SQANTI2 report

Input	flair.collapse.isoforms.gtf	
Annotation	Homo_sapiens.GRCh38.99.gtf	
Genome	Homo_sapiens.GRCh38.dna.primary_assembly.fa	
Aligner	minimap2	
FLCount	NA	
Expression	NA	
Junction	NA	
CagePeak	NA	
PolyA	NA	
PolyAPeak	NA	

7.3.2

False

Version

IsFusion

Unique Genes: 20576 Unique Isoforms: 61069

Gene classification

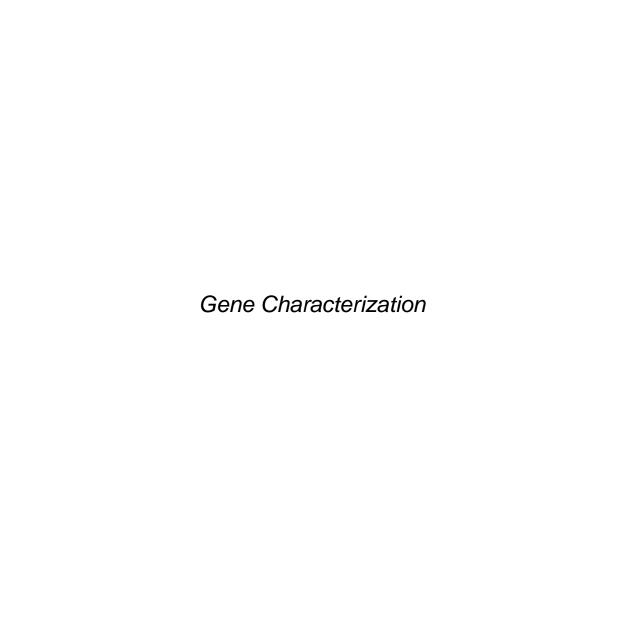
Category	# Genes
Annotated Genes	15306
Novel Genes	5270

Splice Junction Classification

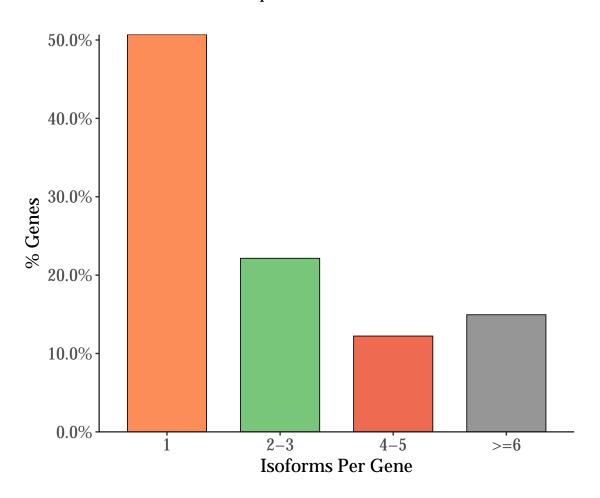
Category	# SJs	Percent
Known canonical	138490	95.32
Known Non-canonical	134	0.09
Novel canonical	6543	4.50
Novel Non-canonical	124	0.09

Characterization of transcripts based on splice junctions

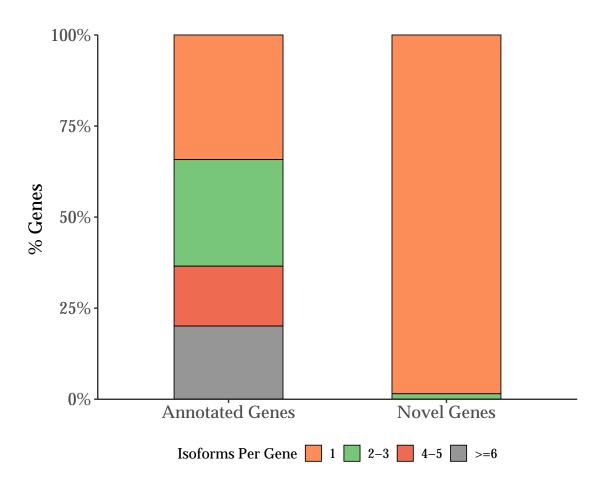
Category	# Isoforms	# Genes
FSM	21173	12513
ISM	4919	3780
NIC	27495	8576
NNC	72	58
Genic Genomic	1546	1437
Antisense	1071	954
Fusion	476	346
Intergenic	4313	4313
Genic Intron	4	4



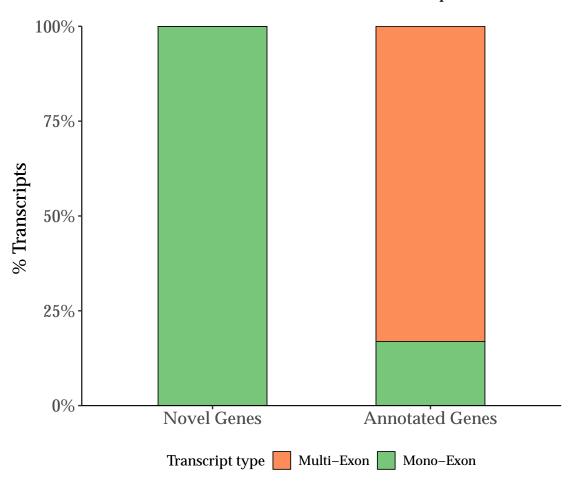
Number of Isoforms per Gene

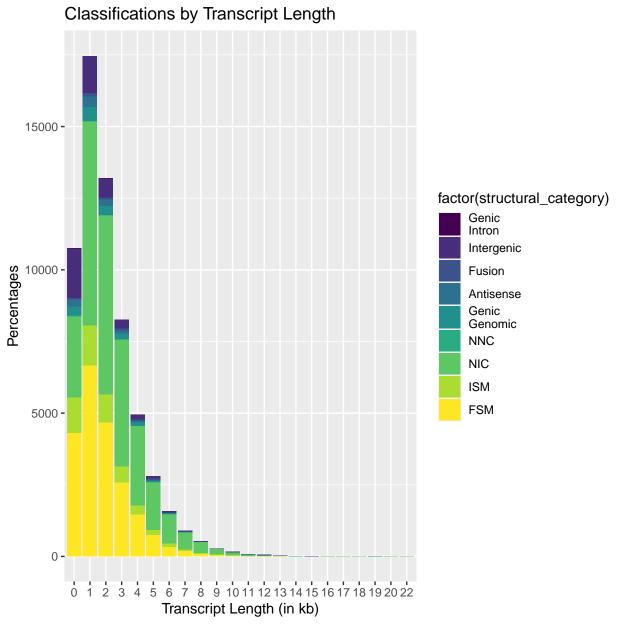


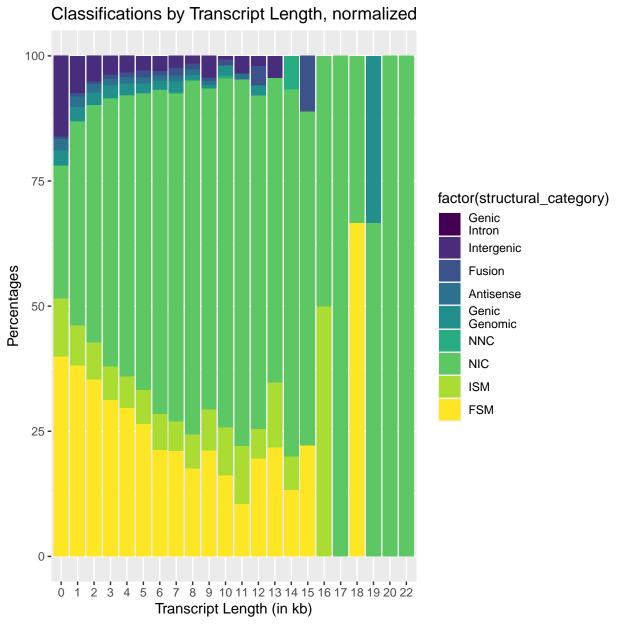
Number of Isoforms per Gene, Novel vs Known Geness

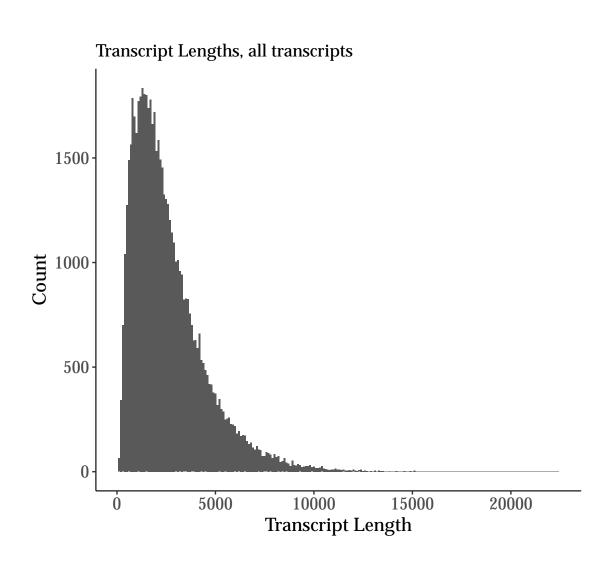


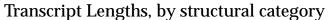
Distribution of Mono- vs Multi-Exon Transcripts

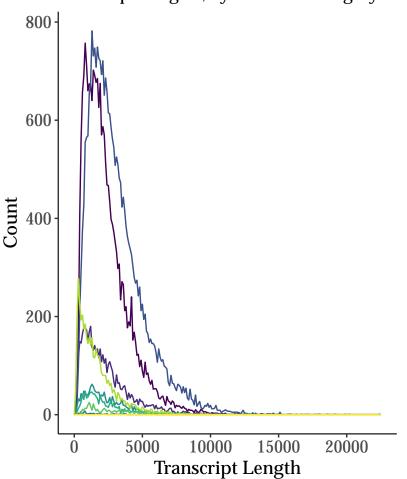






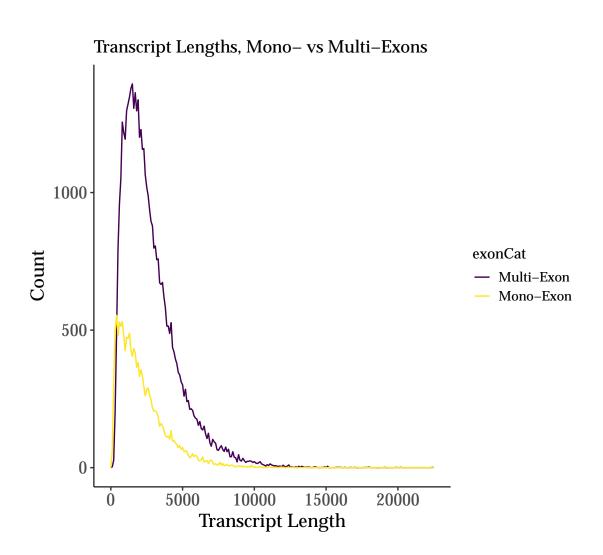






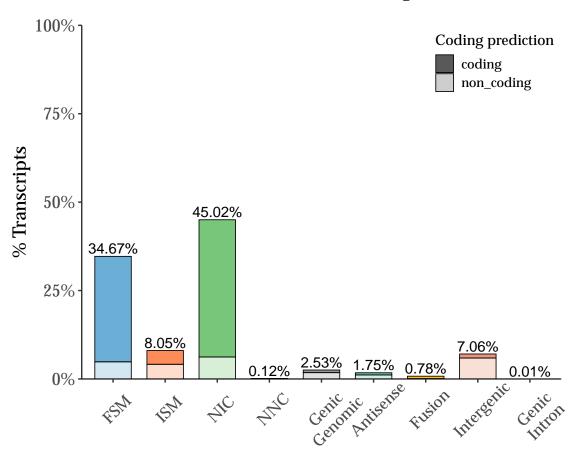
structural_category

- FSM
- ISM
- NIC
- NNC
- __ Genic
- GenomicAntisense
- Fusion
- Intergenic
- _ Genic Intron

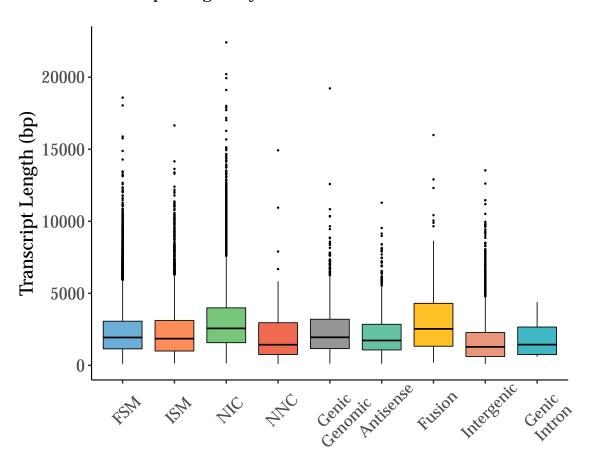


Structural Isoform Characterization by Splice Junctions

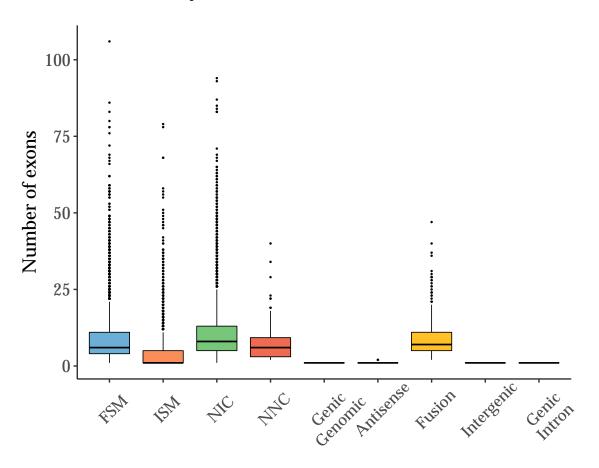
Isoform distribution across structural categories



Transcript Lengths by Structural Classification

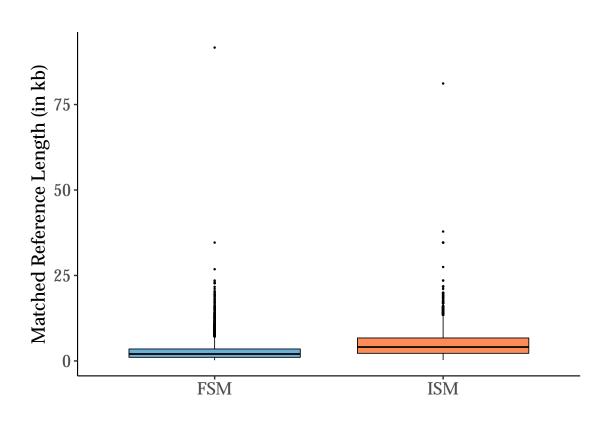


Exon Counts by Structural Classification



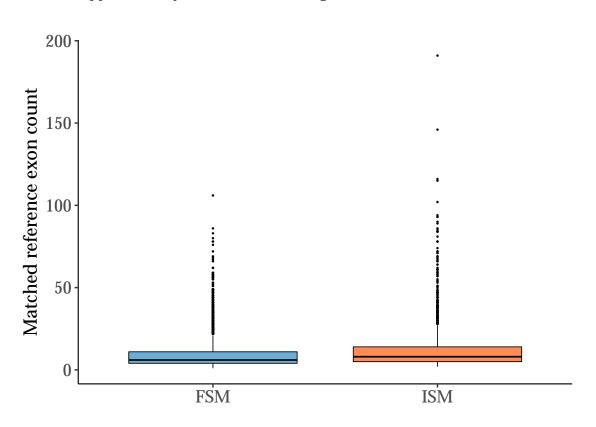
Length Distribution of Matched Reference Transcripts

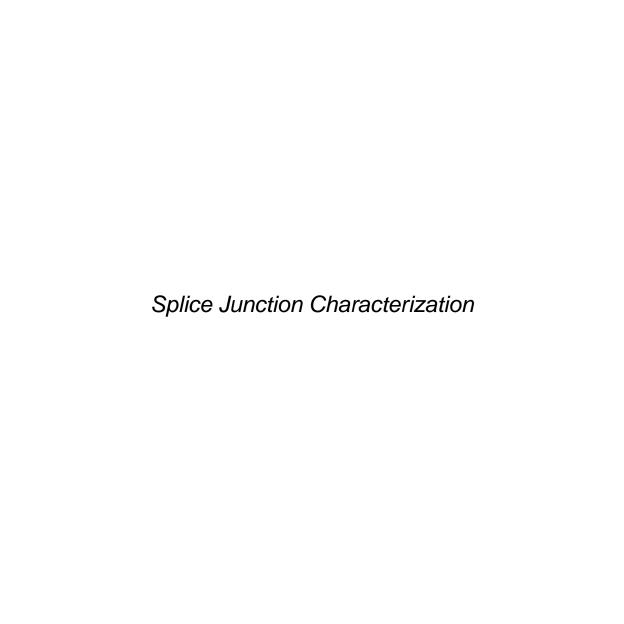
Applicable only to FSM and ISM categories



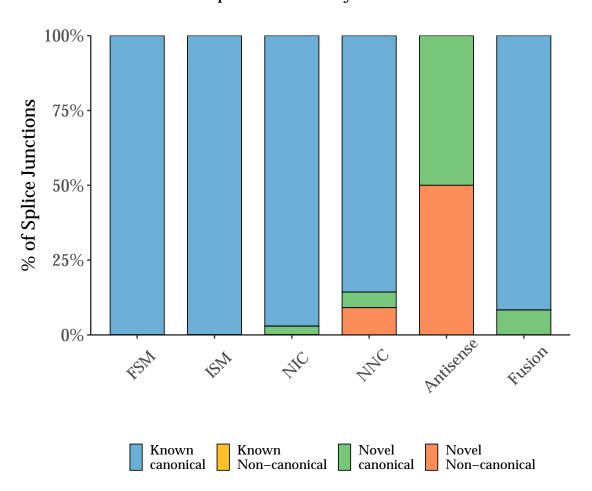
Exon Count Distribution of Matched Reference Transcripts

Applicable only to FSM and ISM categories

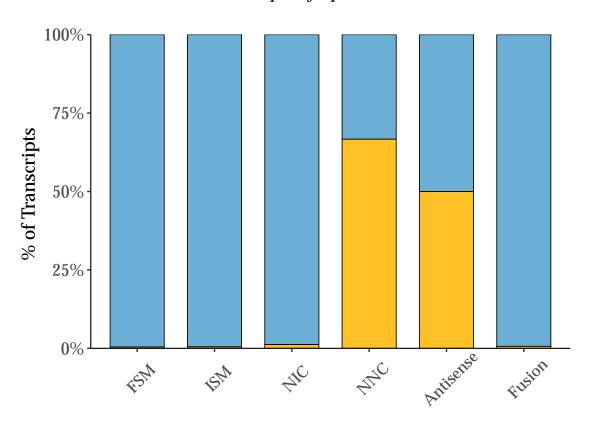




Distribution of Splice Junctions by Structural Classification

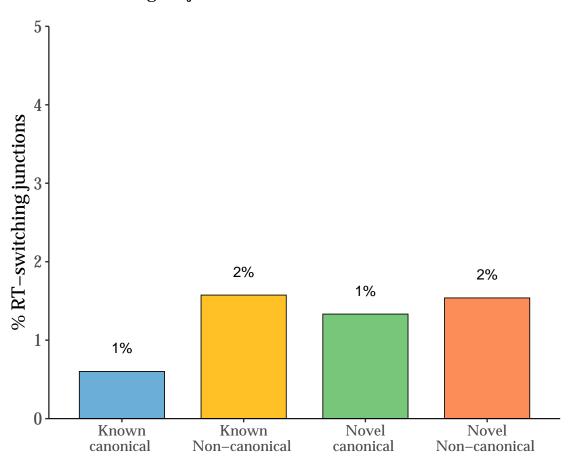


Distribution of Transcripts by Splice Junctions

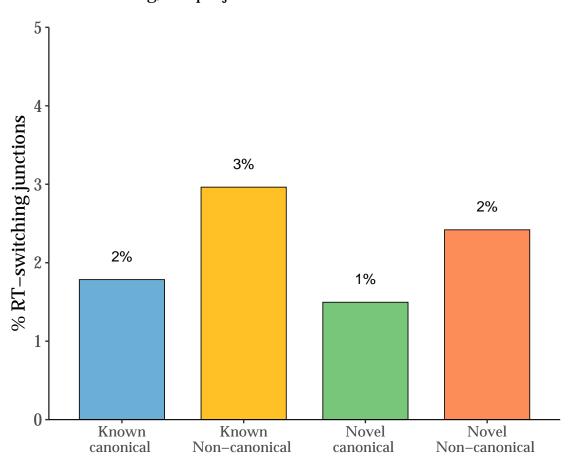


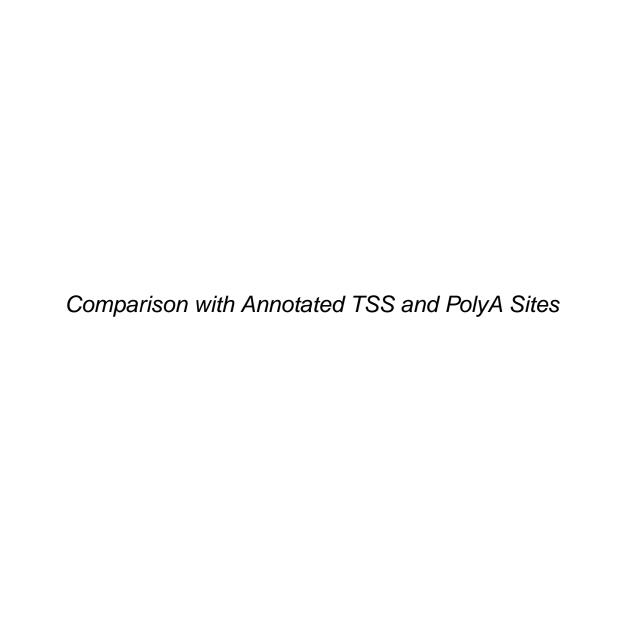
anonical non_canonical

RT-switching, all junctions



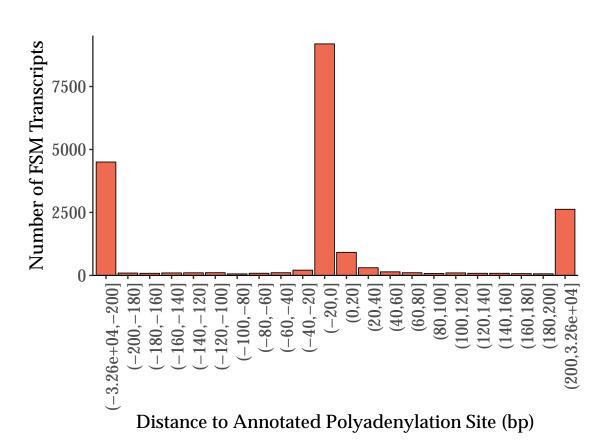
RT-switching, unique junctions





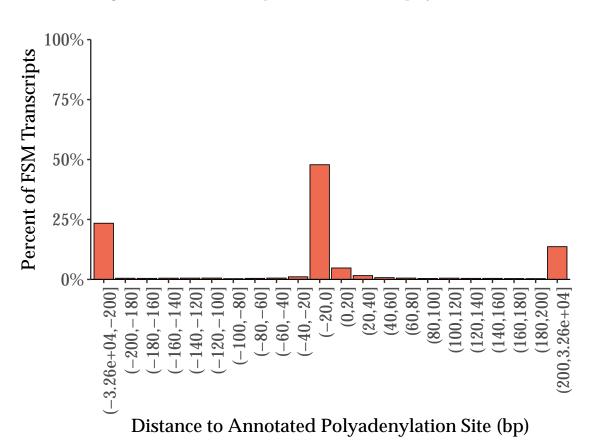
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



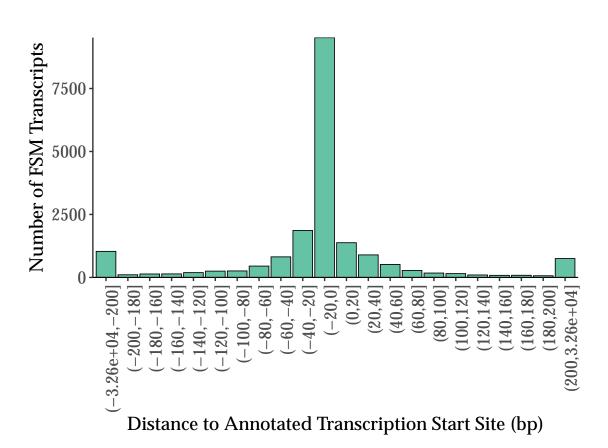
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



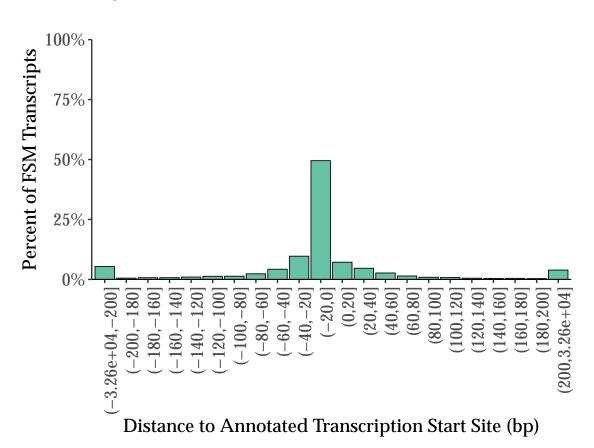
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



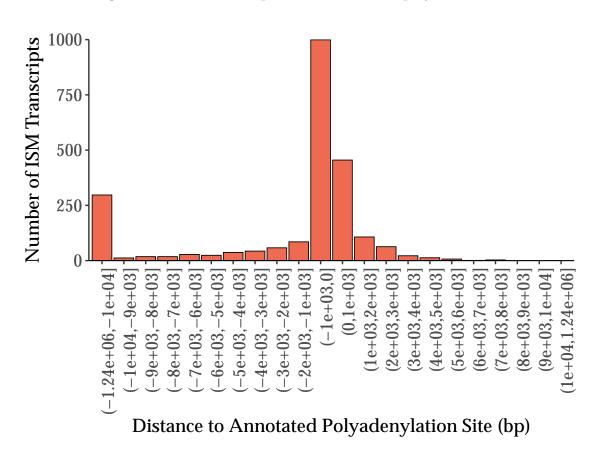
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



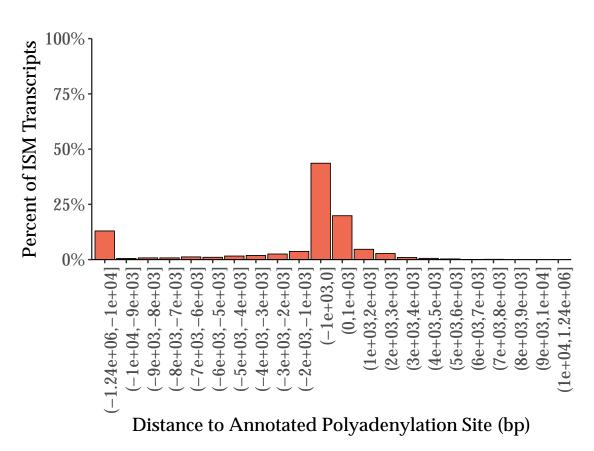
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



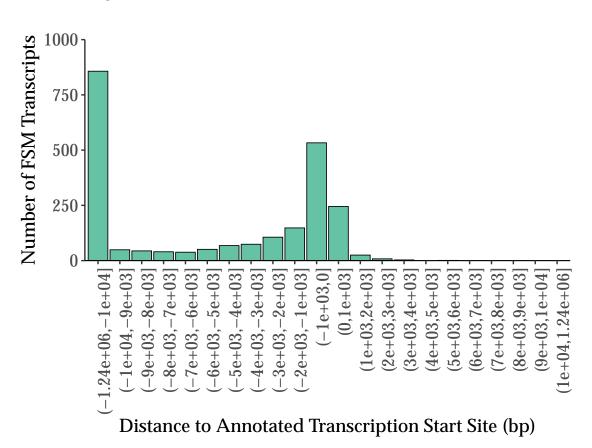
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



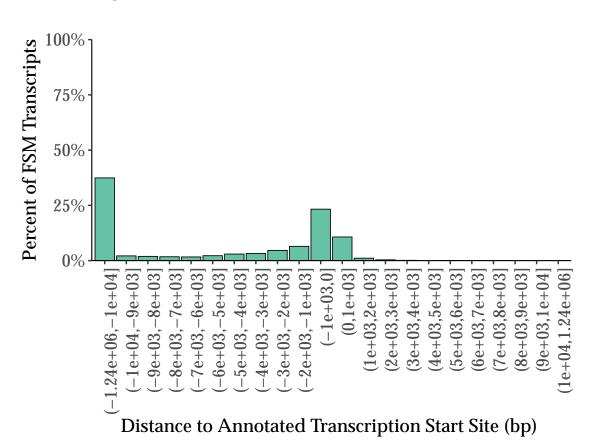
Distance to Annotated Transcription Start Site, ISM only

Negative values indicate downstream of annotated TSS



Distance to Annotated Transcription Start Site, ISM only

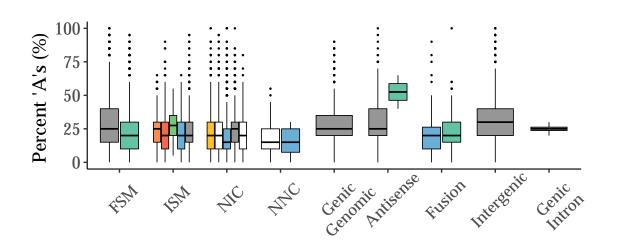
Negative values indicate downstream of annotated TSS

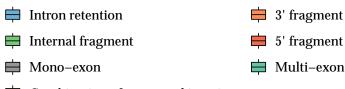




Possible Intra-Priming by Structural Category

Percent of genomic 'A's in downstream 20 bp

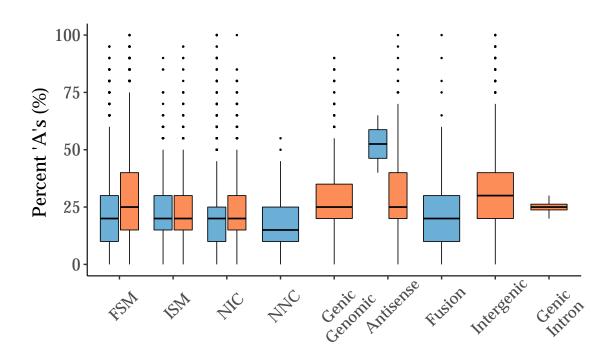




E Combination of annotated junctions

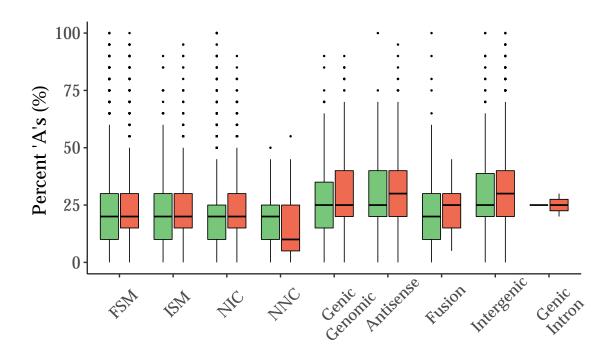
Possible Intra-Priming, Mono- vs Multi-Exon

Percent of genomic 'A's in downstream 20 bp



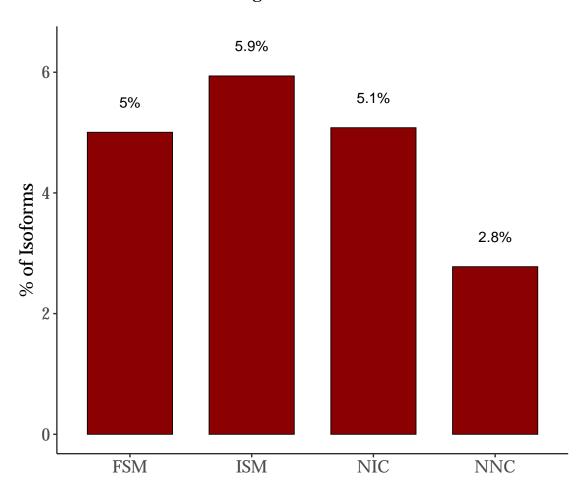
Possible Intra-Priming, Coding vs Non-Coding

Percent of genomic 'A's in downstream 20 bp





Incidence of RT-switching



Incidence of Non-Canonical Junctions

