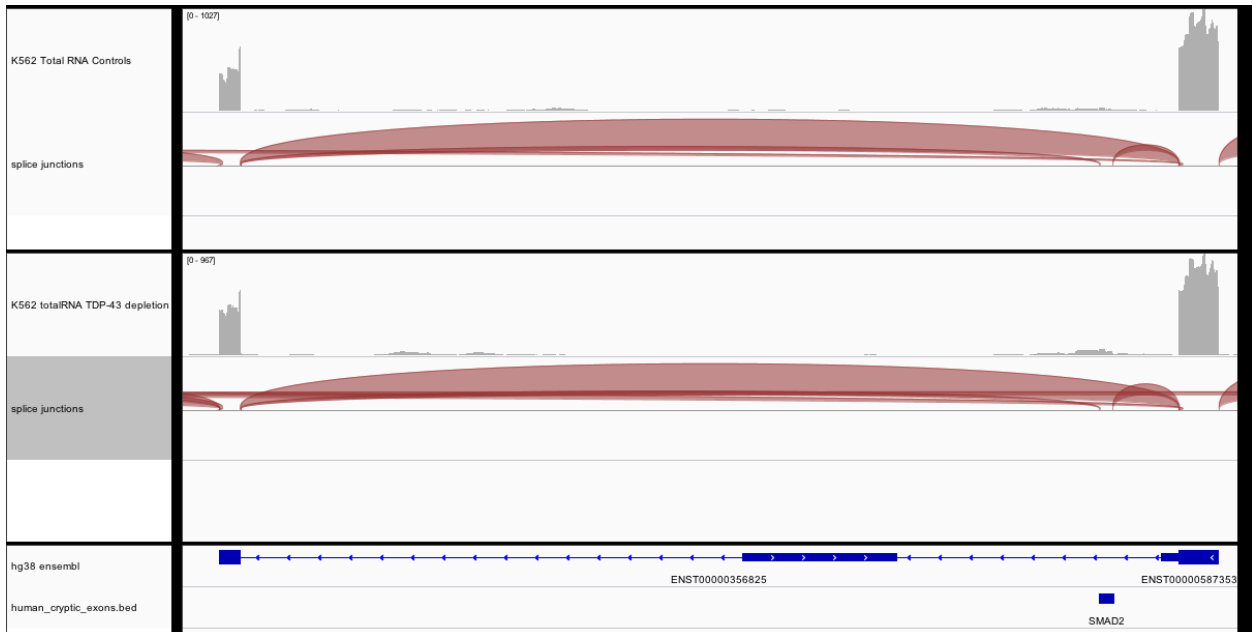


20 SMAD2 E010i1

Human K562 mRNA

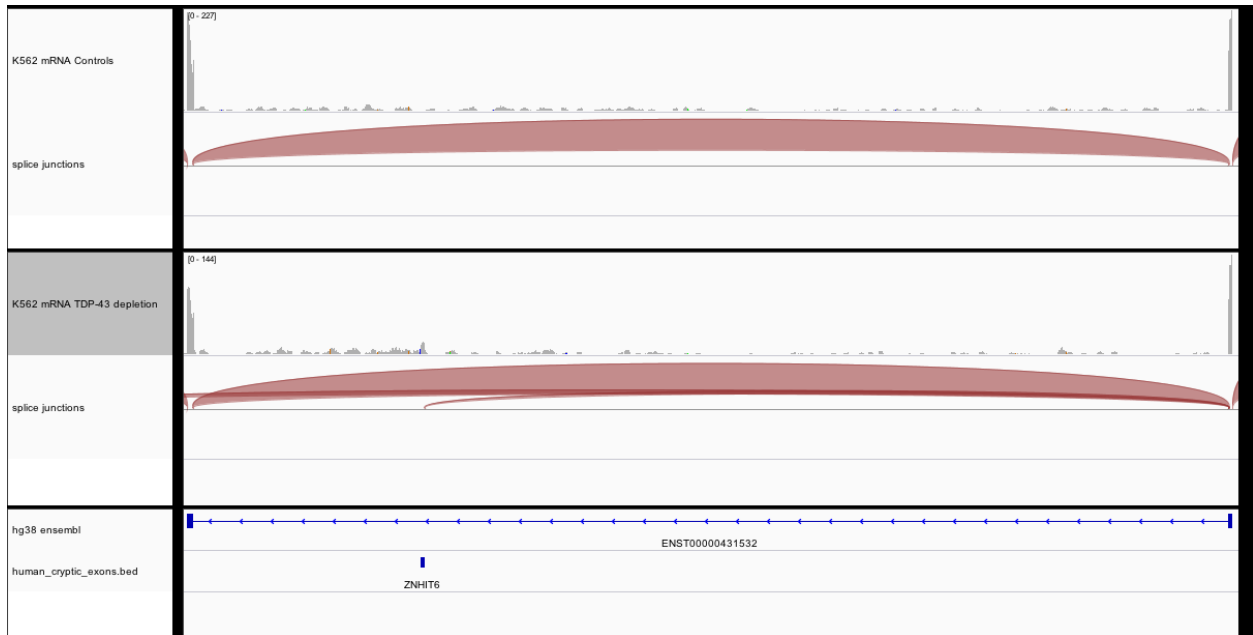


Human K562 total RNA

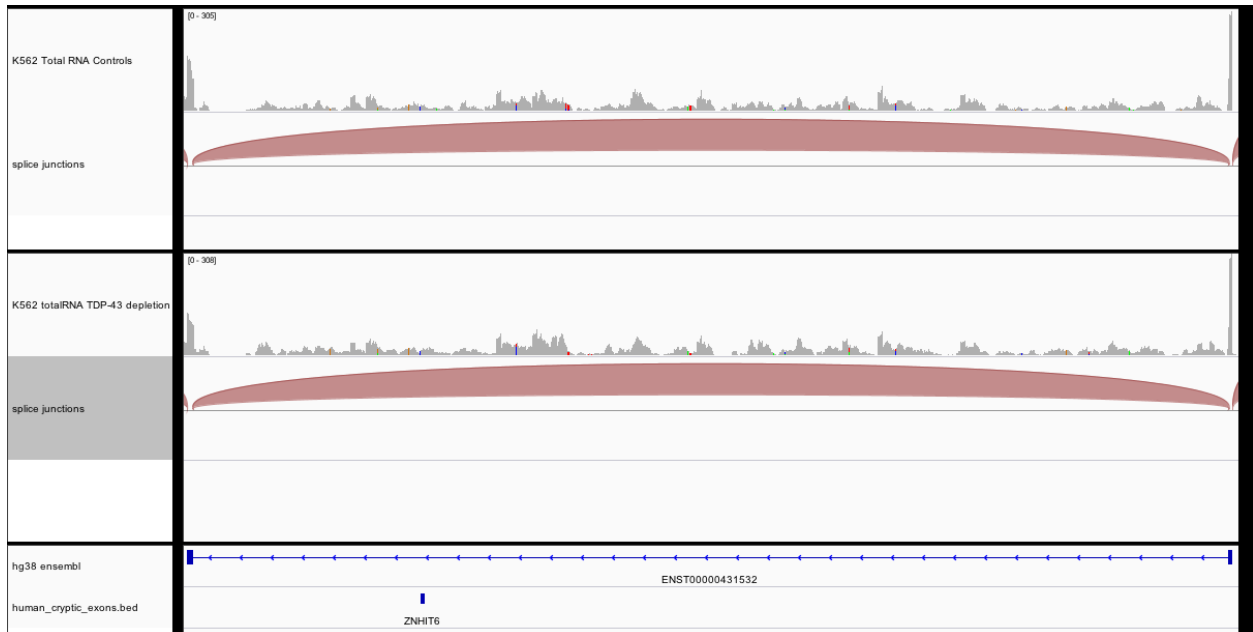


21 ZNHIT6 E003i1

Human K562 mRNA

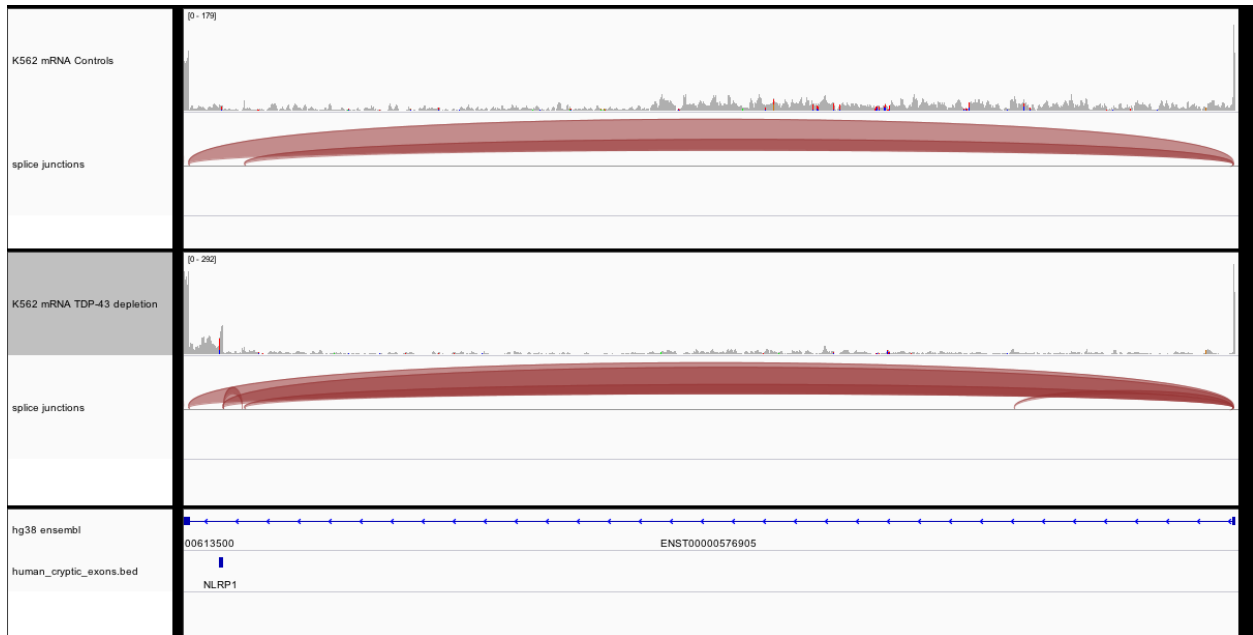


Human K562 total RNA

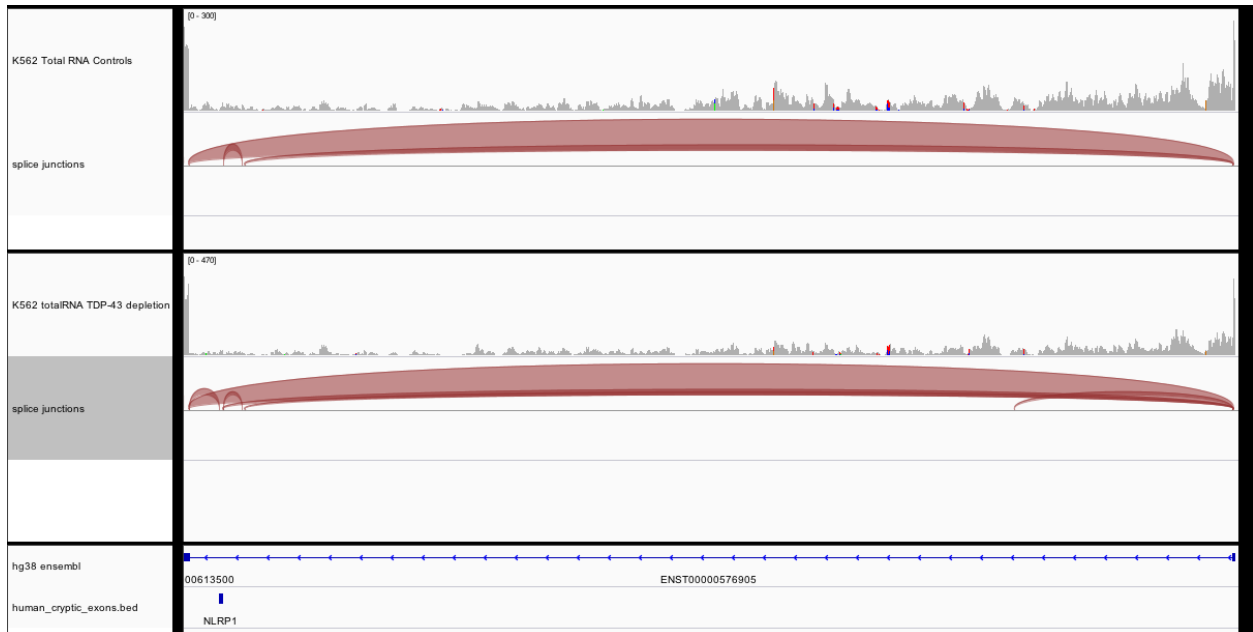


22 NLRP1 E045i1

Human K562 mRNA

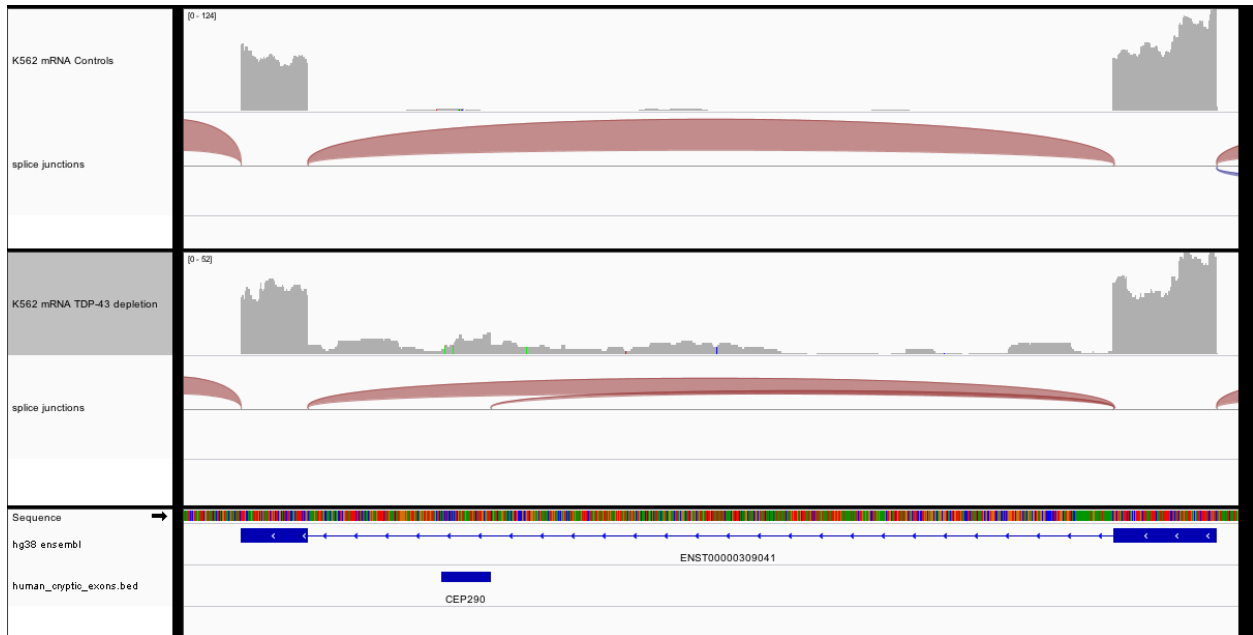


Human K562 total RNA

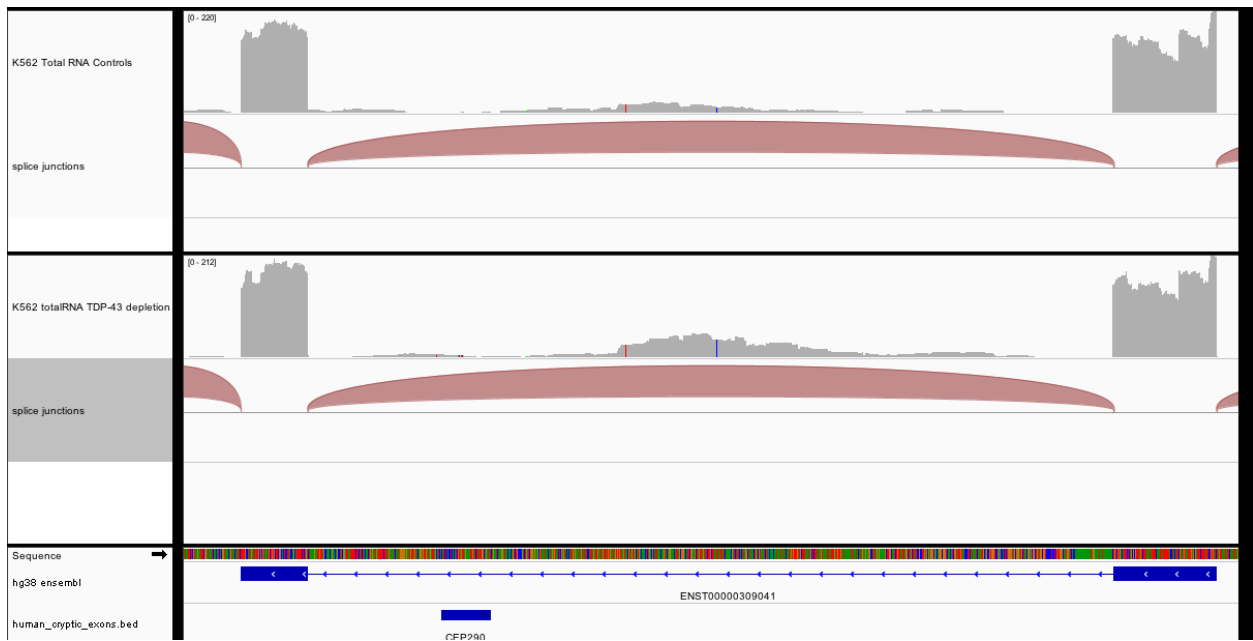


23 CEP290 E024i1

Human K562 mRNA

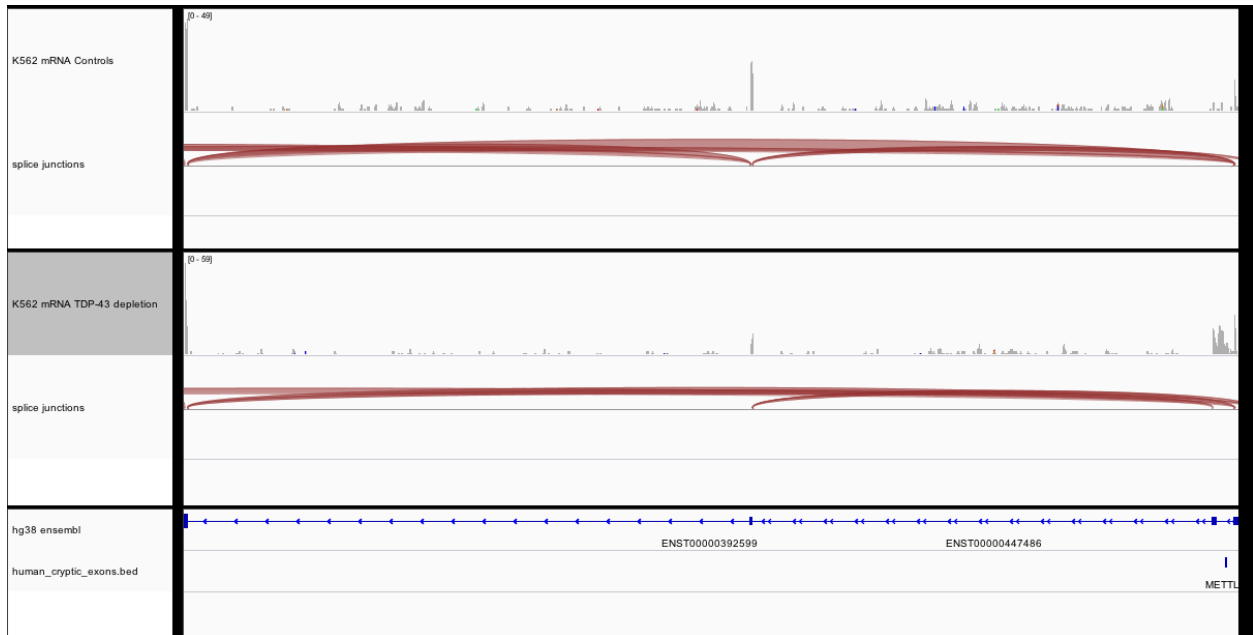


Human K562 total RNA

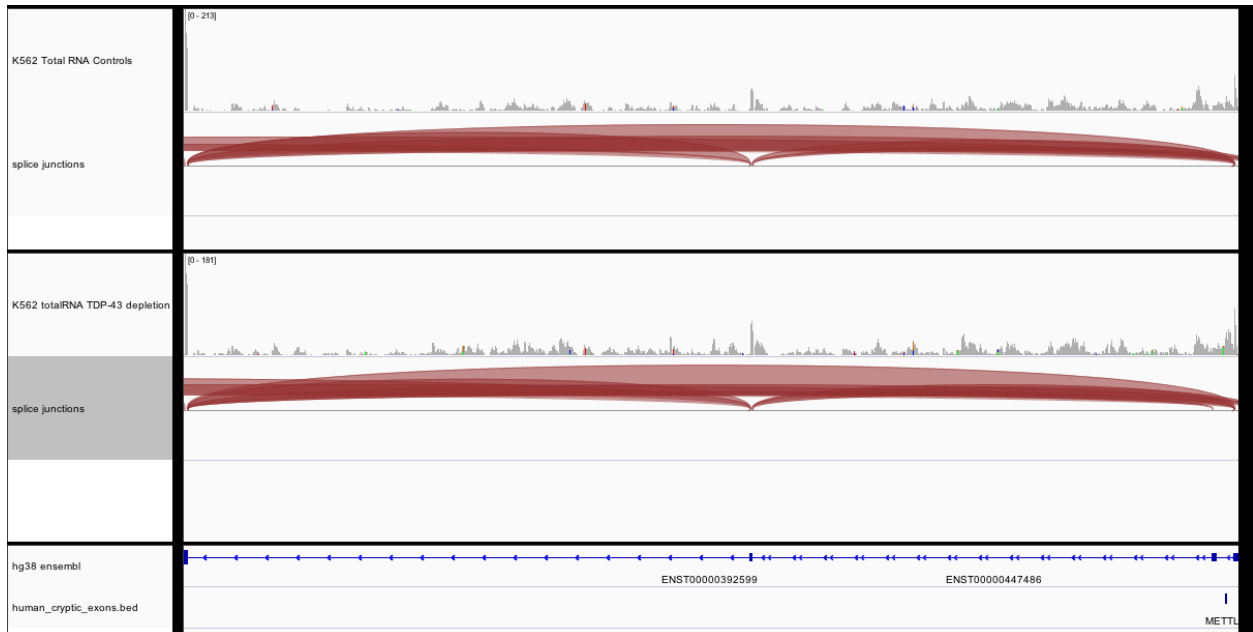


24 METTL8 E037i1

Human K562 mRNA

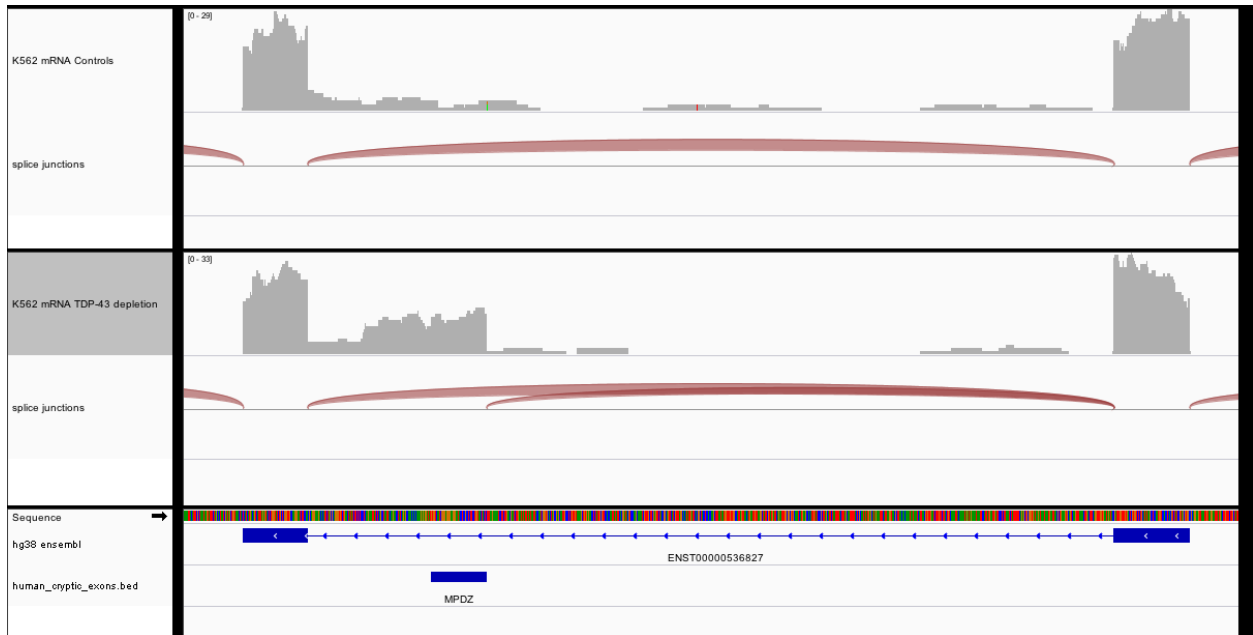


Human K562 total RNA

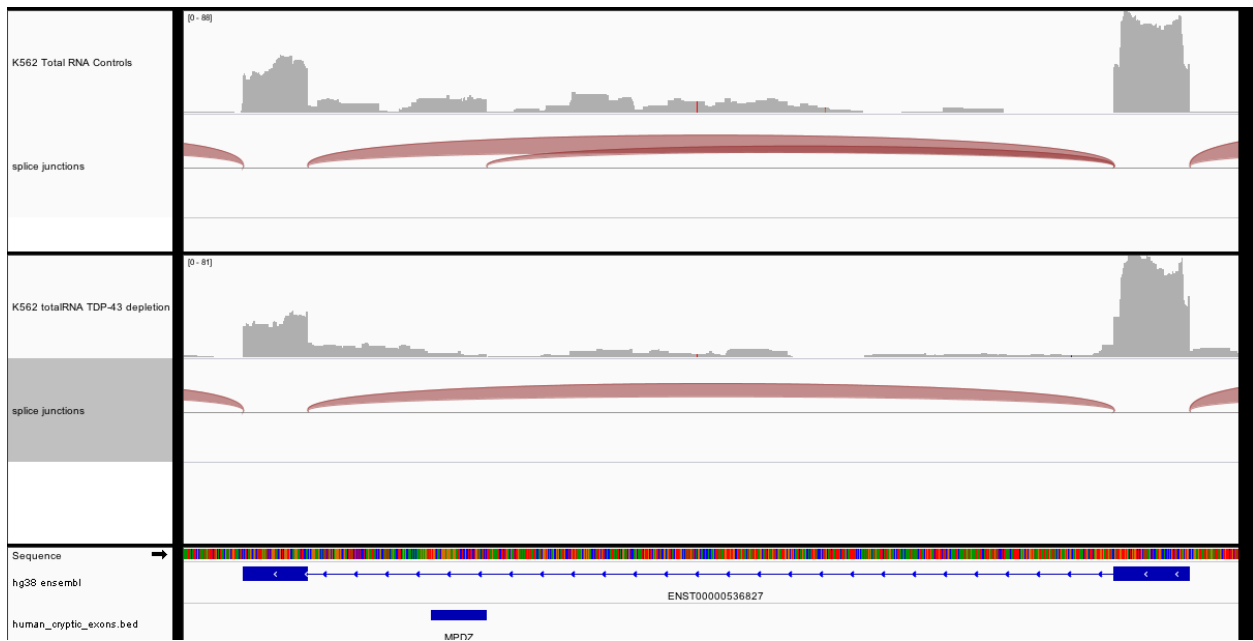


25 MPDZ E015i1

Human K562 mRNA

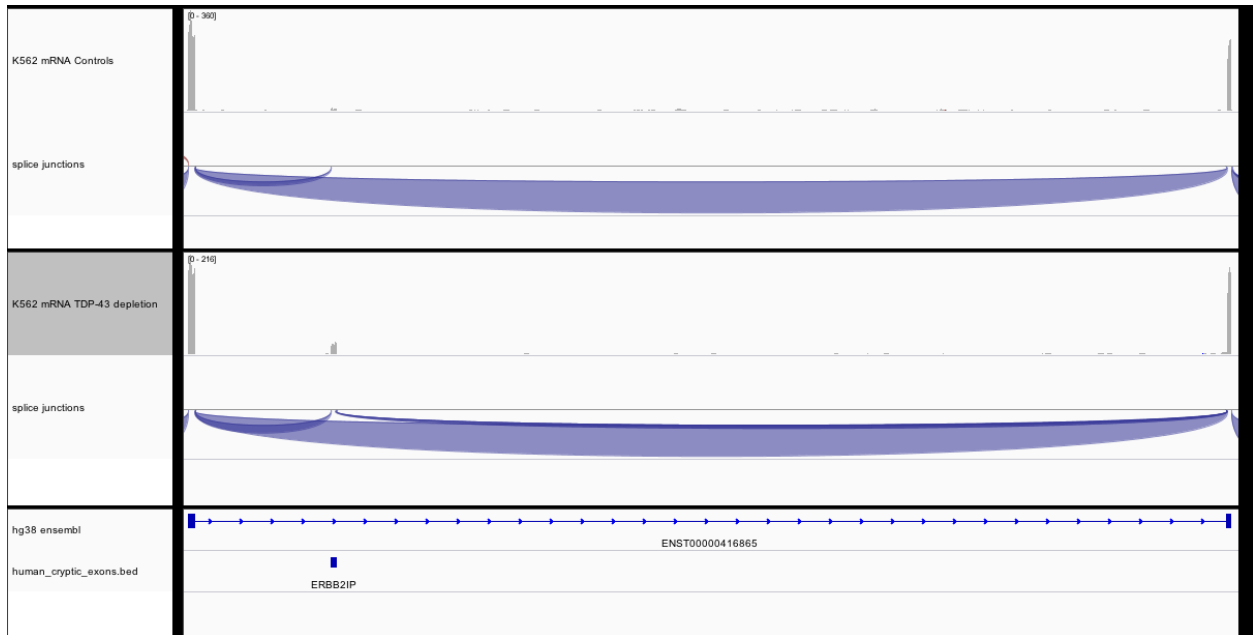


Human K562 total RNA

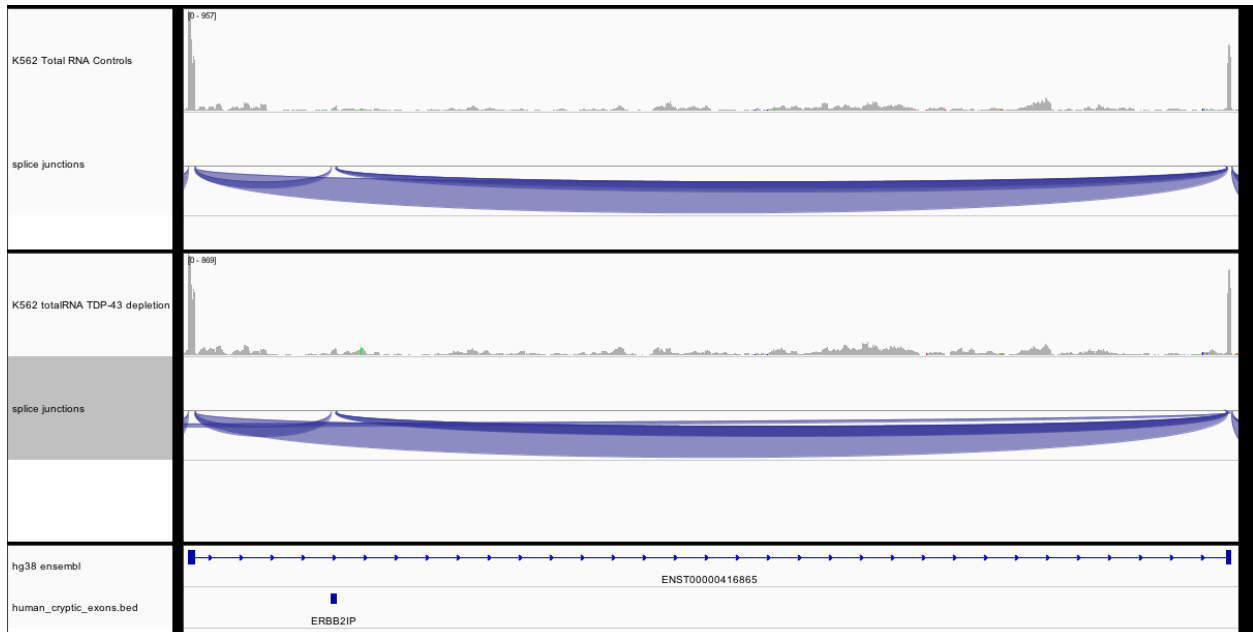


26 ERBB2IP E013i2

Human K562 mRNA

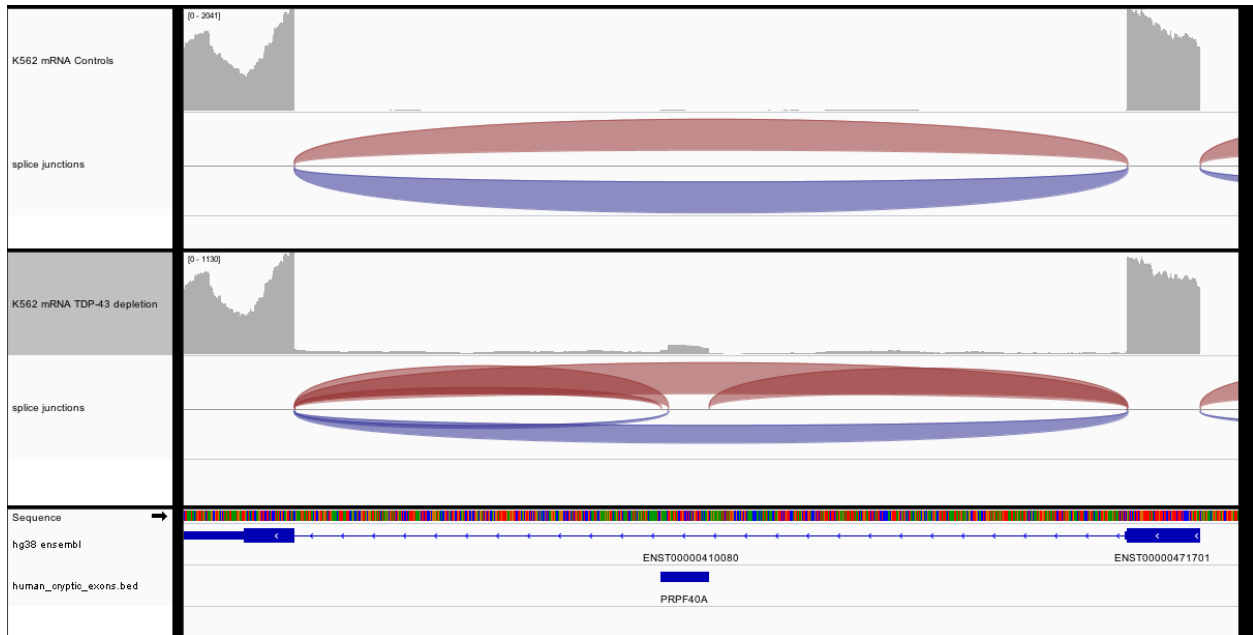


Human K562 total RNA

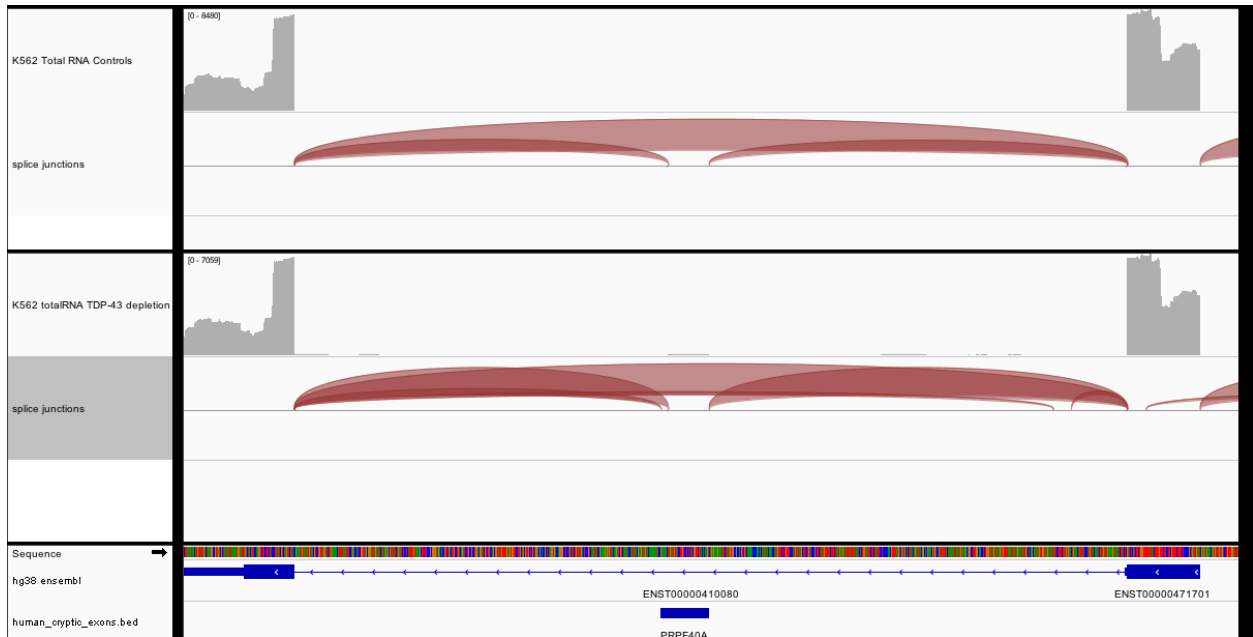


27 PRPF40A E001i1

Human K562 mRNA

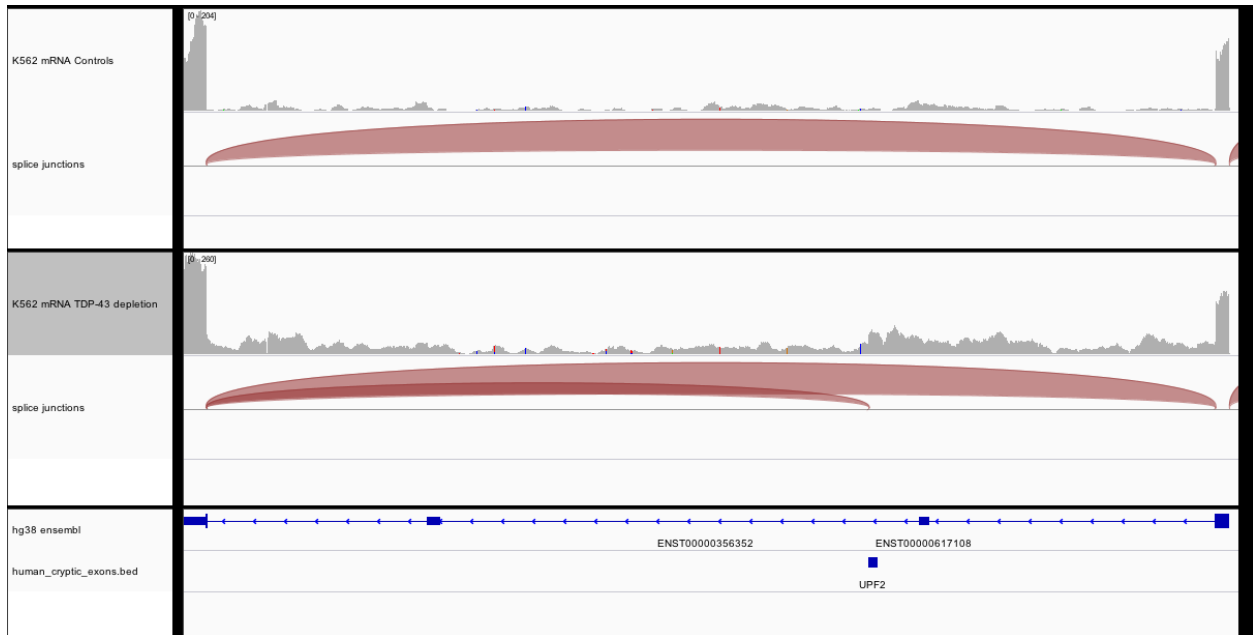


Human K562 total RNA

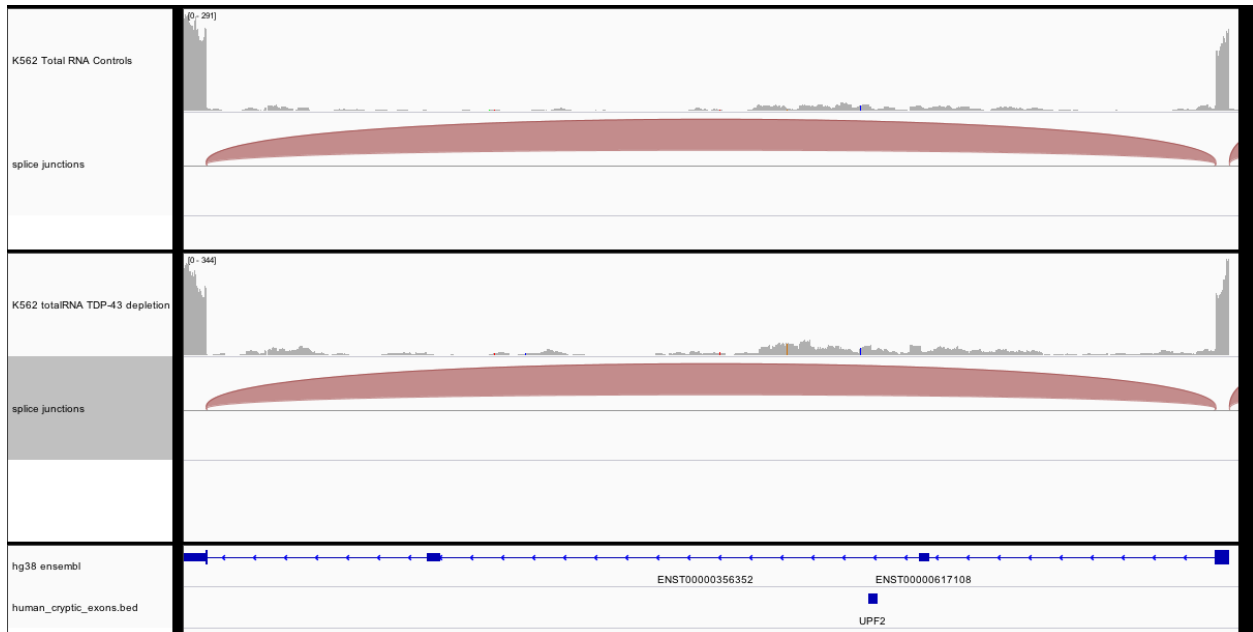


28 UPF2 E002i1

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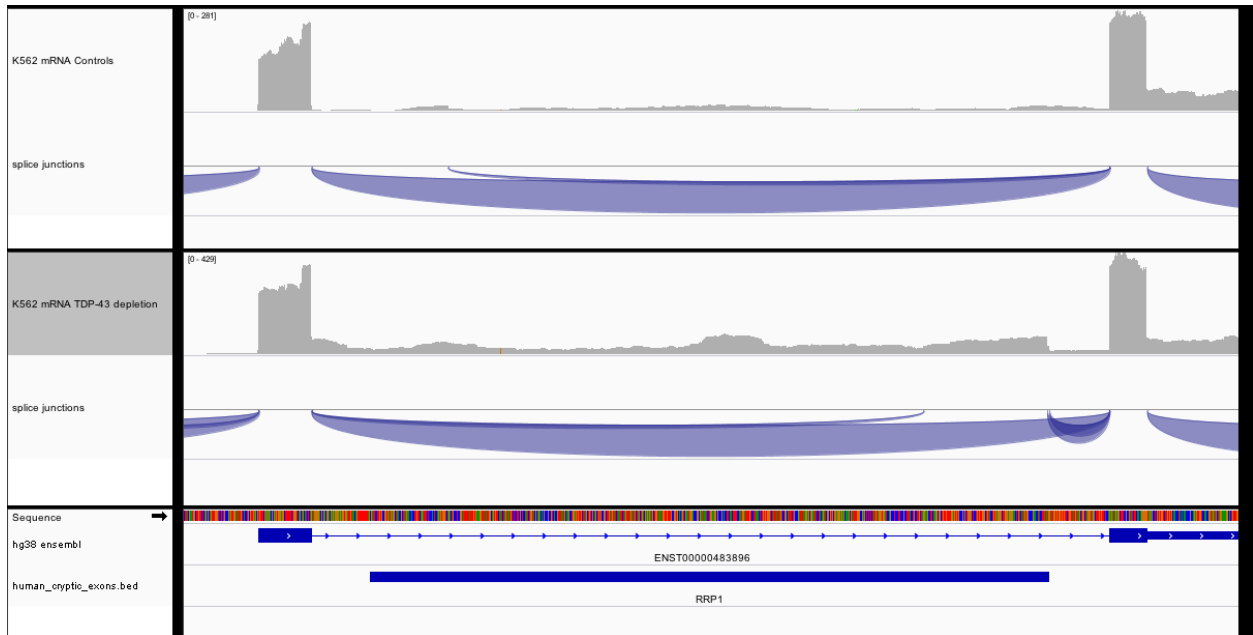


Human K562 total RNA

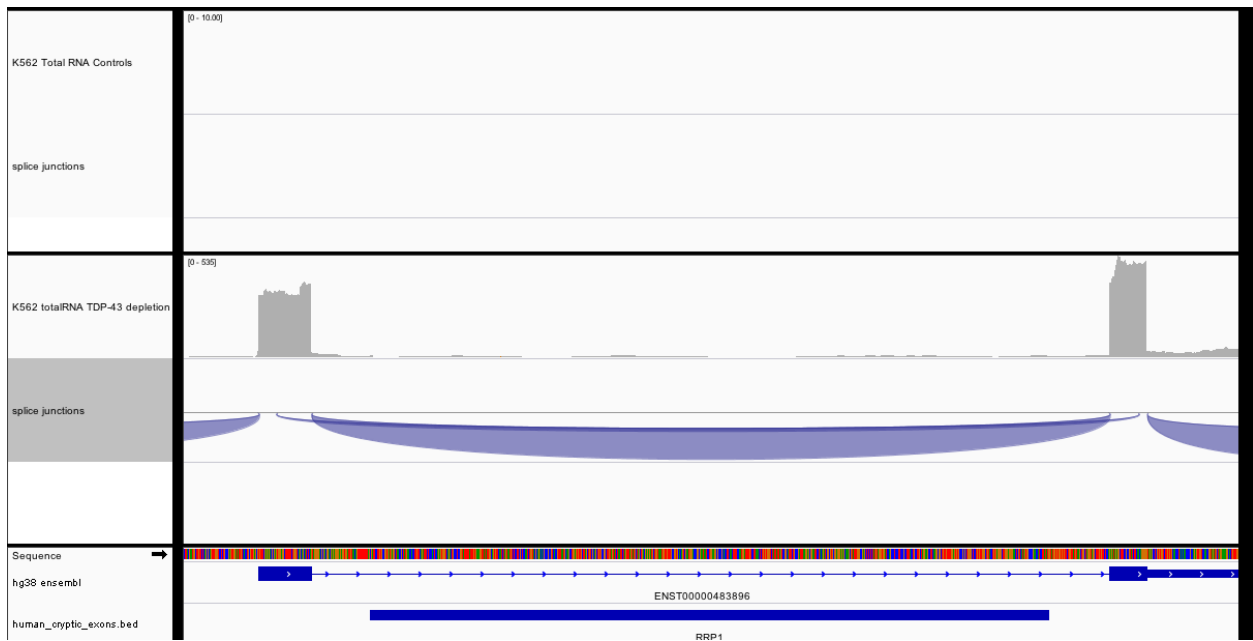


29 RRP1 E008i1

Human K562 mRNA

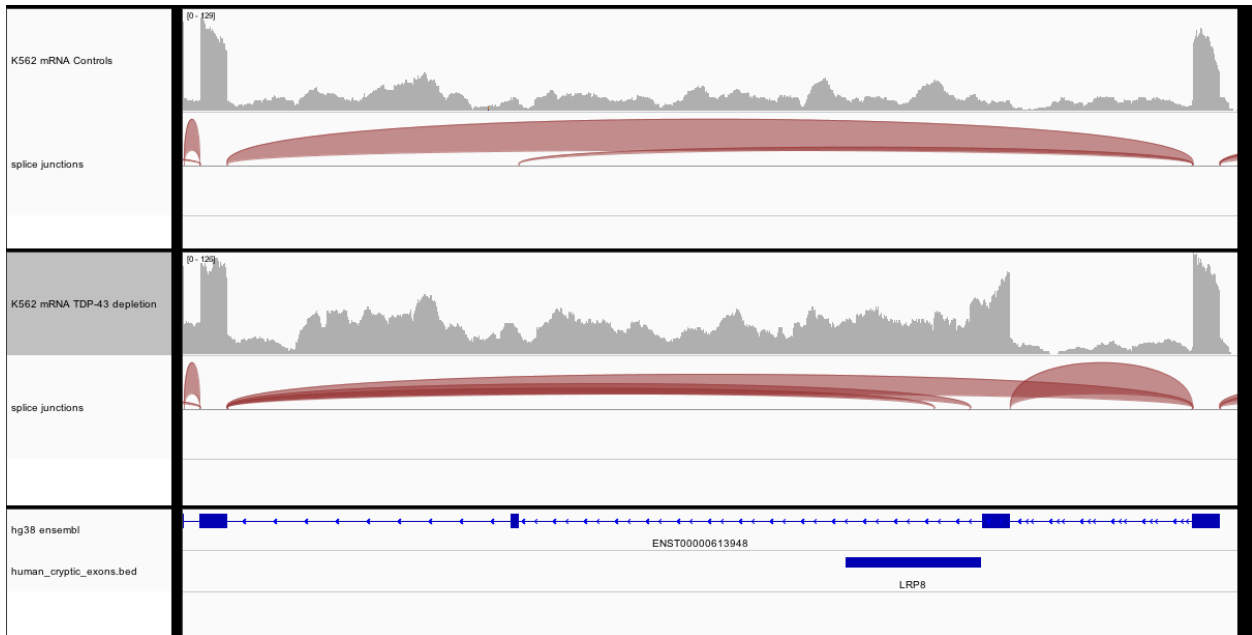


Human K562 total RNA

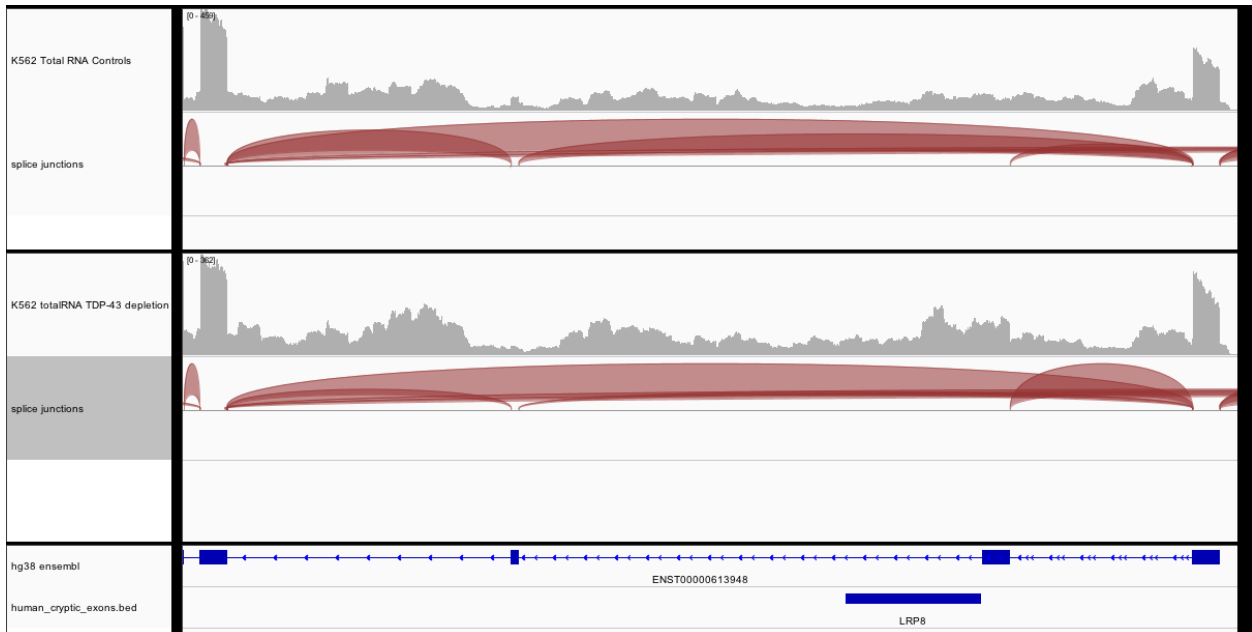


30 LRP8 E033i1

Human K562 mRNA

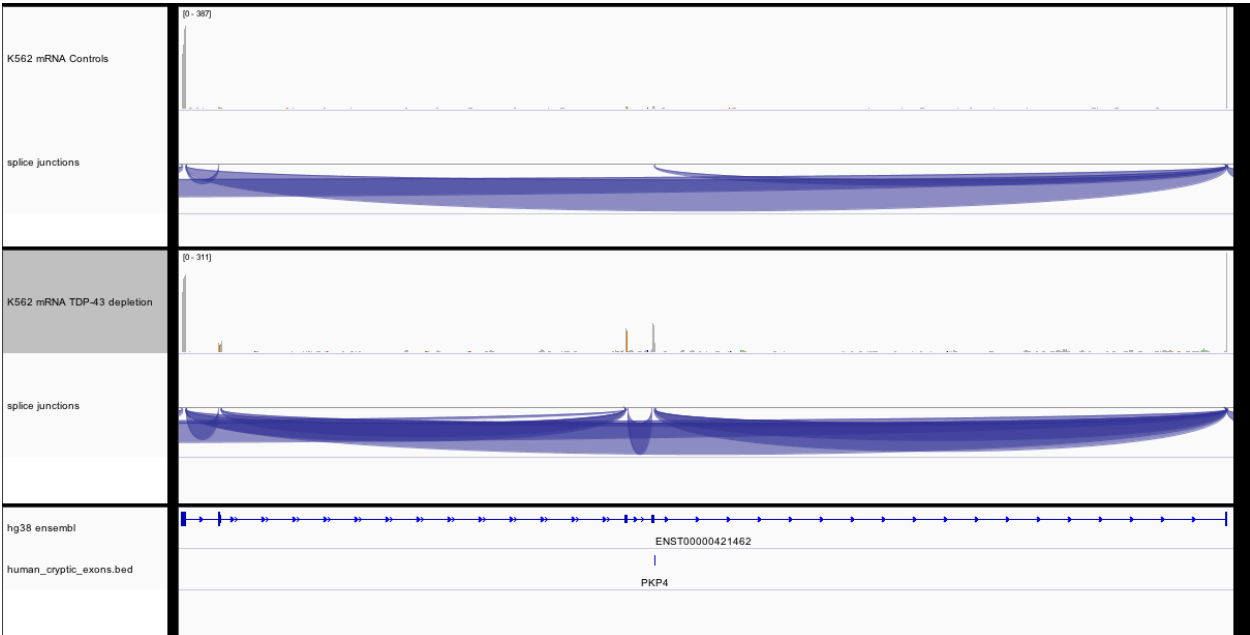


Human K562 total RNA

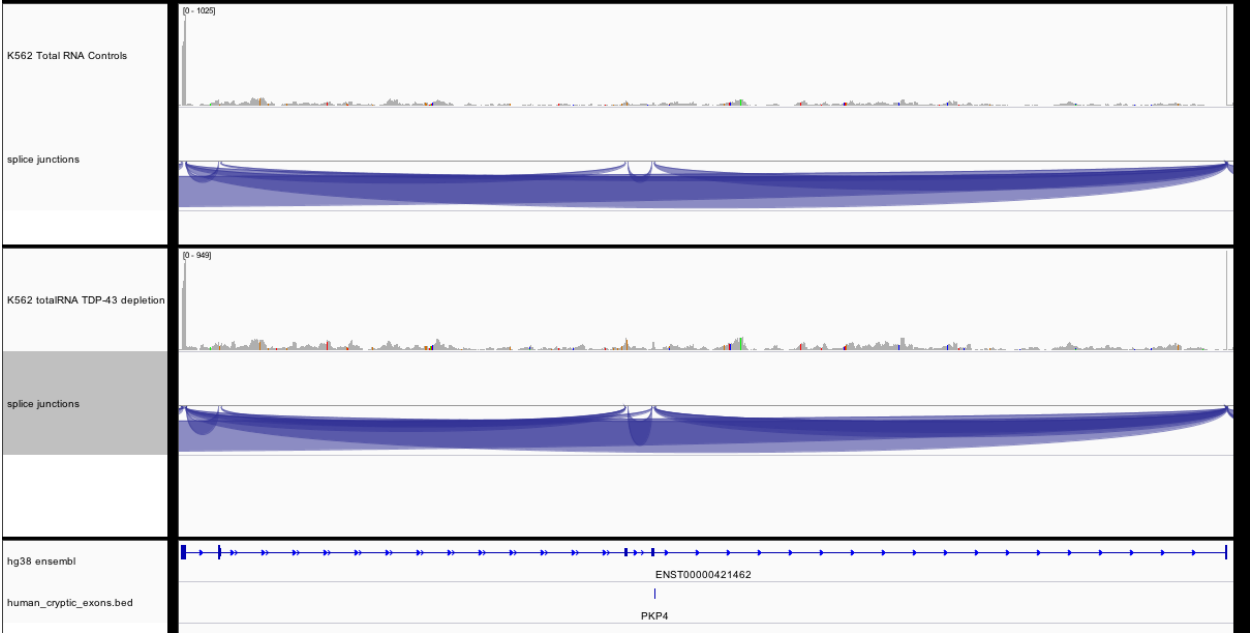


31 PKP4 E020i1

Human K562 mRNA

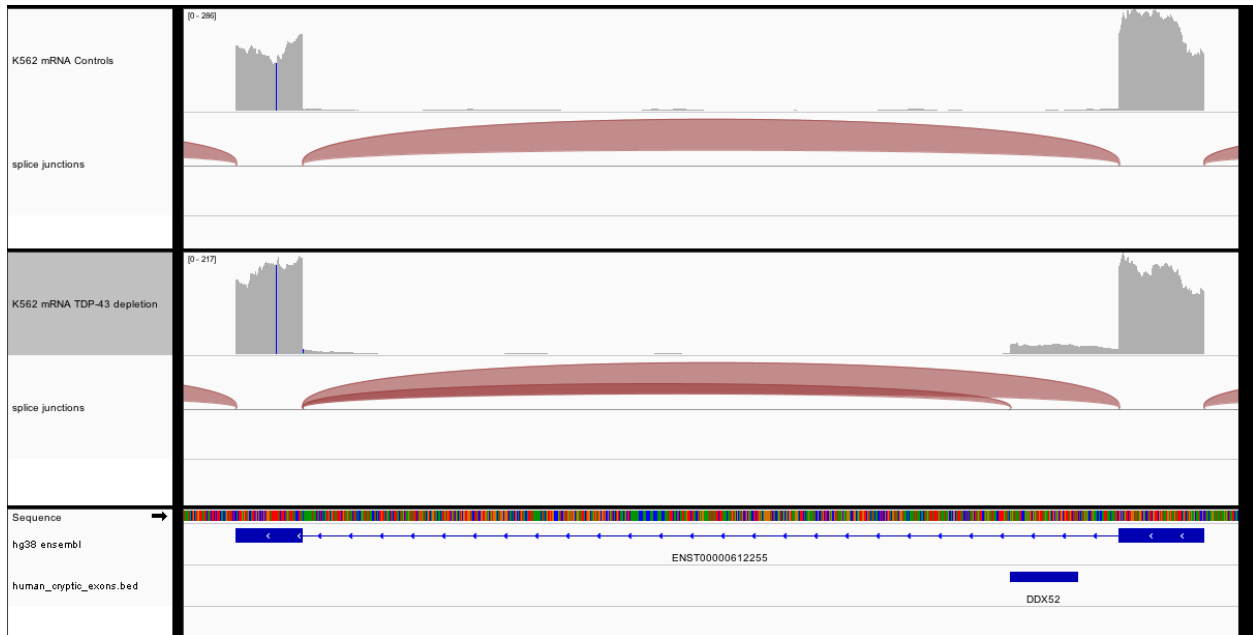


Human K562 total RNA

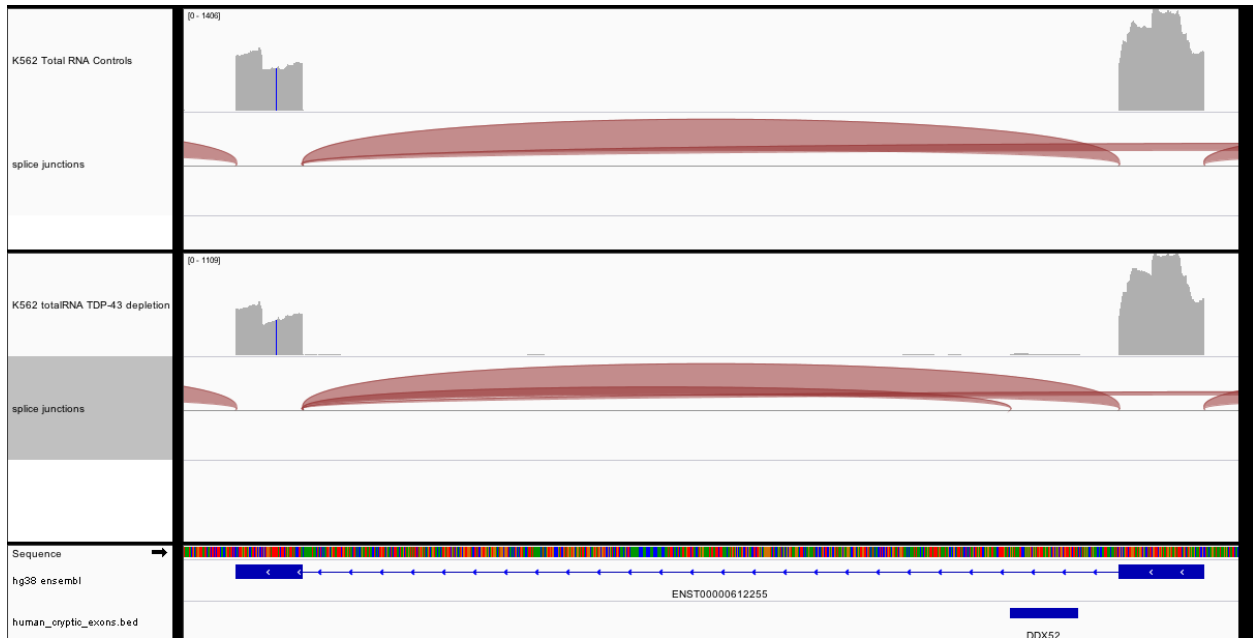


32 DDX52 E022i1

Human K562 mRNA

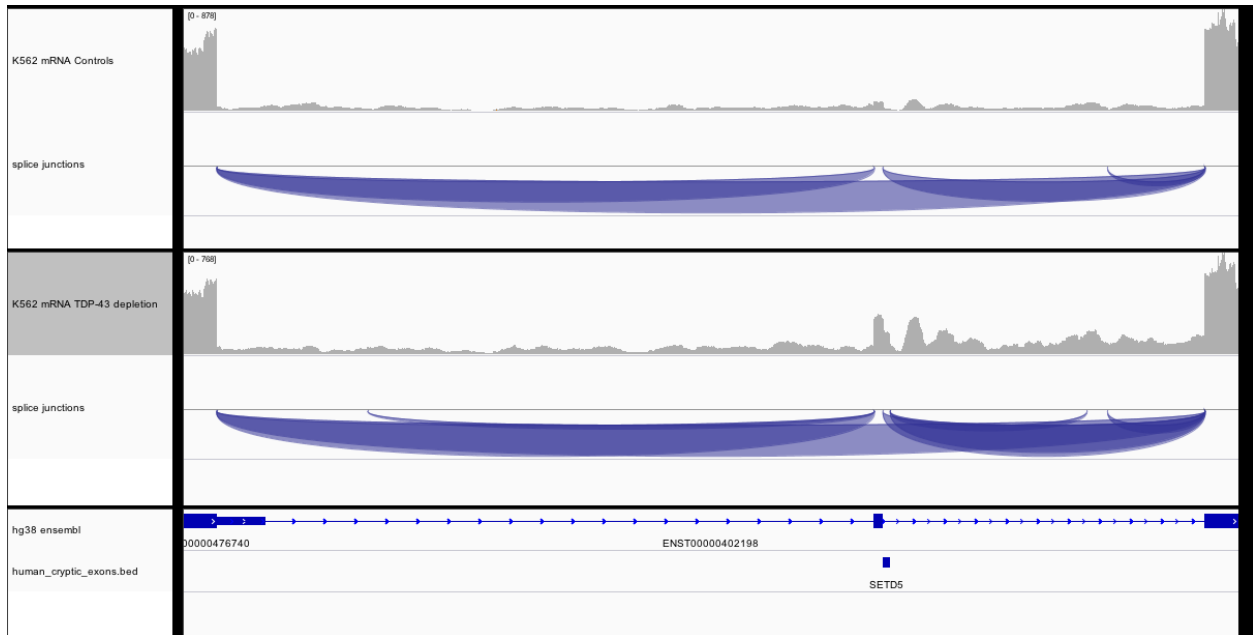


Human K562 total RNA

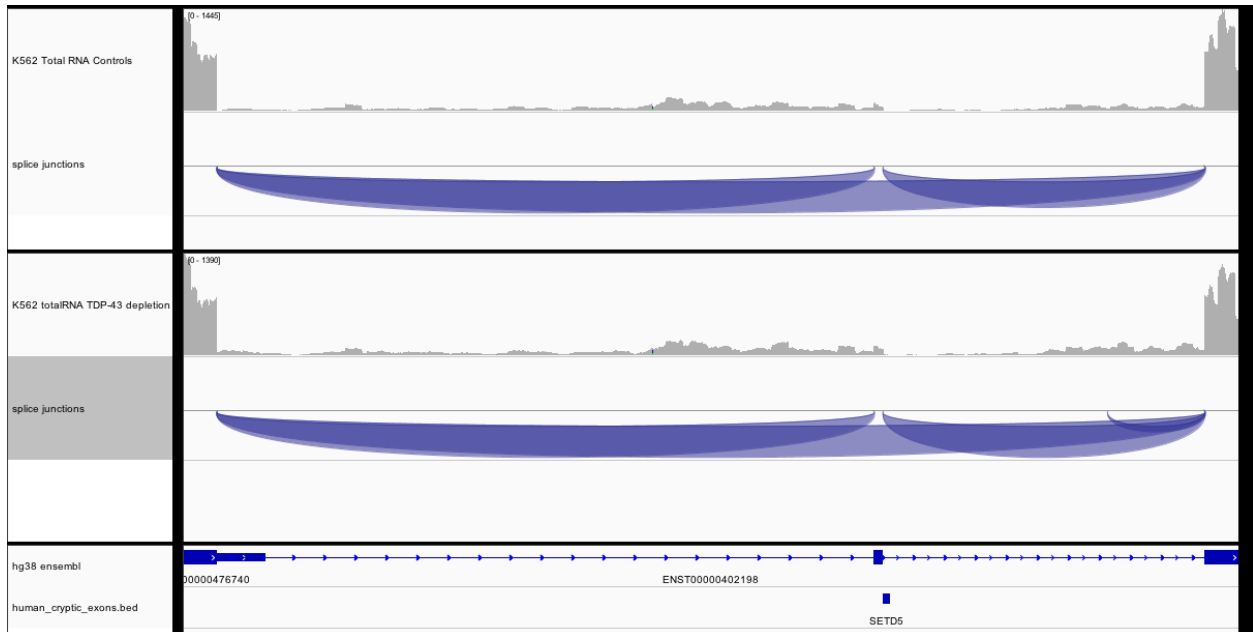


33 SETD5 E065i1

Human K562 mRNA

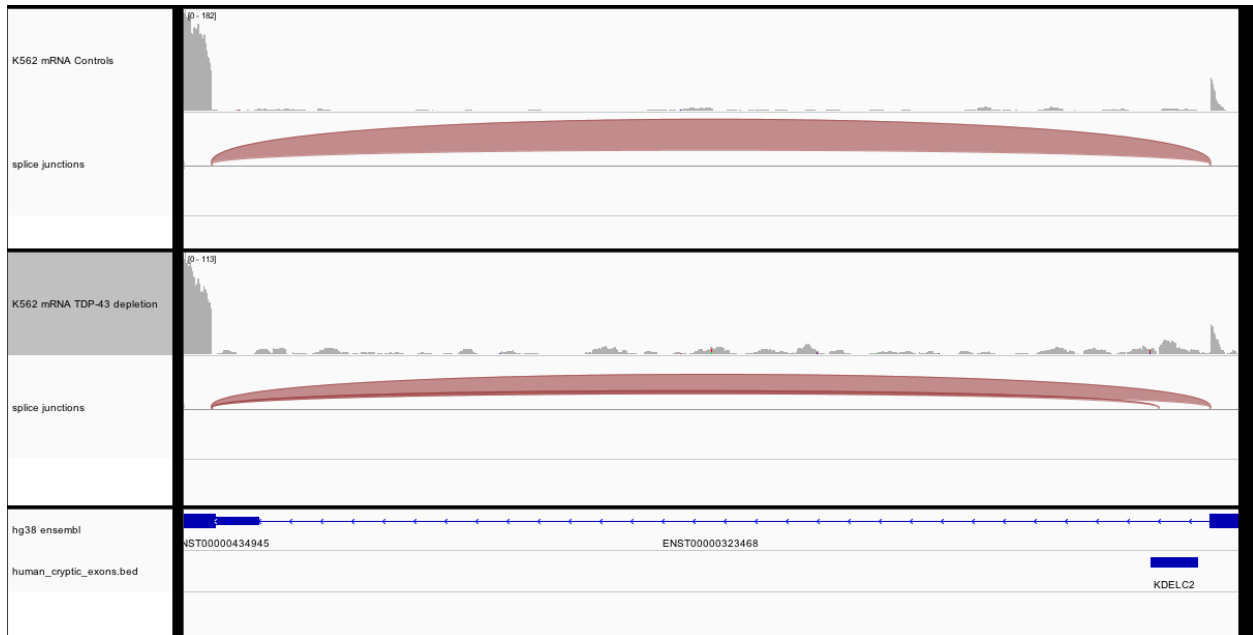


Human K562 total RNA

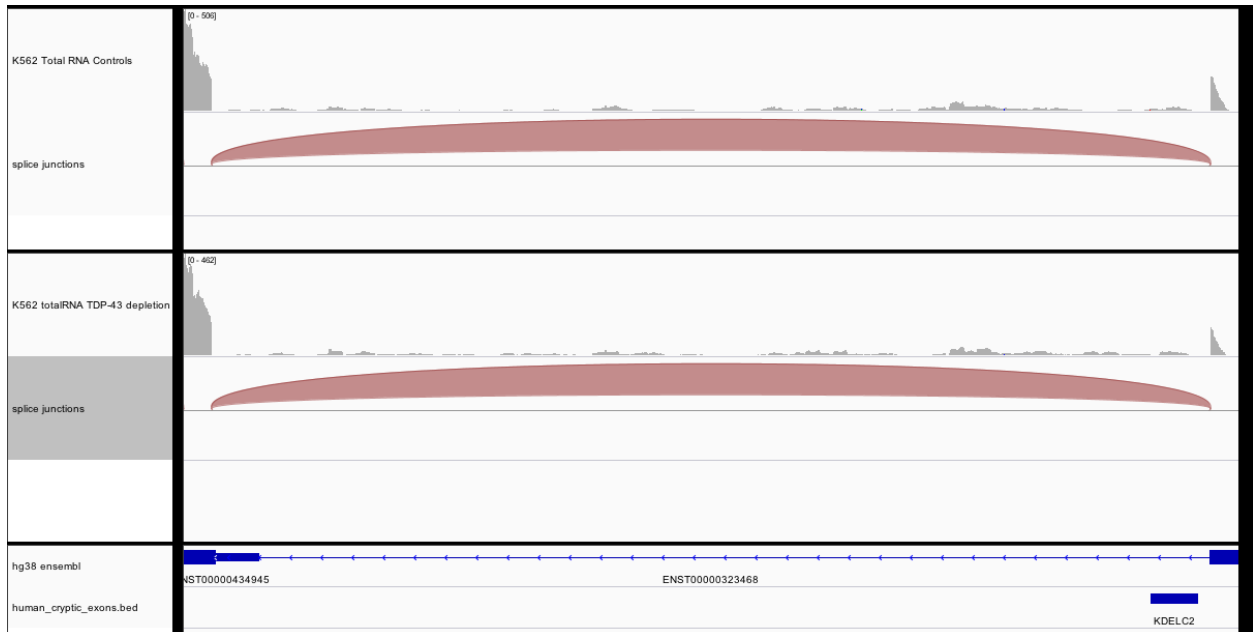


34 KDELC2 E018i2

Human K562 mRNA

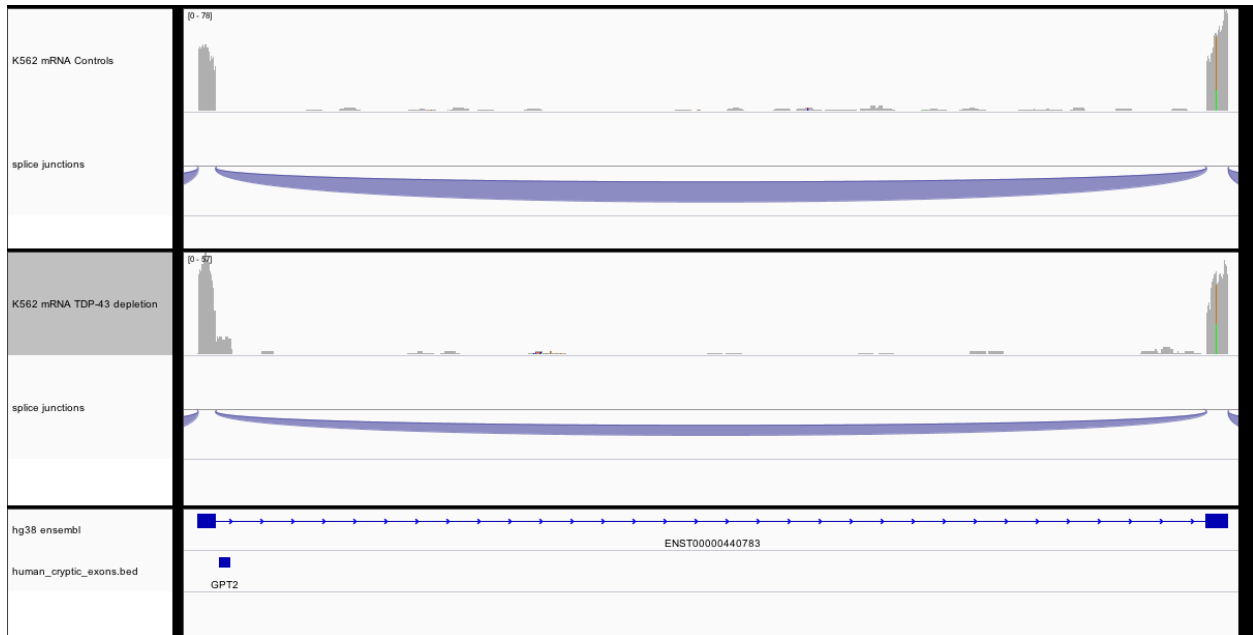


Human K562 total RNA

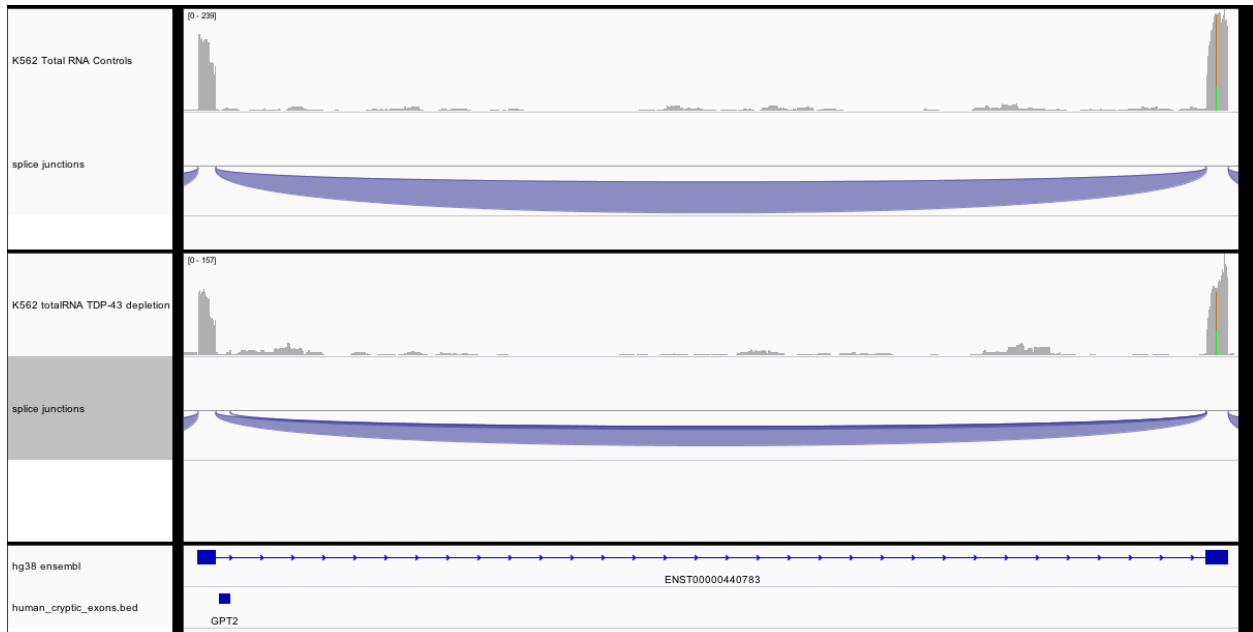


35 GPT2 E009i1

Human K562 mRNA

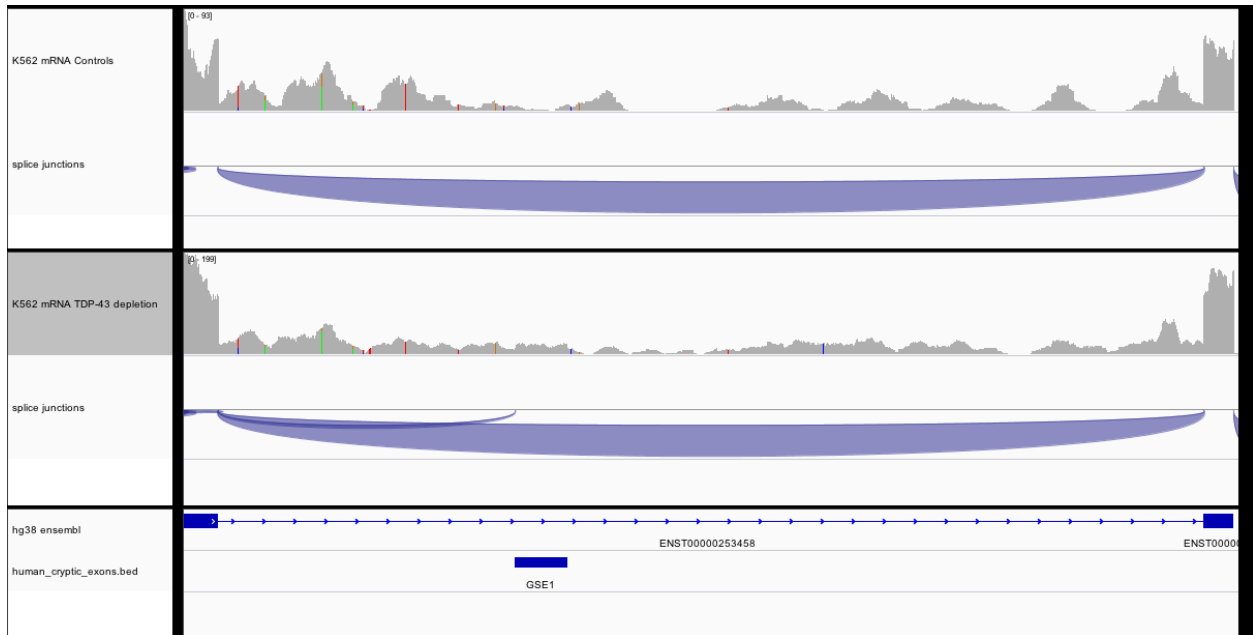


Human K562 total RNA

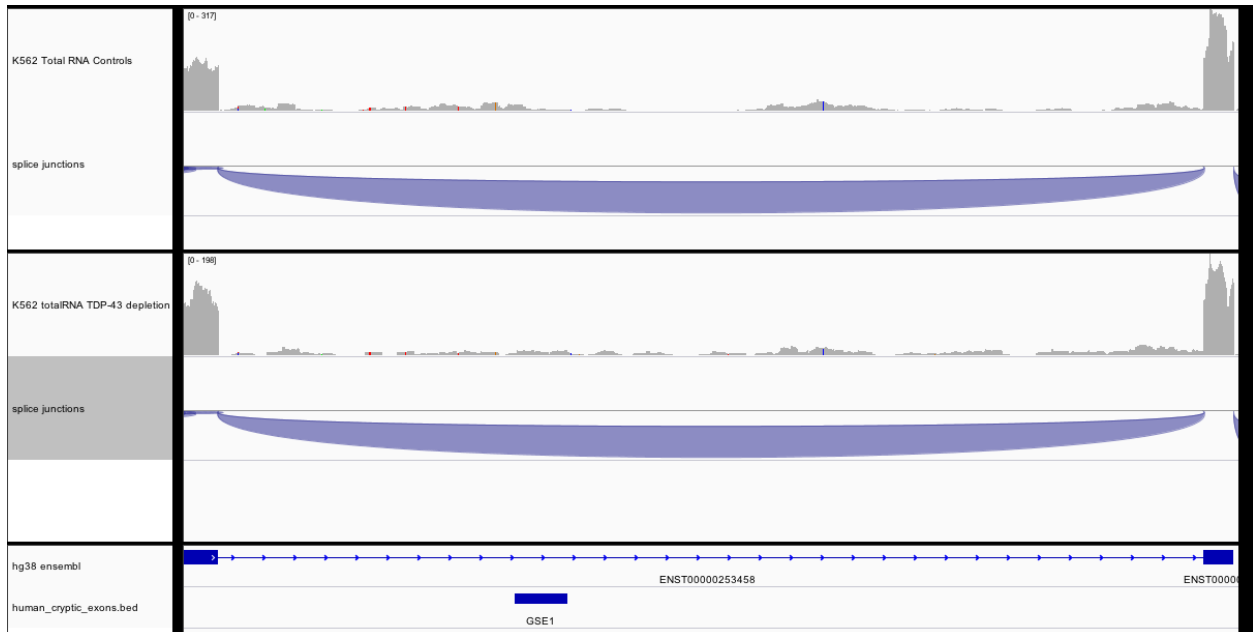


36 GSE1 E007i1

Human K562 mRNA

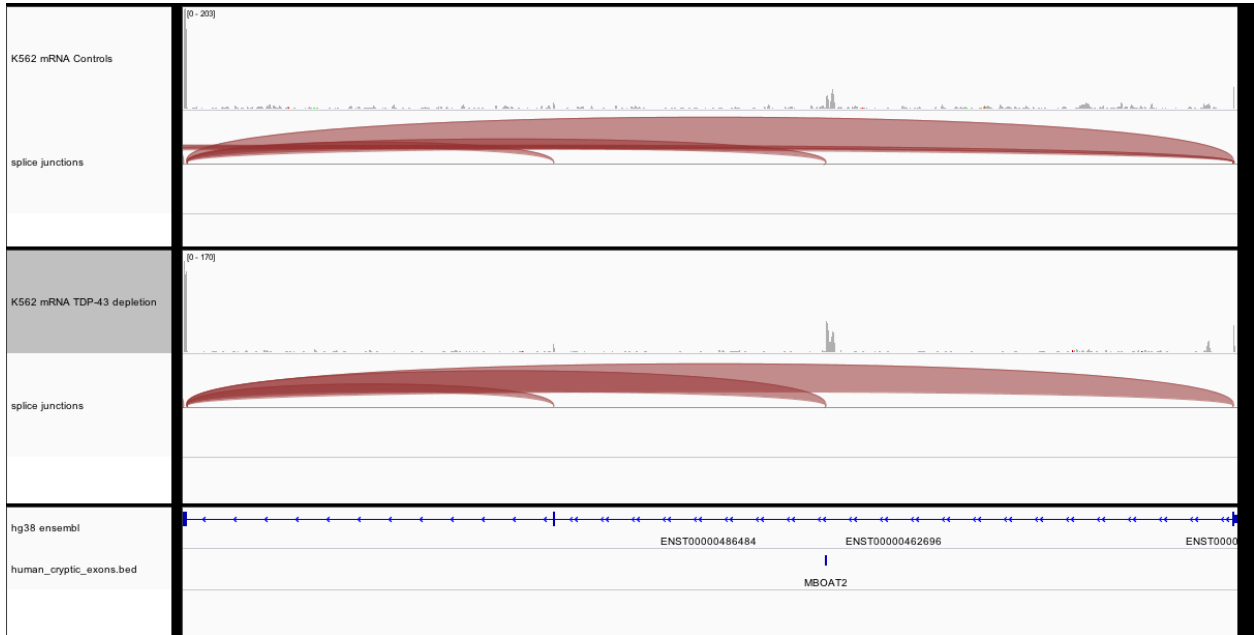


Human K562 total RNA

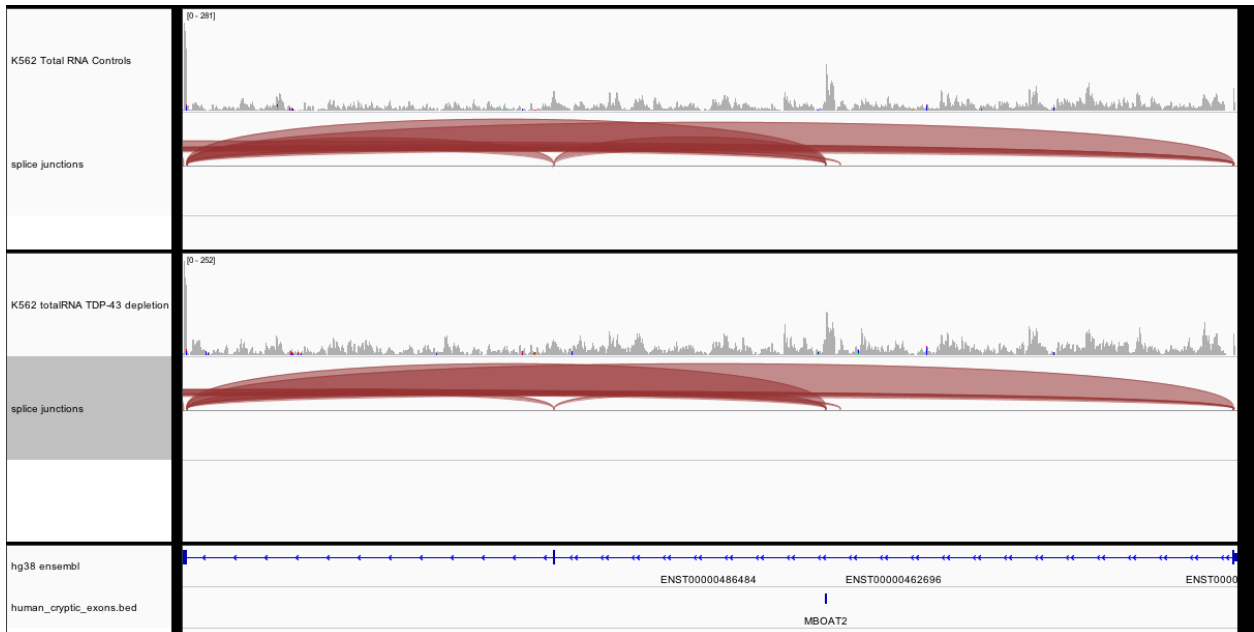


37 MBOAT2 E029i2

Human K562 mRNA

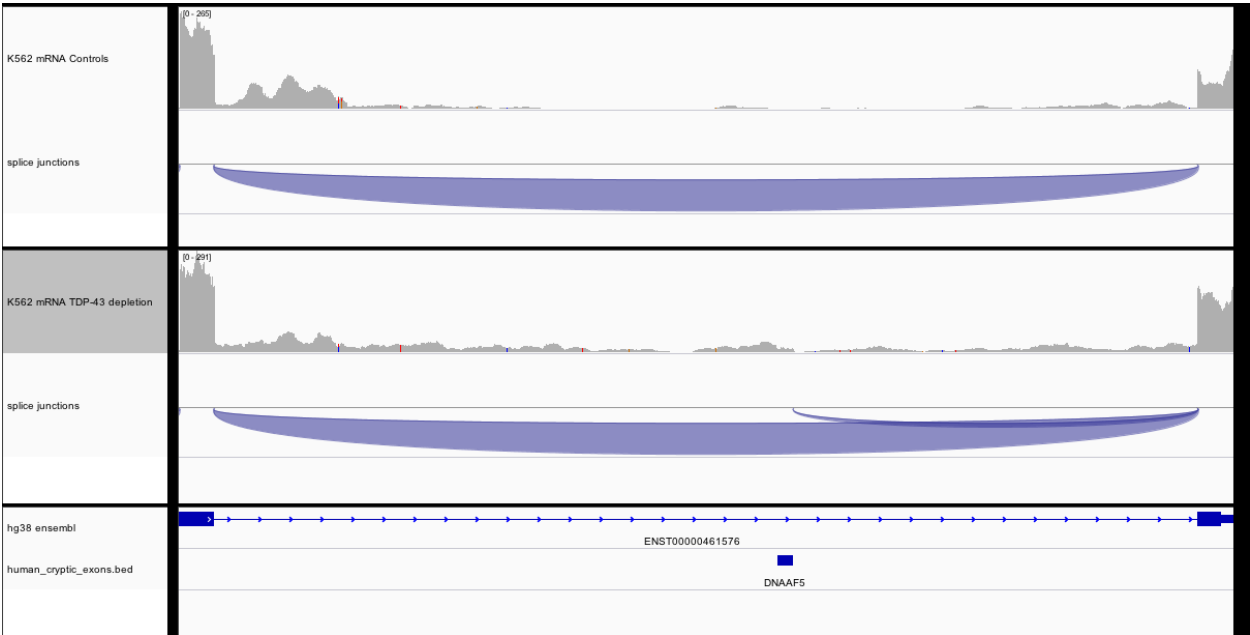


Human K562 total RNA

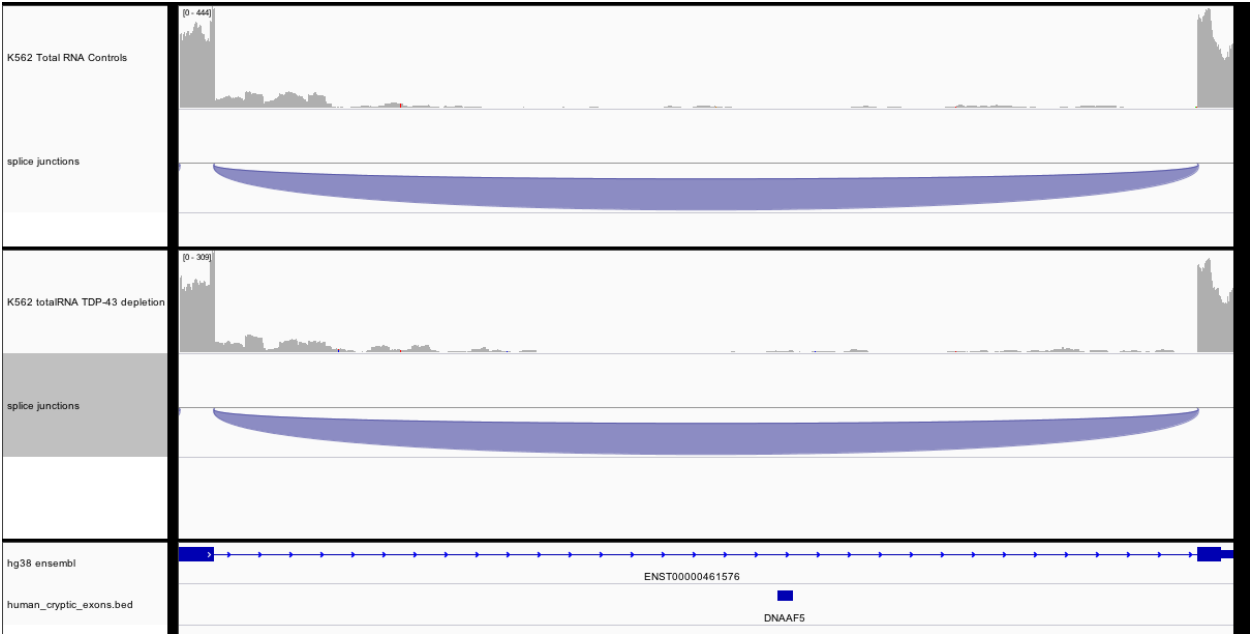


38 DNAAF5 E024i1

Human K562 mRNA

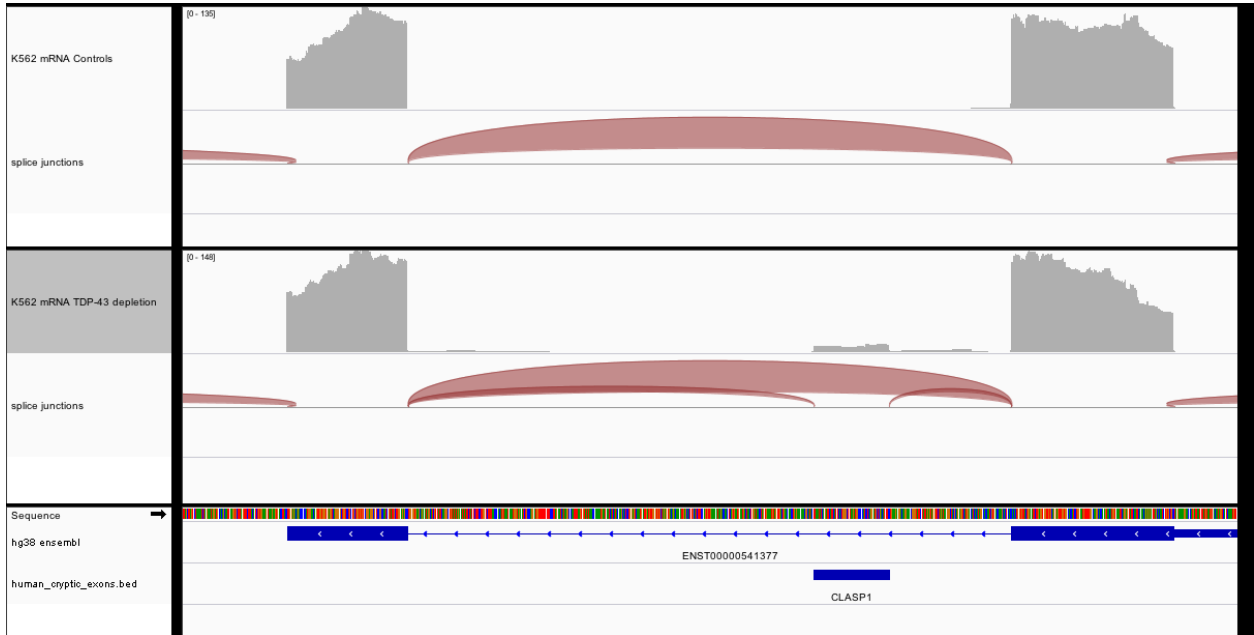


Human K562 total RNA

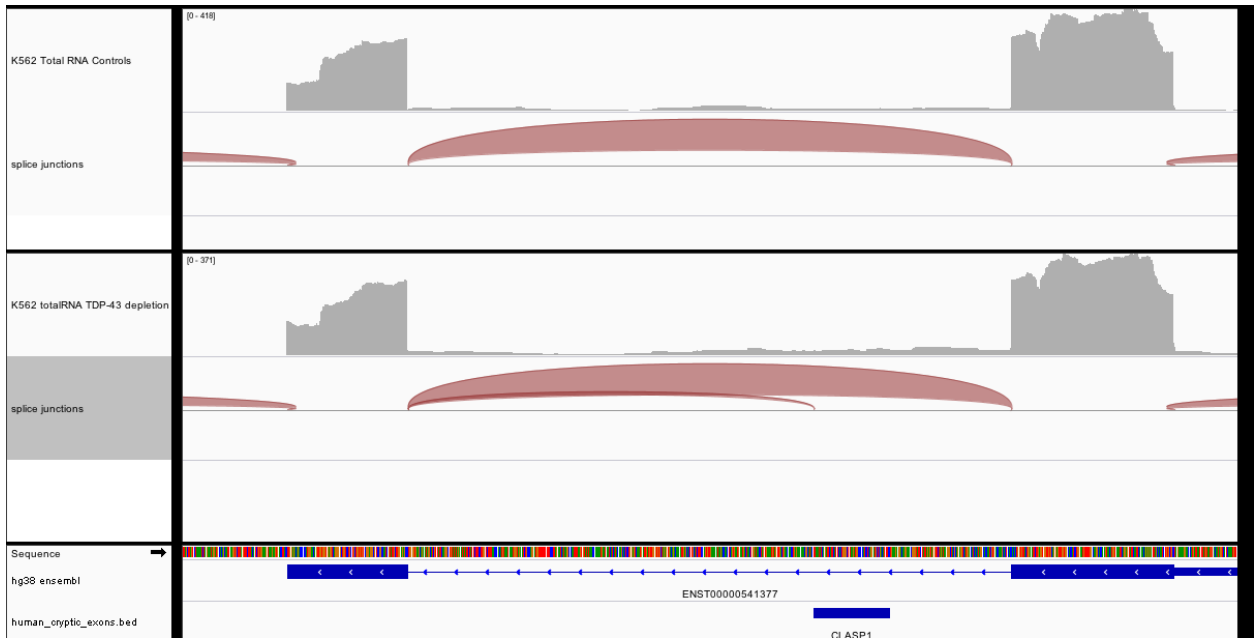


39 CLASP1 E012i1

Human K562 mRNA

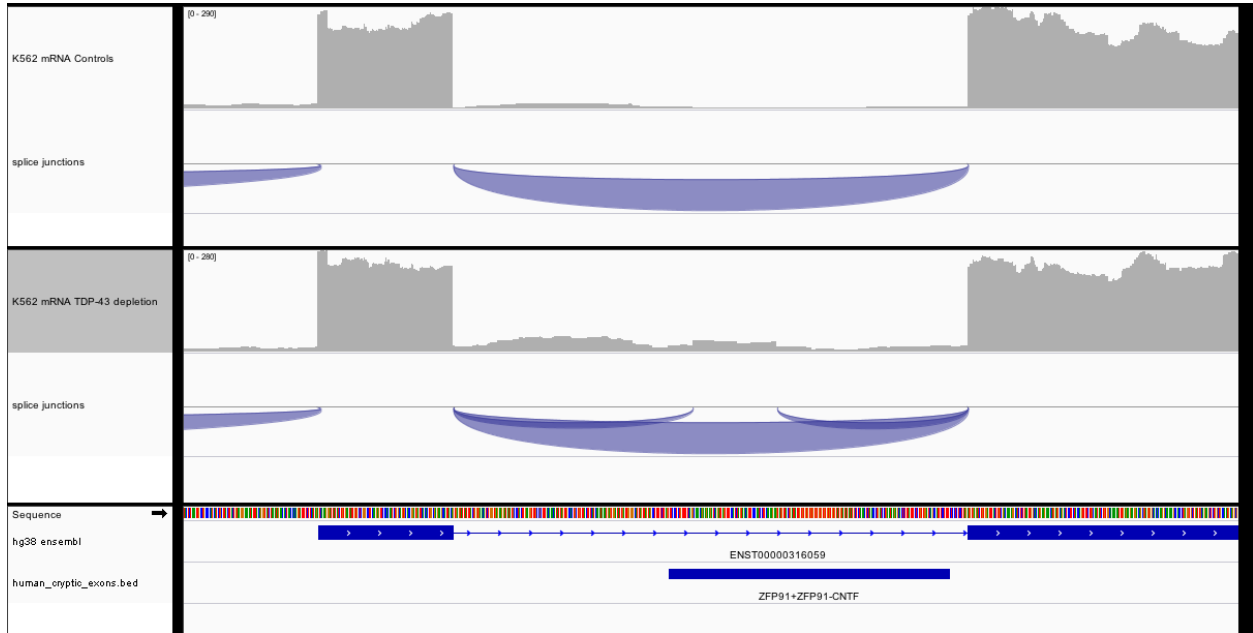


Human K562 total RNA

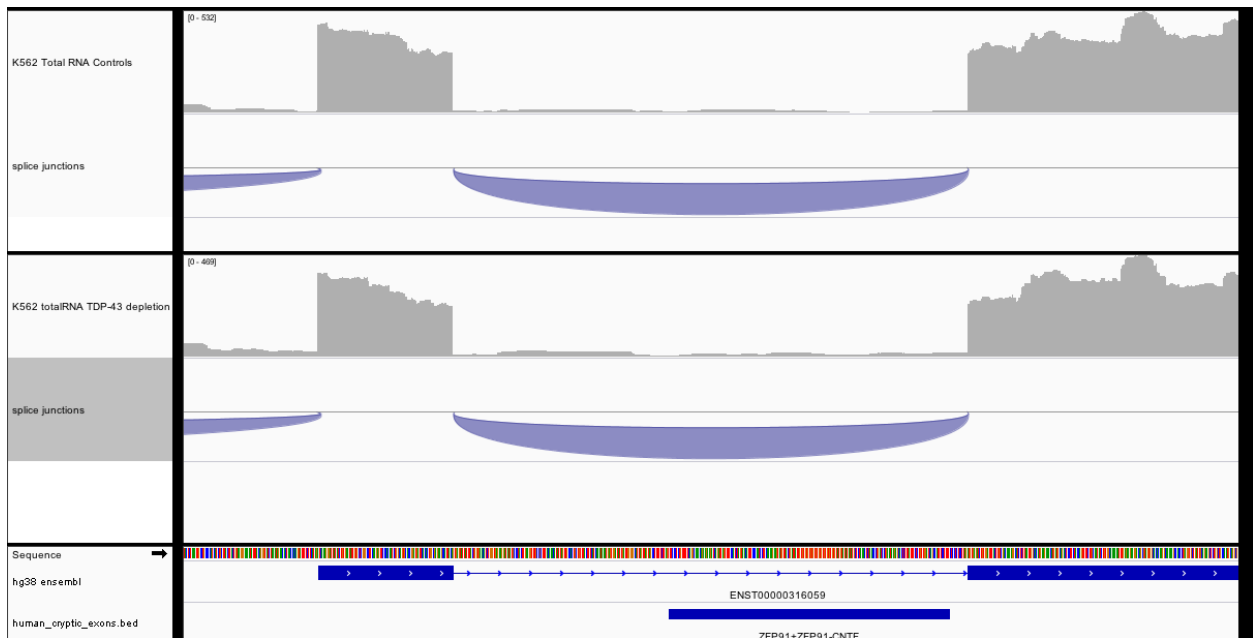


40 ZFP91+ZFP91-CNTF E012i1

Human K562 mRNA

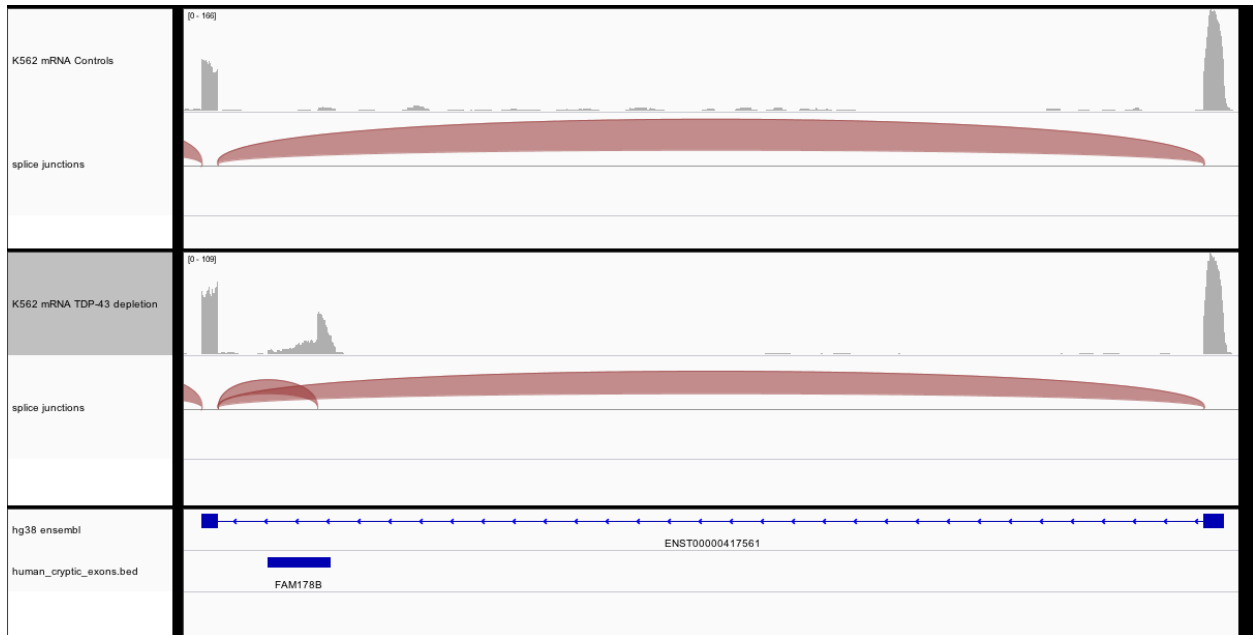


Human K562 total RNA

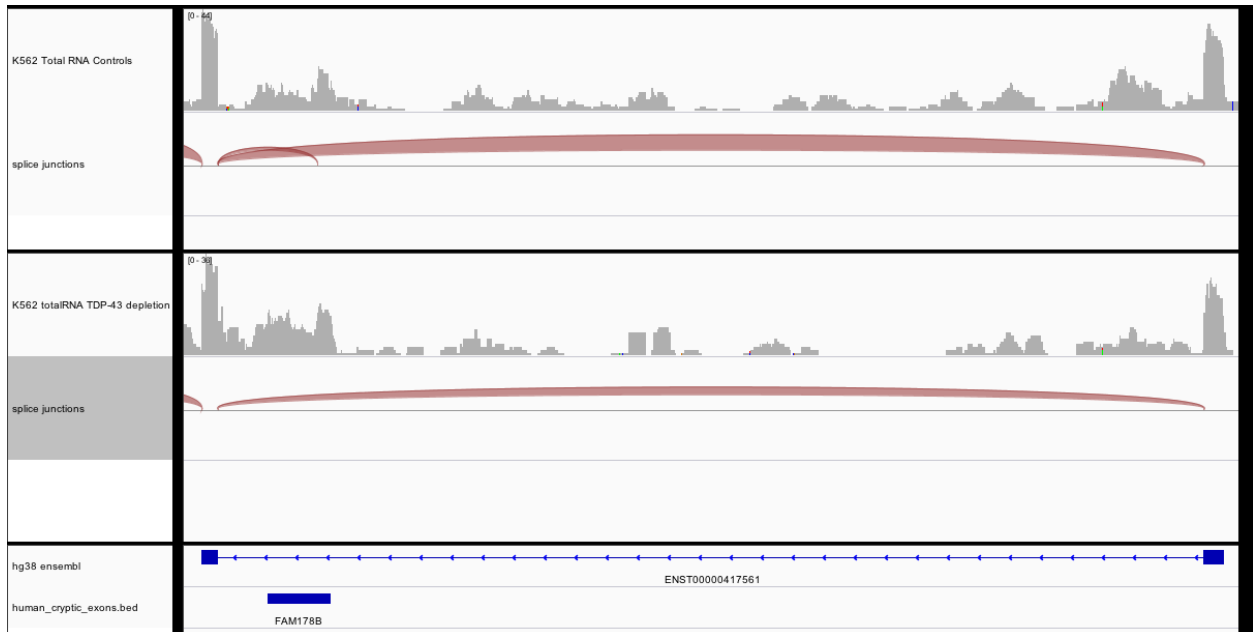


41 FAM178B E017i1

Human K562 mRNA

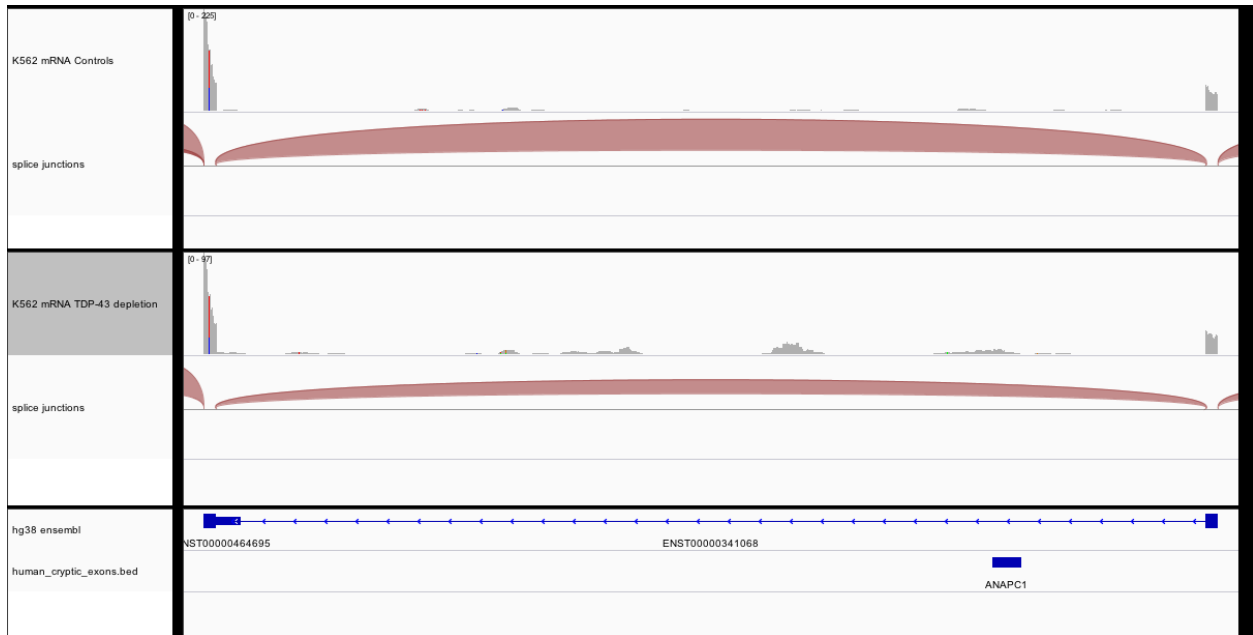


Human K562 total RNA

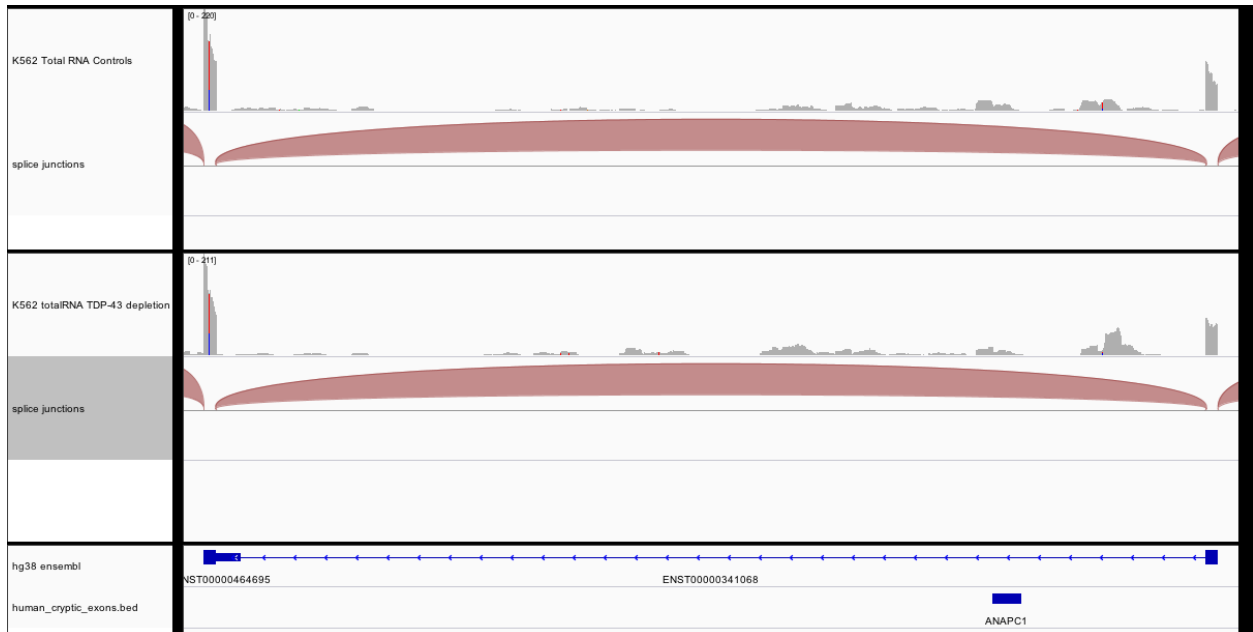


42 ANAPC1 E020i1

Human K562 mRNA

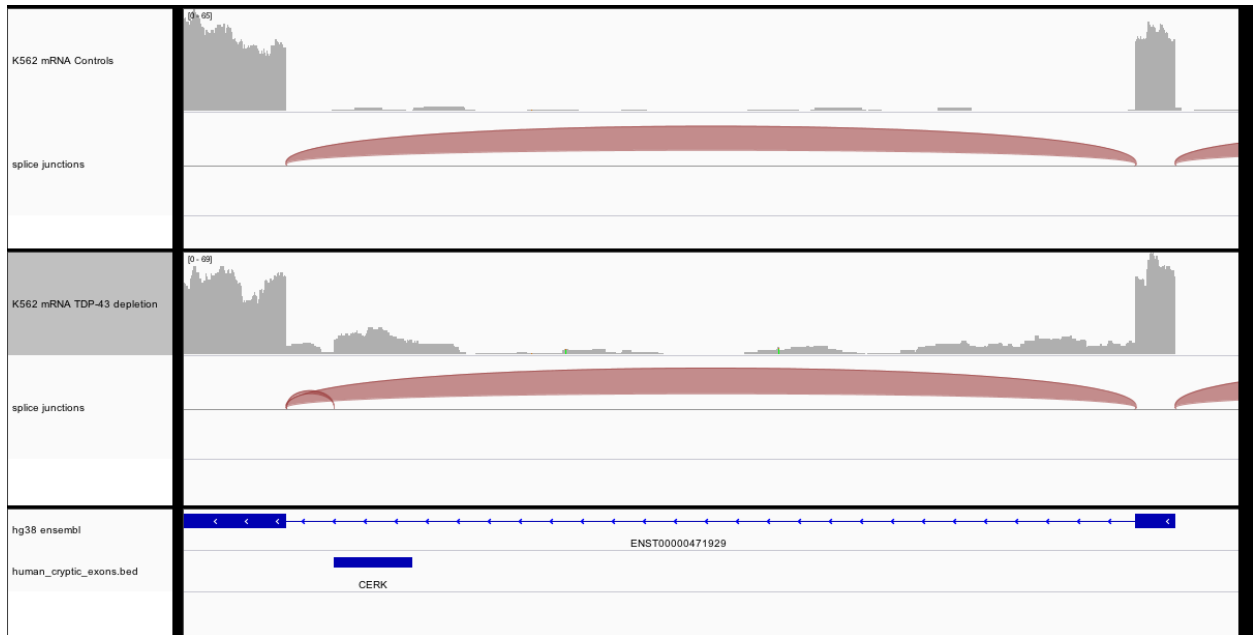


Human K562 total RNA

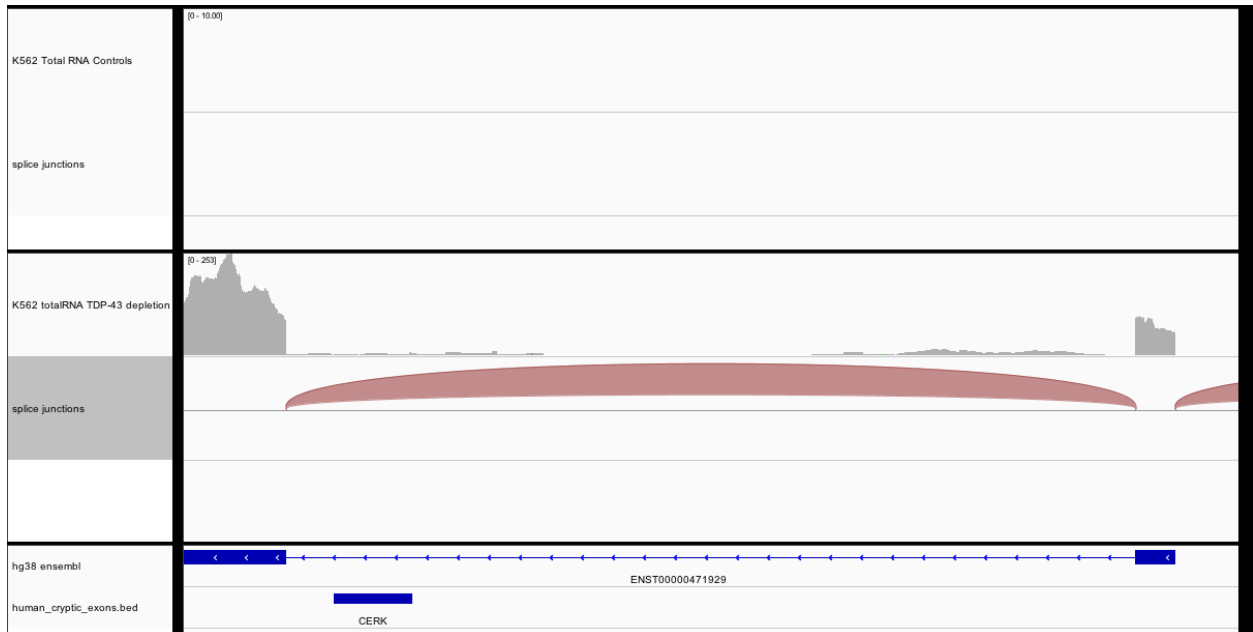


43 CERK E005i1

Human K562 mRNA

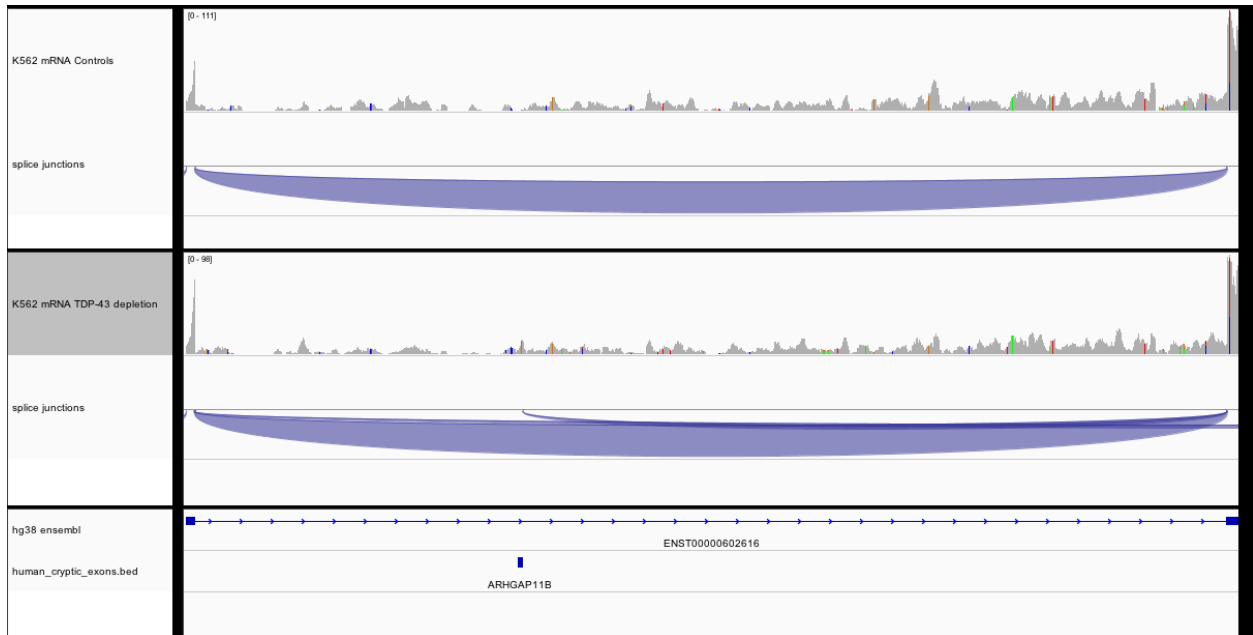


Human K562 total RNA

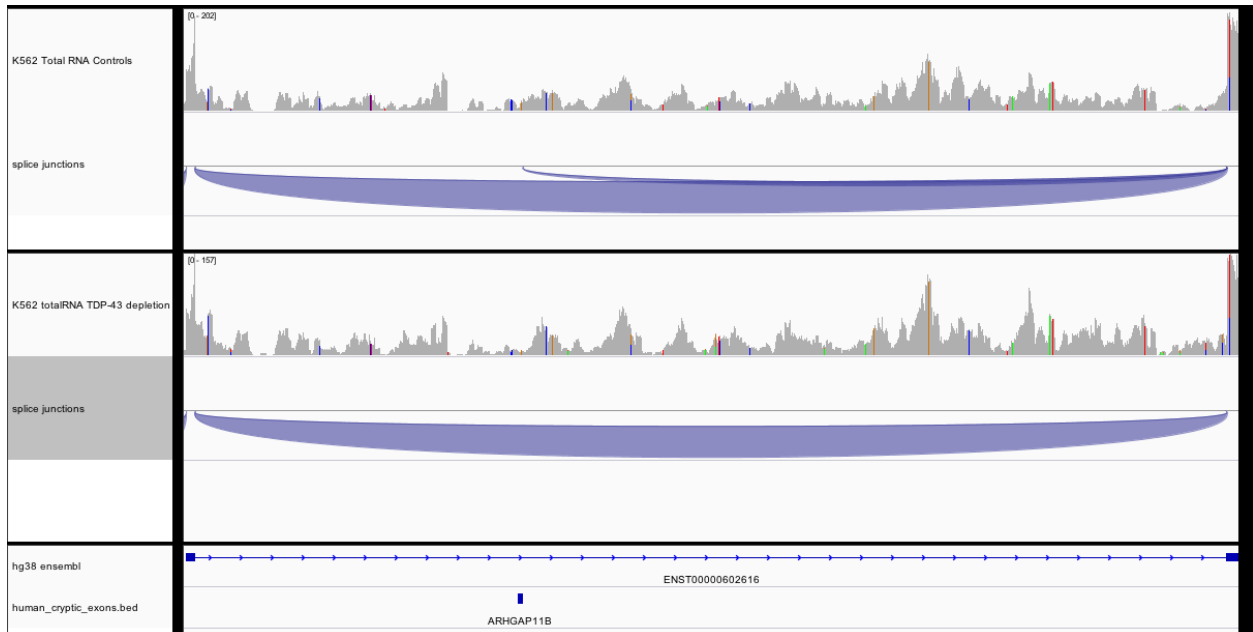


44 ARHGAP11B E033i1

Human K562 mRNA



Human K562 total RNA

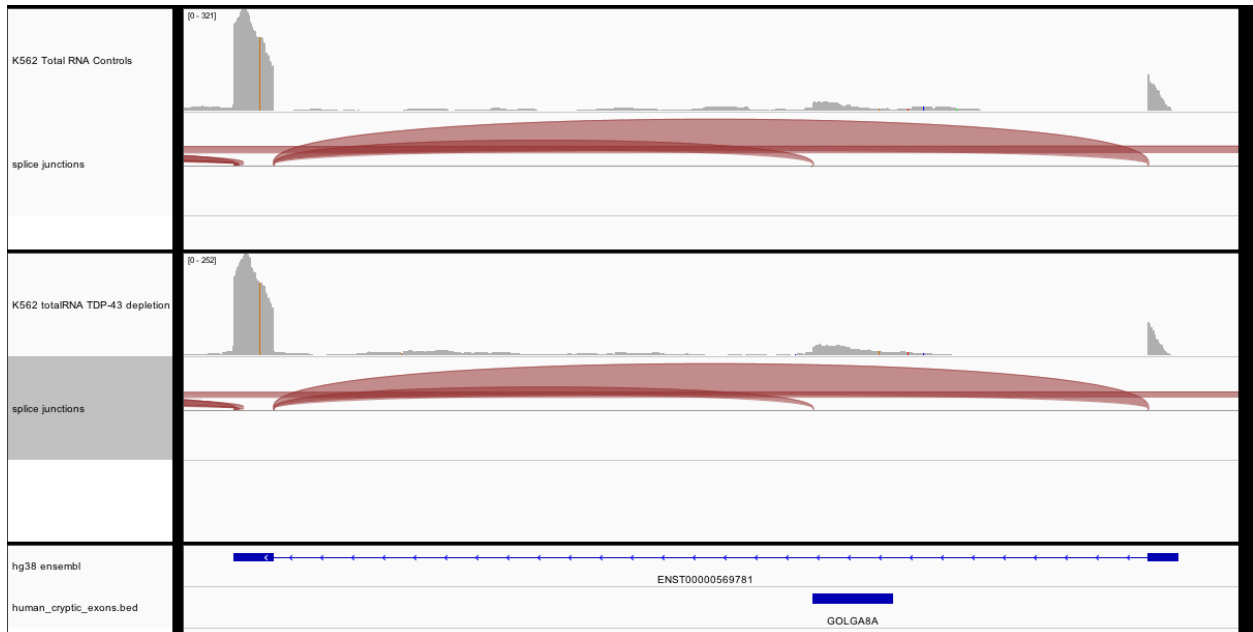


45 GOLGA8A E037i1

Human K562 mRNA

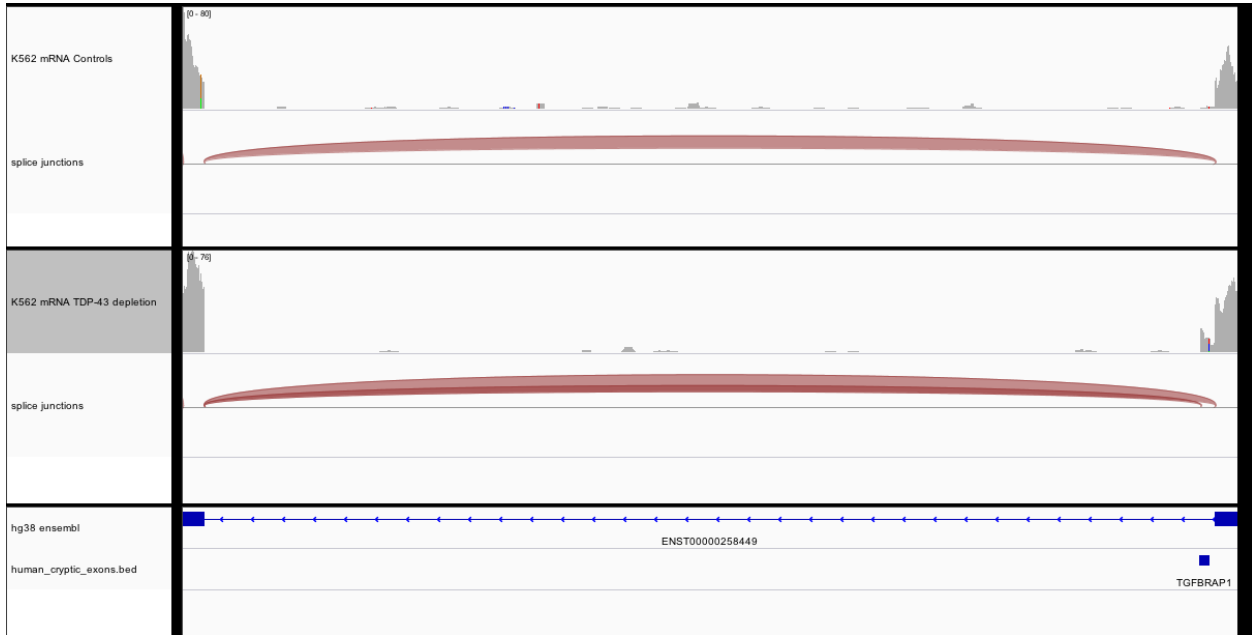


Human K562 total RNA

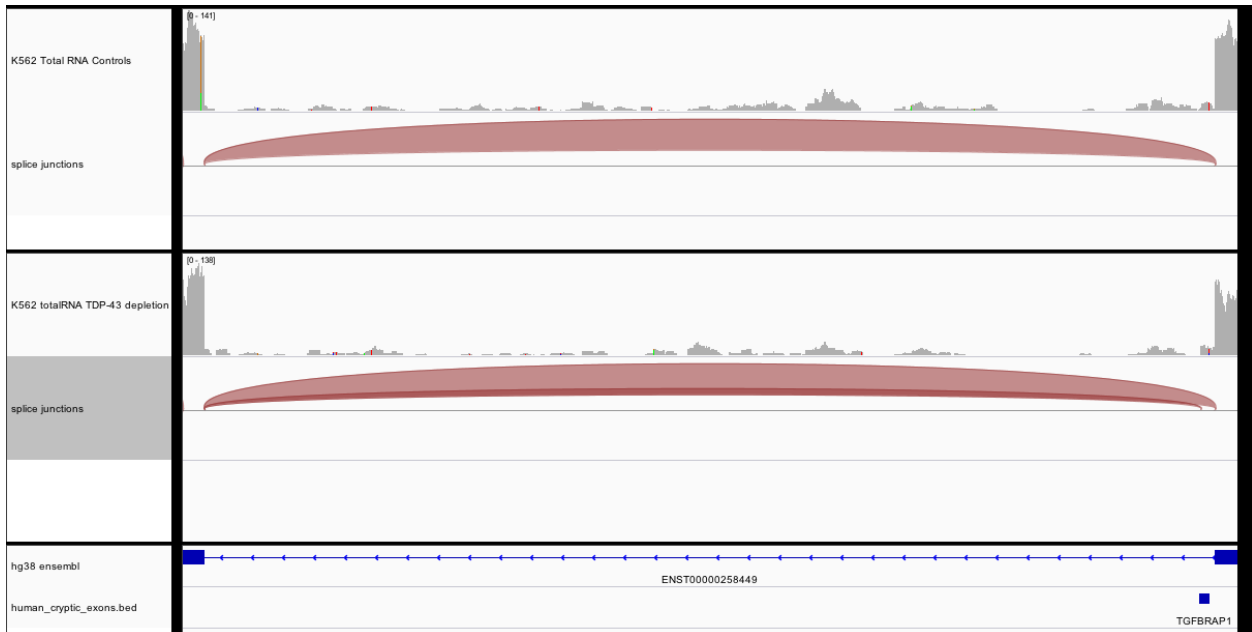


46 TGFBRAP1 E014i2

Human K562 mRNA

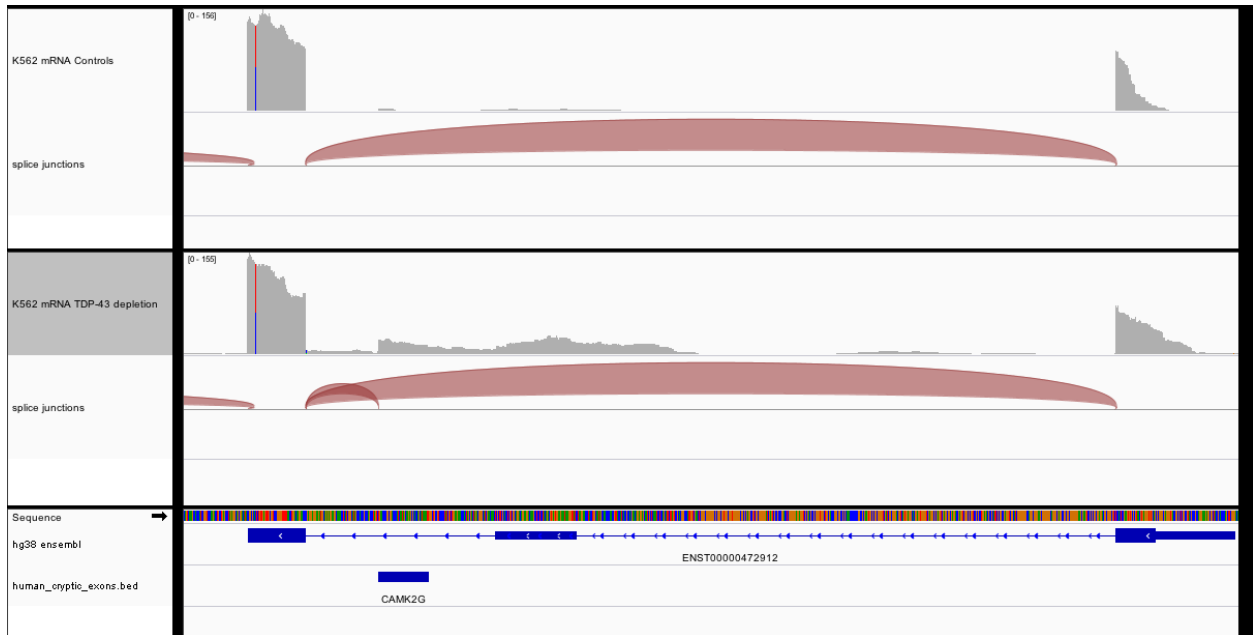


Human K562 total RNA

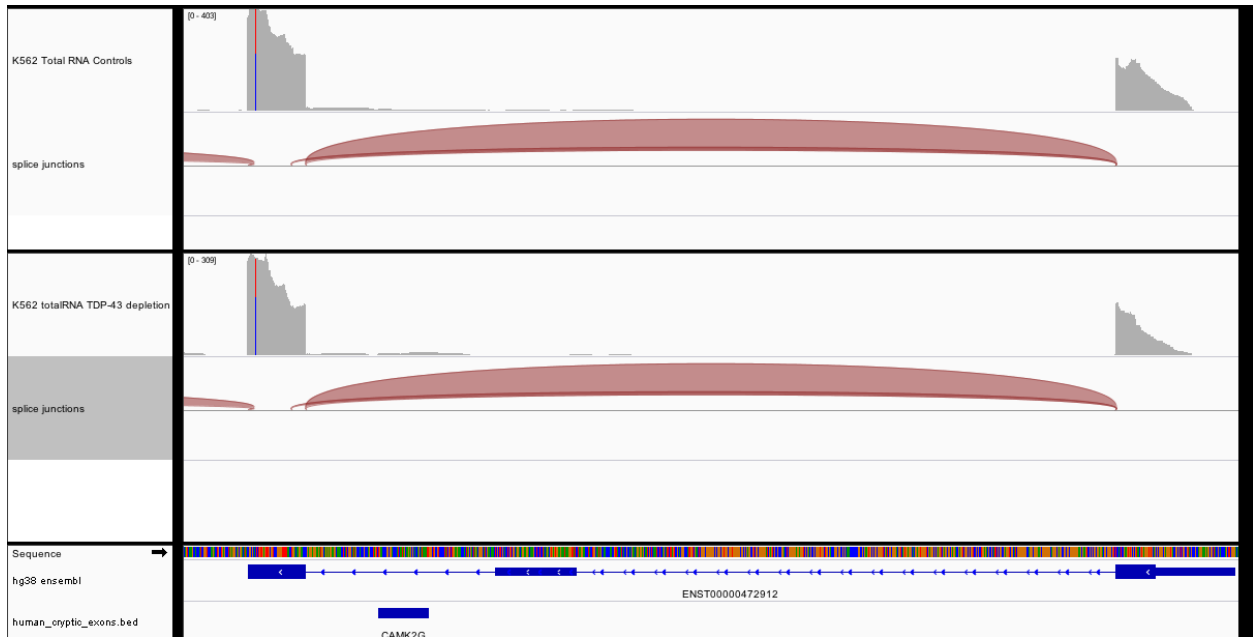


47 CAMK2G E039i1

Human K562 mRNA

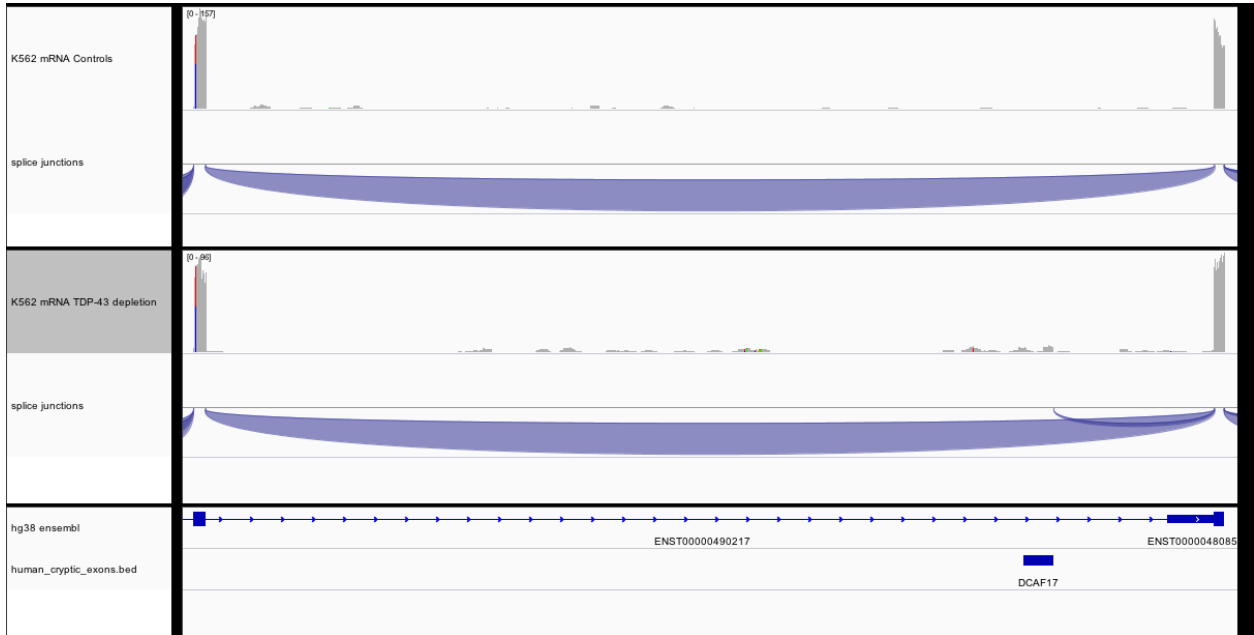


Human K562 total RNA

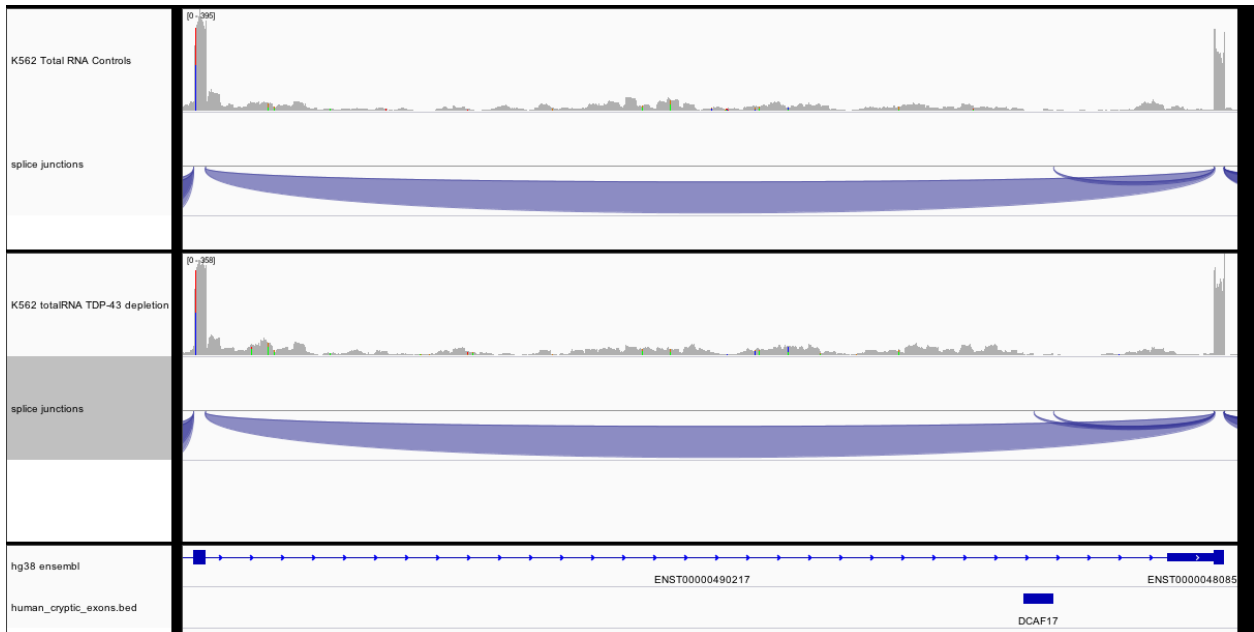


48 DCAF17 E008i1

Human K562 mRNA



Human K562 total RNA

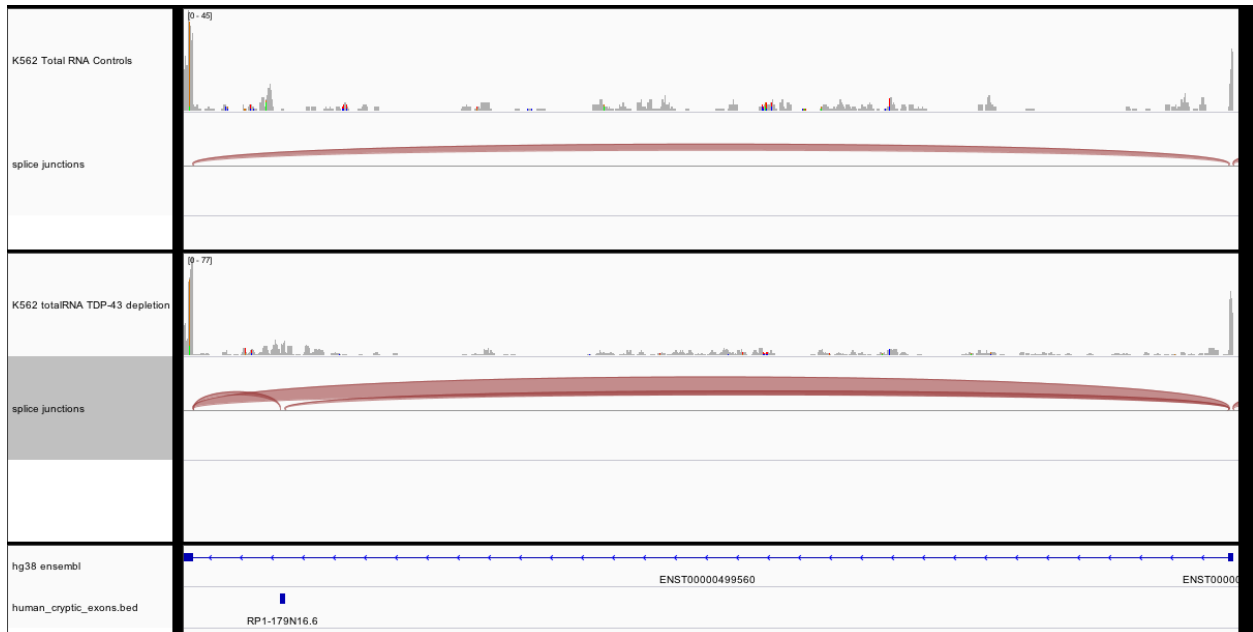


49 RP1-179N16-6 E002i2

Human K562 mRNA

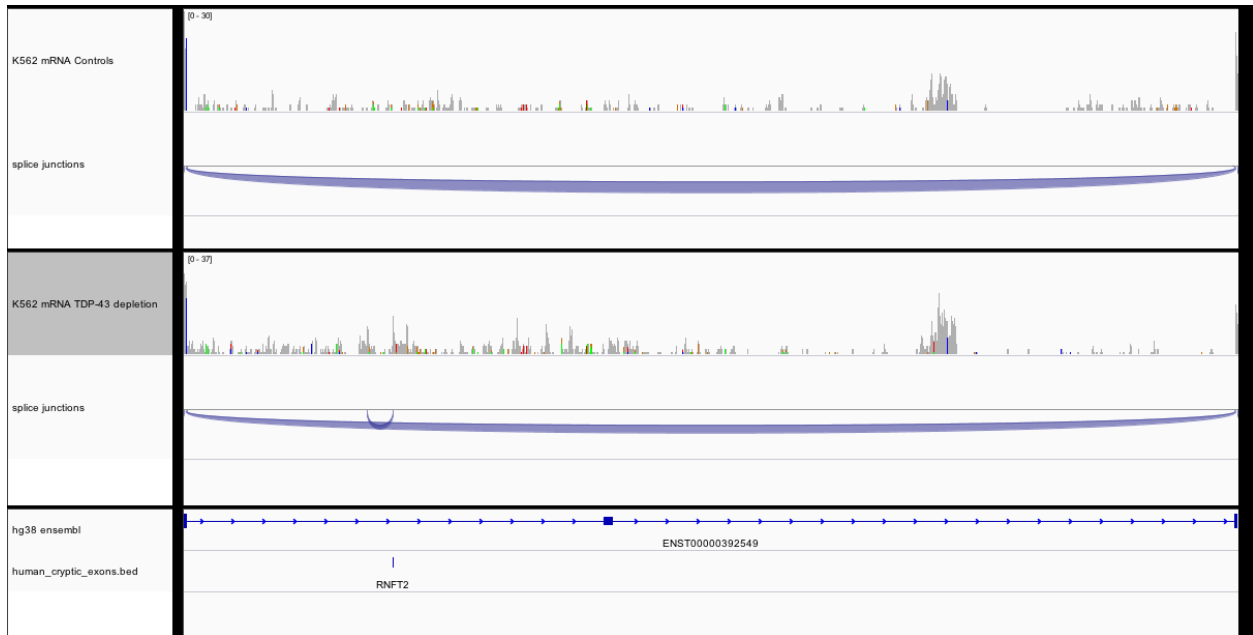


Human K562 total RNA

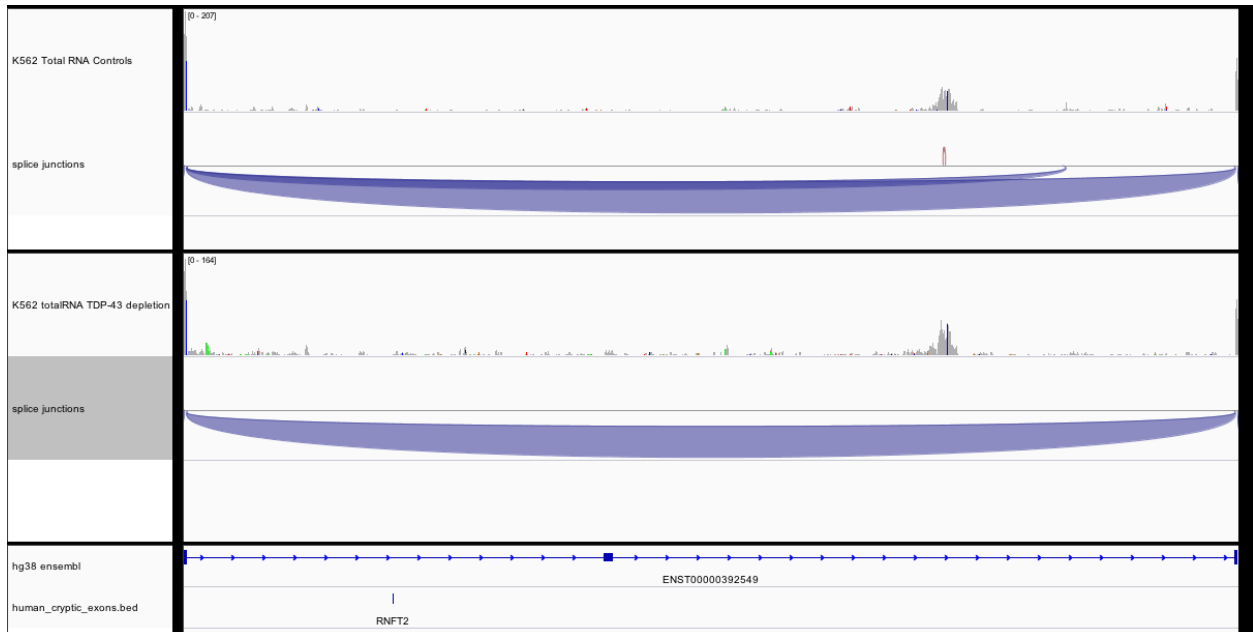


50 RNFT2 E016i2

Human K562 mRNA

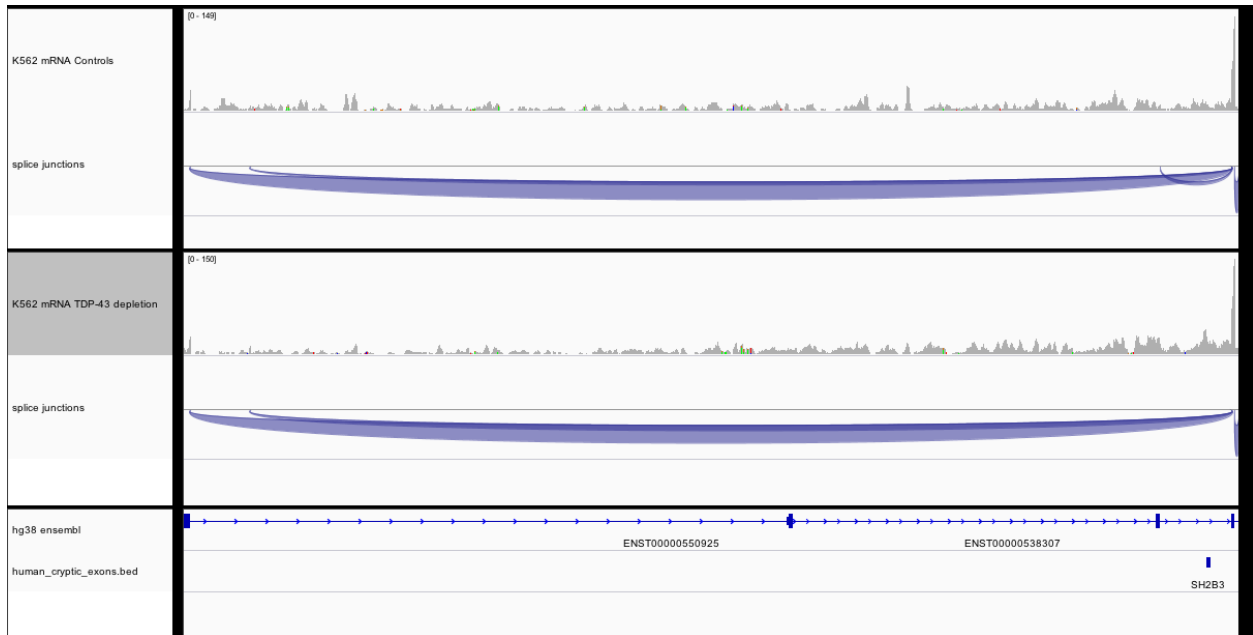


Human K562 total RNA

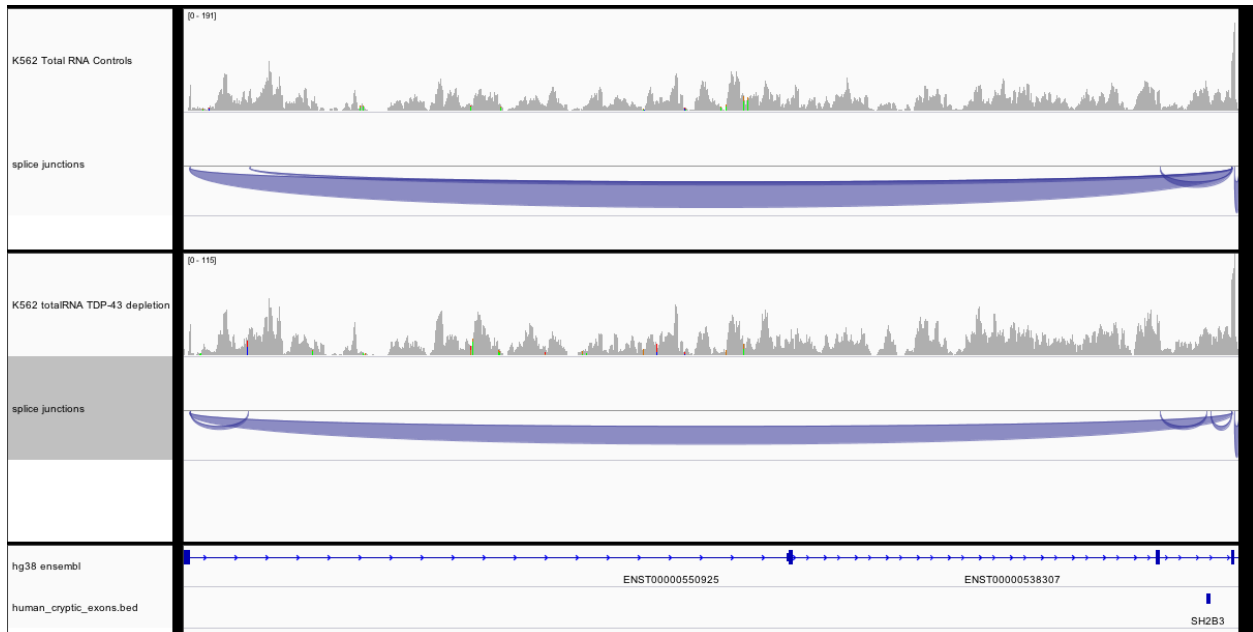


51 SH2B3 E005i1

Human K562 mRNA

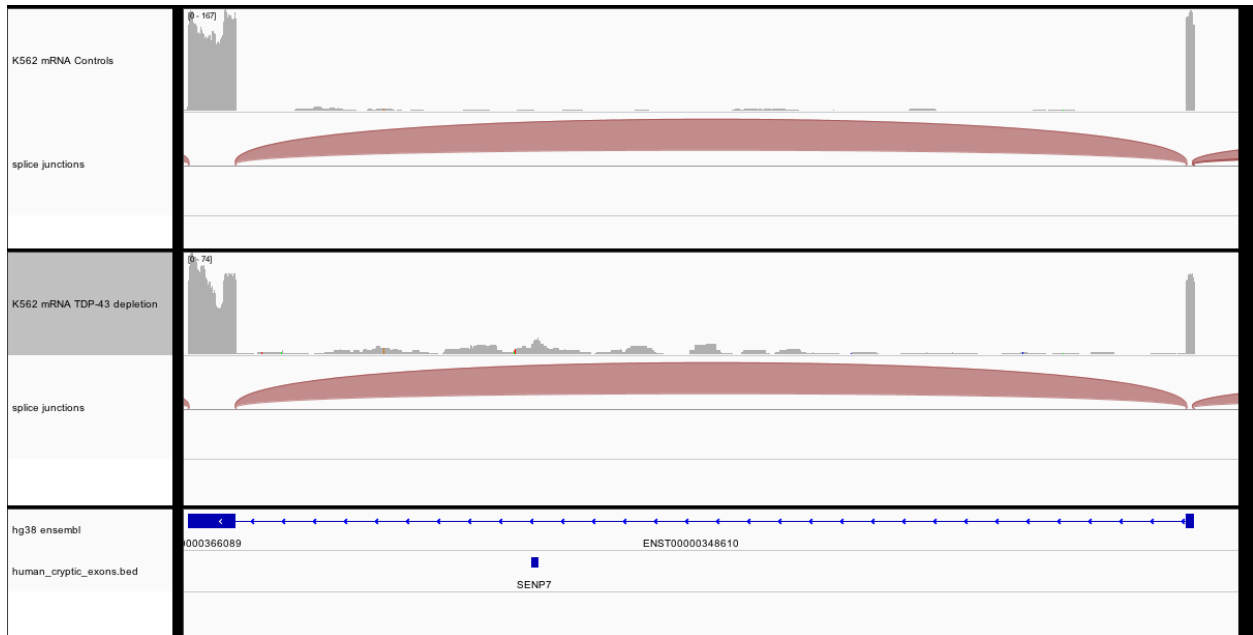


Human K562 total RNA

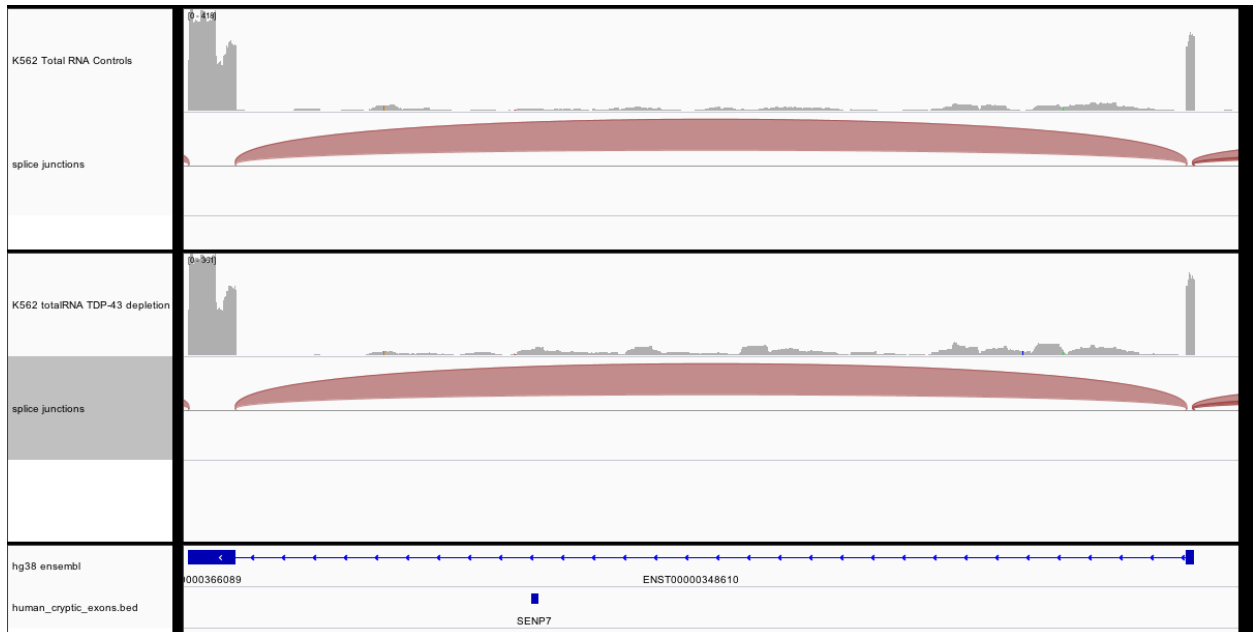


52 SENP7 E020i1

Human K562 mRNA



Human K562 total RNA

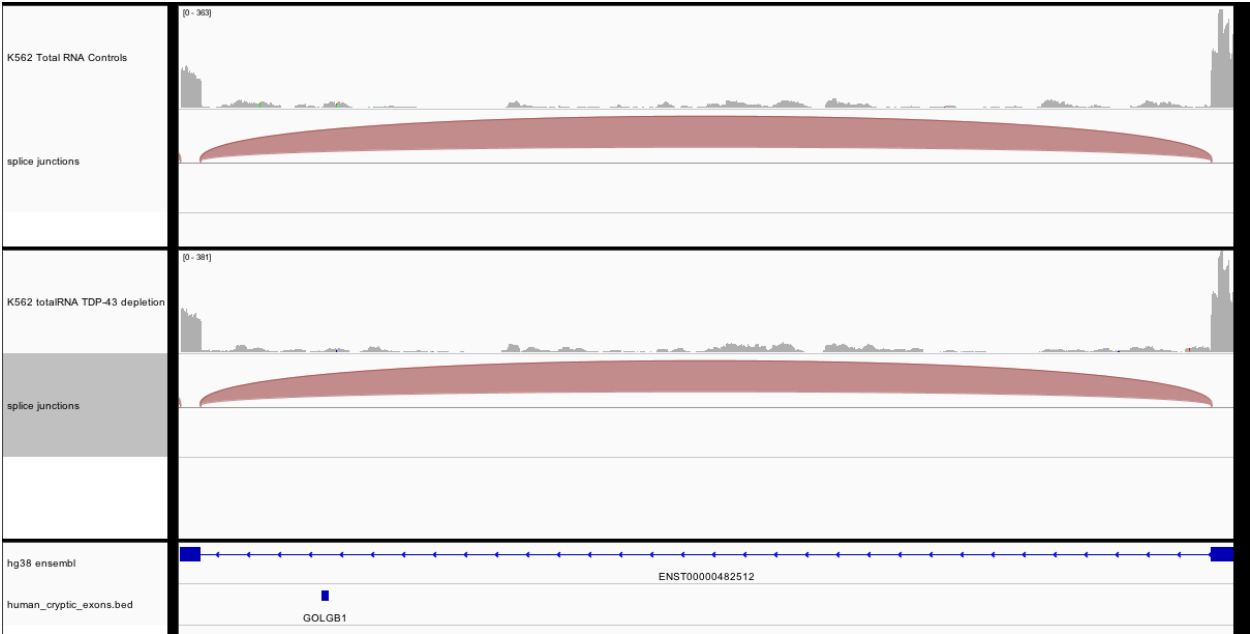


53 GOLGB1 E013i1

Human K562 mRNA

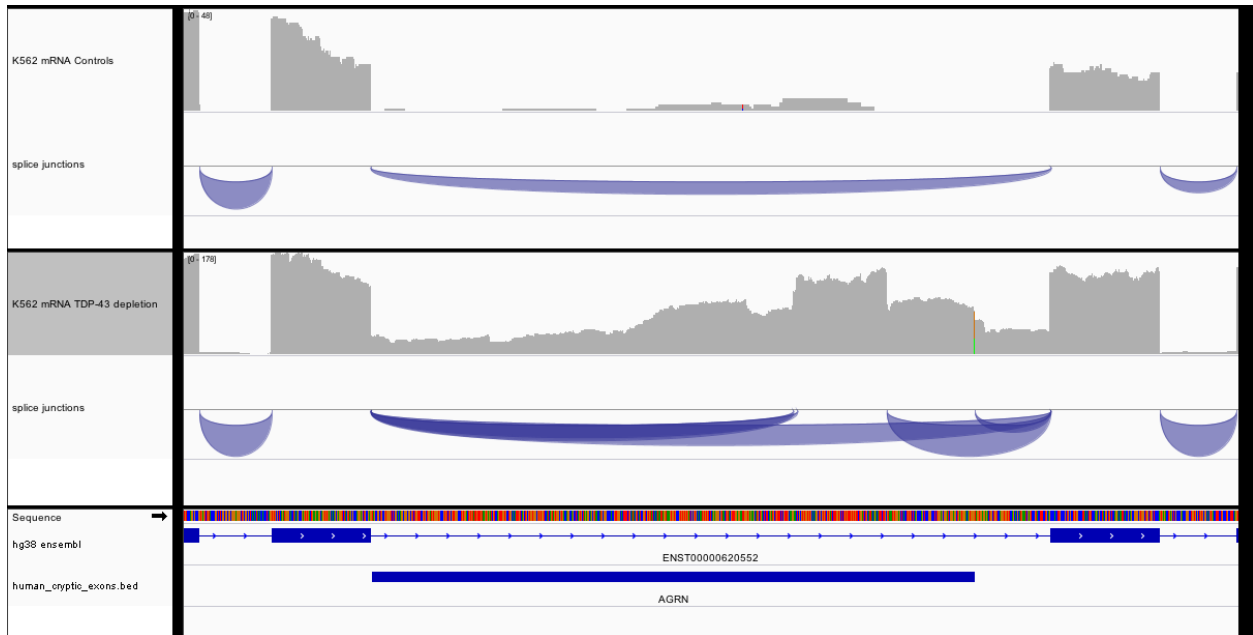


Human K562 total RNA

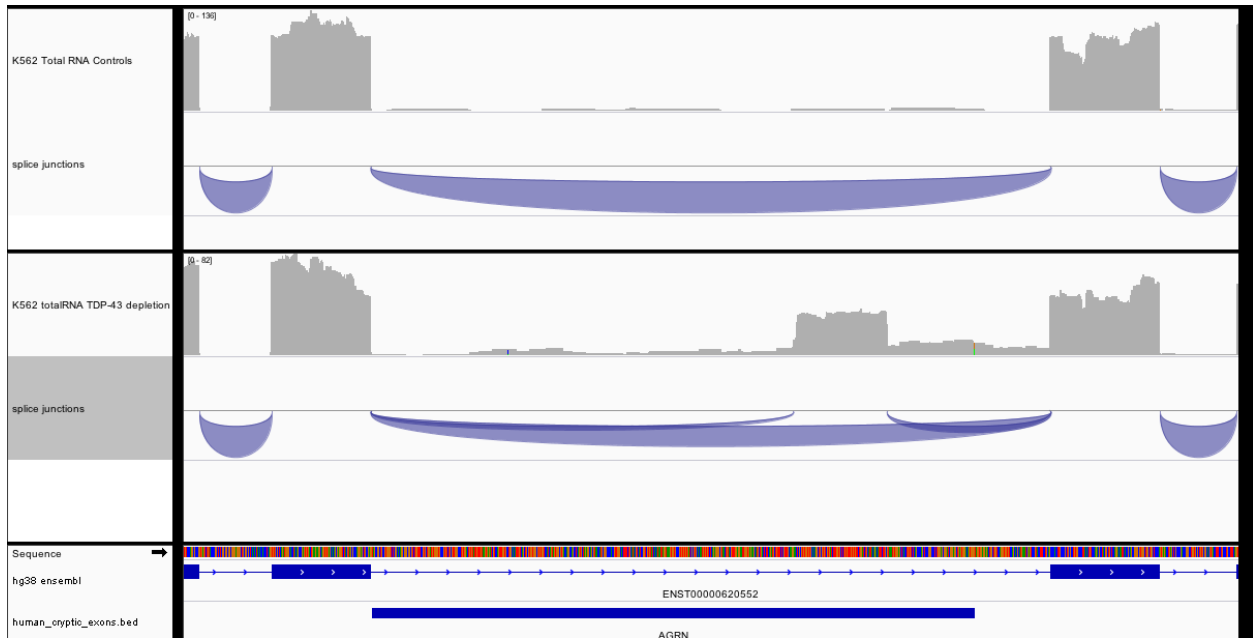


54 AGRN E015i1

Human K562 mRNA

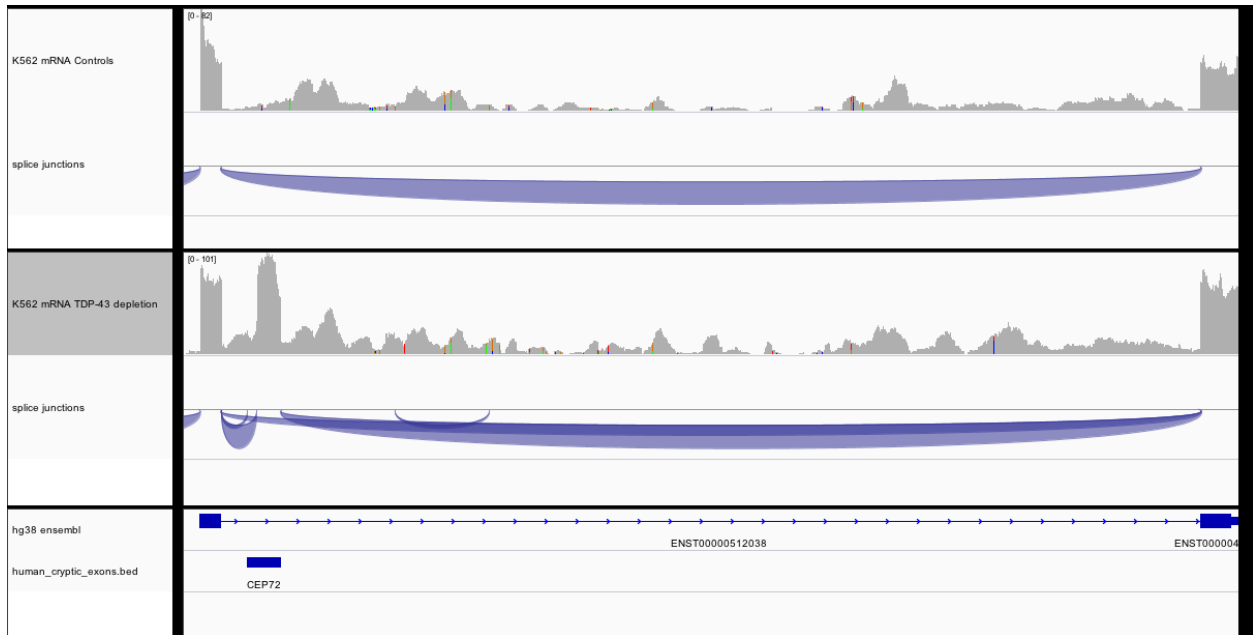


Human K562 total RNA

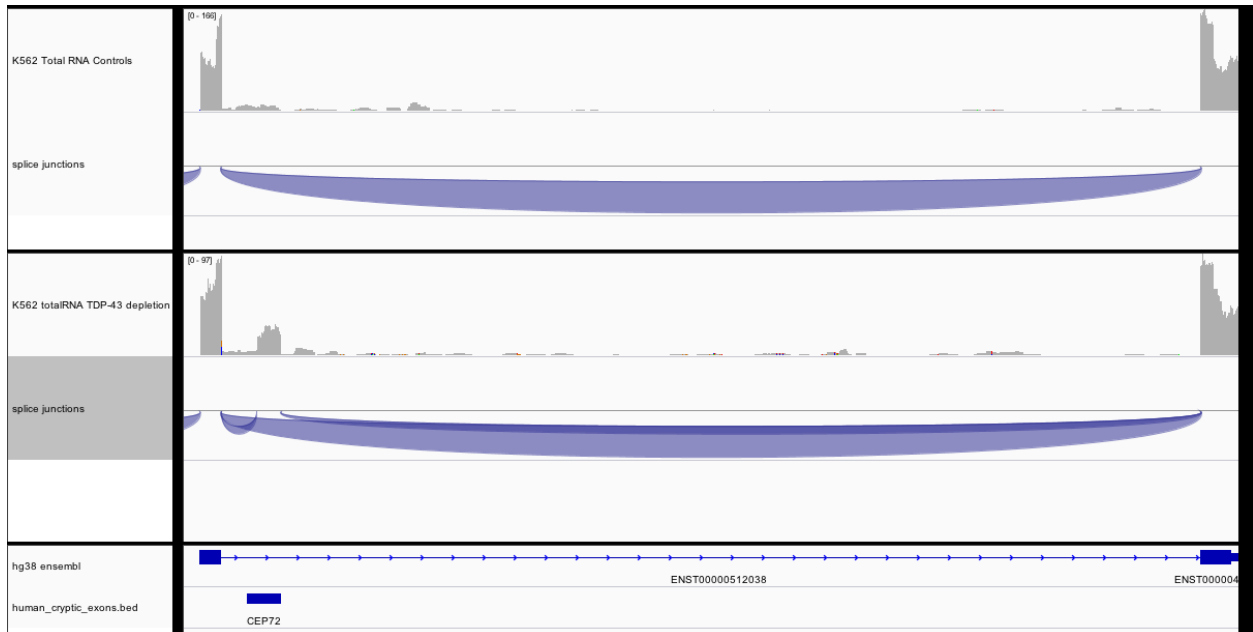


55 CEP72 E012i1

Human K562 mRNA

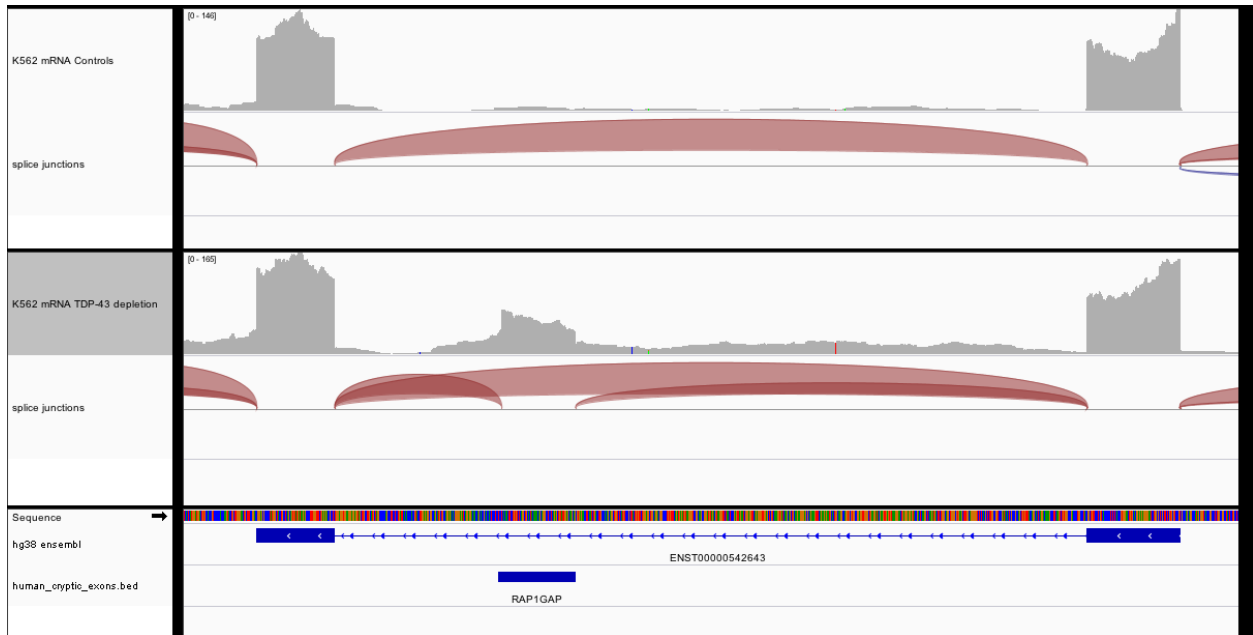


Human K562 total RNA

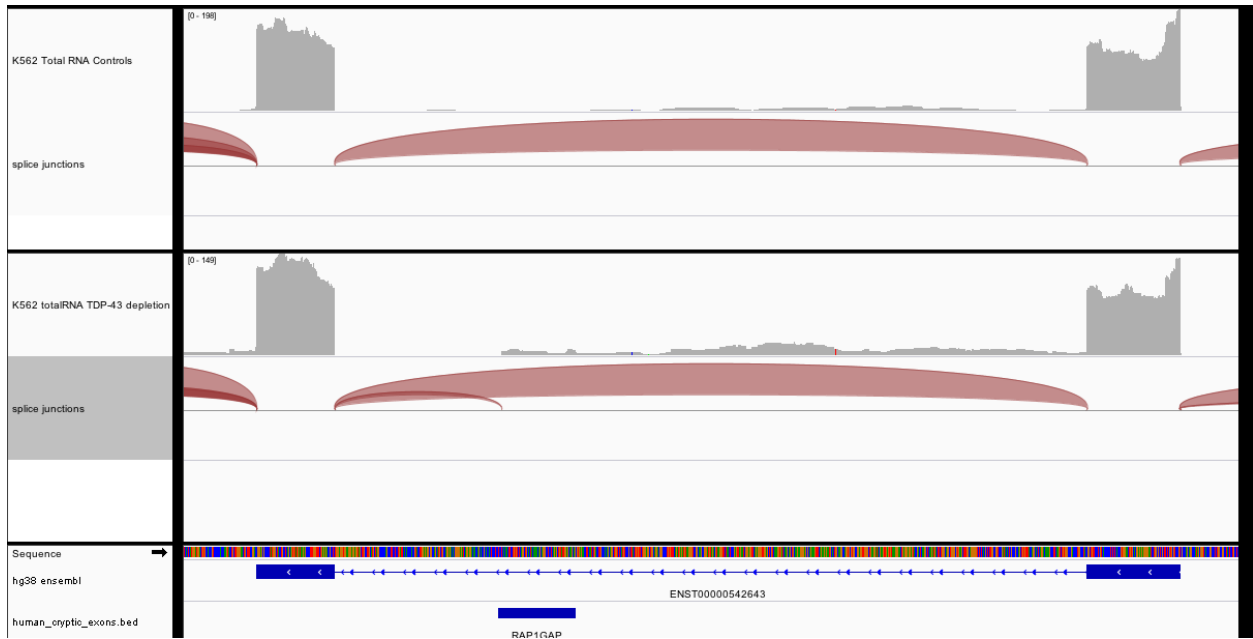


56 RAP1GAP E010i1

Human K562 mRNA

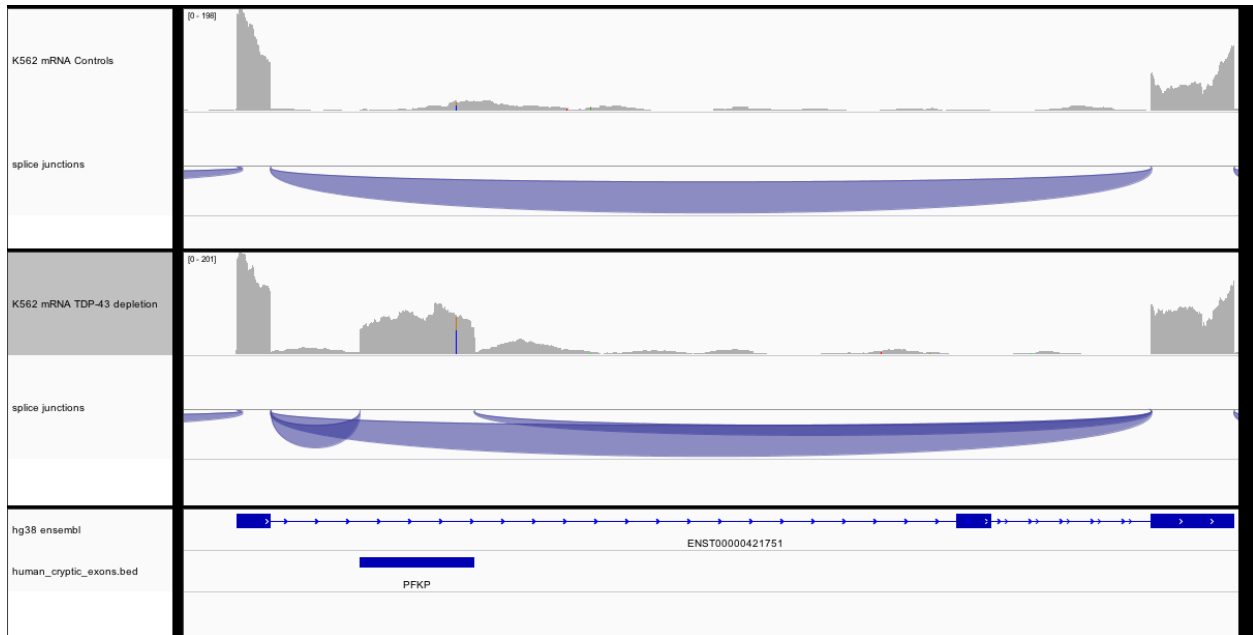


Human K562 total RNA

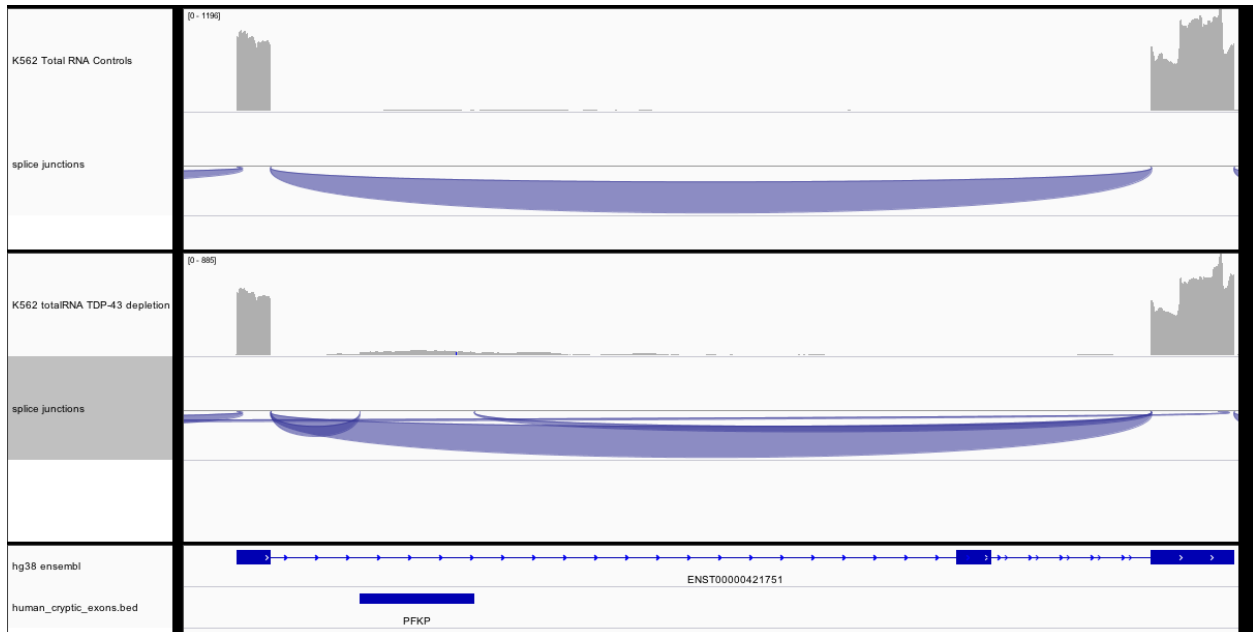


57 PFKP E010i1

Human K562 mRNA

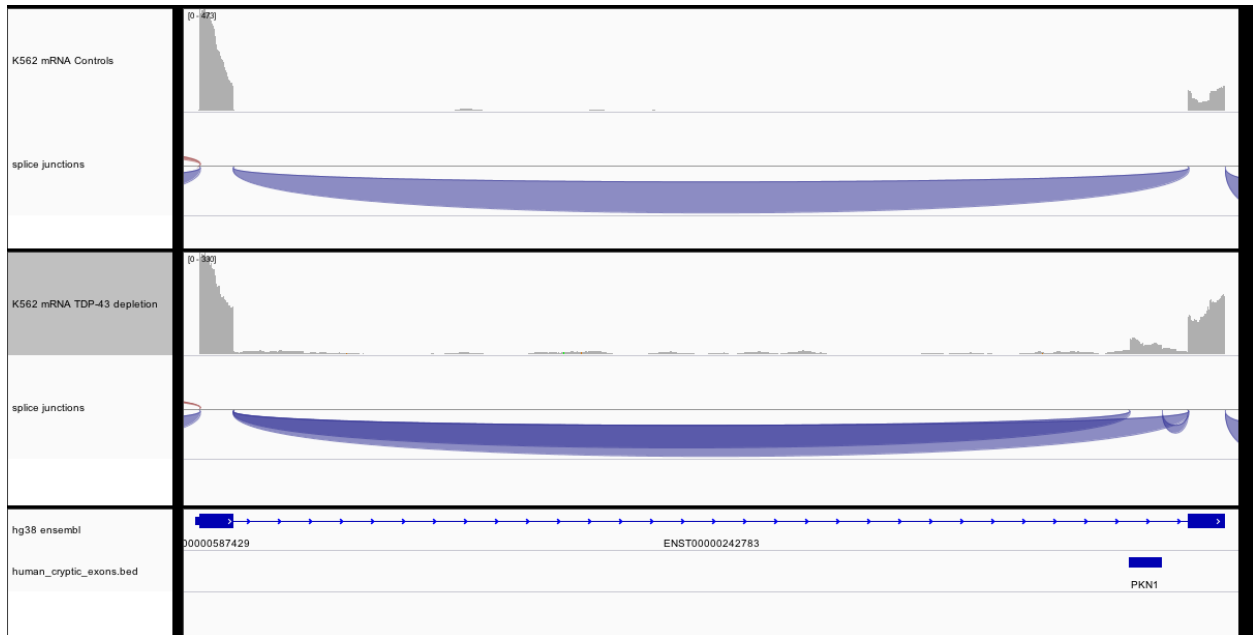


Human K562 total RNA

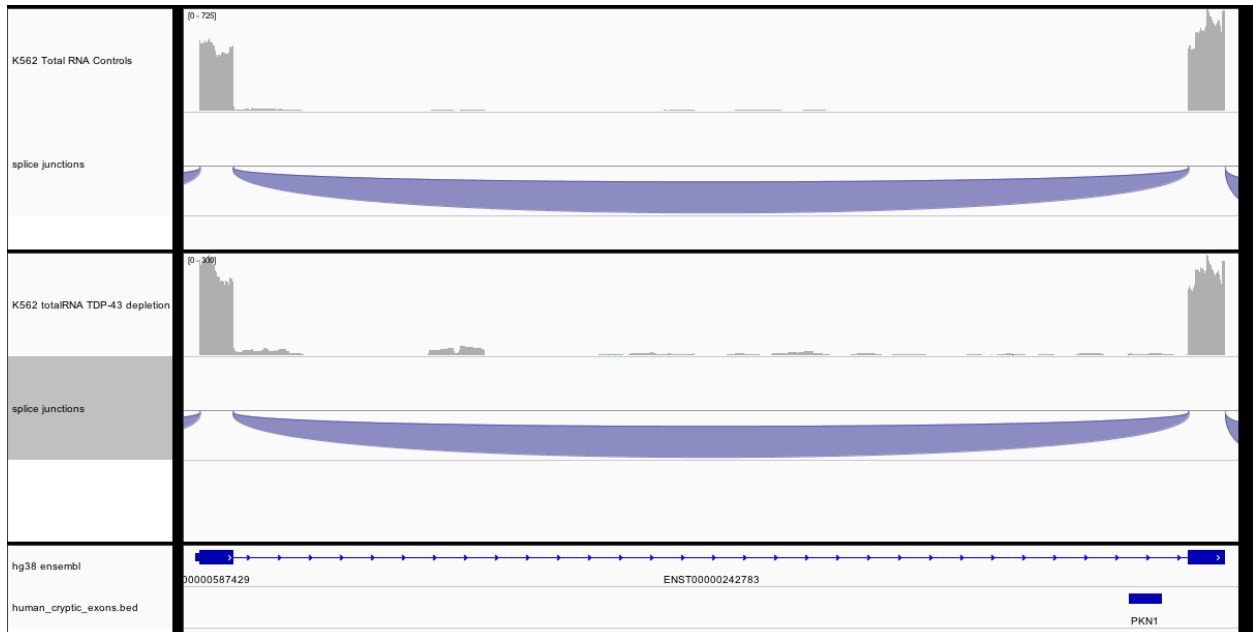


58 PKN1 E016i2

Human K562 mRNA

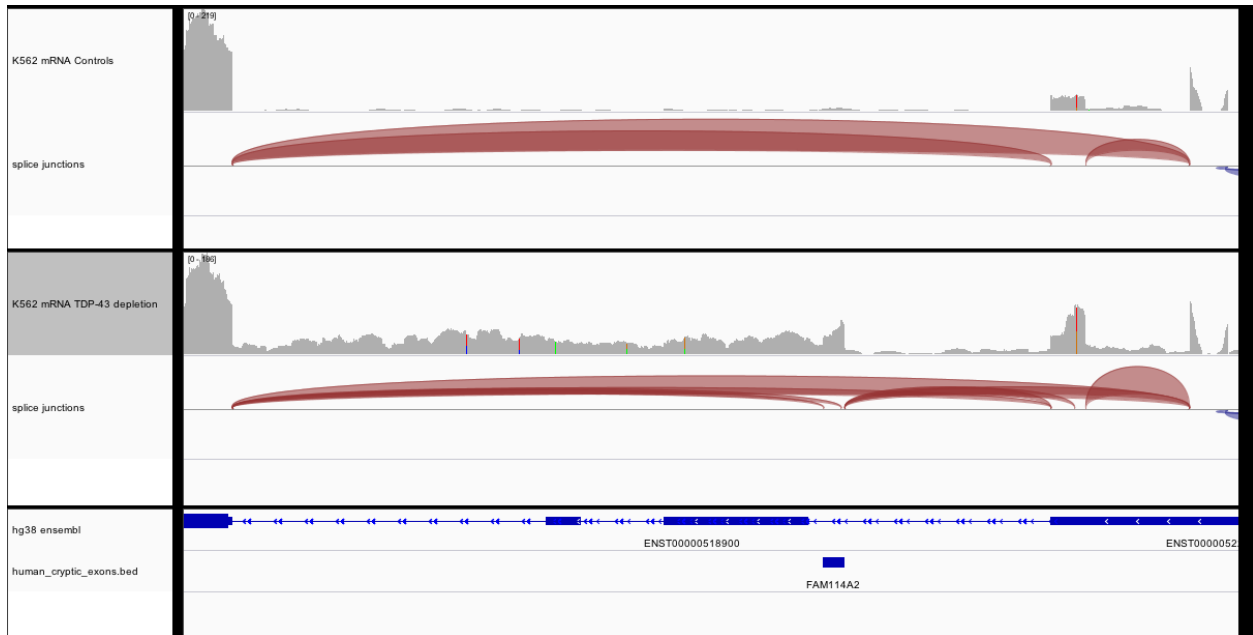


Human K562 total RNA

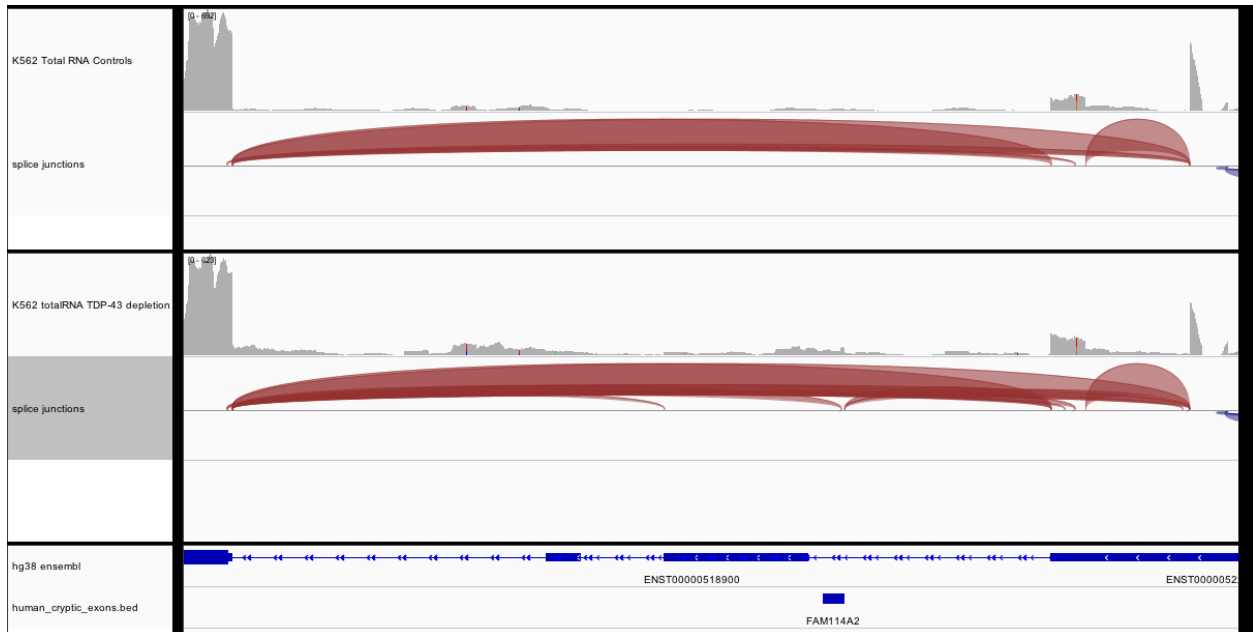


59 FAM114A2 E040i1

Human K562 mRNA

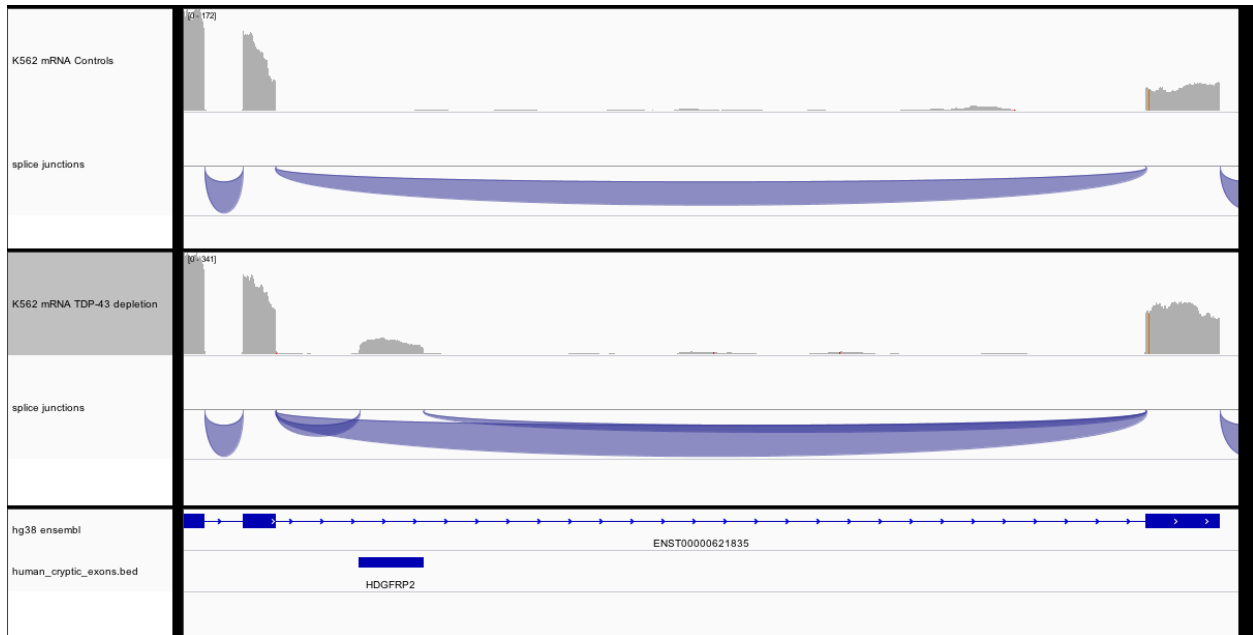


Human K562 total RNA

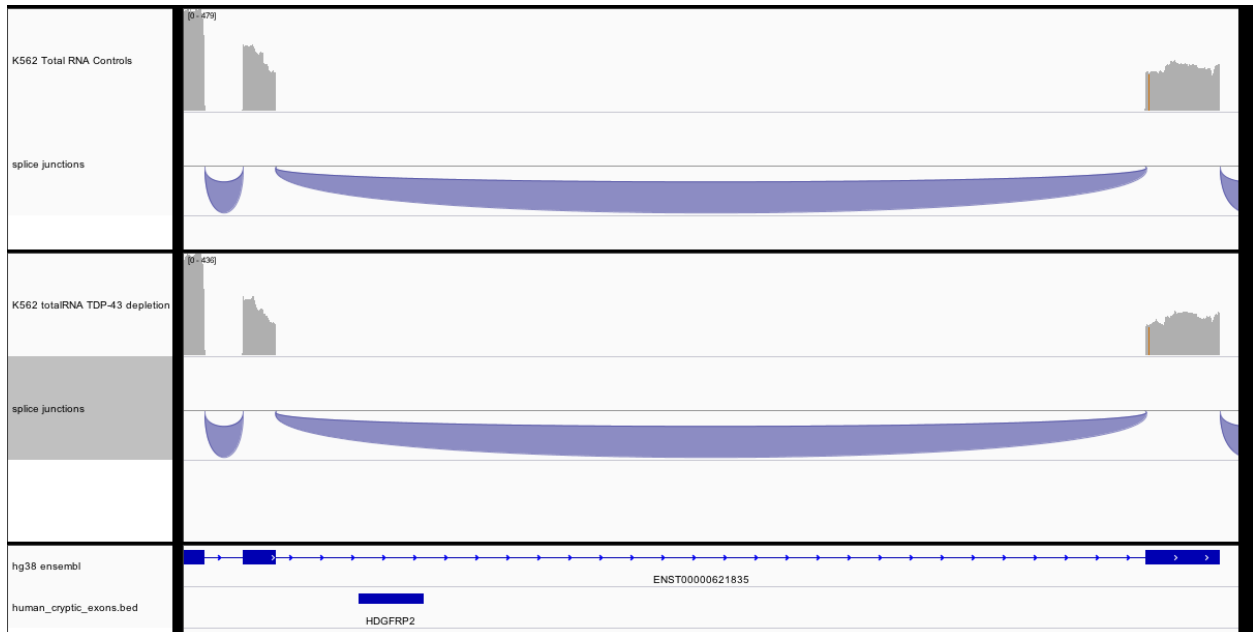


60 HDGFRP2 E015i1

Human K562 mRNA

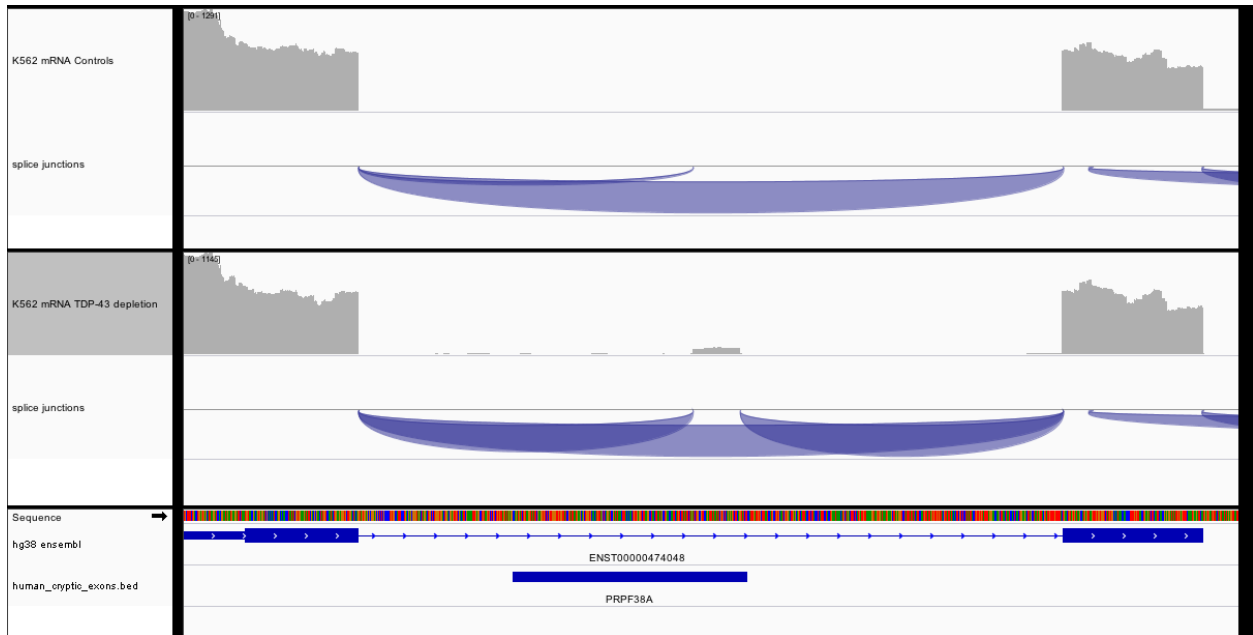


Human K562 total RNA

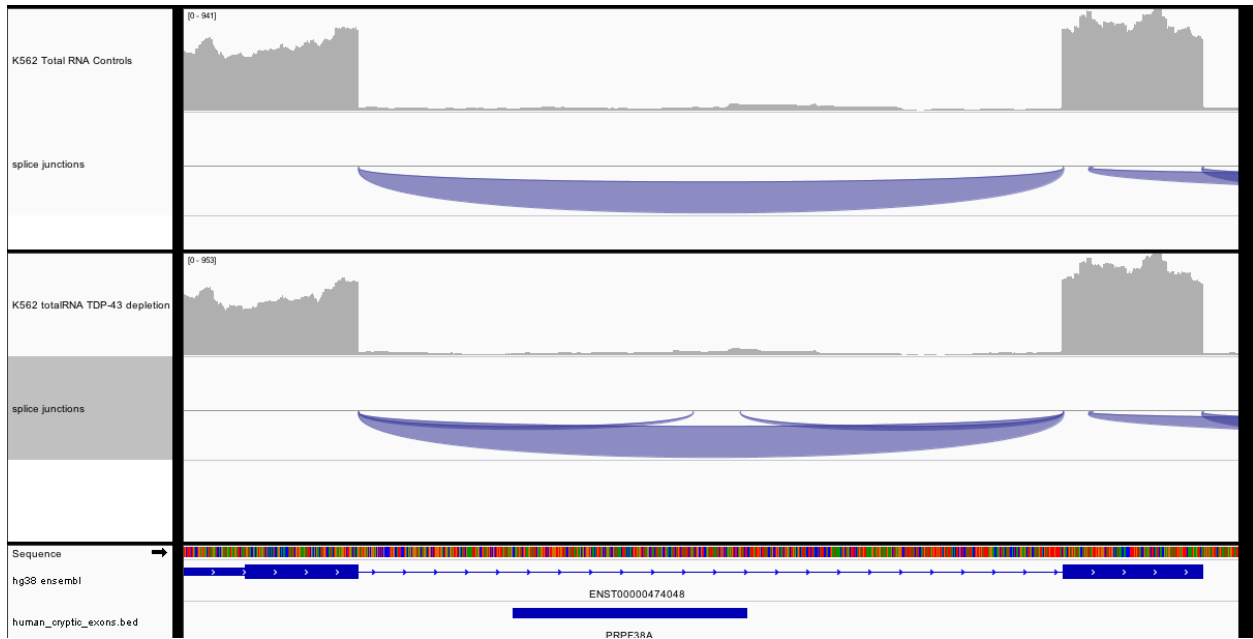


61 PRPF38A E003i1

Human K562 mRNA

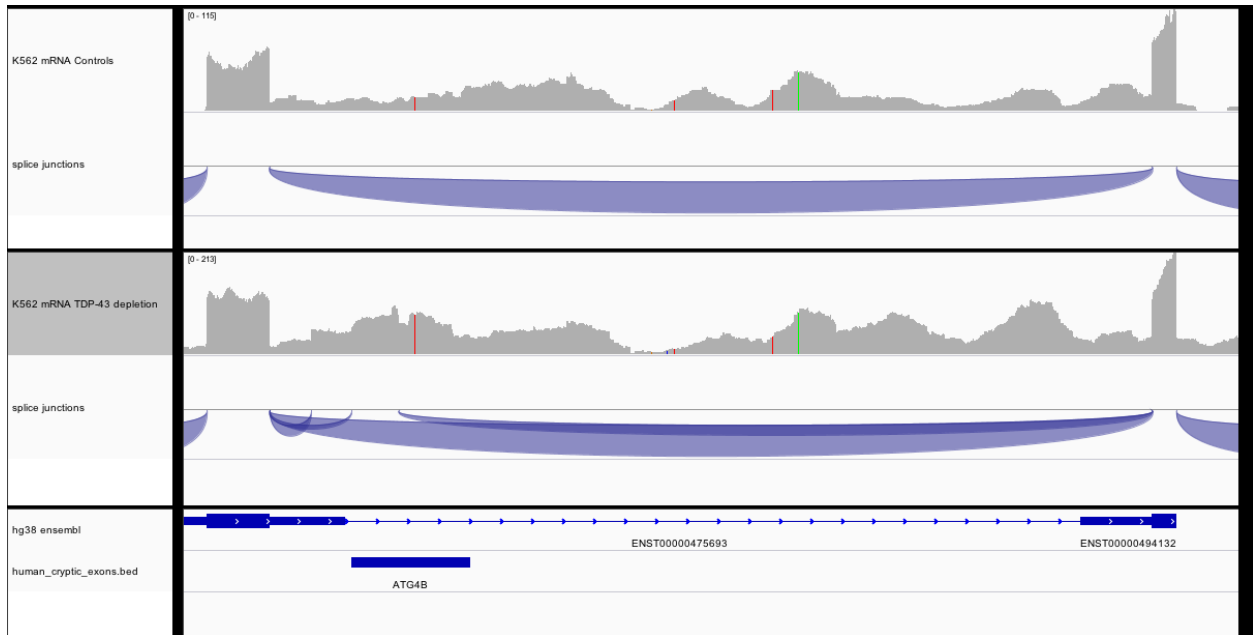


Human K562 total RNA

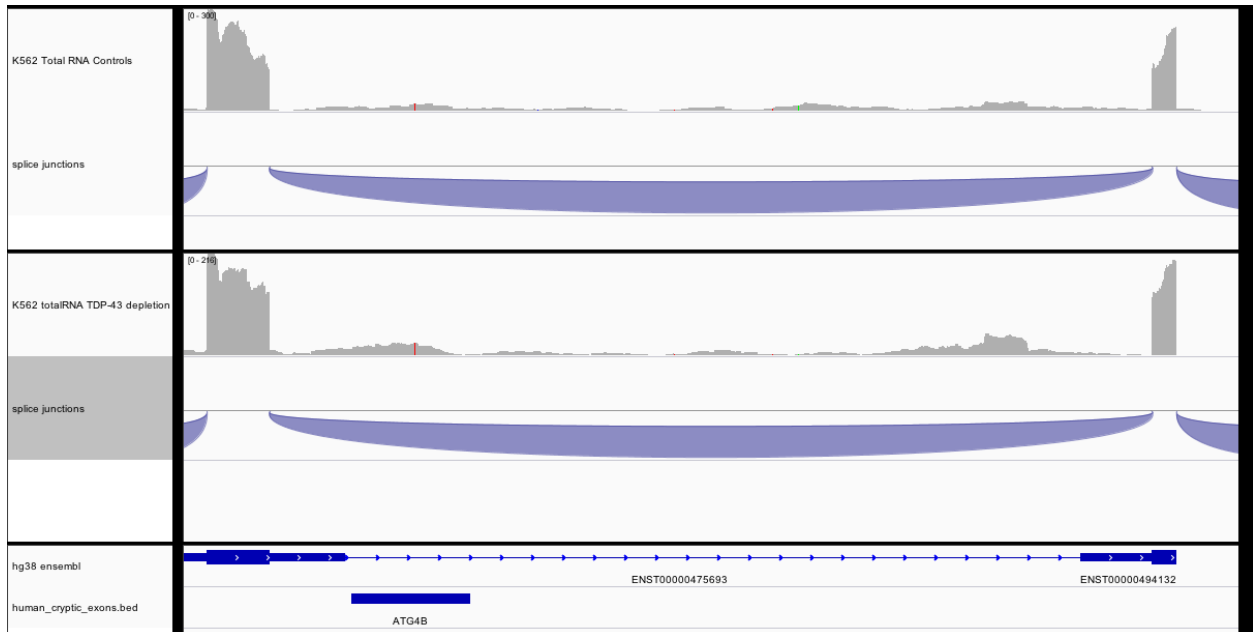


62 ATG4B E047i1

Human K562 mRNA



Human K562 total RNA

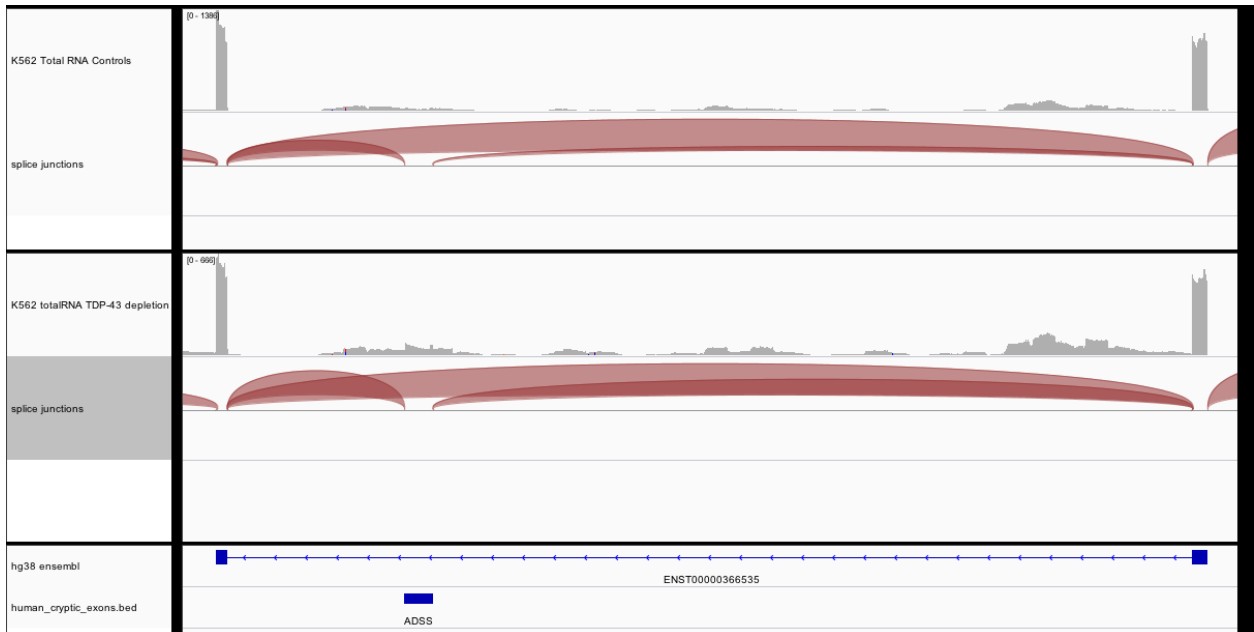


63 ADSS E020i1

Human K562 mRNA

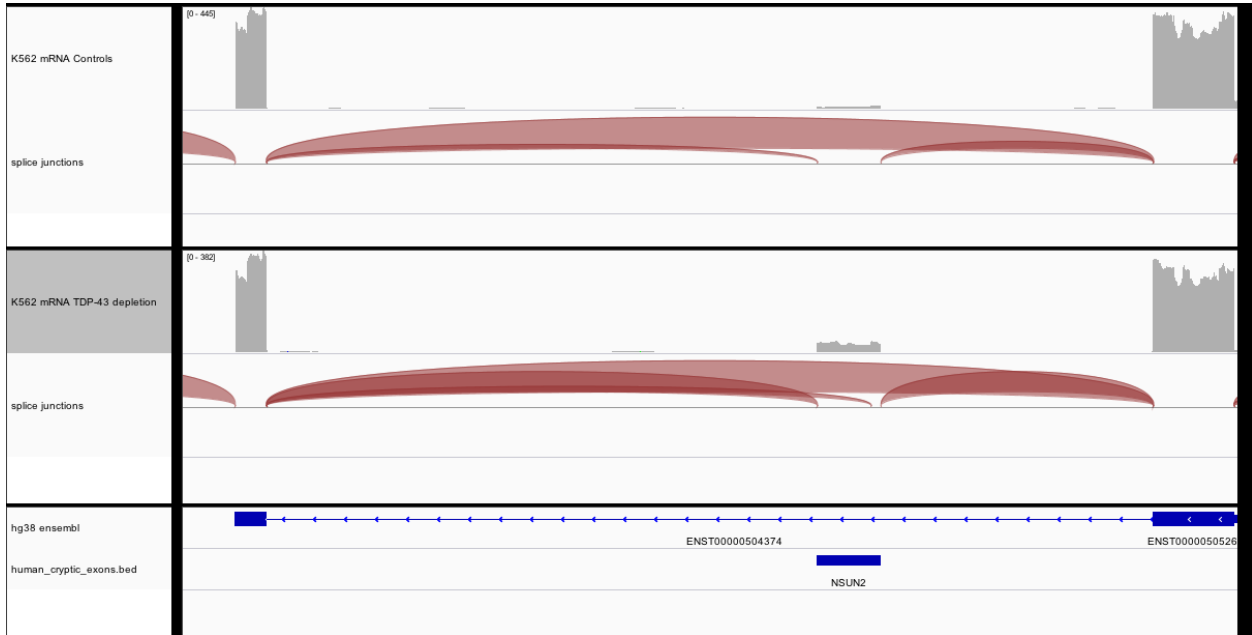


Human K562 total RNA

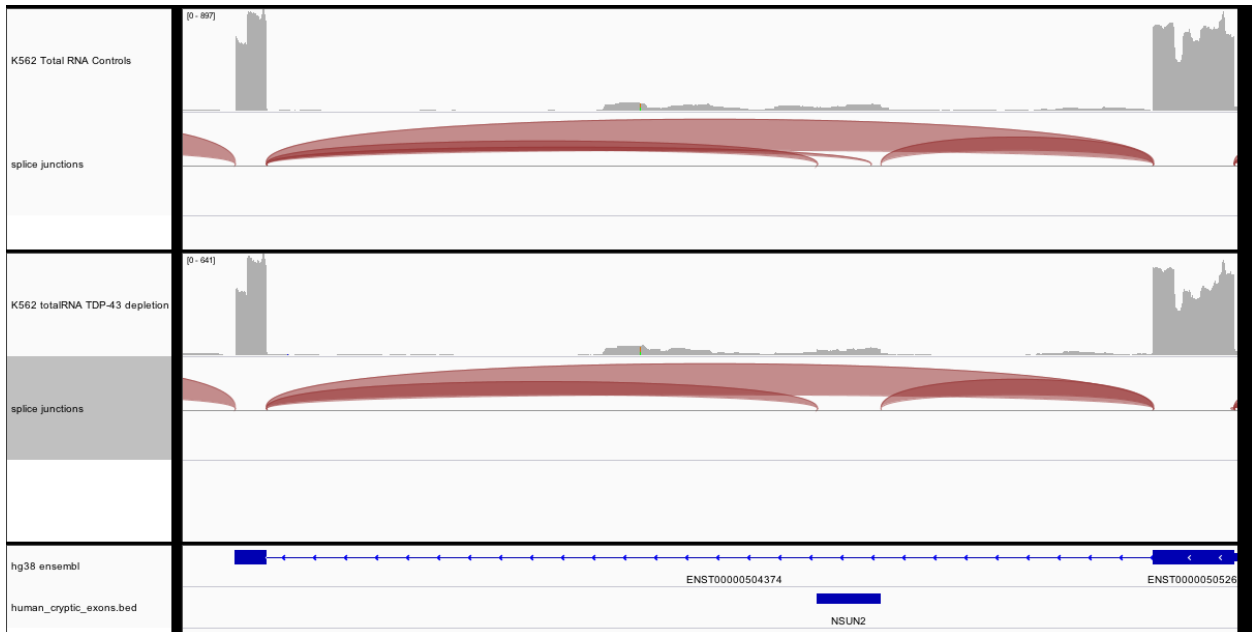


64 NSUN2 E024i1

Human K562 mRNA

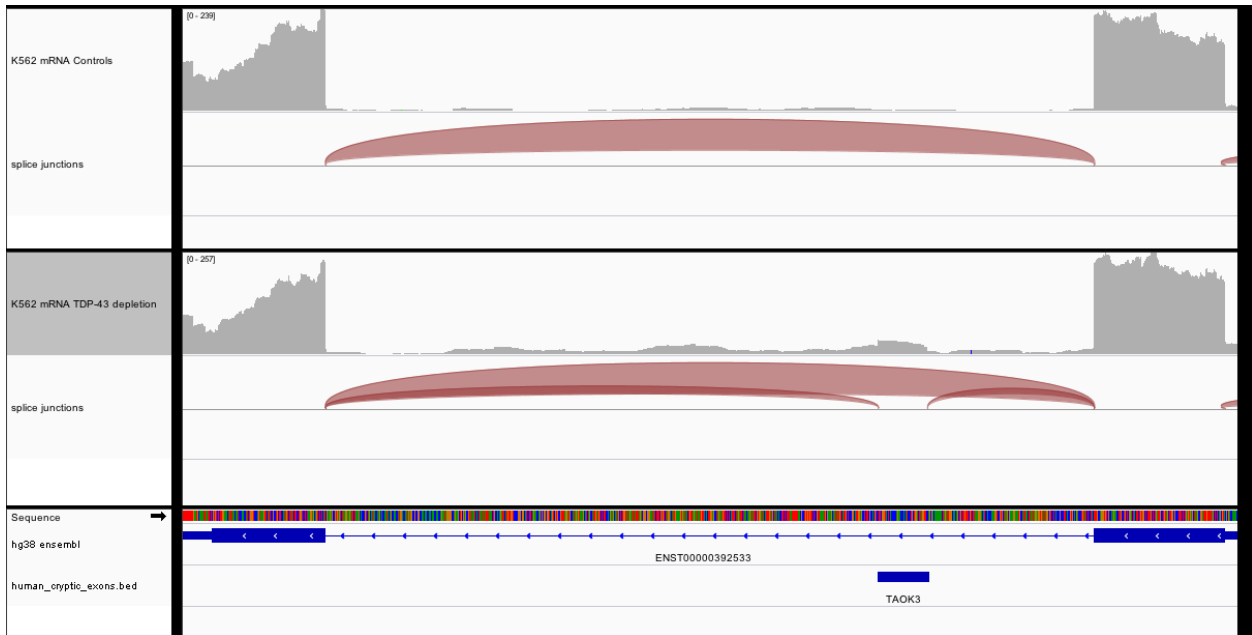


Human K562 total RNA

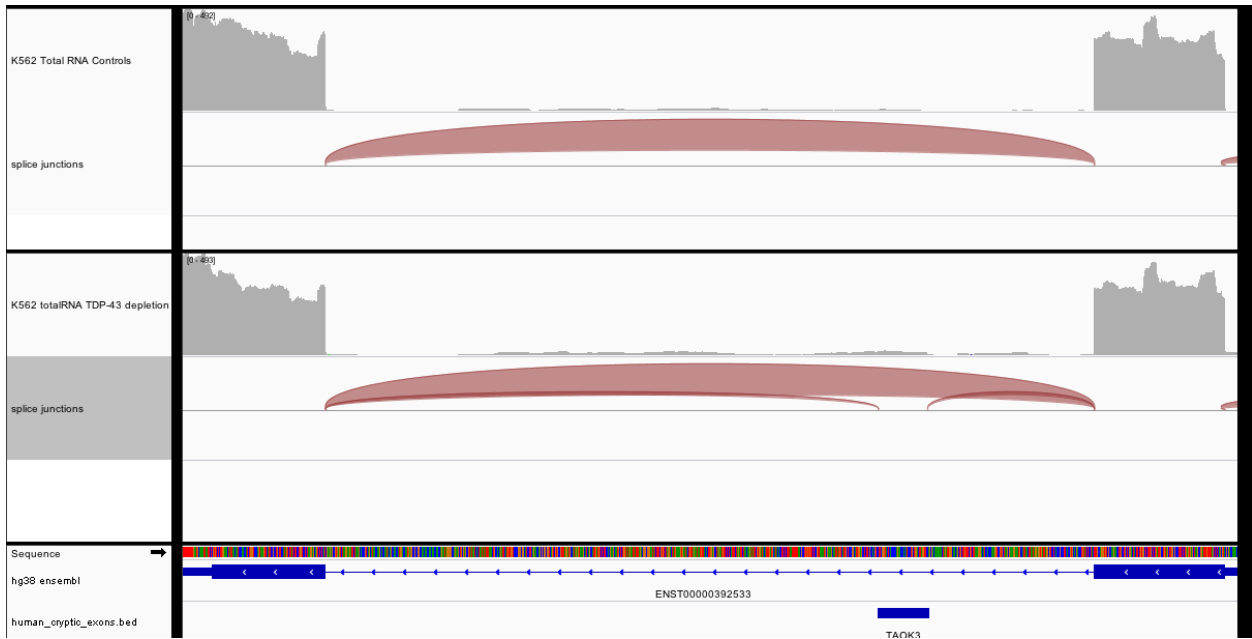


65 TAOK3 E007i1

Human K562 mRNA

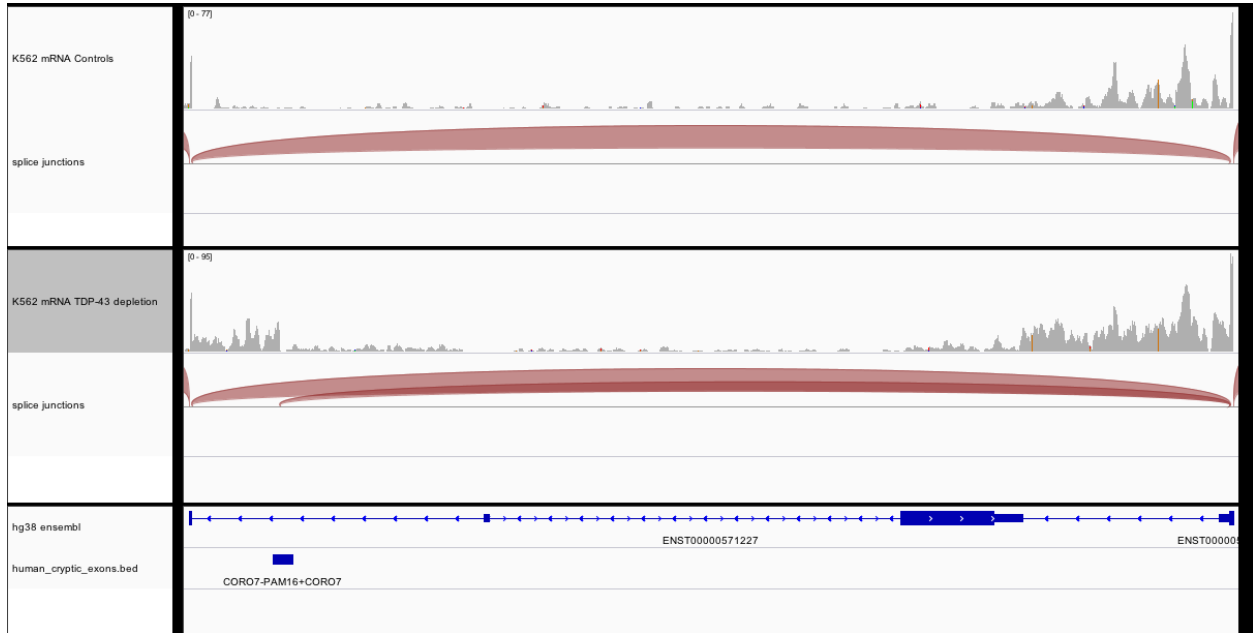


Human K562 total RNA

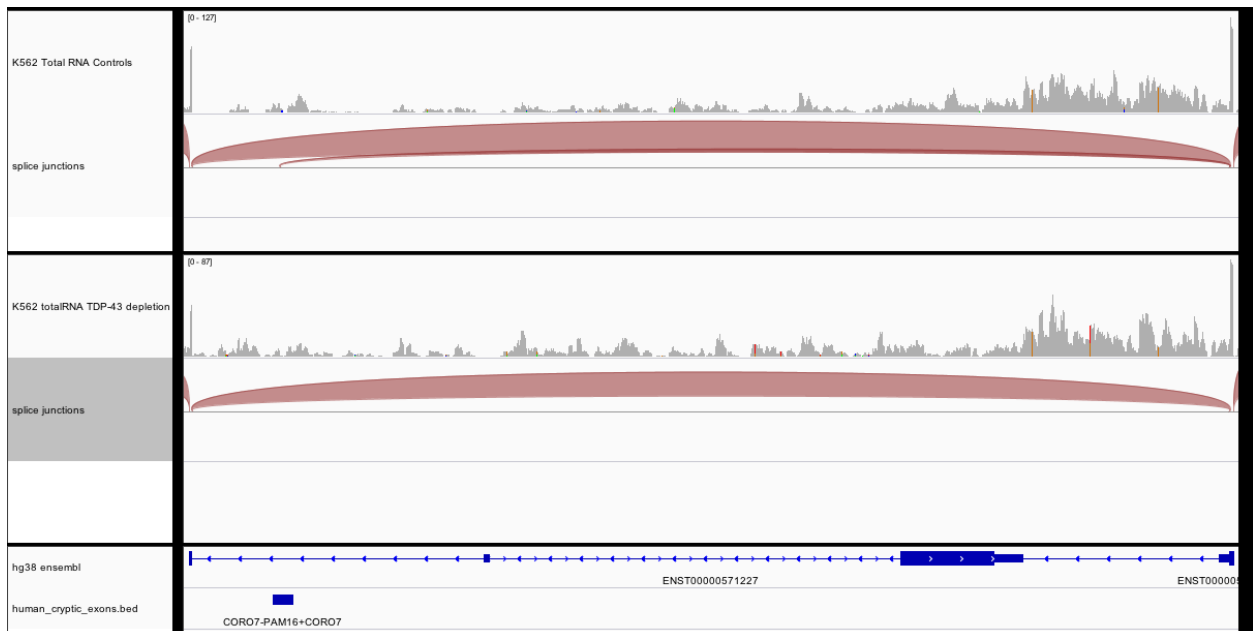


66 CORO7-PAM16+CORO7 E081i1

Human K562 mRNA

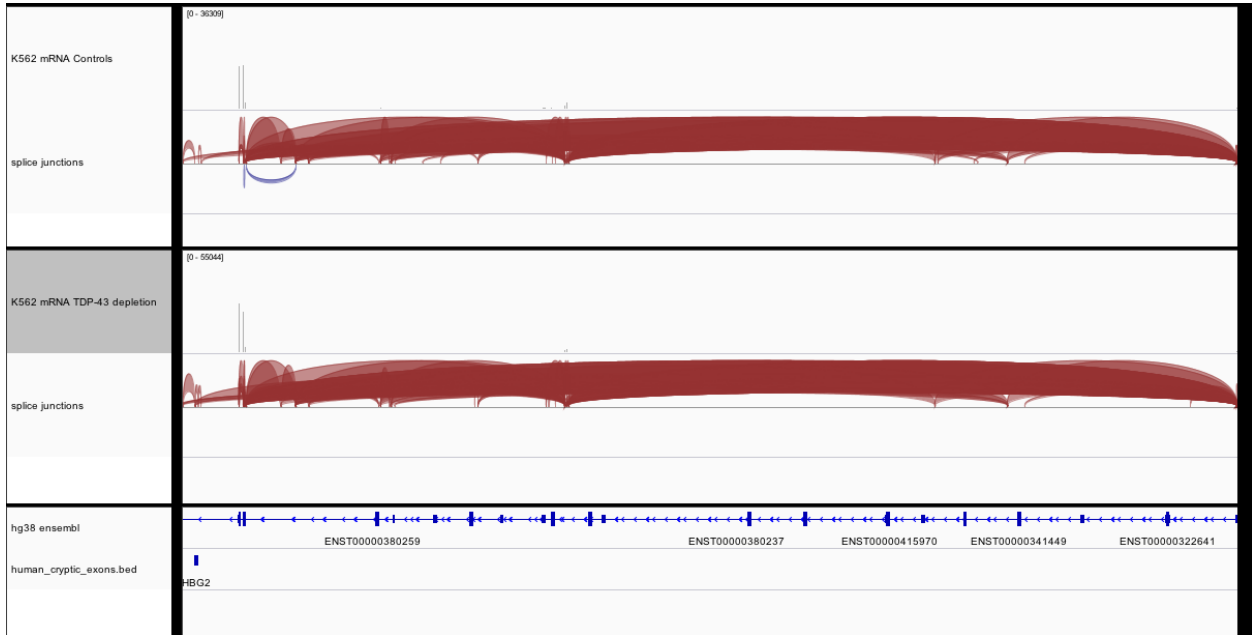


Human K562 total RNA

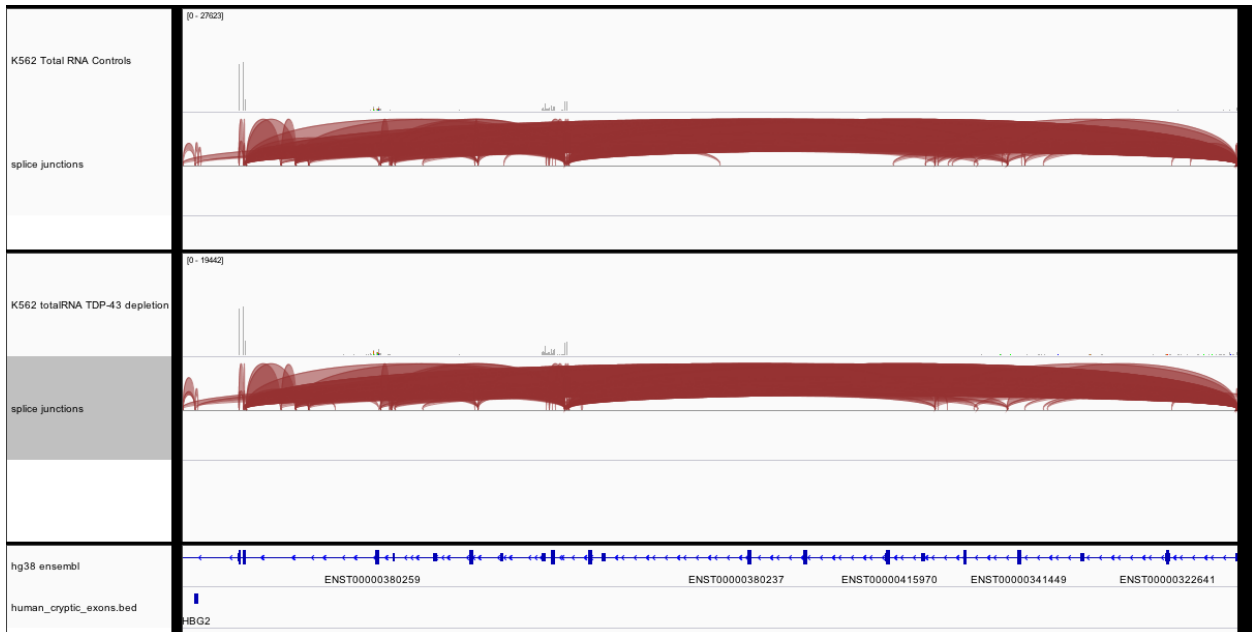


67 HBG2 E016i1

Human K562 mRNA

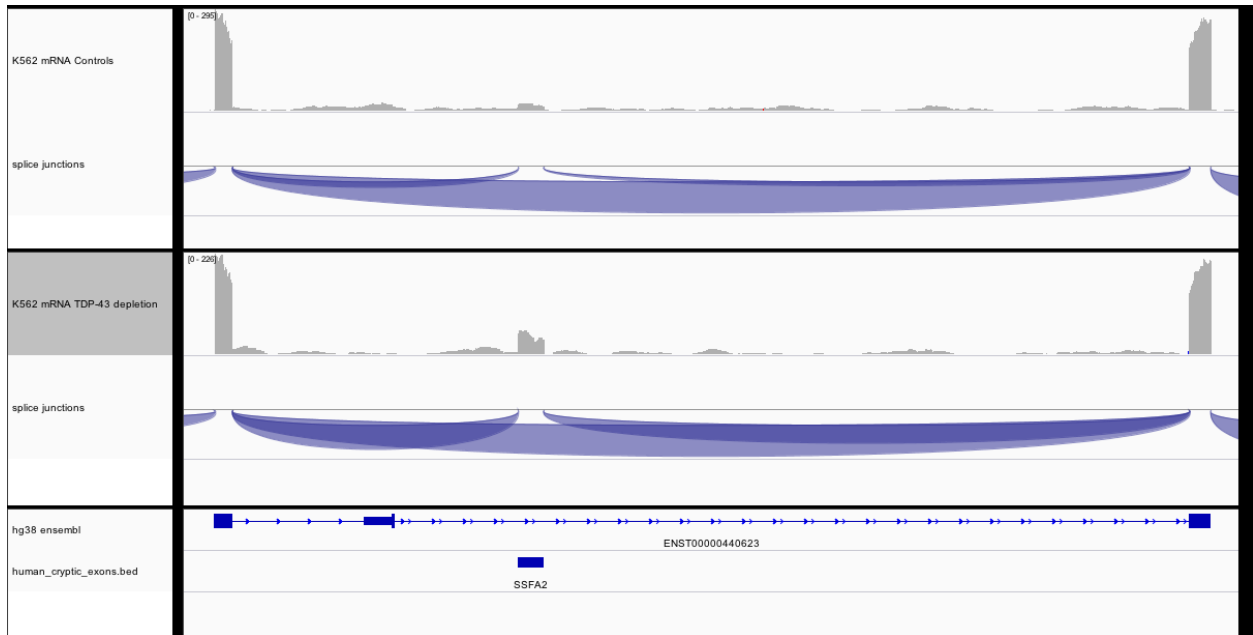


Human K562 total RNA

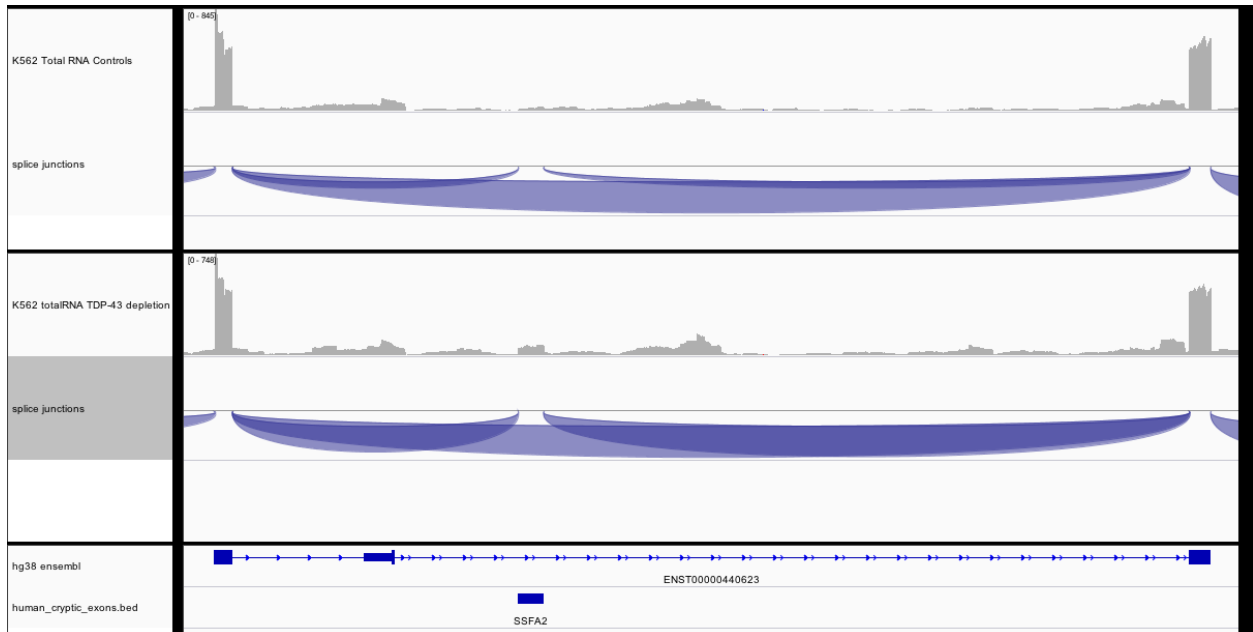


68 SSFA2 E024i1

Human K562 mRNA

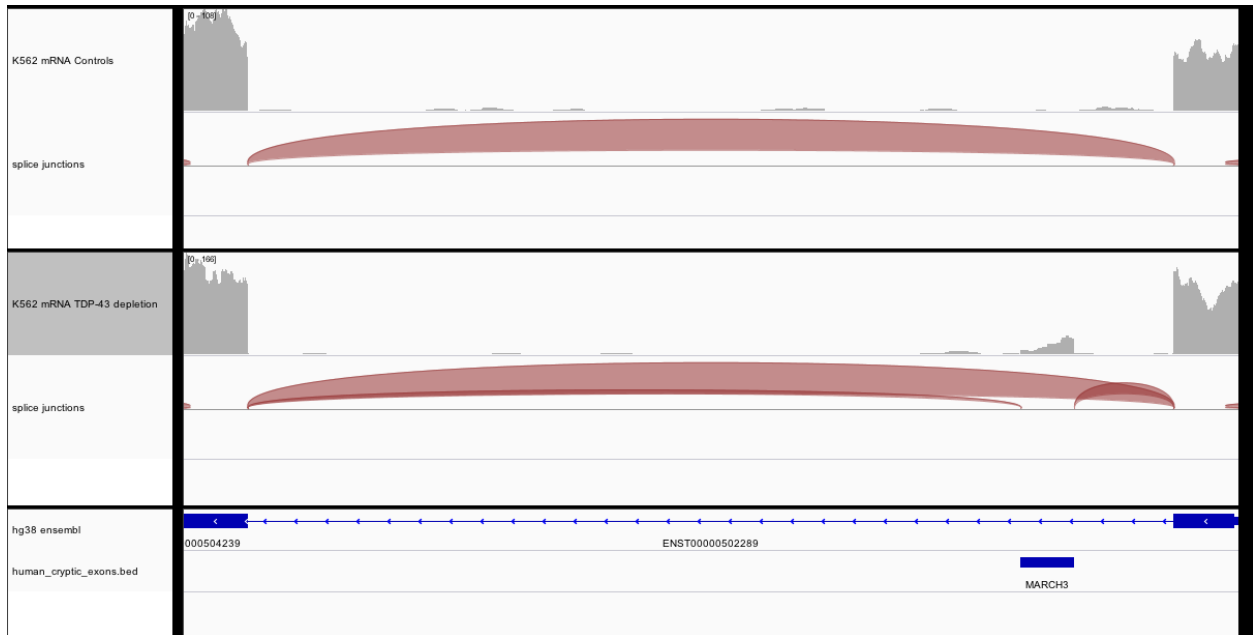


Human K562 total RNA

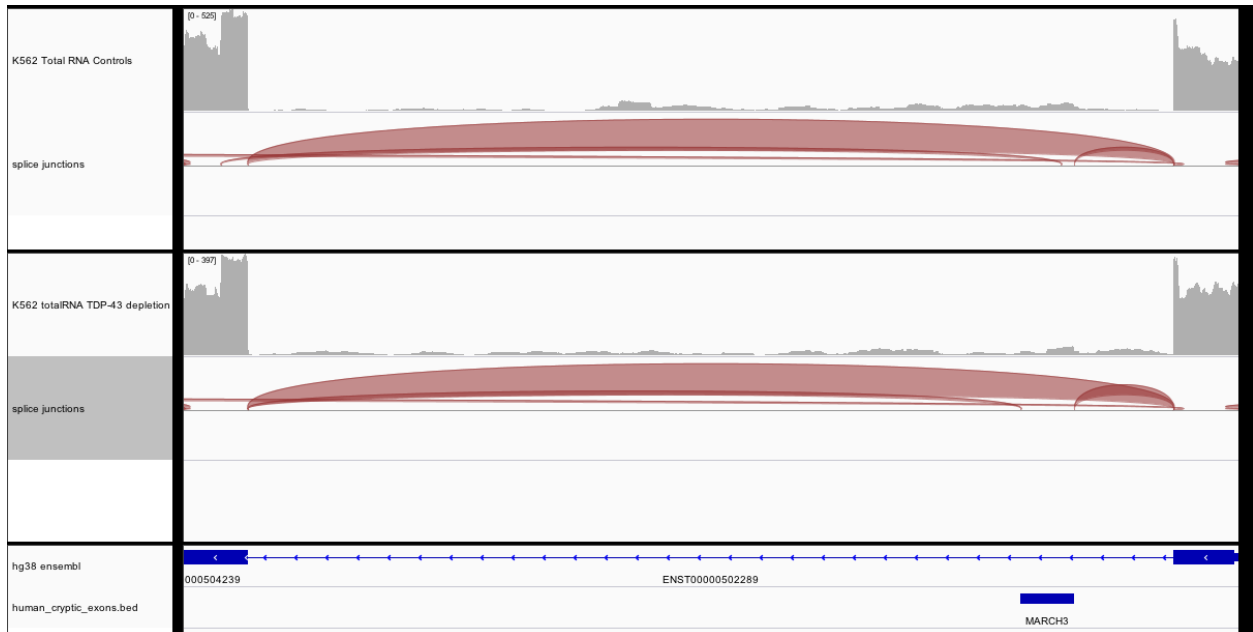


69 MARCH3 E009i1

Human K562 mRNA

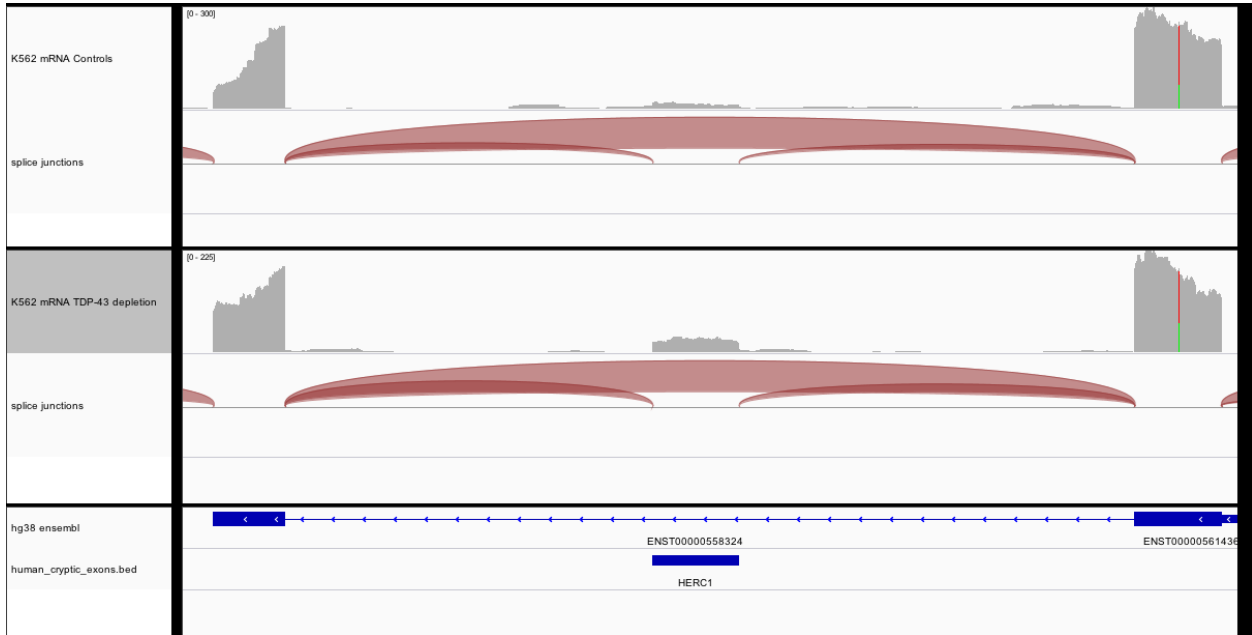


Human K562 total RNA

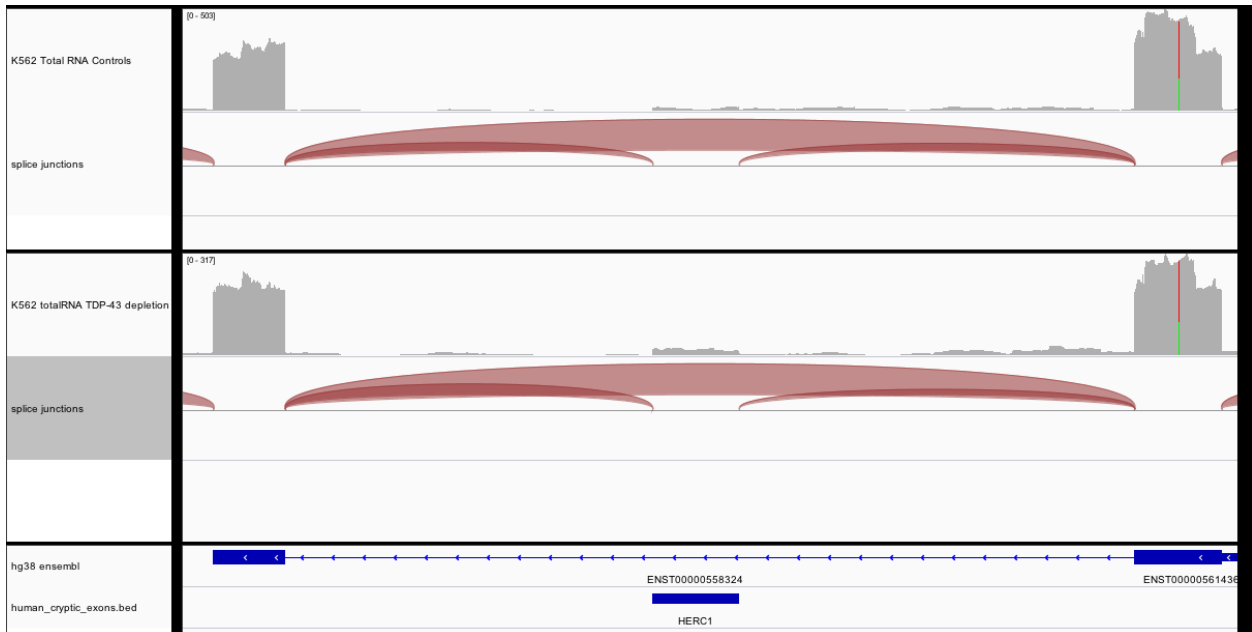


70 HERC1 E014i1

Human K562 mRNA

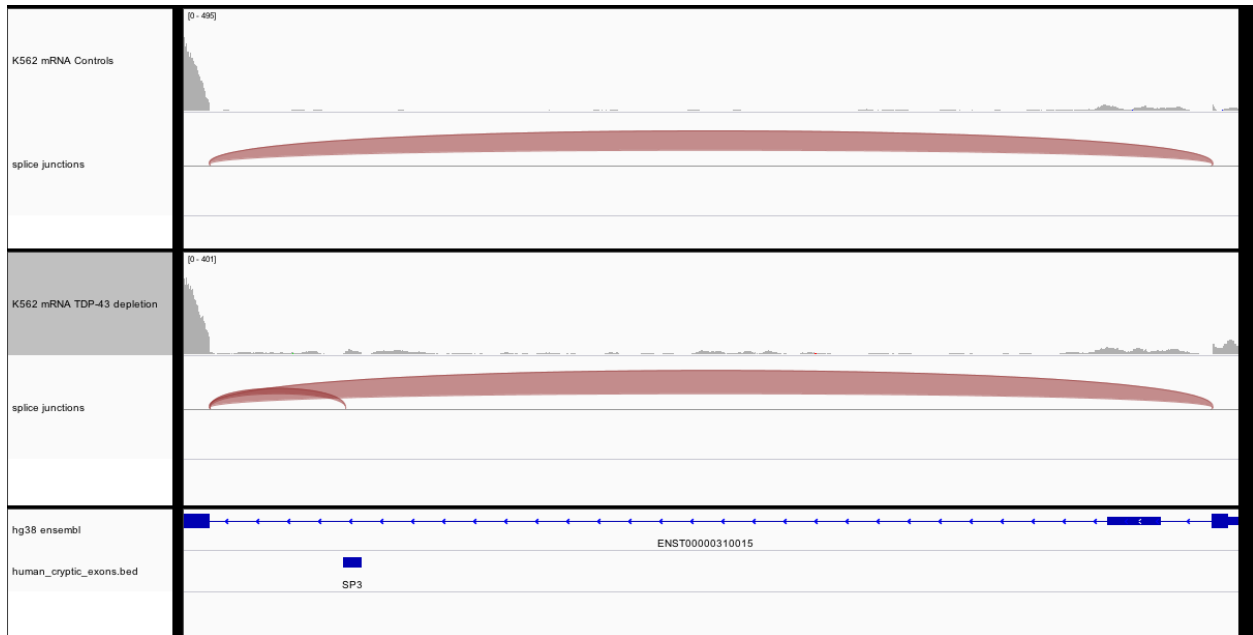


Human K562 total RNA

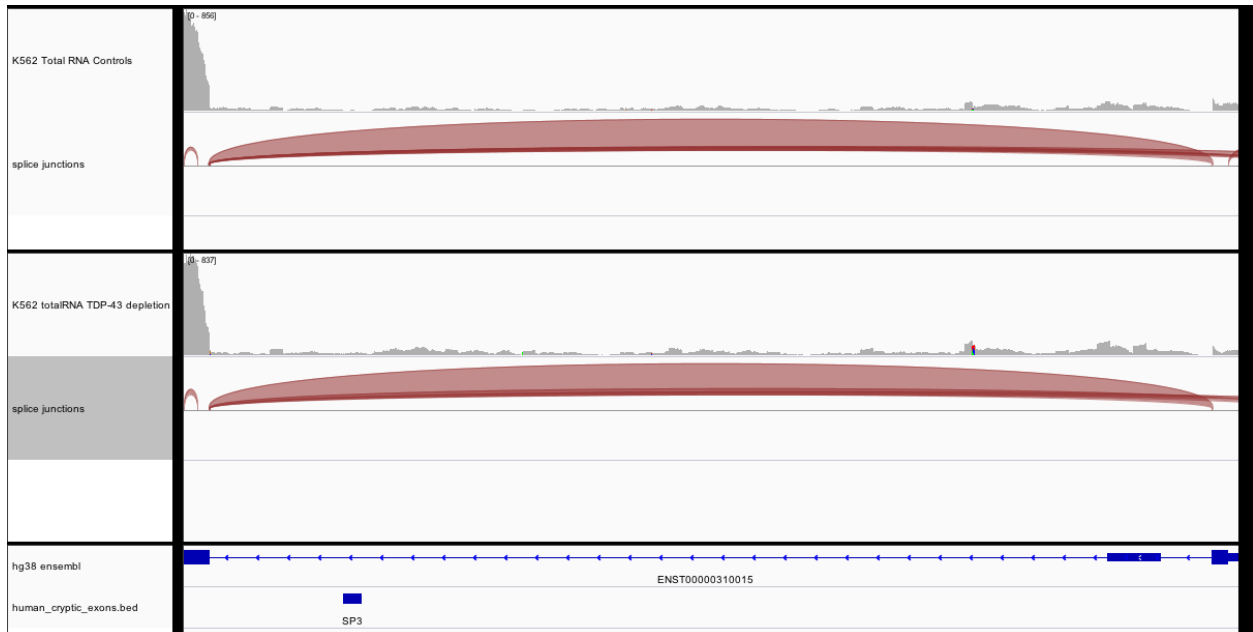


71 SP3 E011i1

Human K562 mRNA

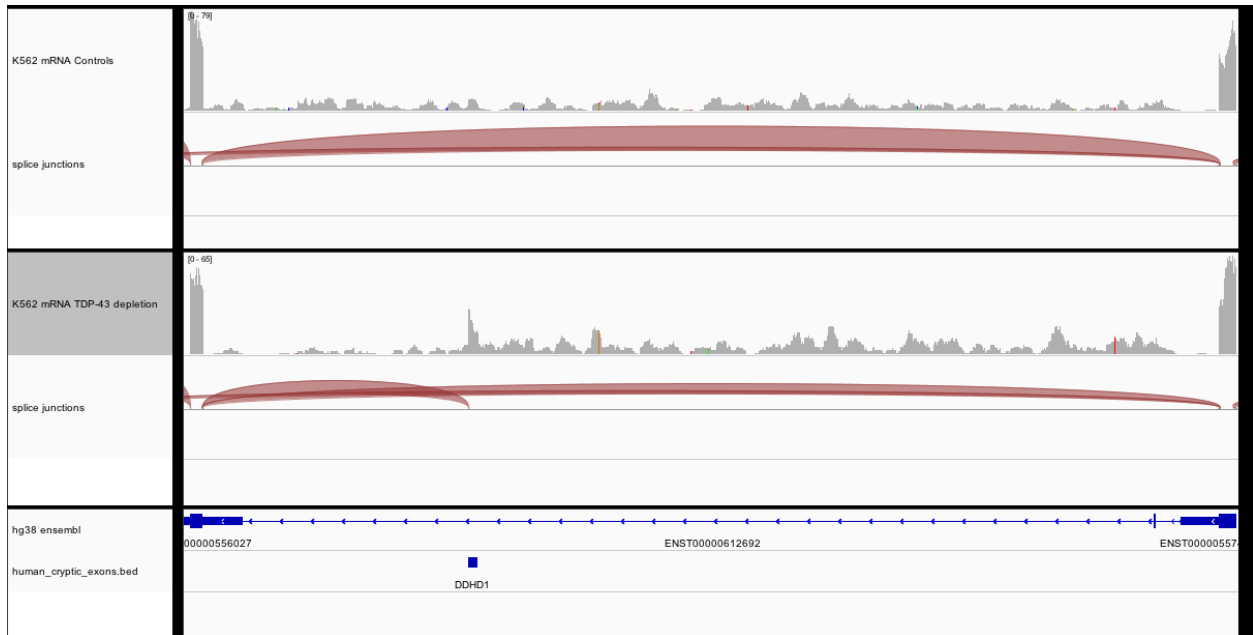


Human K562 total RNA

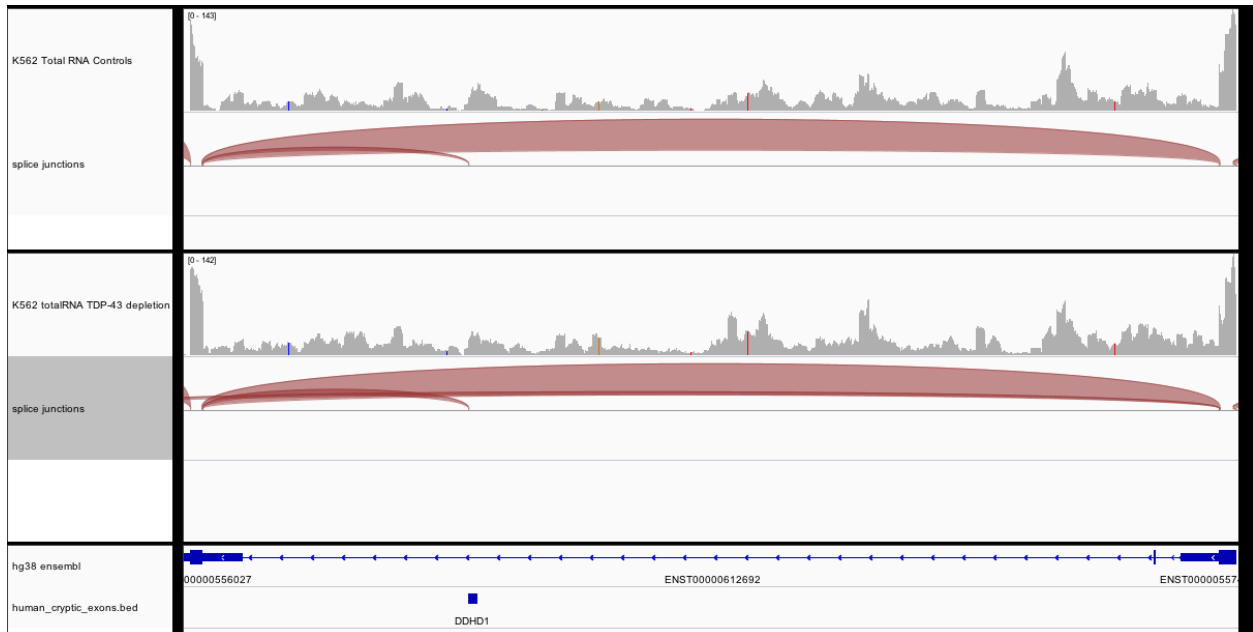


72 DDHD1 E023i1

Human K562 mRNA

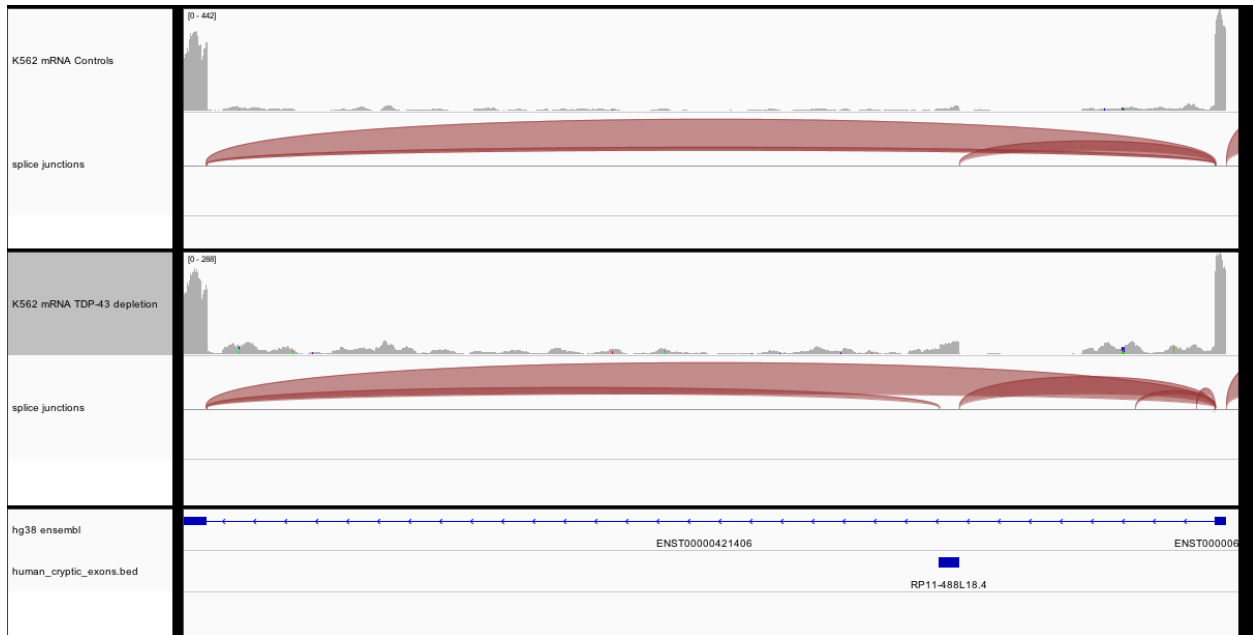


Human K562 total RNA

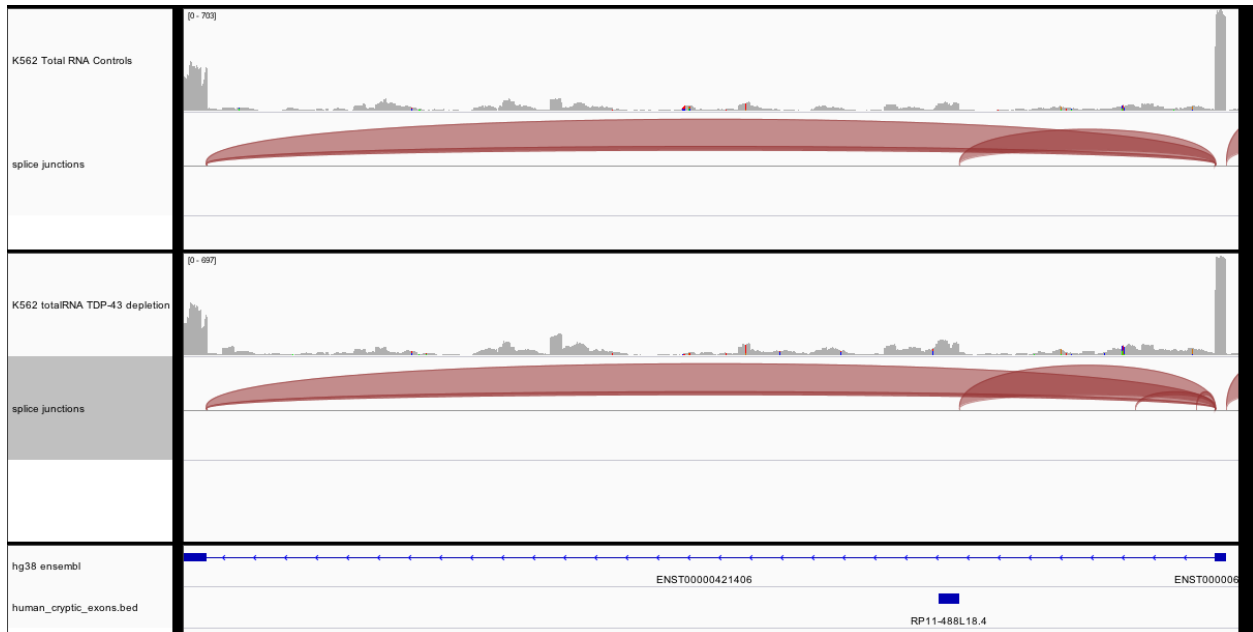


73 RP11-488L18-4 E001i4

Human K562 mRNA

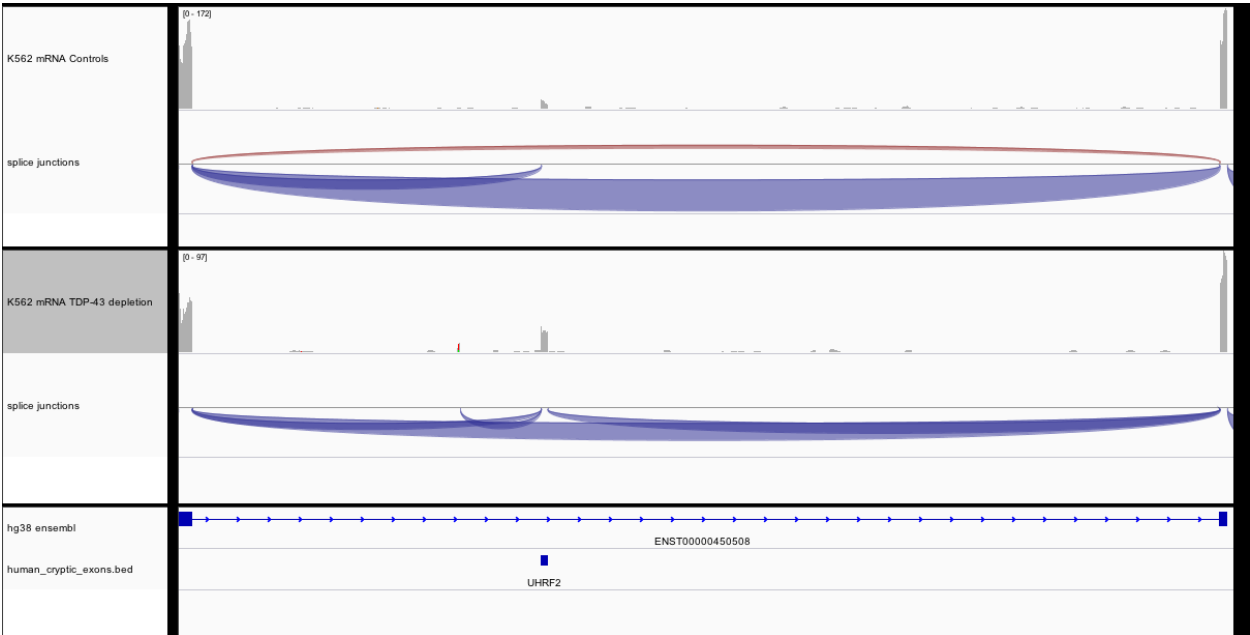


Human K562 total RNA

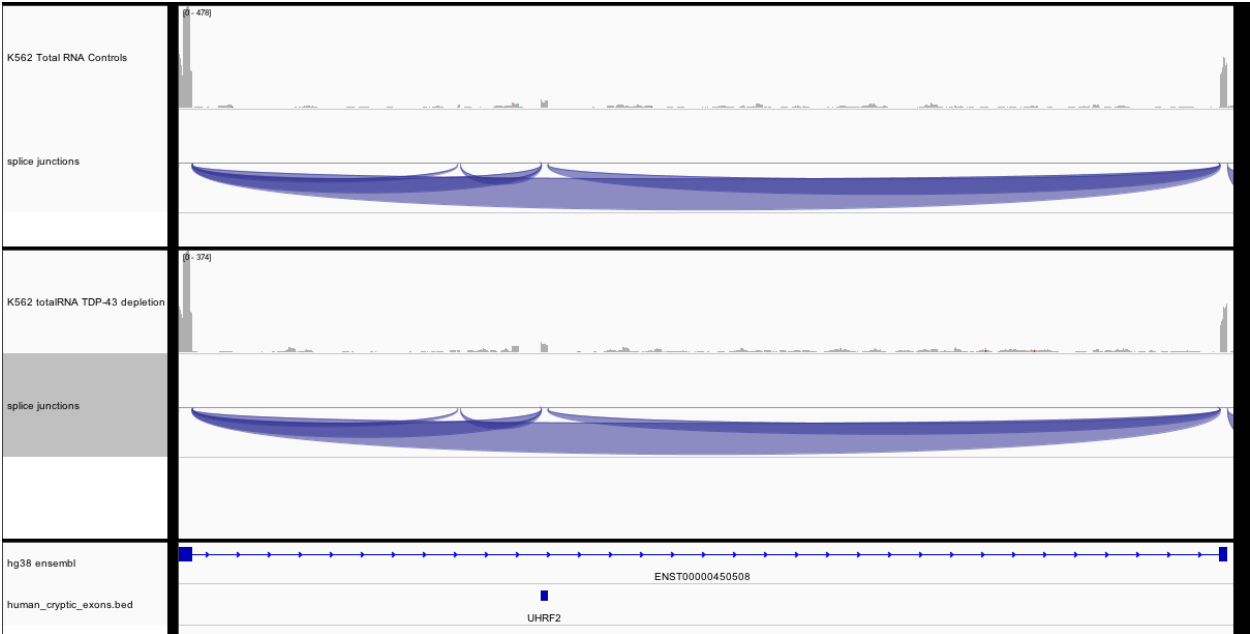


74 UHRF2 E017i2

Human K562 mRNA

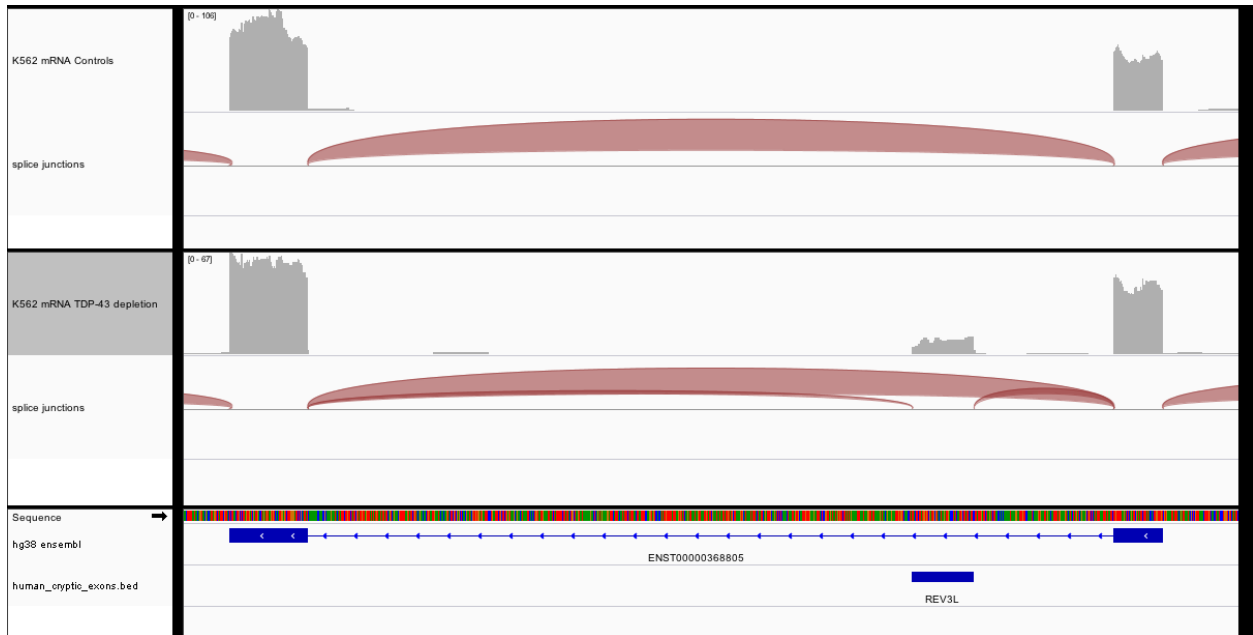


Human K562 total RNA

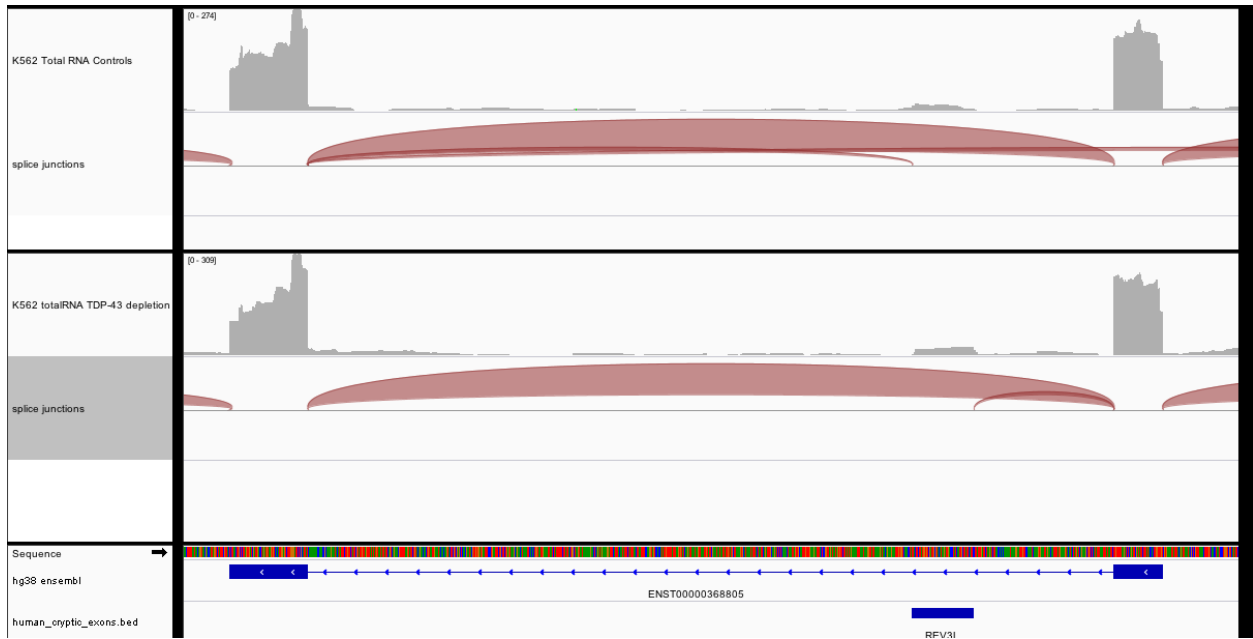


75 REV3L E028i1

Human K562 mRNA

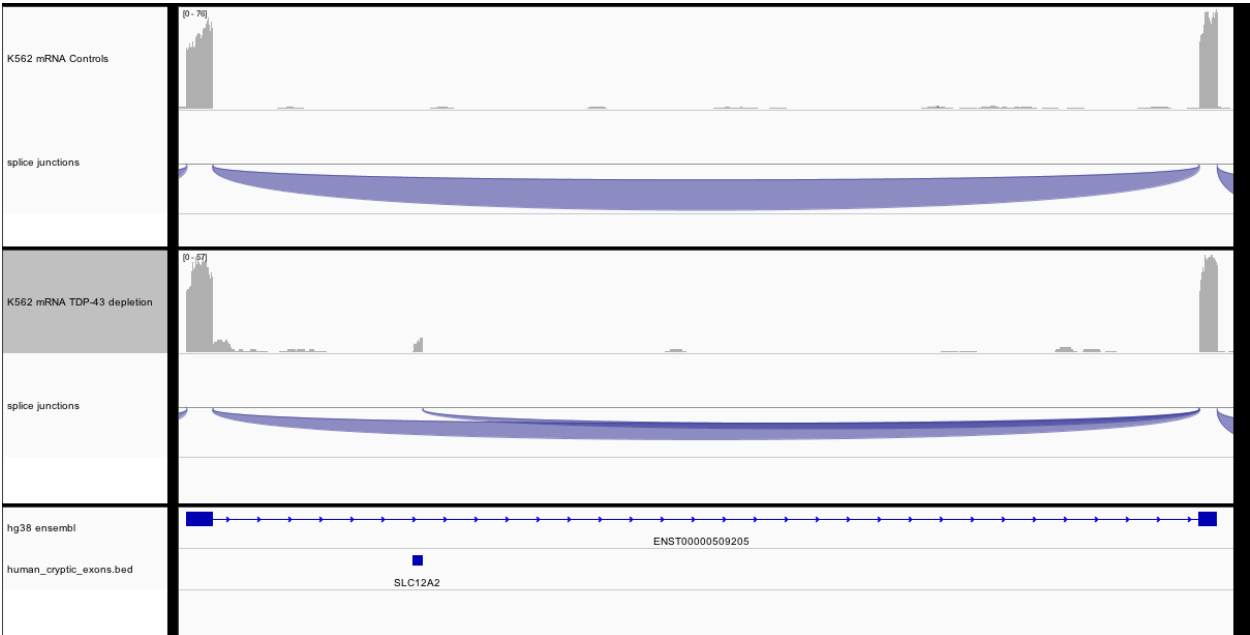


Human K562 total RNA

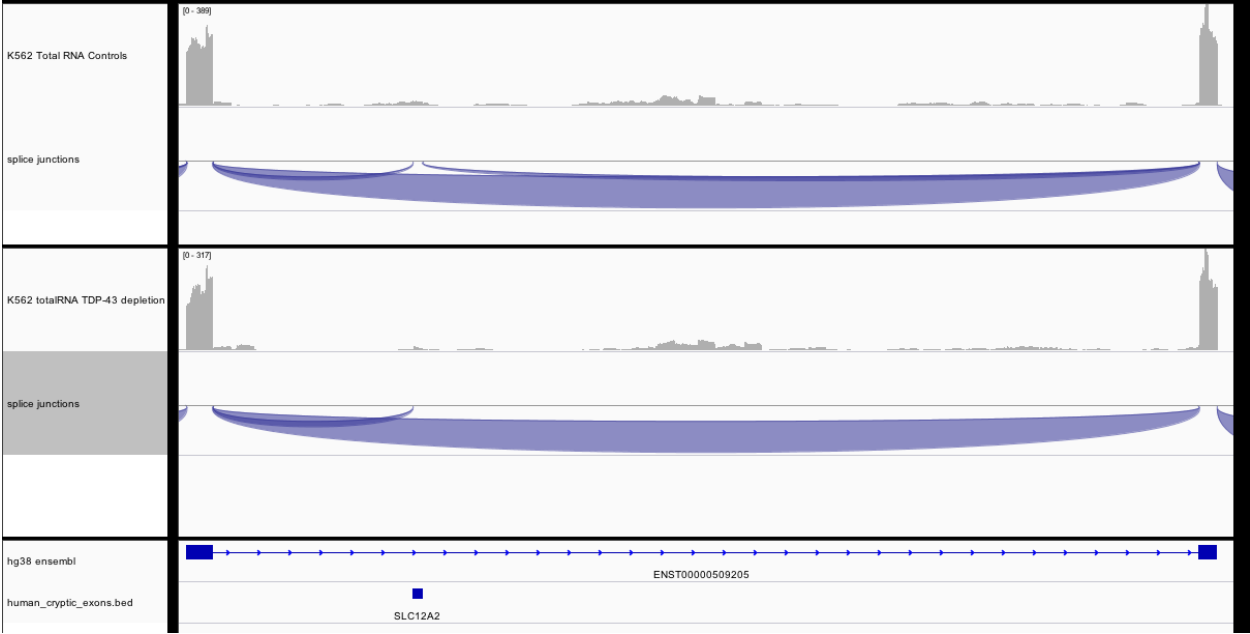


76 SLC12A2 E012i1

Human K562 mRNA

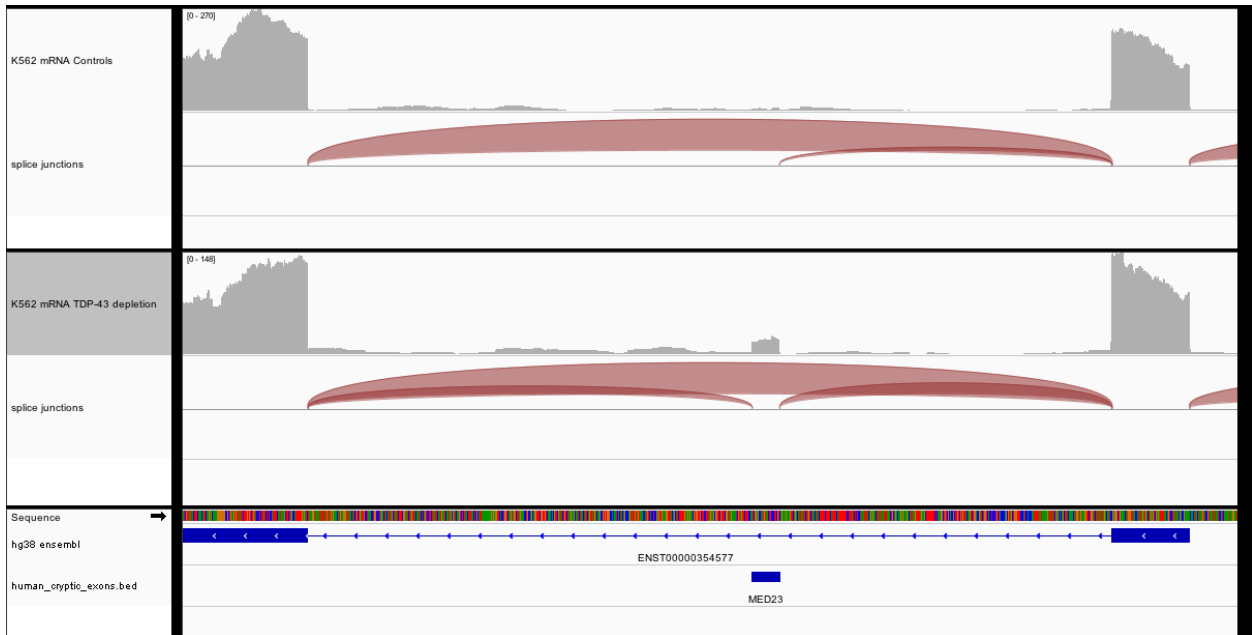


Human K562 total RNA

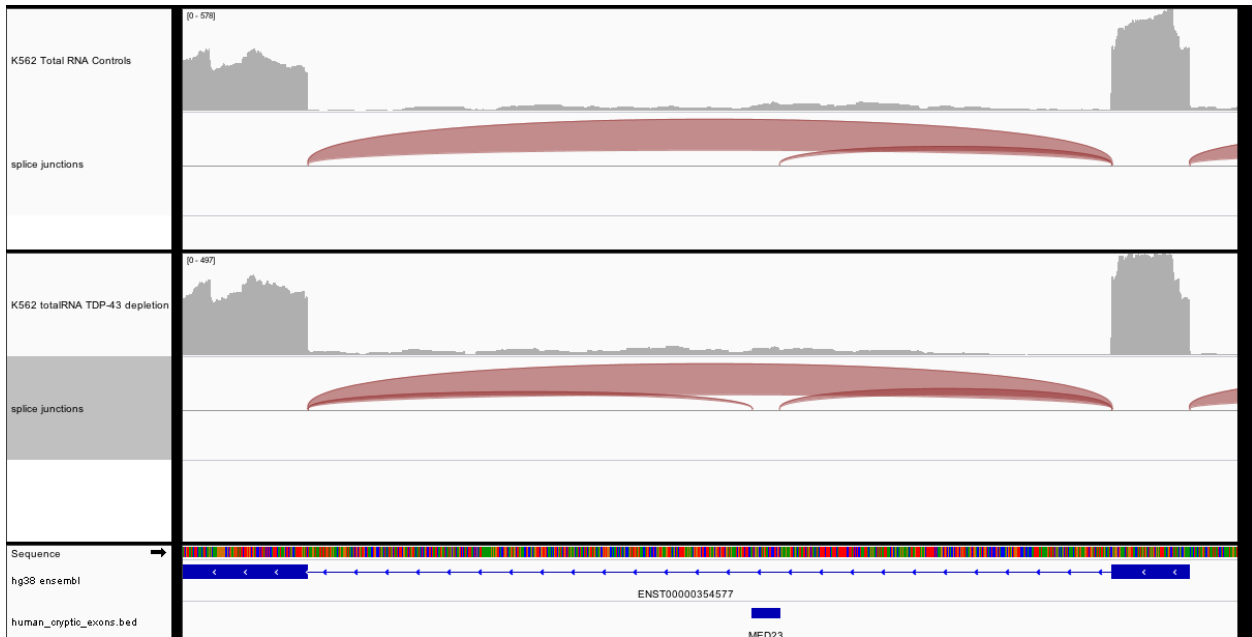


77 MED23 E025i1

Human K562 mRNA

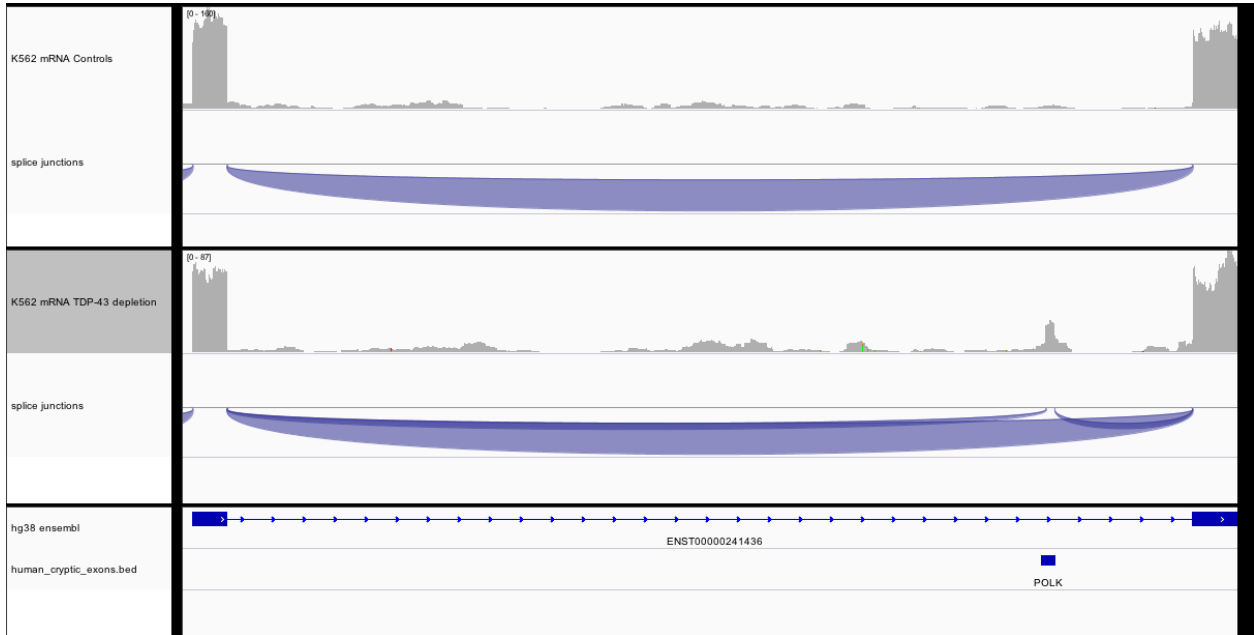


Human K562 total RNA

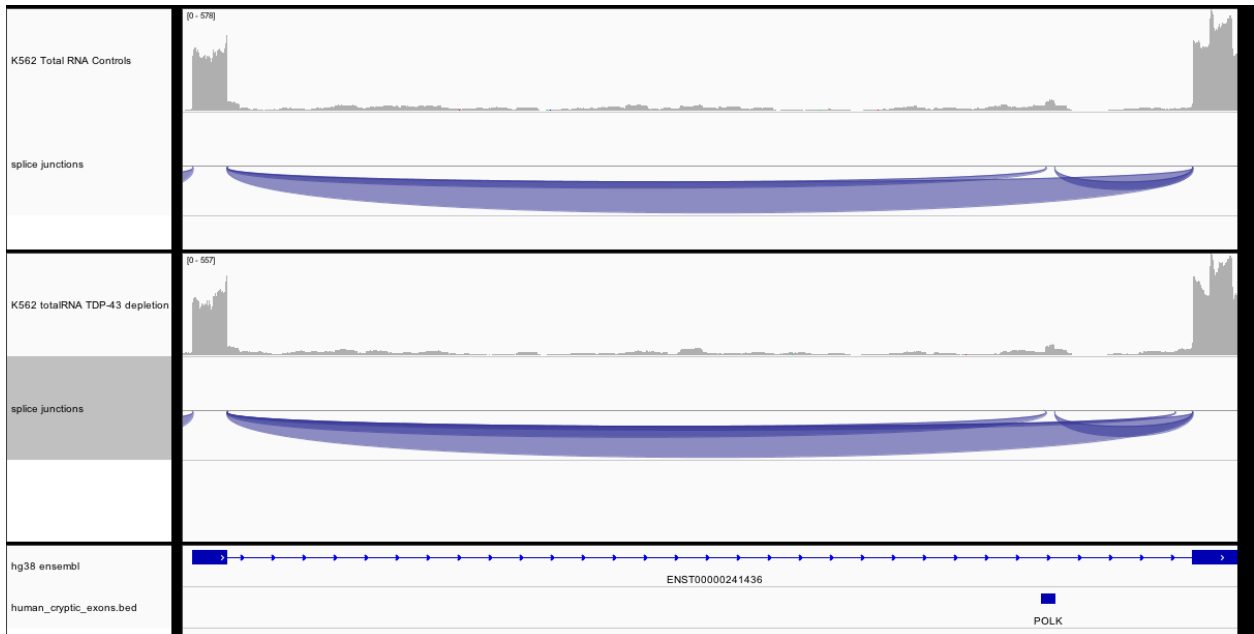


78 POLK E019i1

Human K562 mRNA

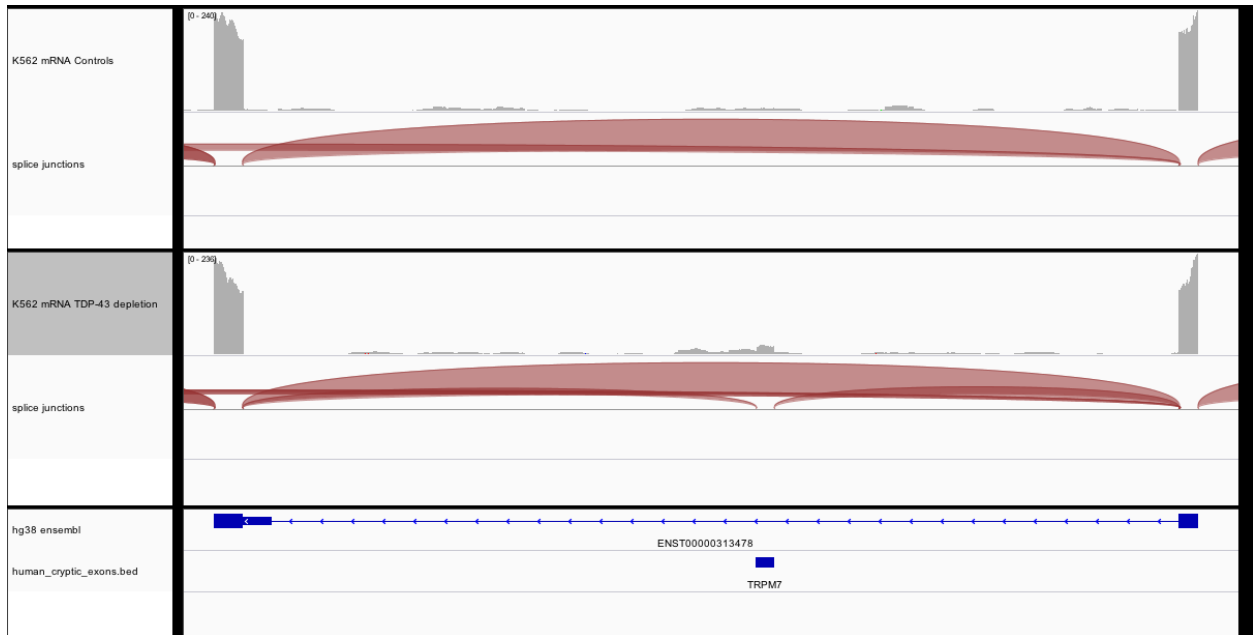


Human K562 total RNA

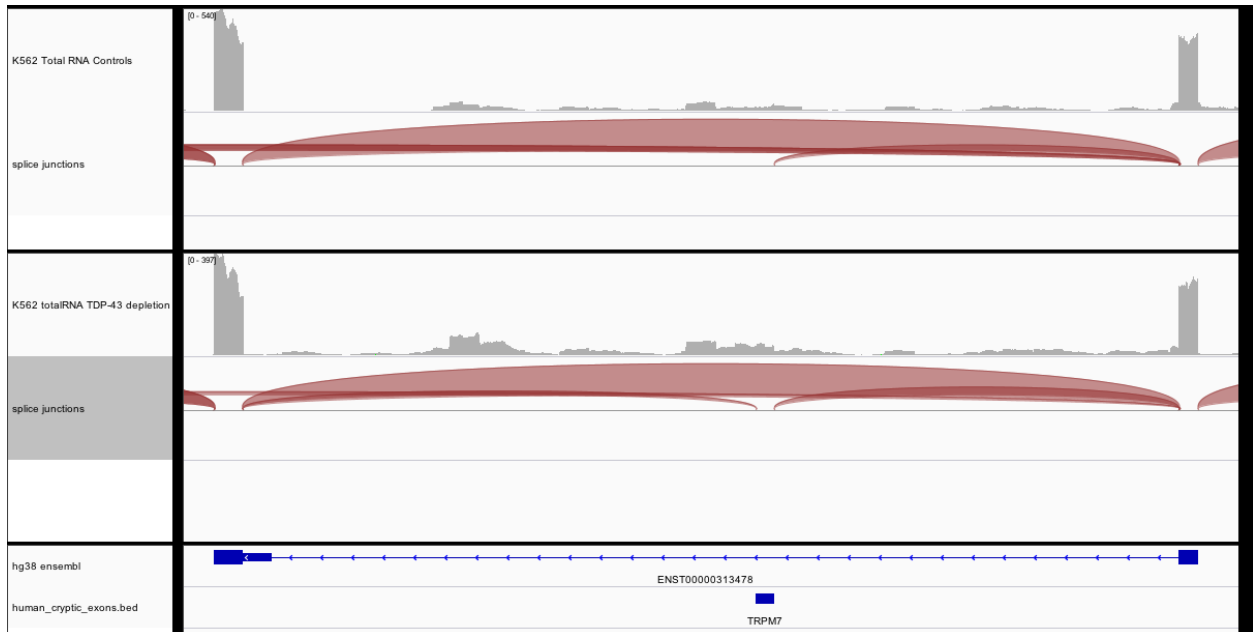


79 TRPM7 E027i1

Human K562 mRNA

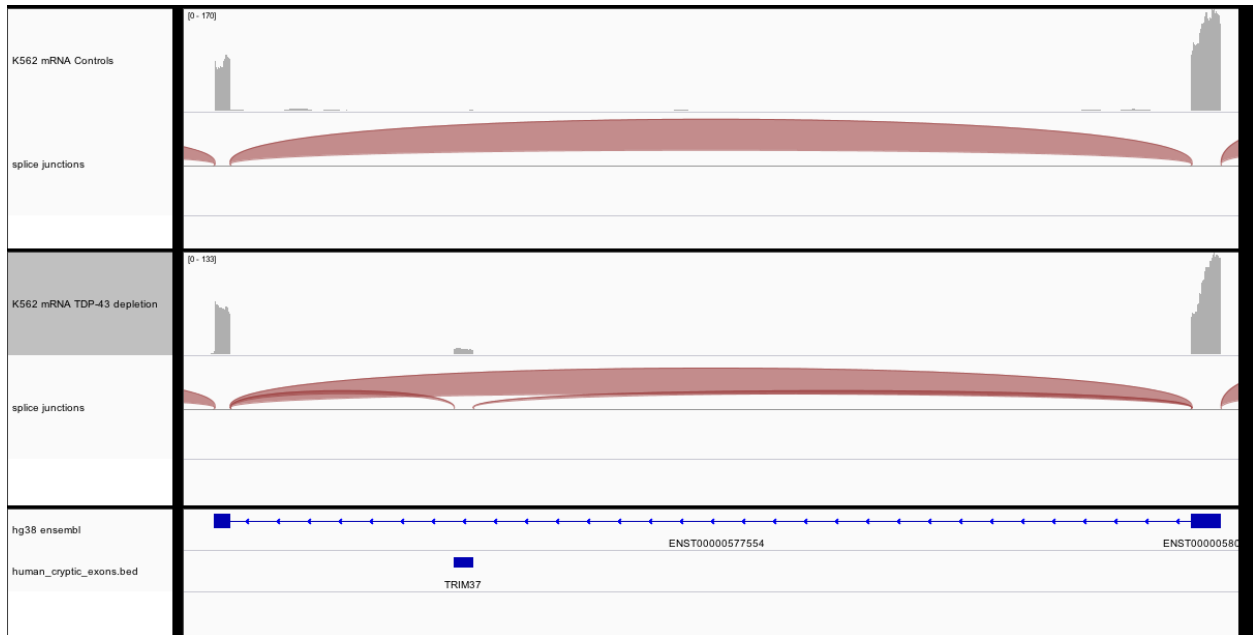


Human K562 total RNA

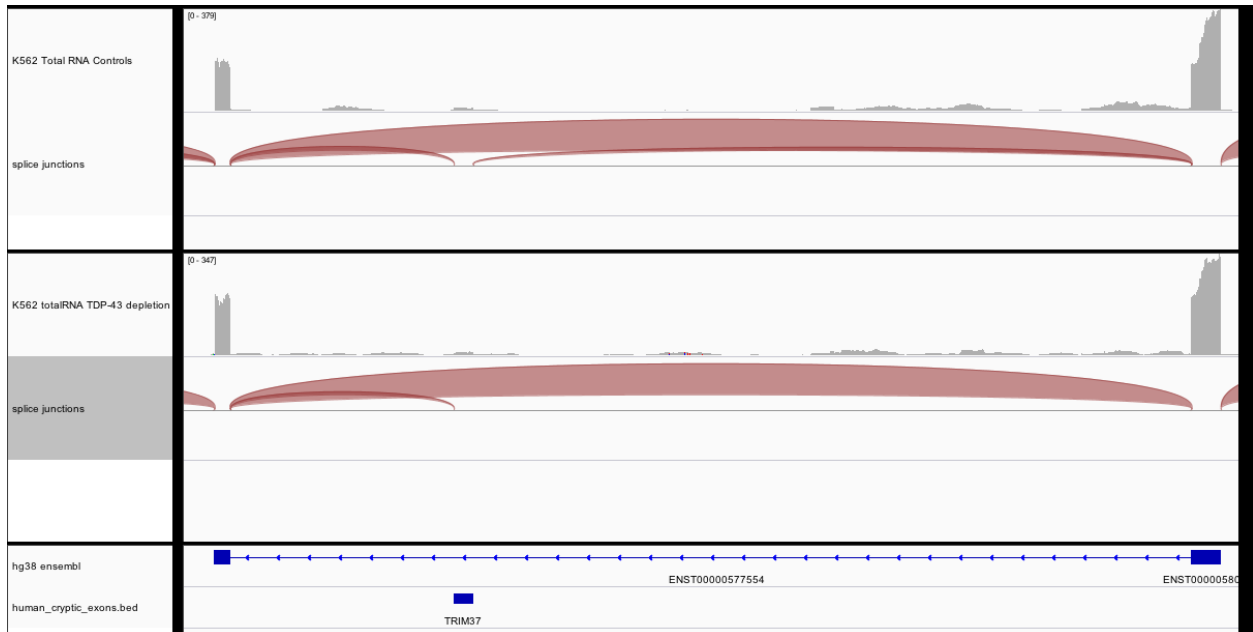


80 TRIM37 E029i1

Human K562 mRNA

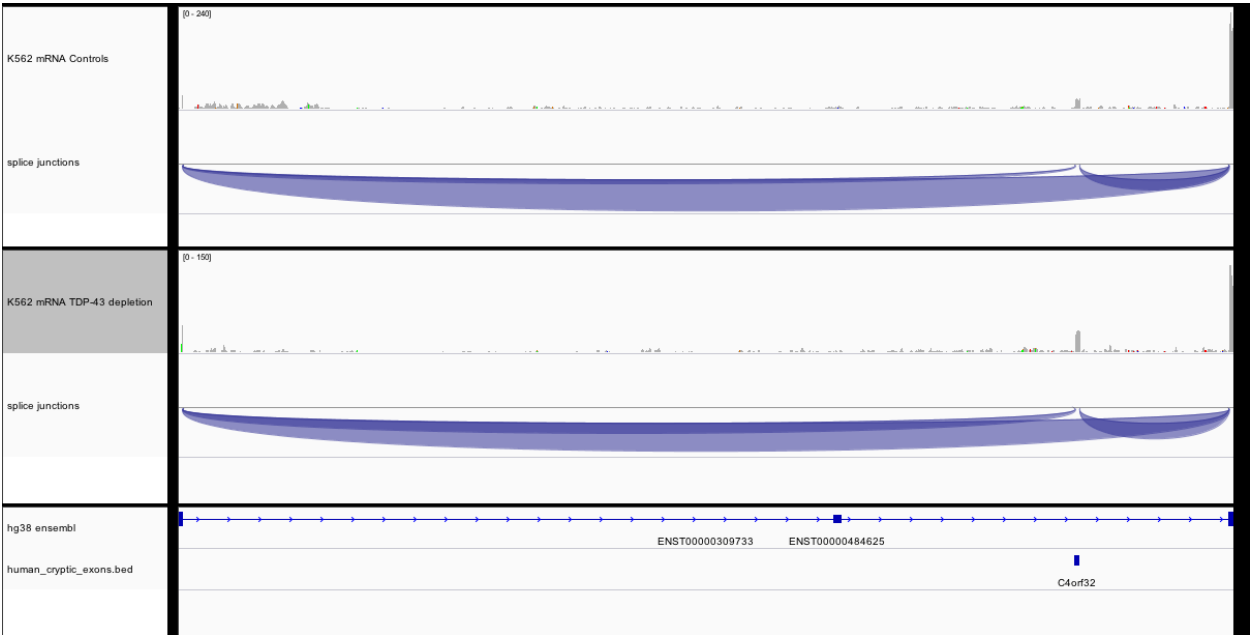


Human K562 total RNA

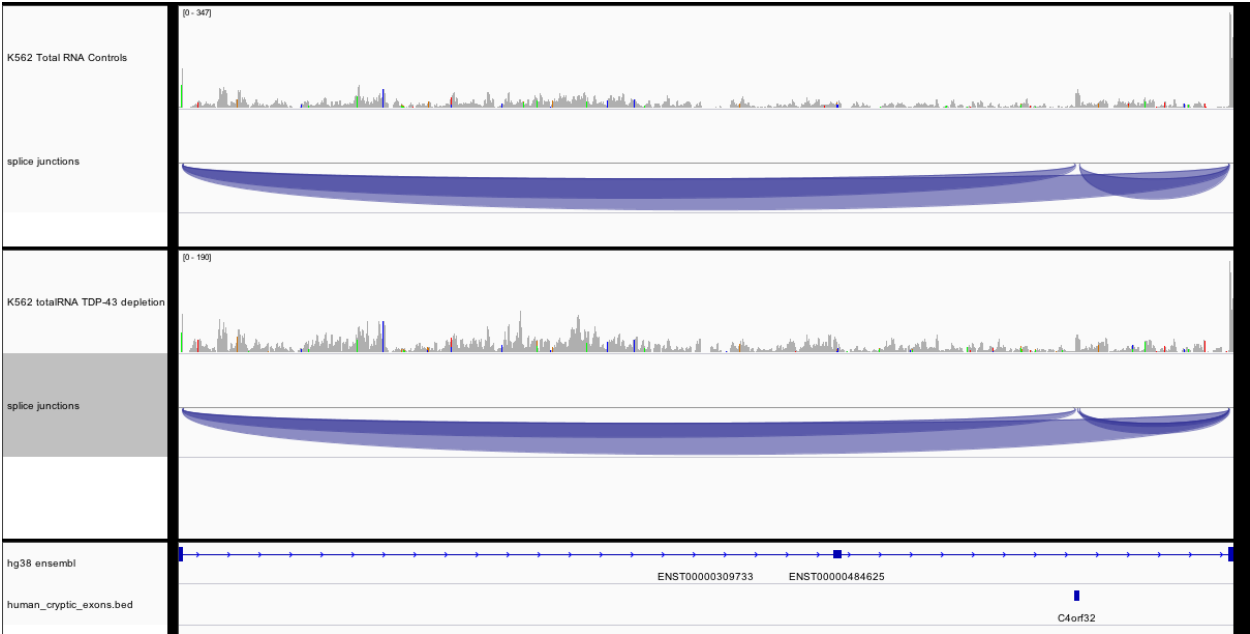


81 C4orf32 E001i1

Human K562 mRNA

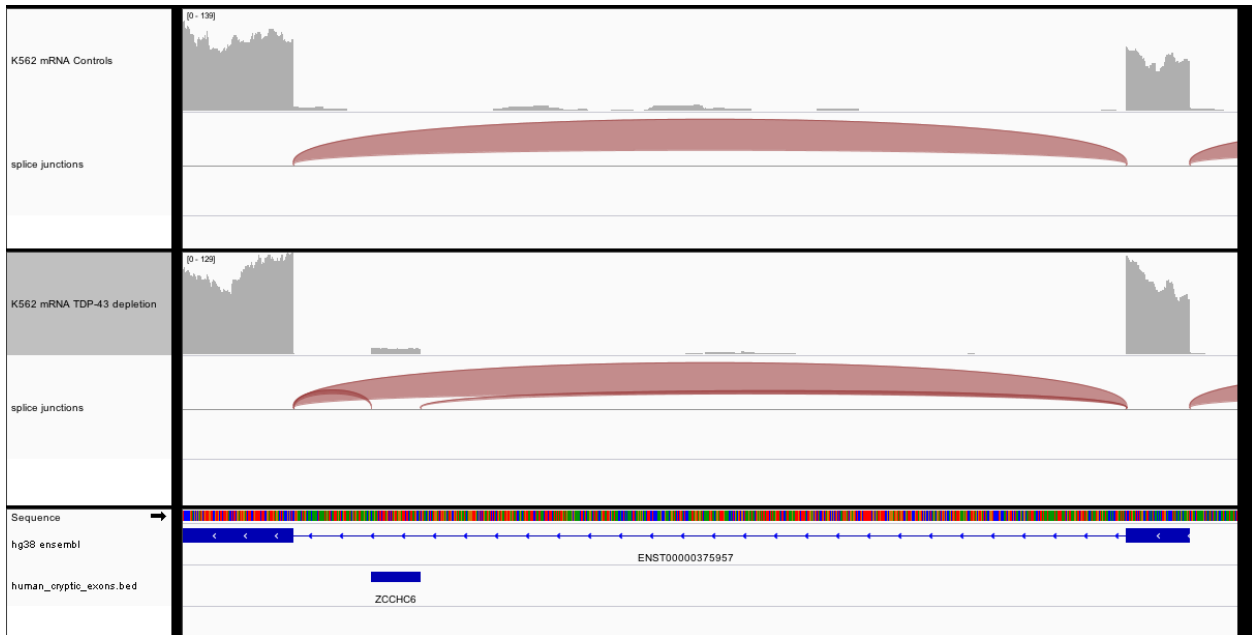


Human K562 total RNA

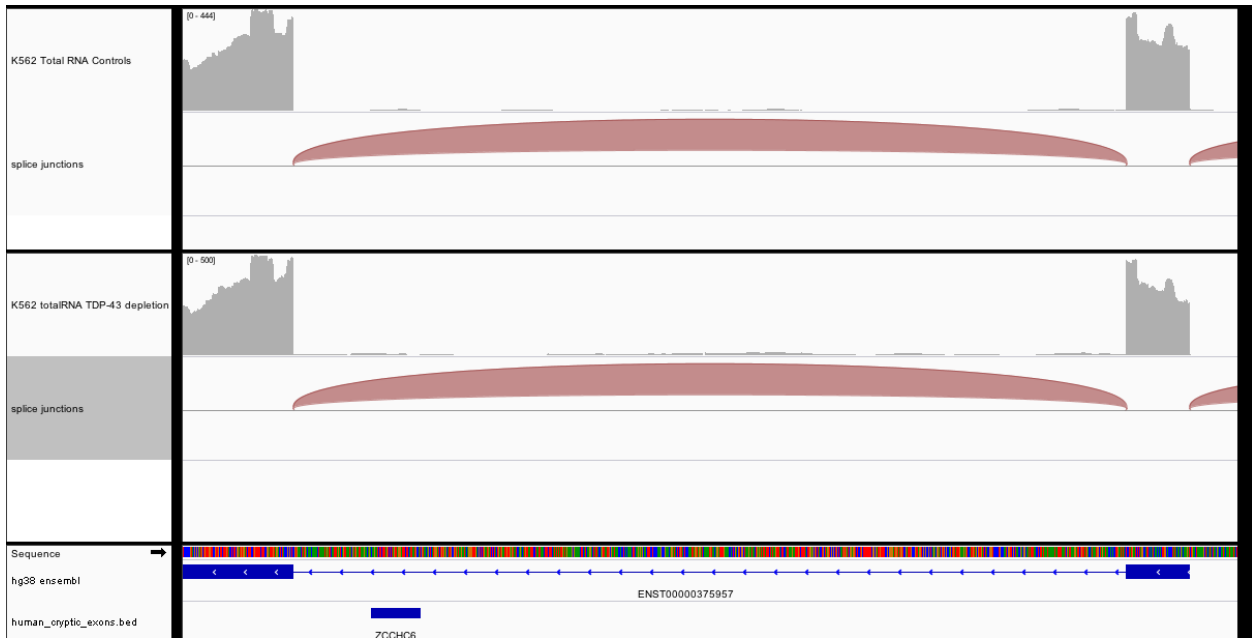


82 ZCCHC6 E004i1

Human K562 mRNA

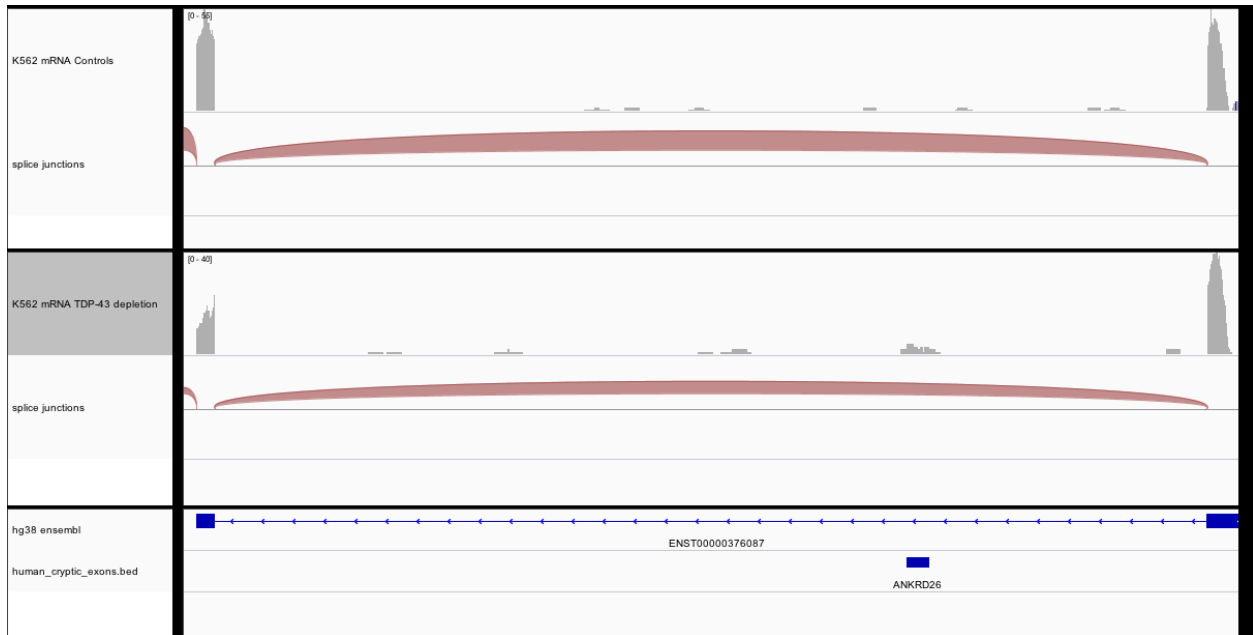


Human K562 total RNA

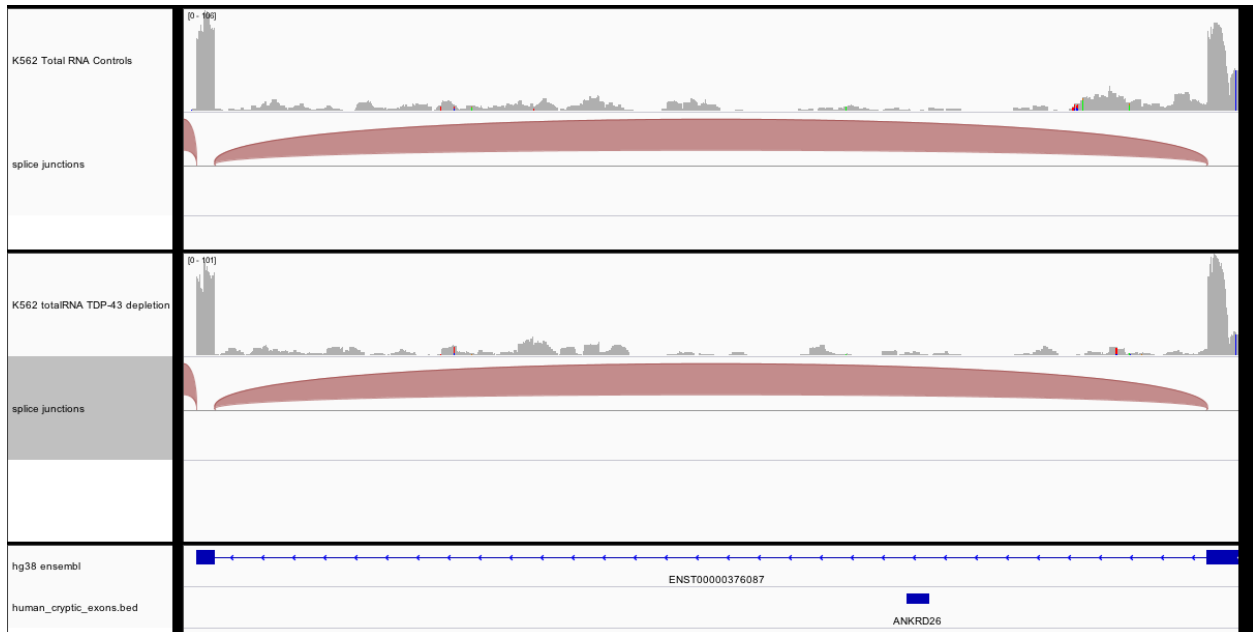


83 ANKRD26 E045i1

Human K562 mRNA

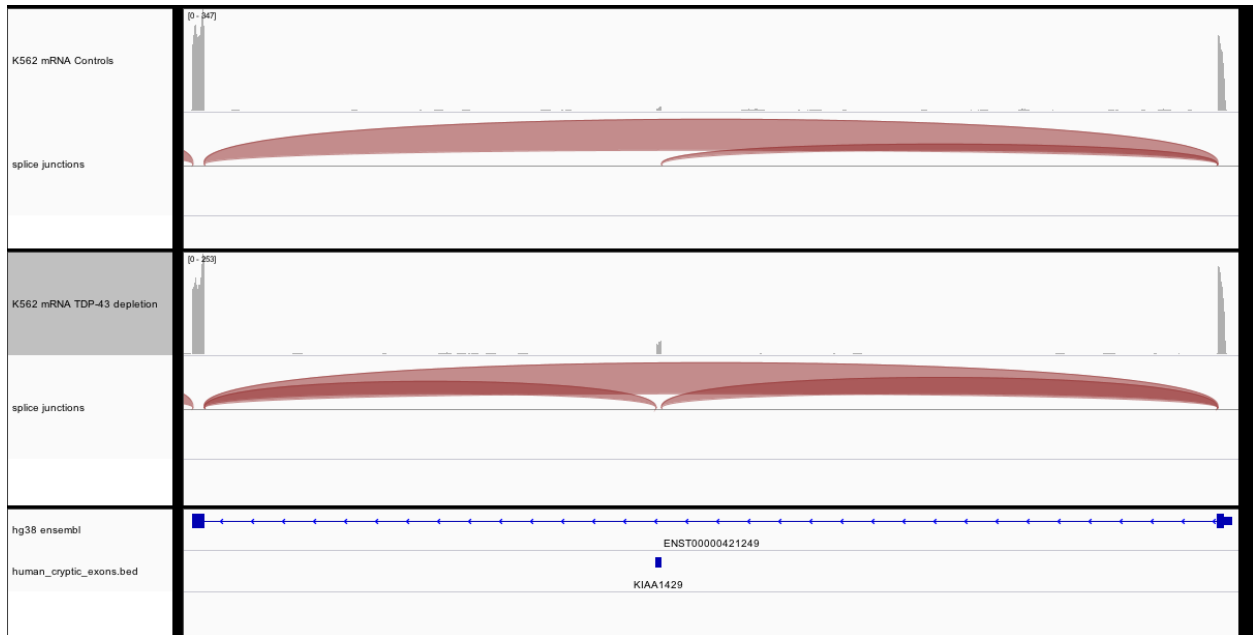


Human K562 total RNA

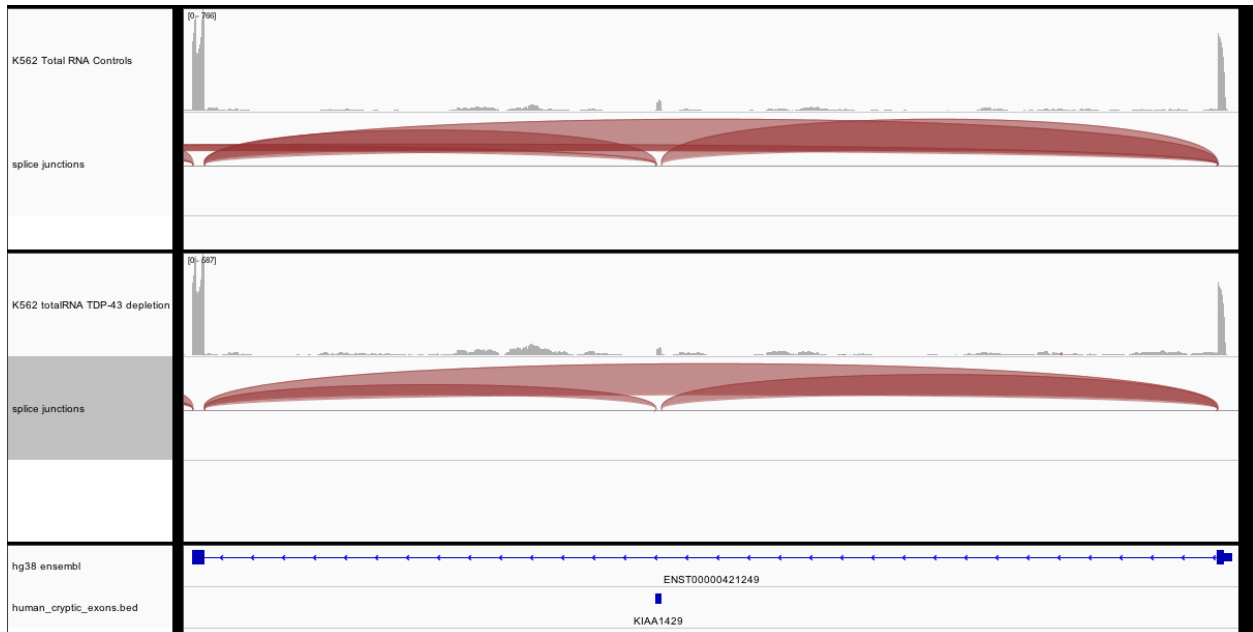


84 KIAA1429 E039i3

Human K562 mRNA

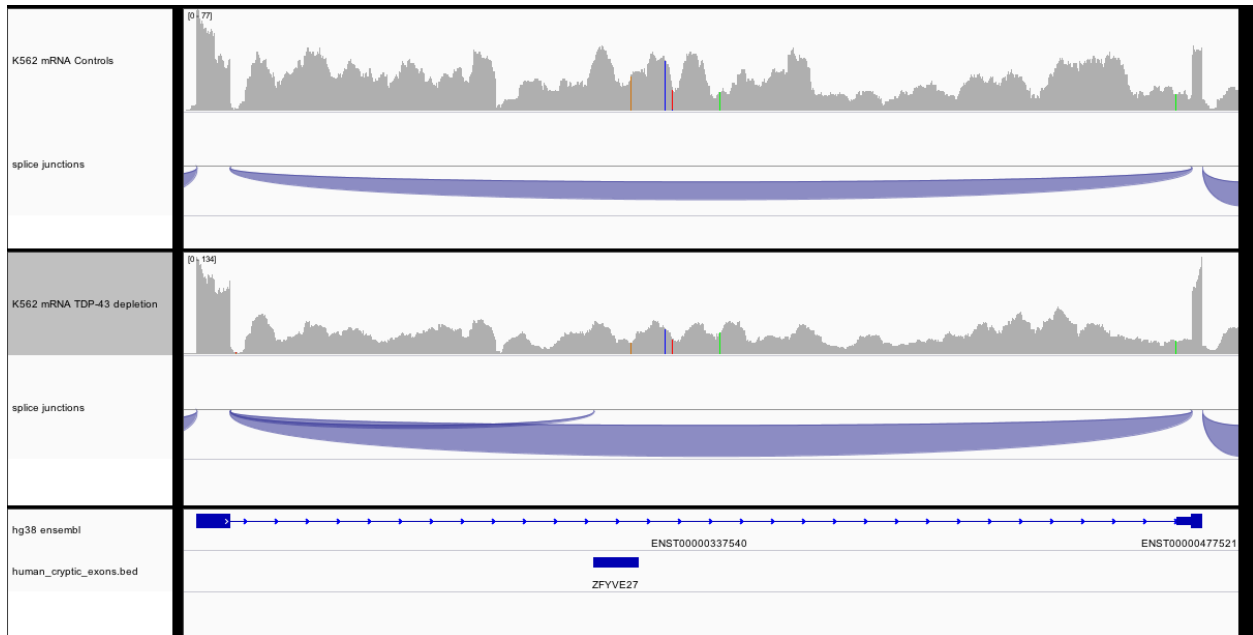


Human K562 total RNA

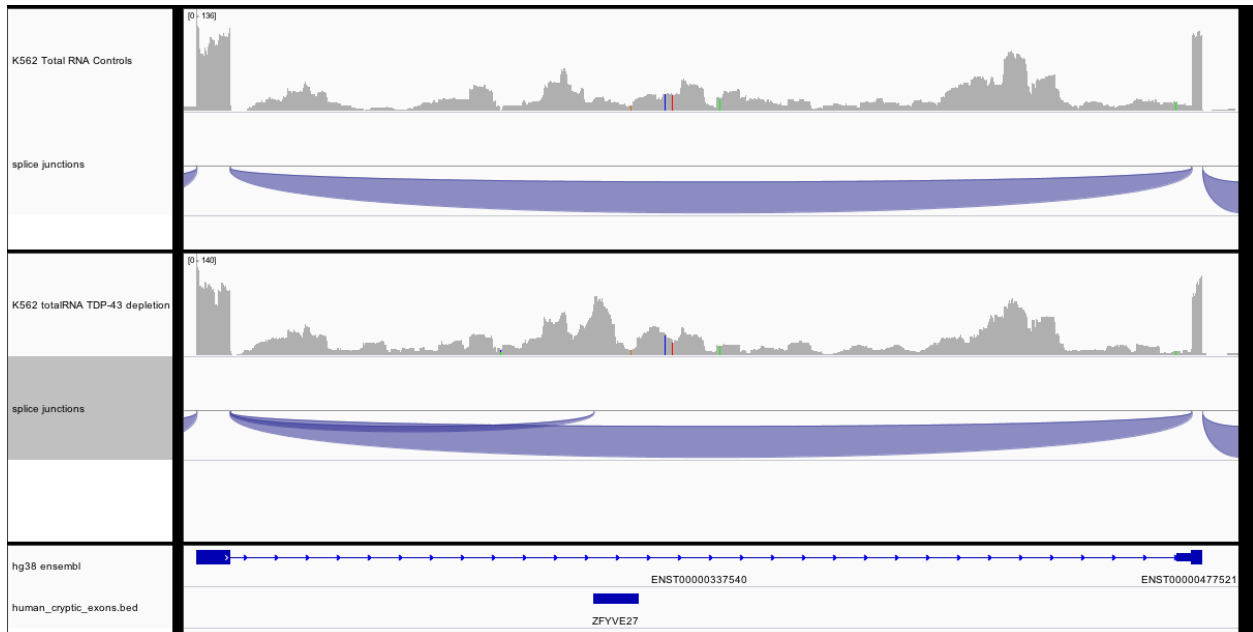


85 ZFYVE27 E020i1

Human K562 mRNA

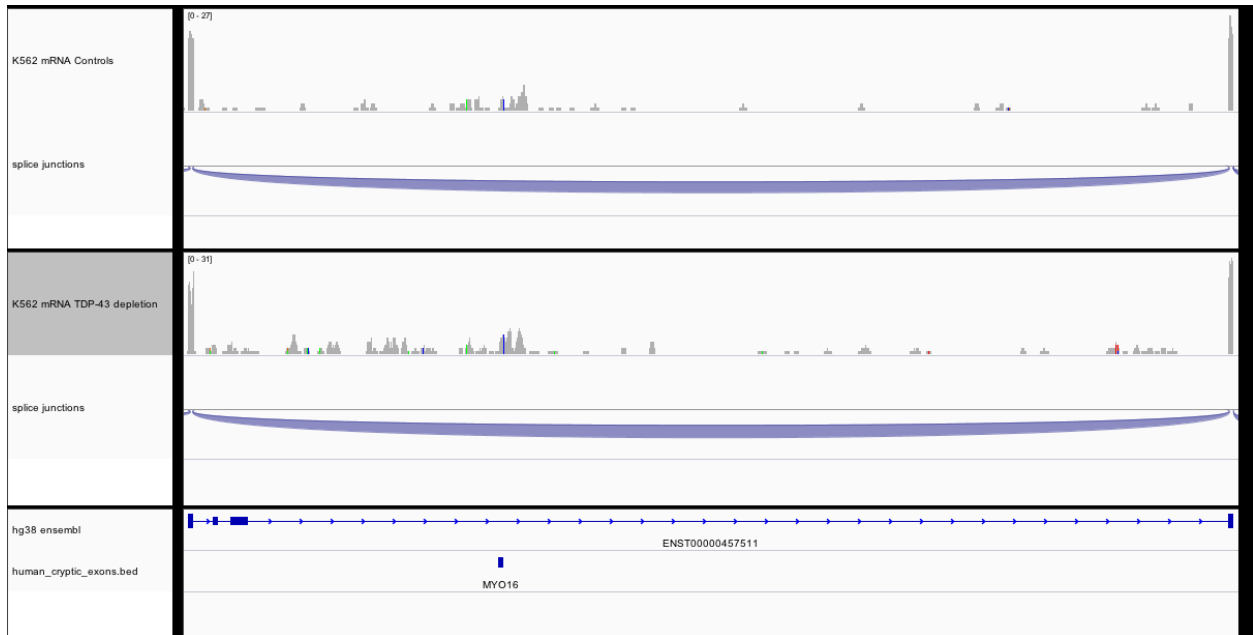


Human K562 total RNA

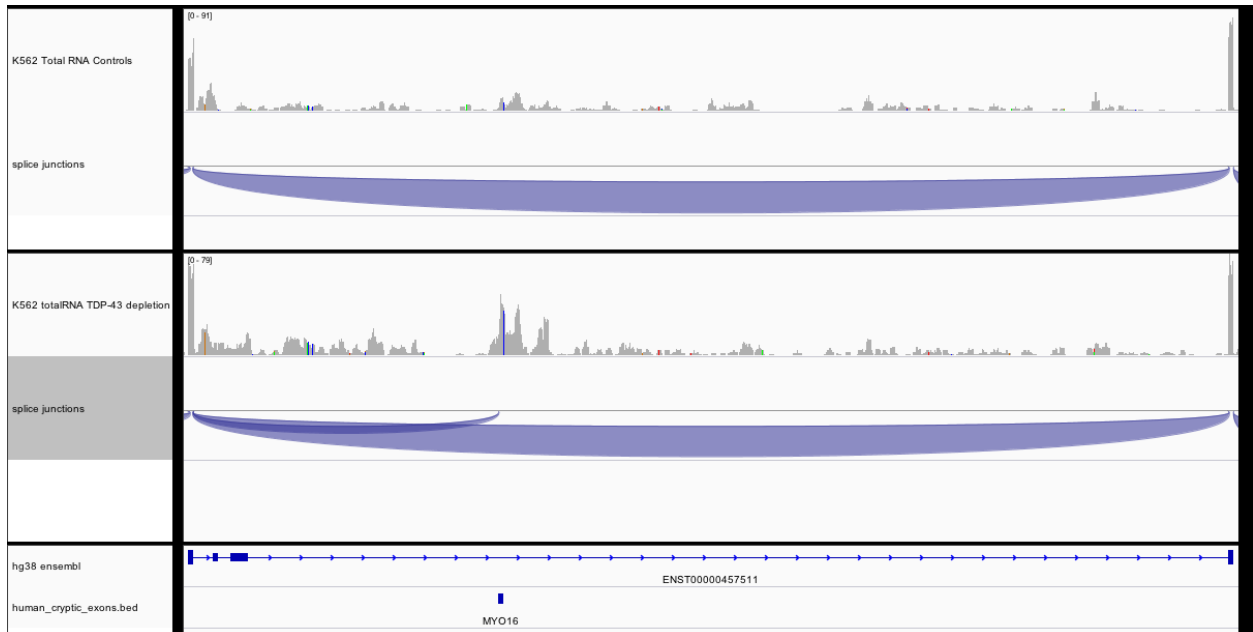


86 MYO16 E036i1

Human K562 mRNA

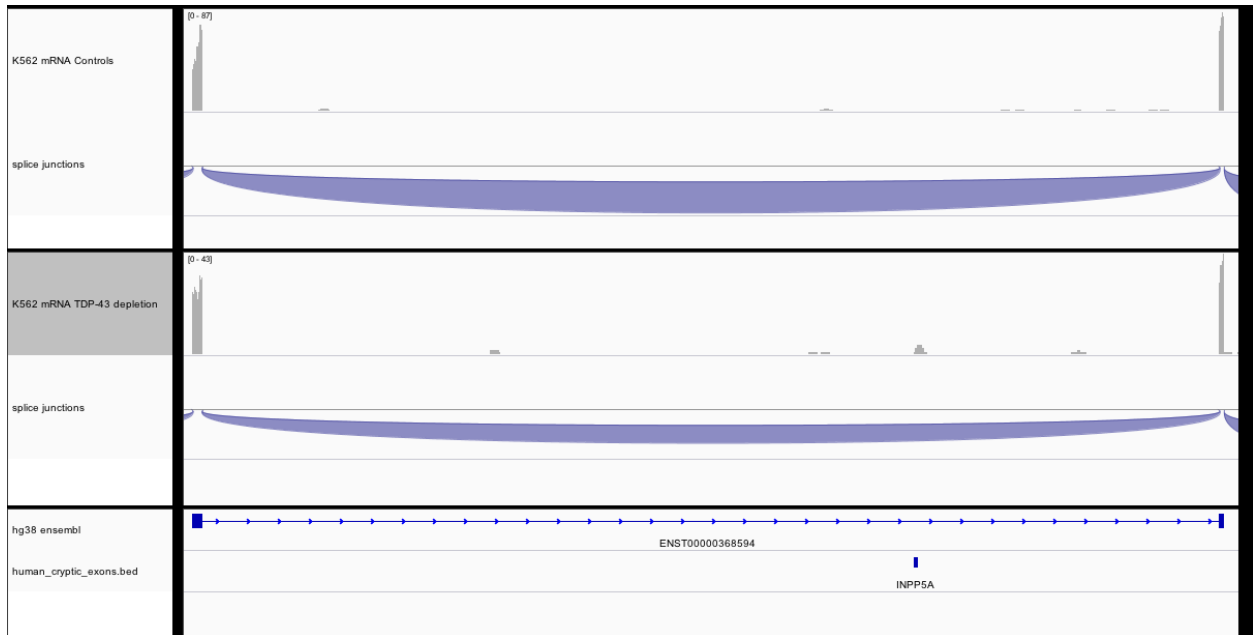


Human K562 total RNA

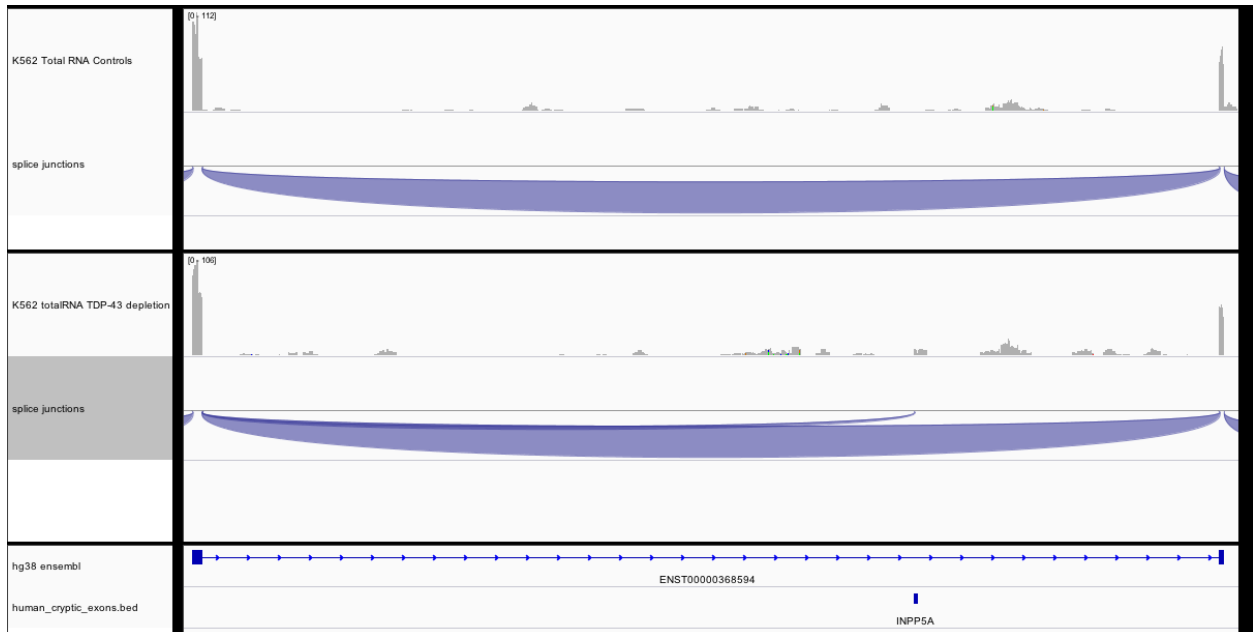


87 INPP5A E009i1

Human K562 mRNA

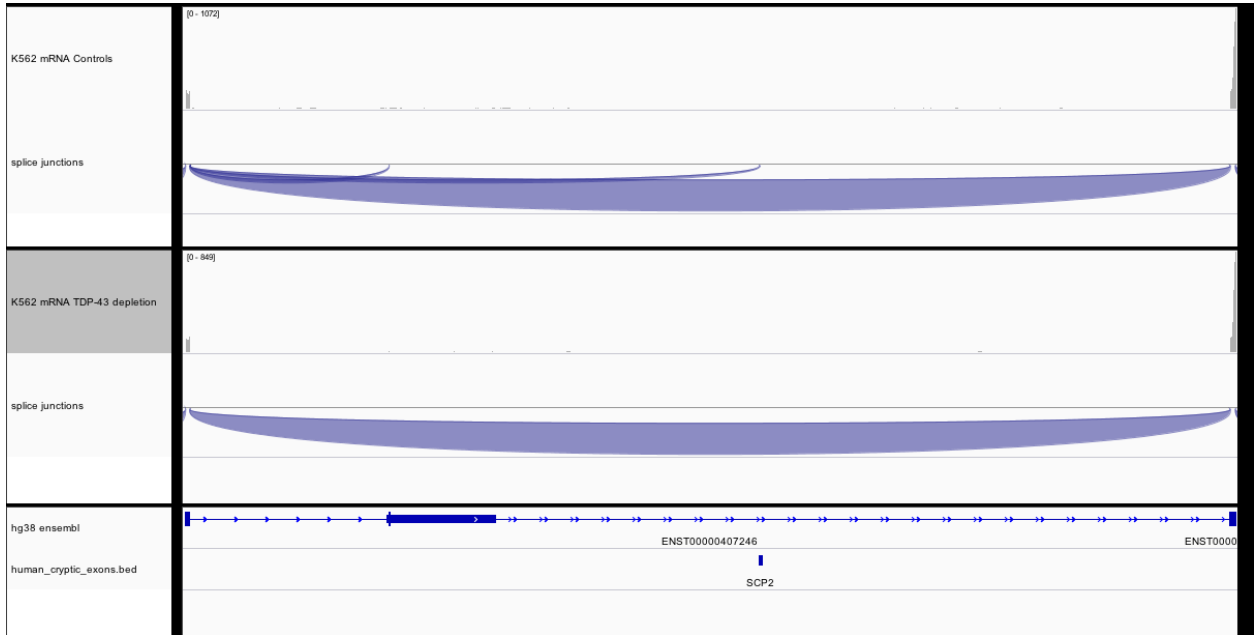


Human K562 total RNA

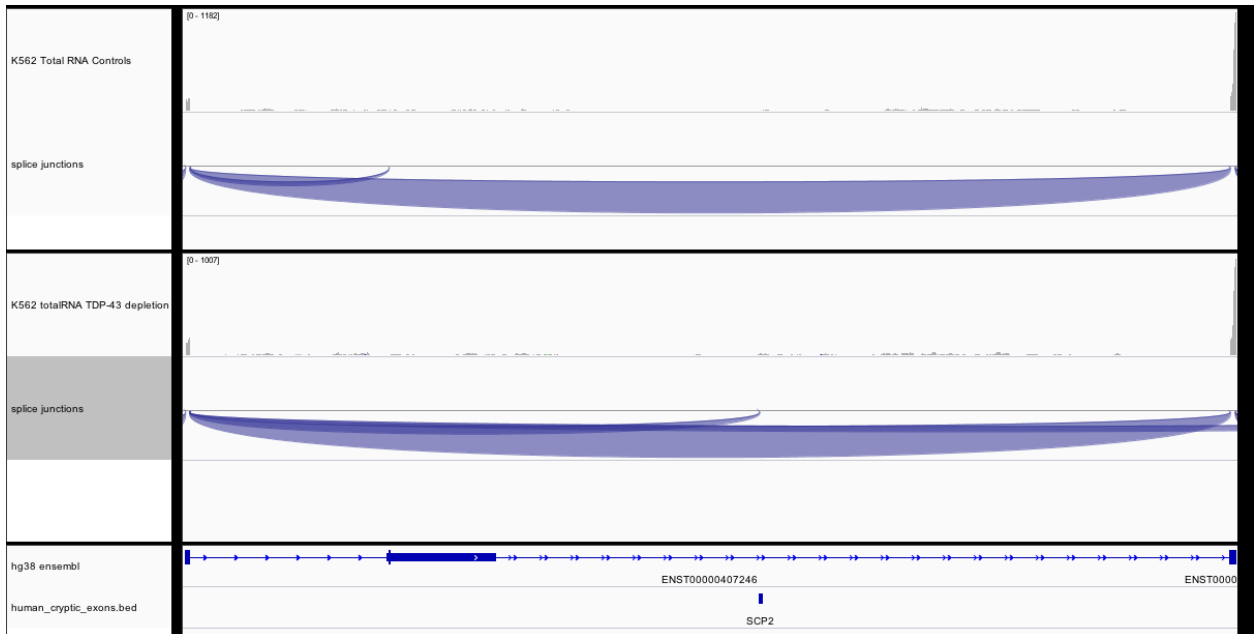


88 SCP2 E024i1

Human K562 mRNA

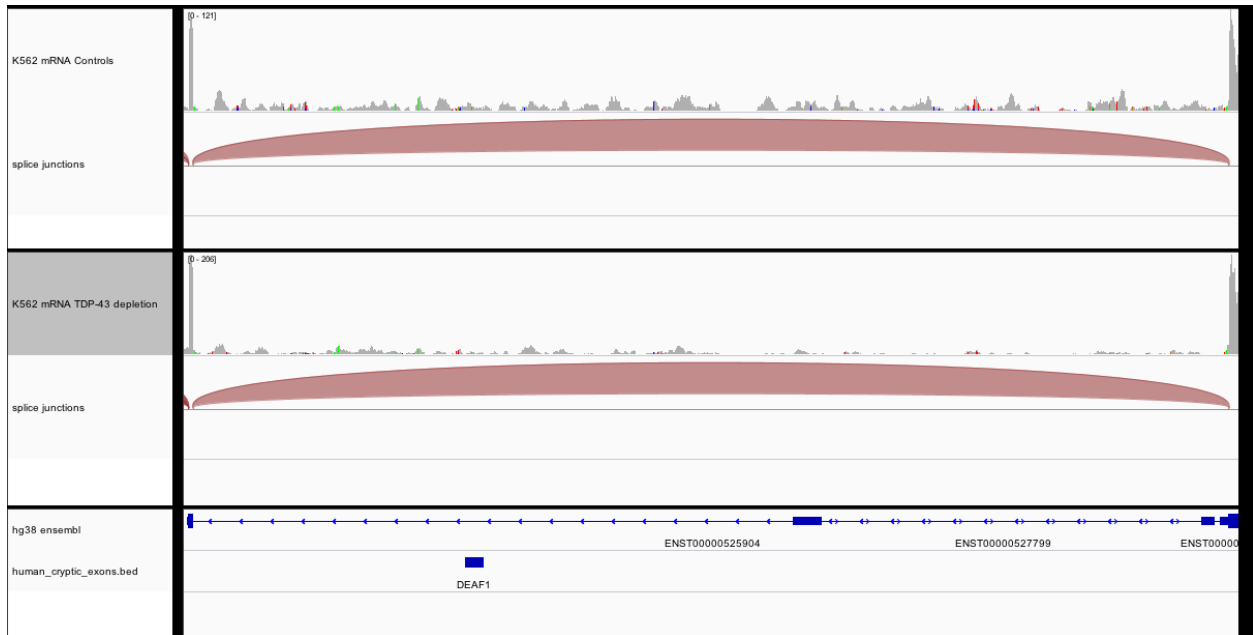


Human K562 total RNA

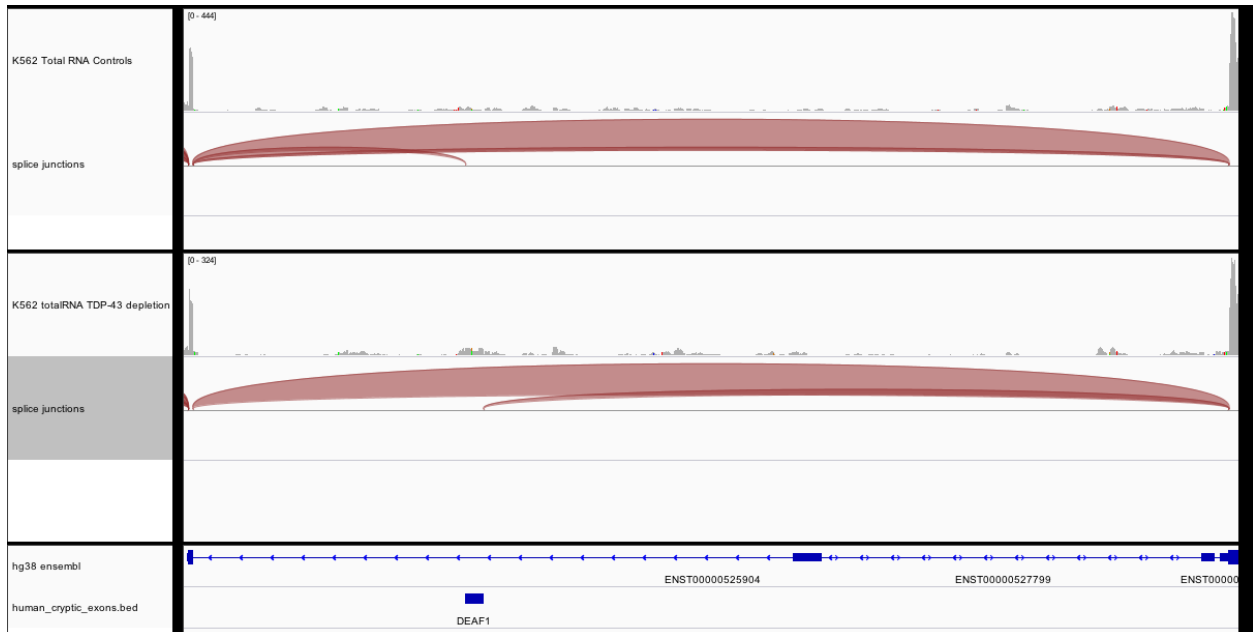


89 DEAF1 E006i2

Human K562 mRNA

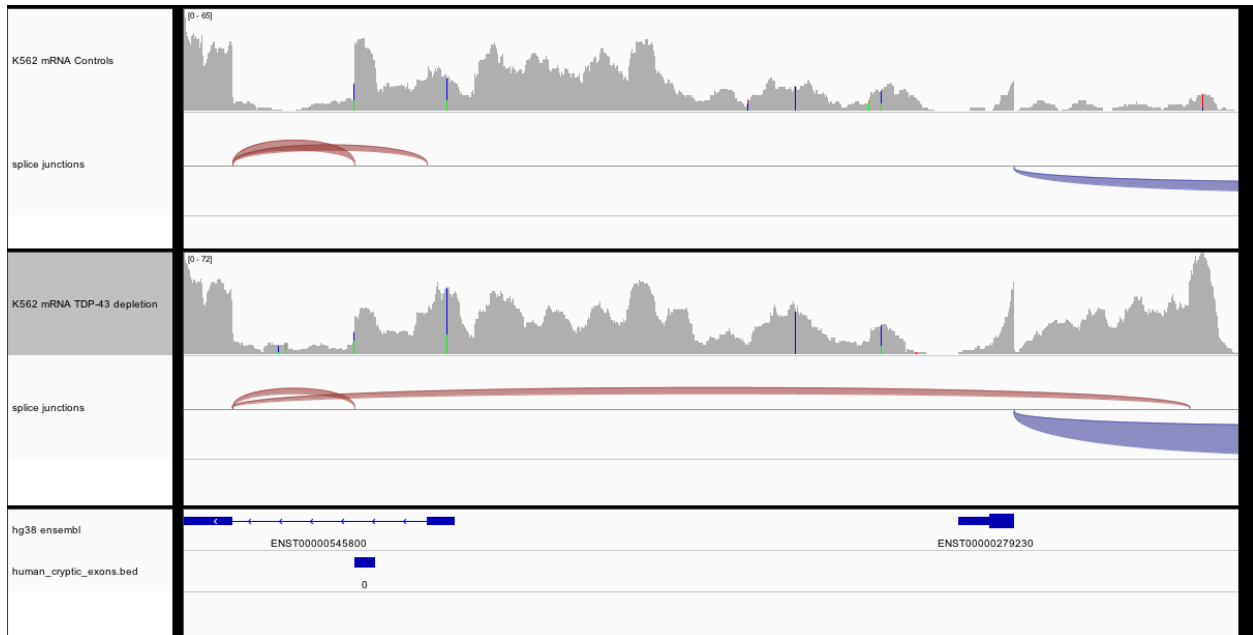


Human K562 total RNA

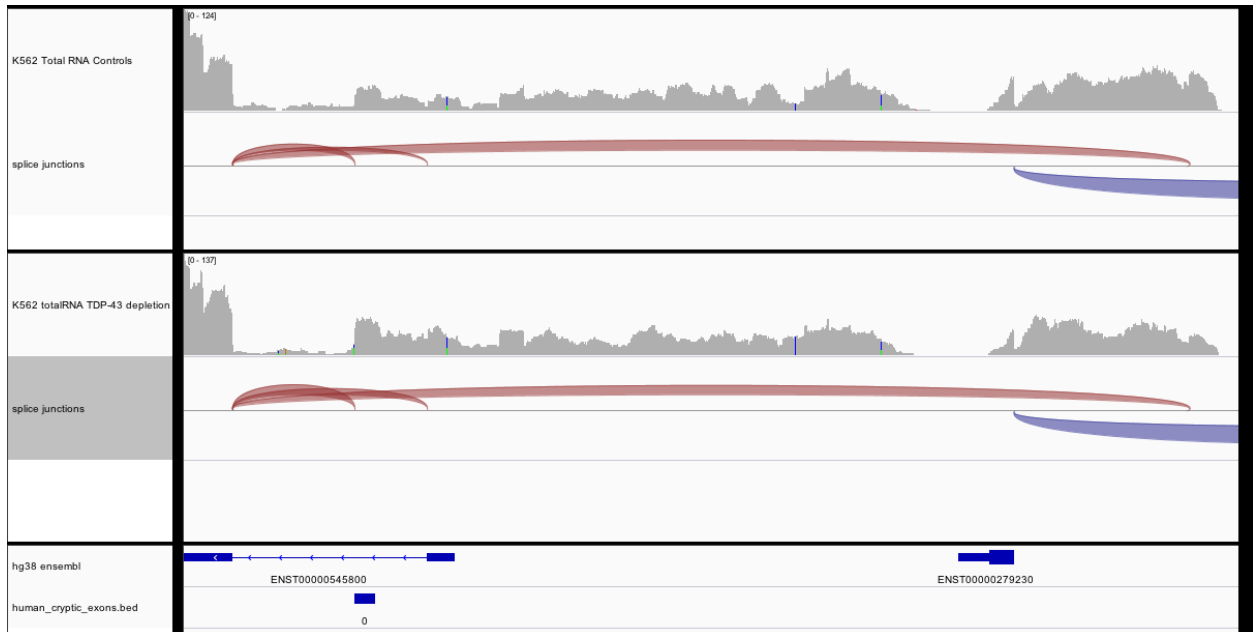


90 0 E012i1

Human K562 mRNA

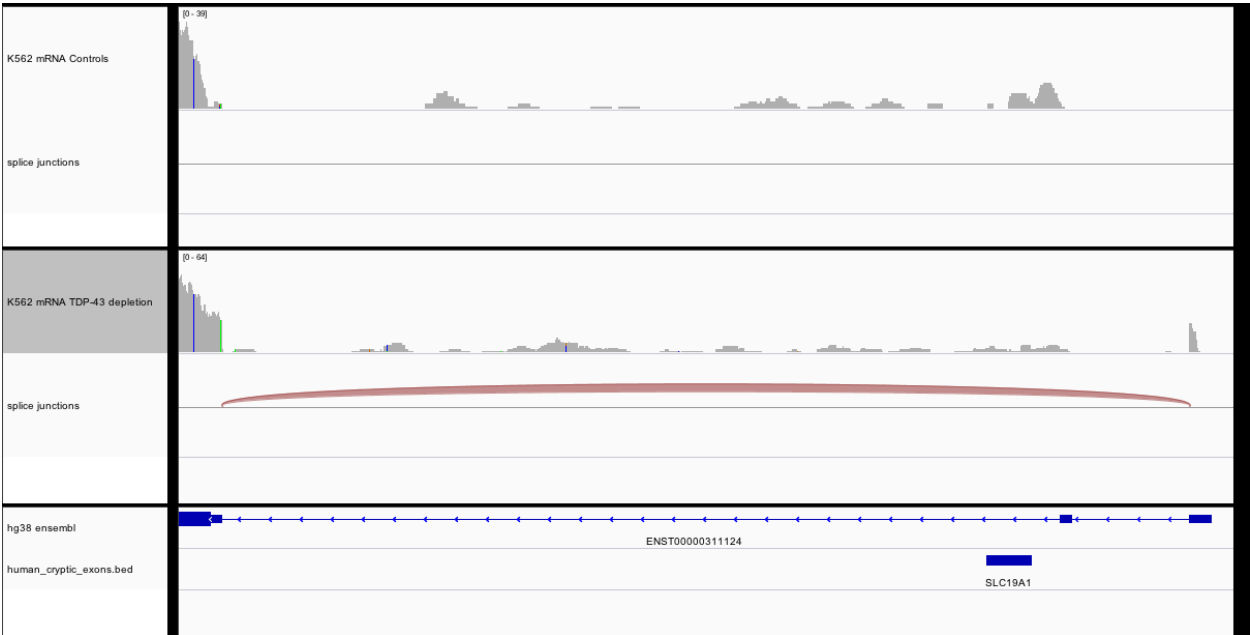


Human K562 total RNA

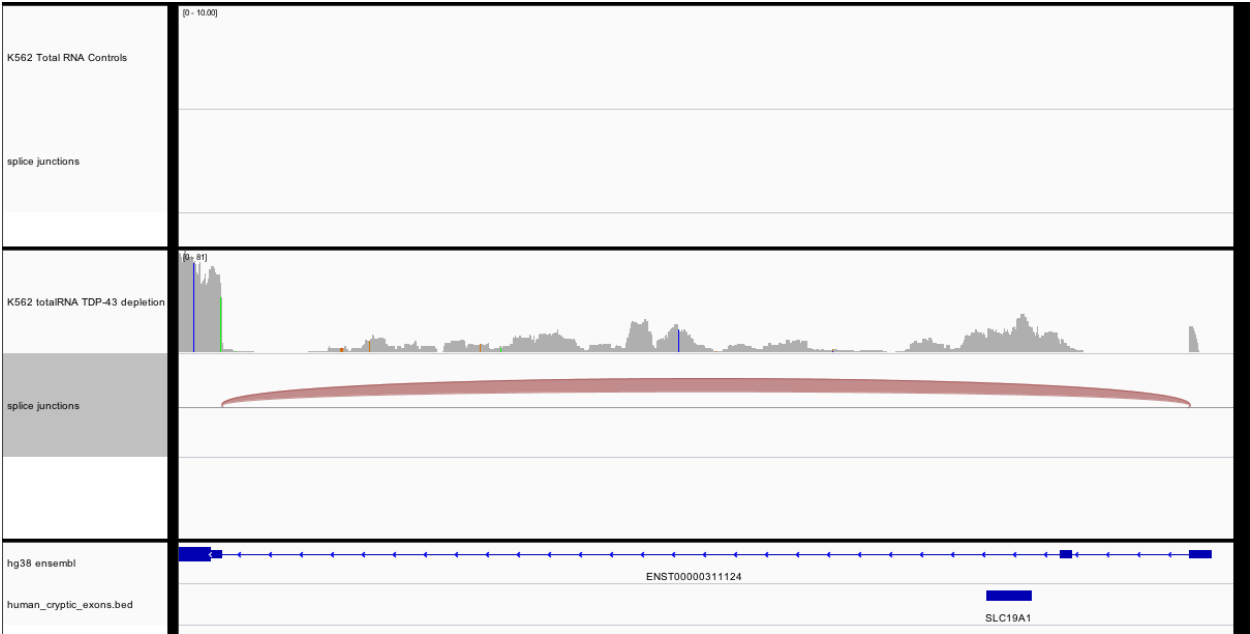


91 SLC19A1 E028i1

Human K562 mRNA

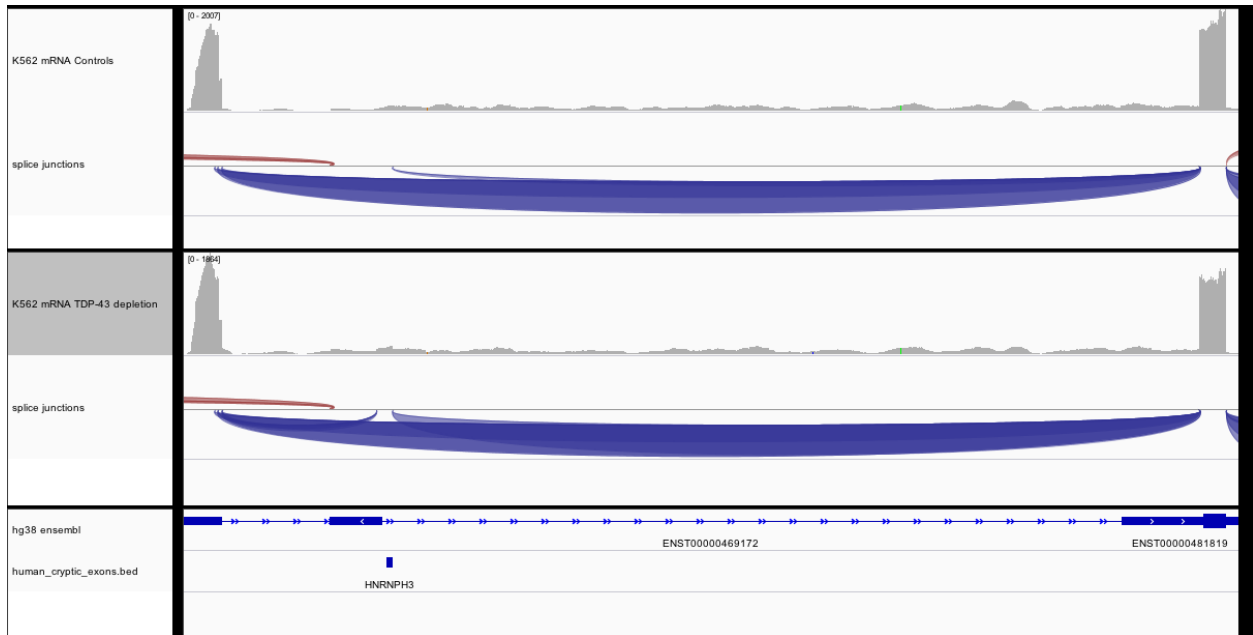


Human K562 total RNA

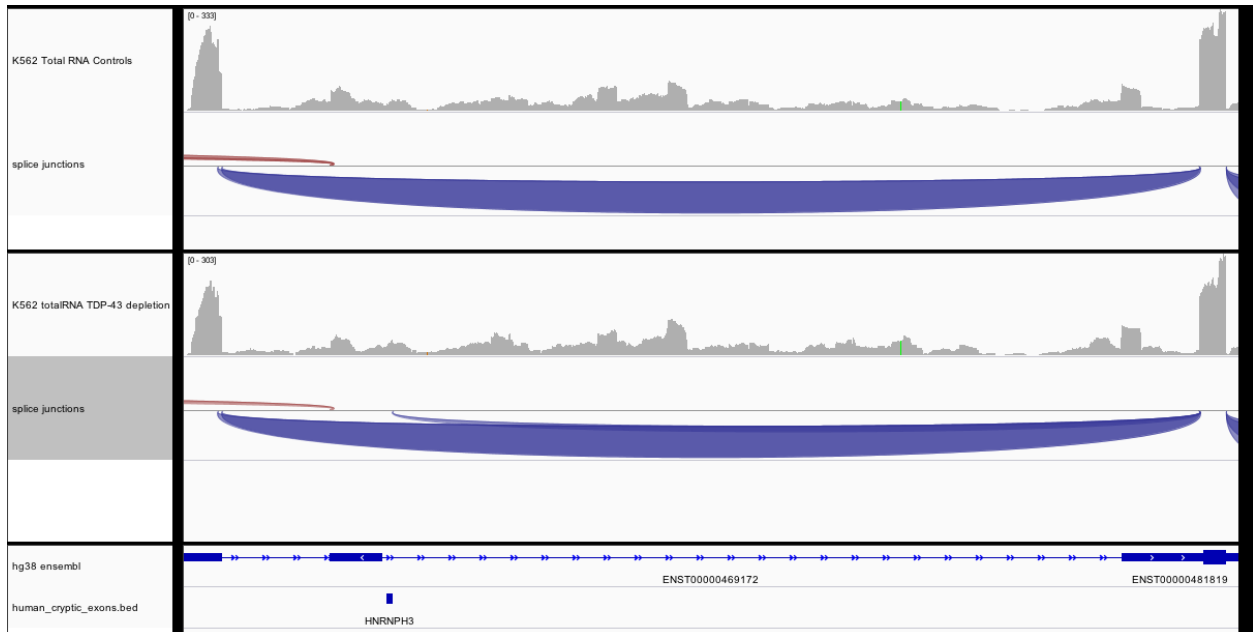


92 HNRNPH3 E009i1

Human K562 mRNA

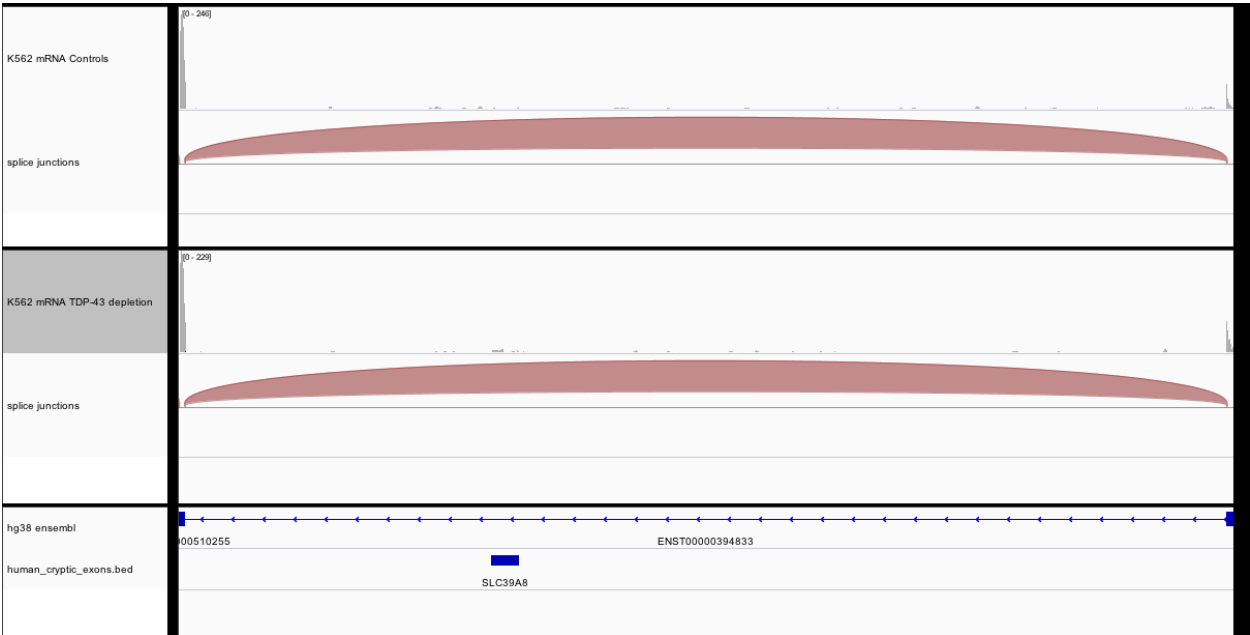


Human K562 total RNA

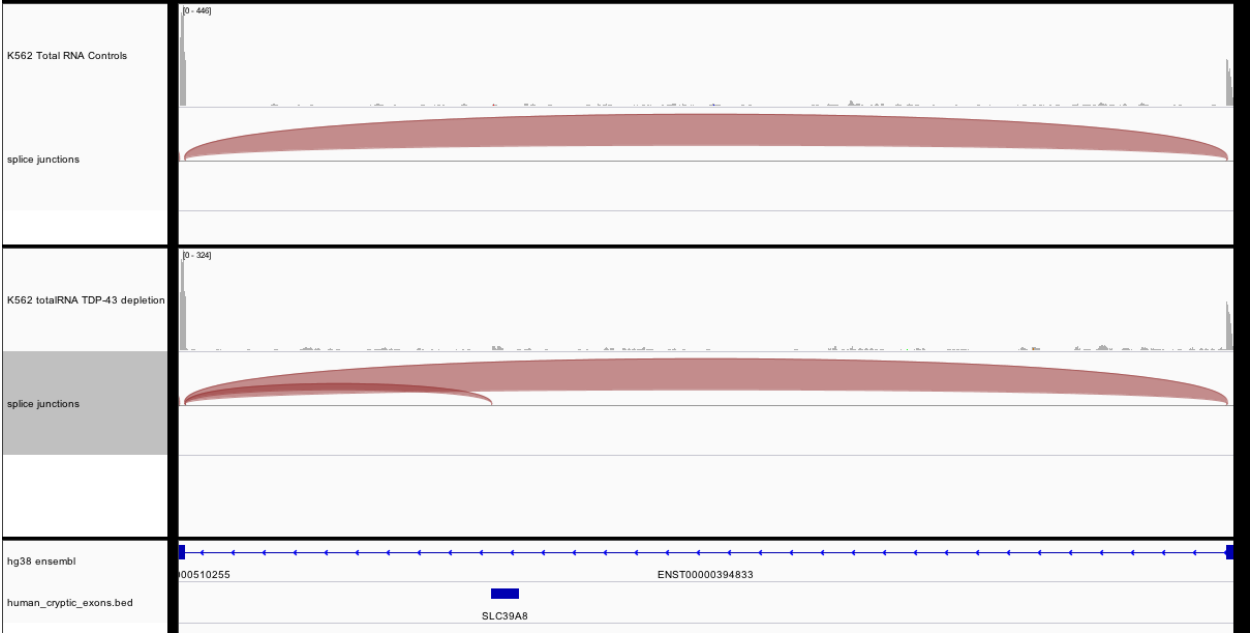


93 SLC39A8 E016i2

Human K562 mRNA

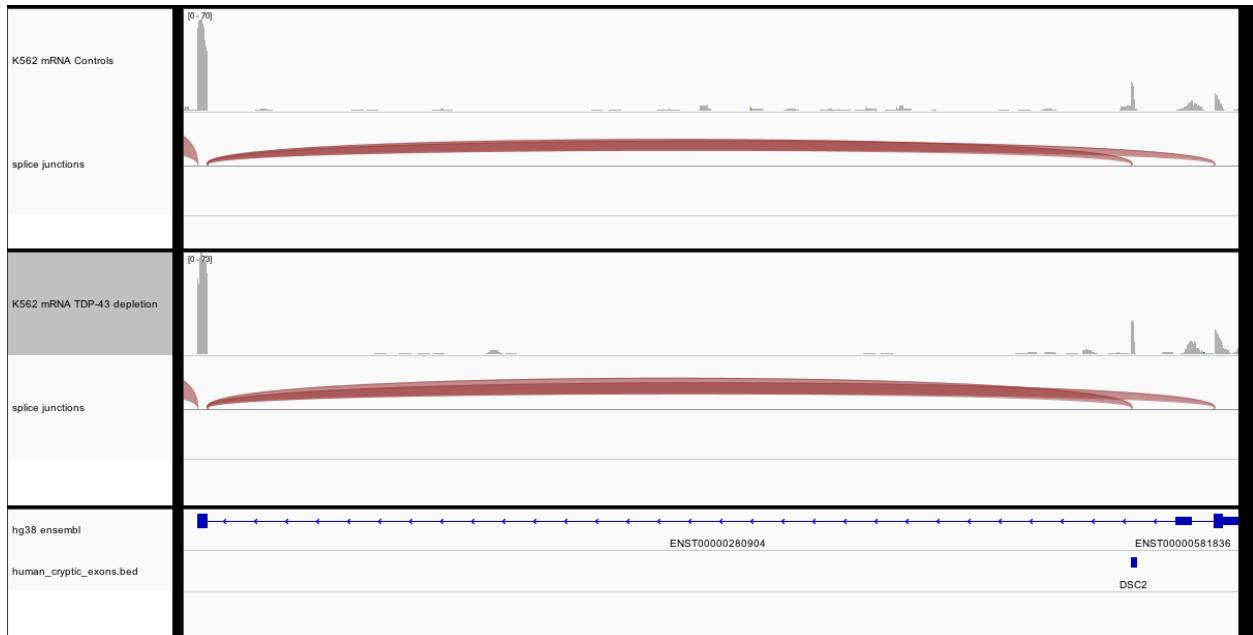


Human K562 total RNA

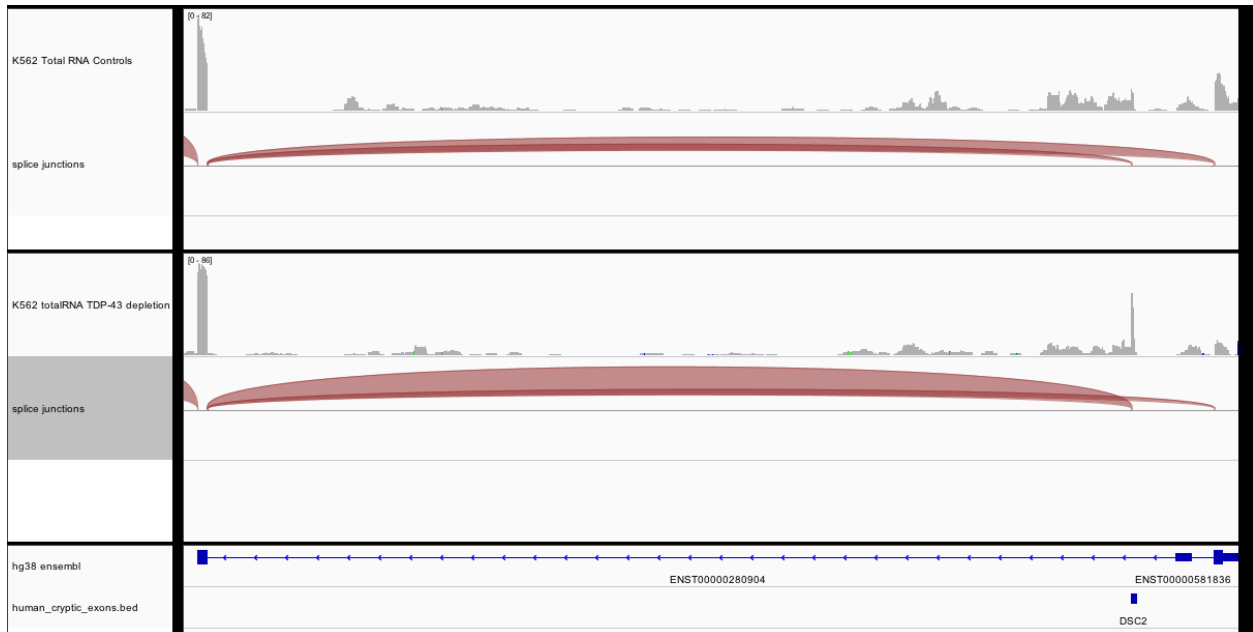


94 DSC2 E017i1

Human K562 mRNA

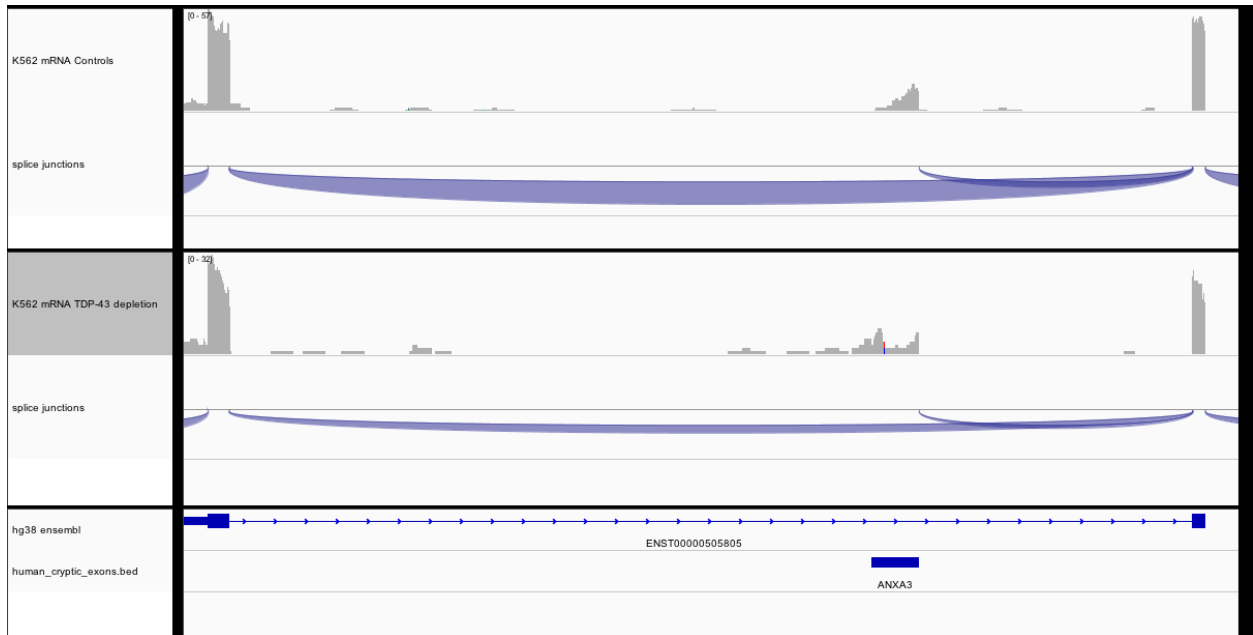


Human K562 total RNA



95 ANXA3 E023i1

Human K562 mRNA



Human K562 total RNA

