SQANTI3 report

Unique Genes: 12925 Unique Isoforms: 76071

Gene classification

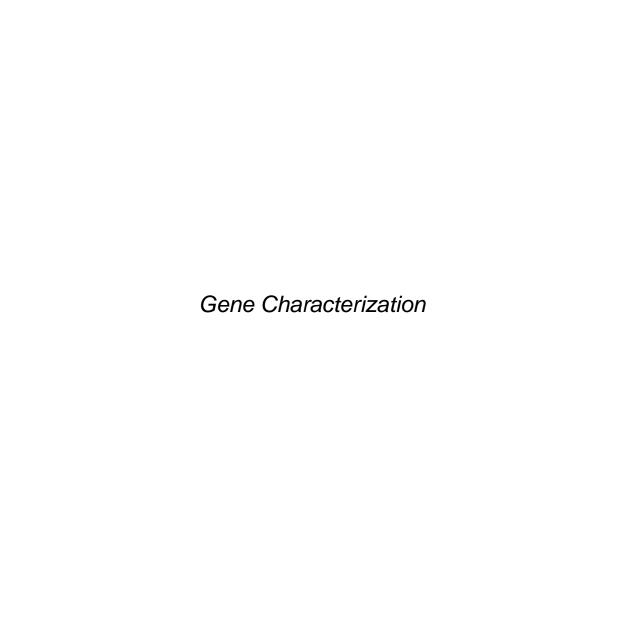
Category	# Genes
Annotated Genes	12018
Novel Genes	907

Splice Junction Classification

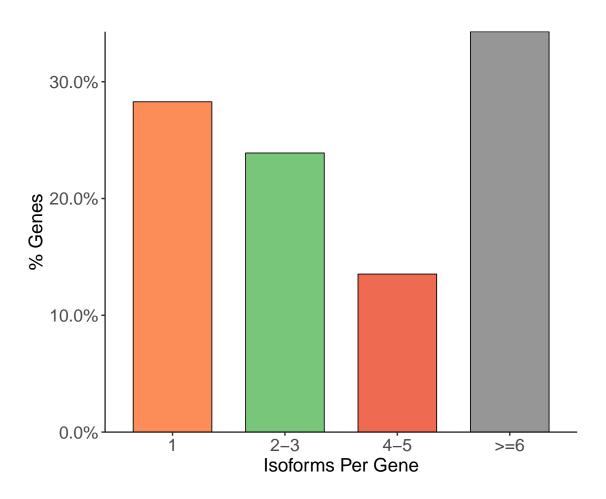
Category	# SJs	Percent
Known canonical	117293	81.41
Known Non-canonical	61	0.04
Novel canonical	26714	18.54
Novel Non-canonical	9	0.01

Characterization of transcripts based on splice junctions

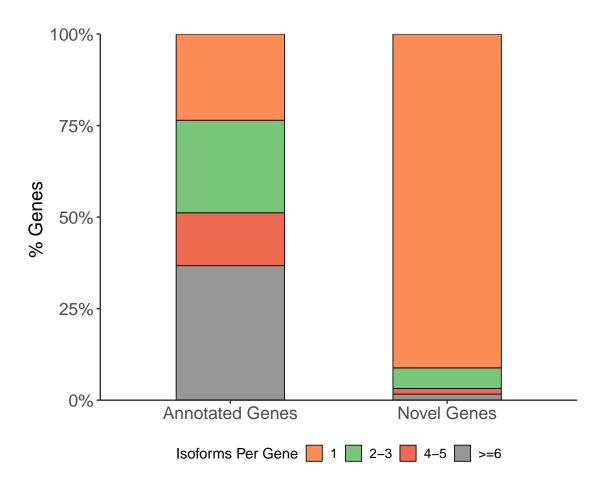
Category	# Isoforms
FSM	21131
ISM	8777
NIC	20769
NNC	23161
Genic	87
Genomic	01
Antisense	489
Fusion	1021
Intergenic	636
Genic	0
Intron	



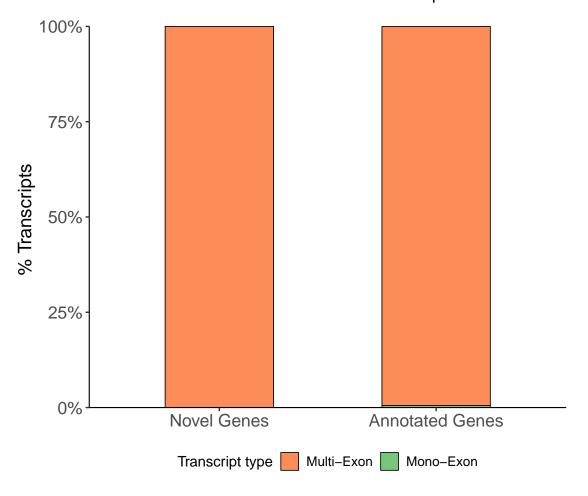
Number of Isoforms per Gene

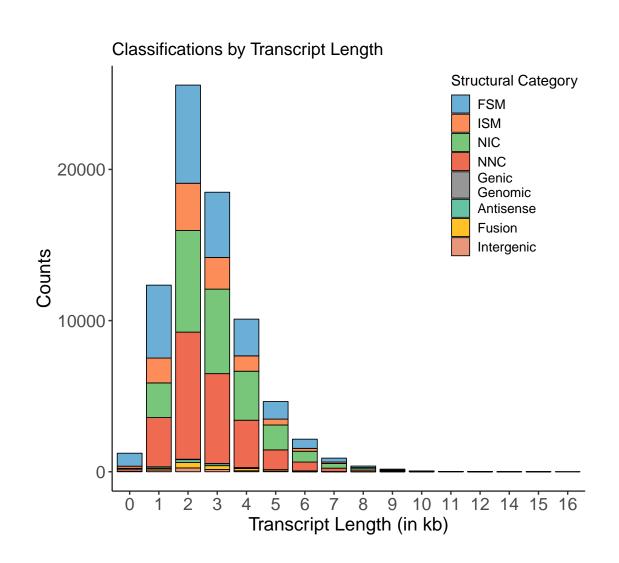


Number of Isoforms per Gene, Known vs Novel Genes

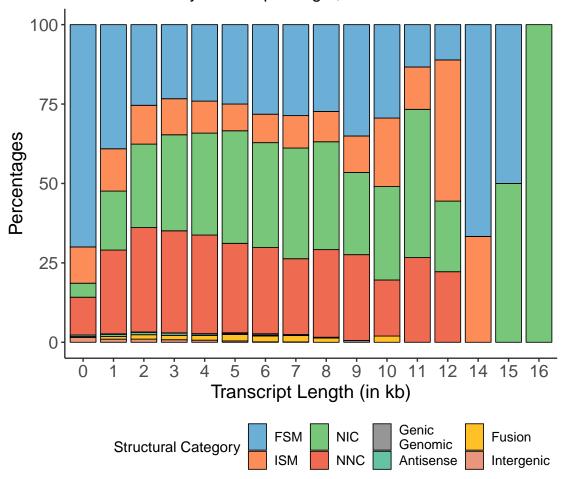


Distribution of Mono- vs Multi-Exon Transcripts

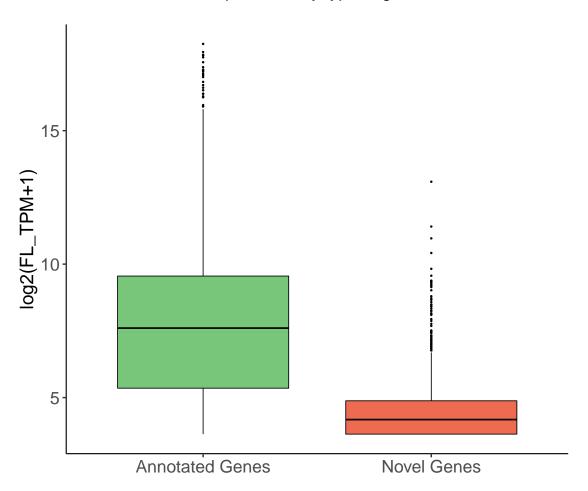


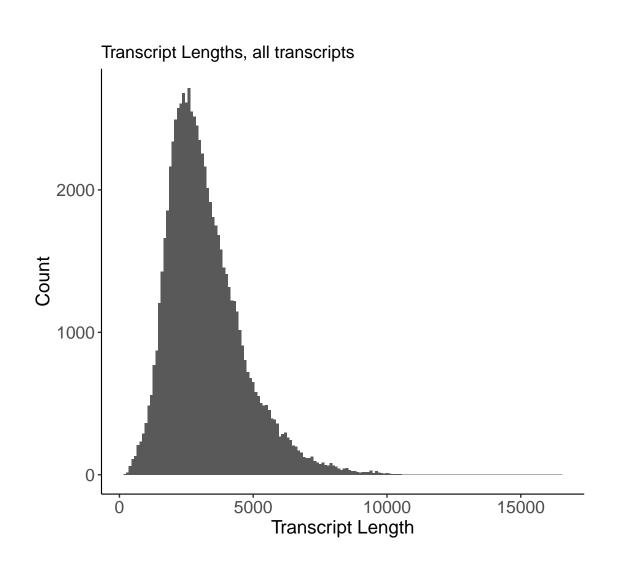


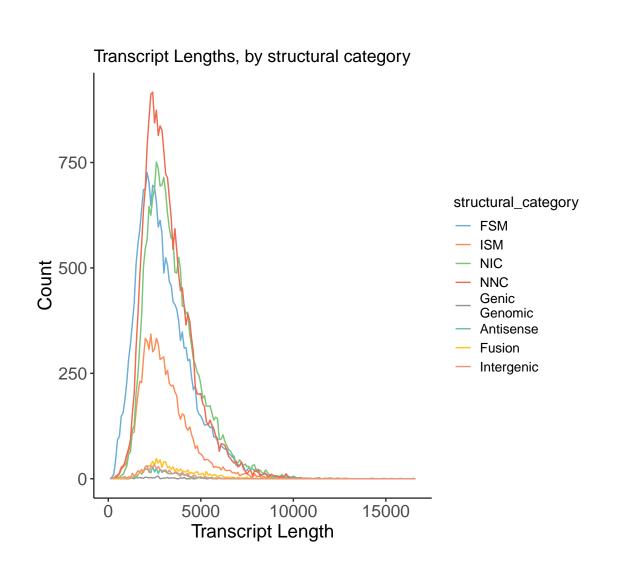


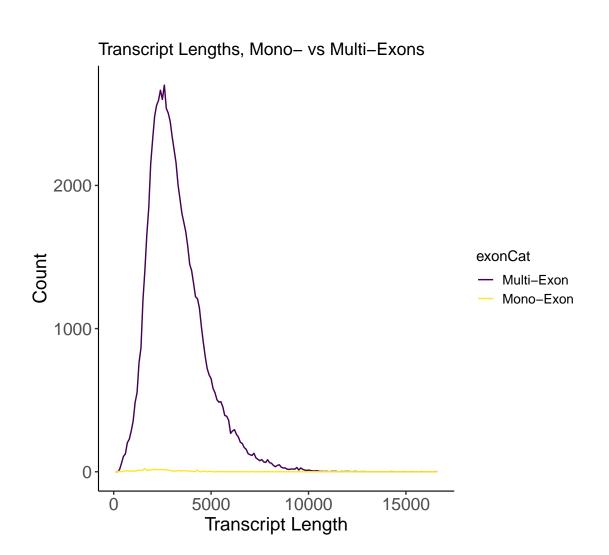


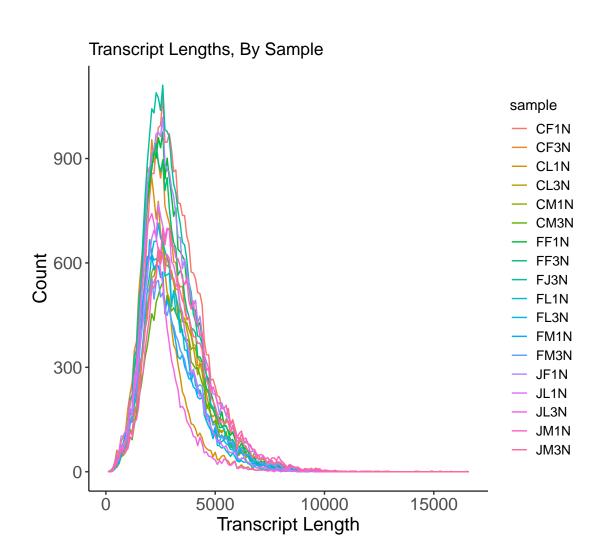
Number of FL reads per Gene by type of gene annotation

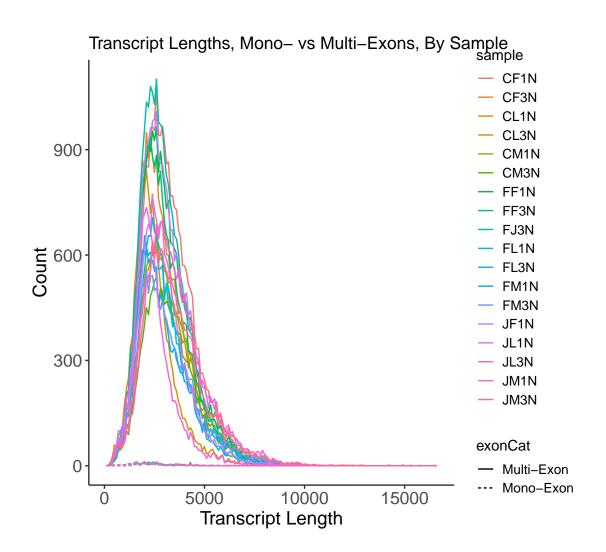






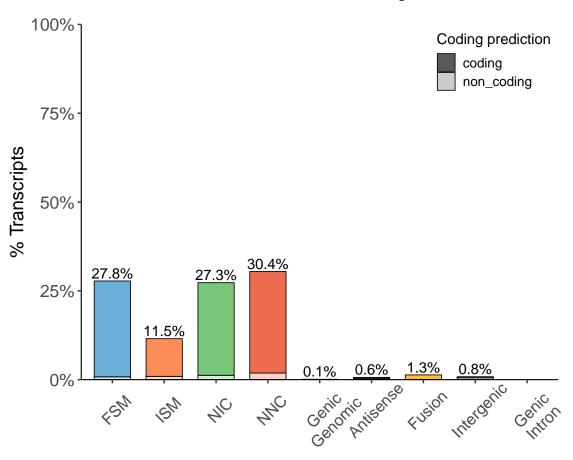




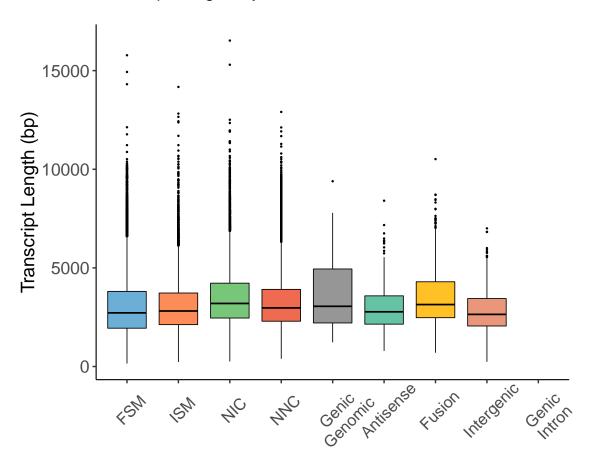


Structural Isoform Characterization by Splice Junctions

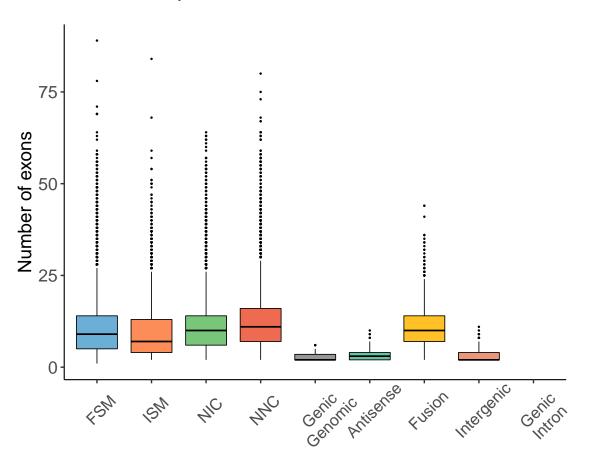
Isoform distribution across structural categories



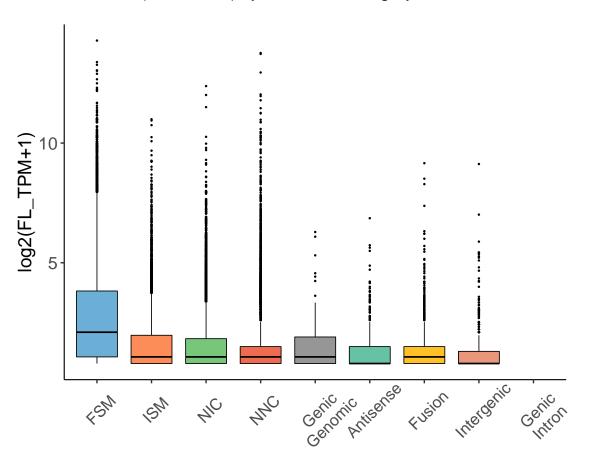
Transcript Lengths by Structural Classification



Exon Counts by Structural Classification

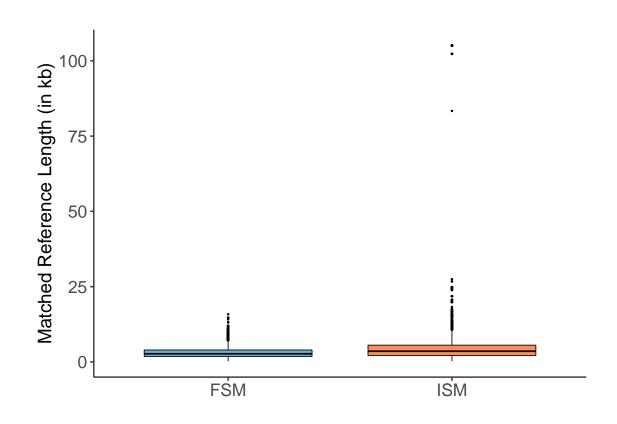


FL Count (normalized) by Structural Category



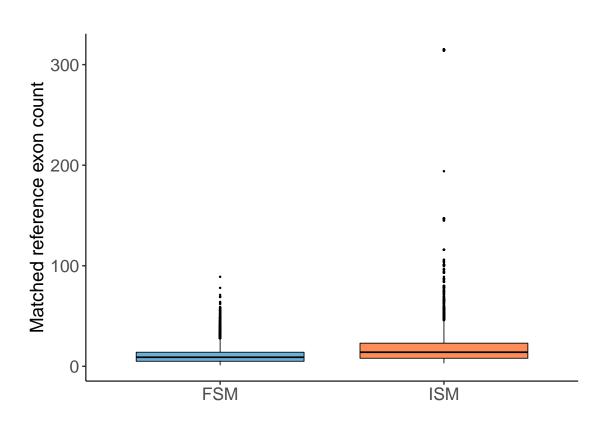
Length Distribution of Matched Reference Transcripts

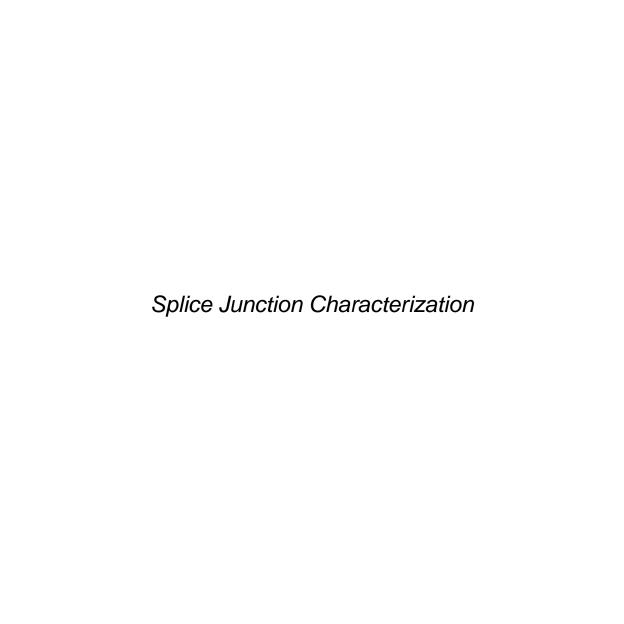
Applicable only to FSM and ISM categories



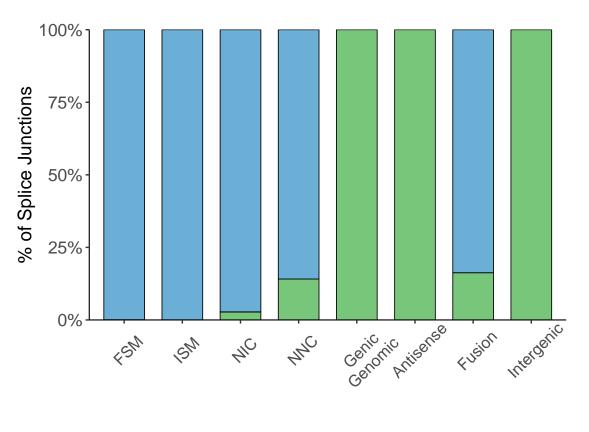
Exon Count Distribution of Matched Reference Transcripts

Applicable only to FSM and ISM categories



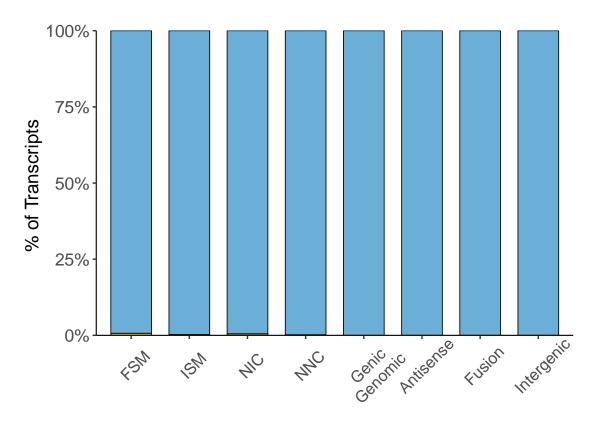


Distribution of Splice Junctions by Structural Classification

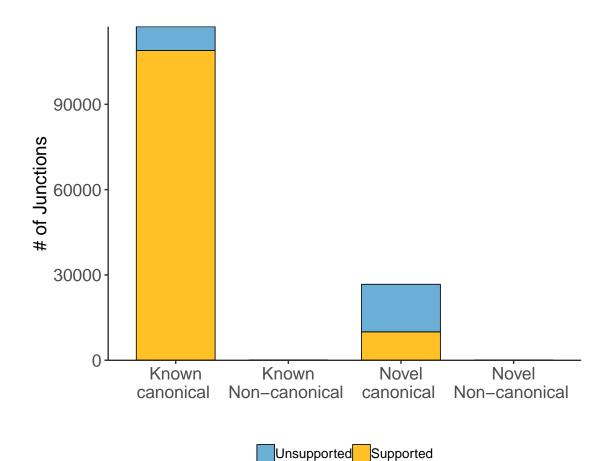




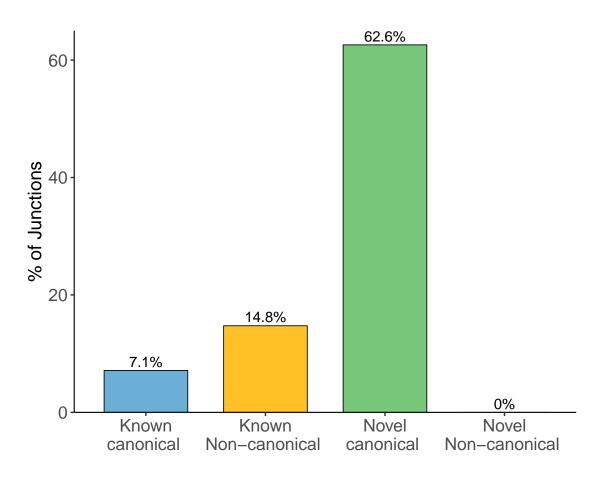
Distribution of Transcripts by Splice Junctions



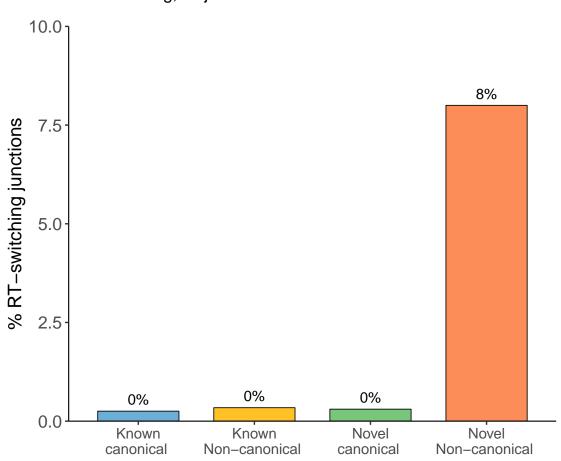
Unique junctions w/ or w/out short read coverage



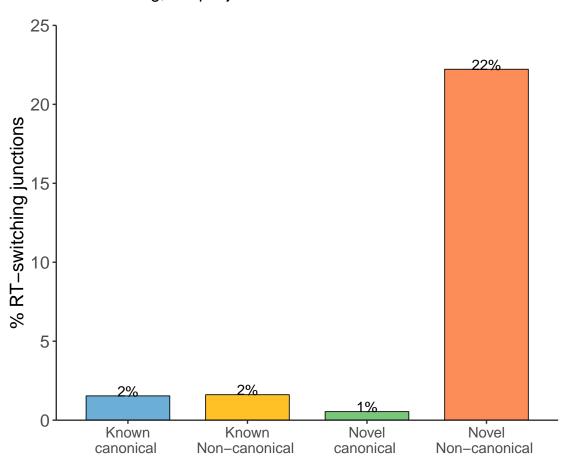
Unique junctions w/out short read coverage (percentage)

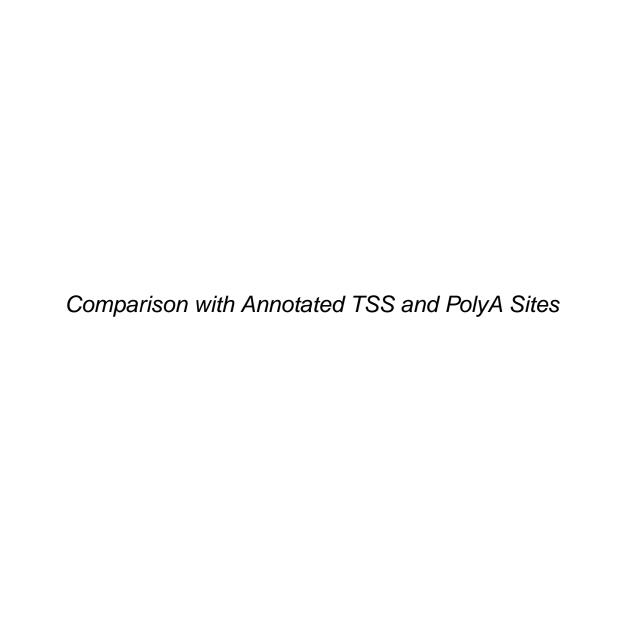


RT-switching, all junctions



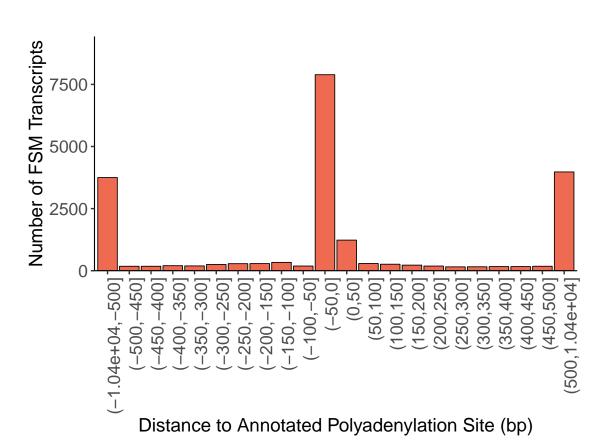
RT-switching, unique junctions





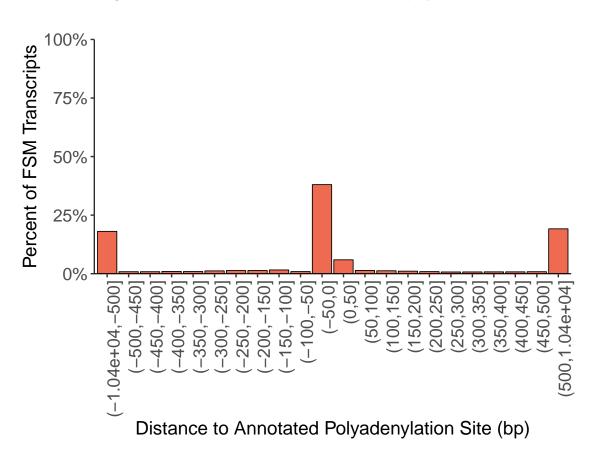
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



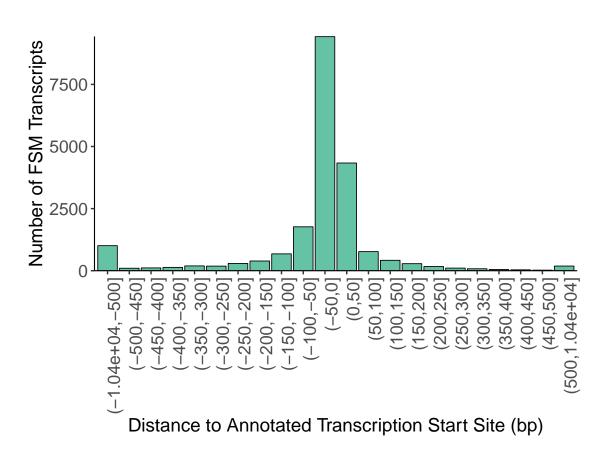
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



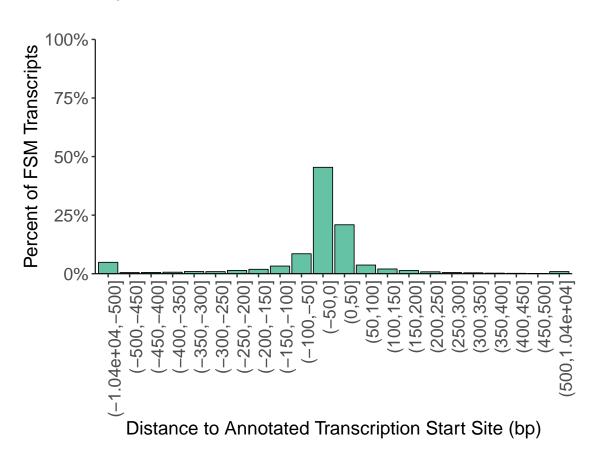
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



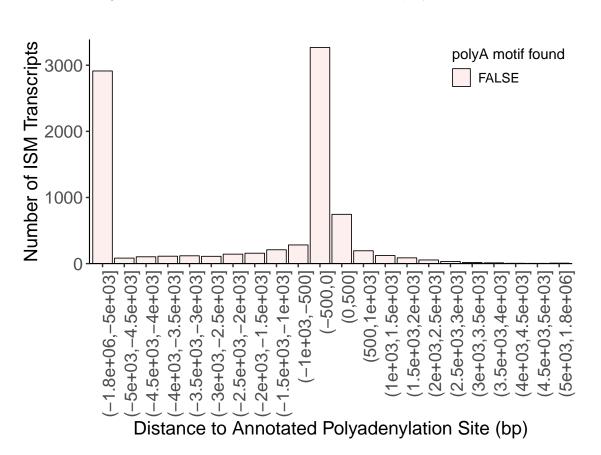
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



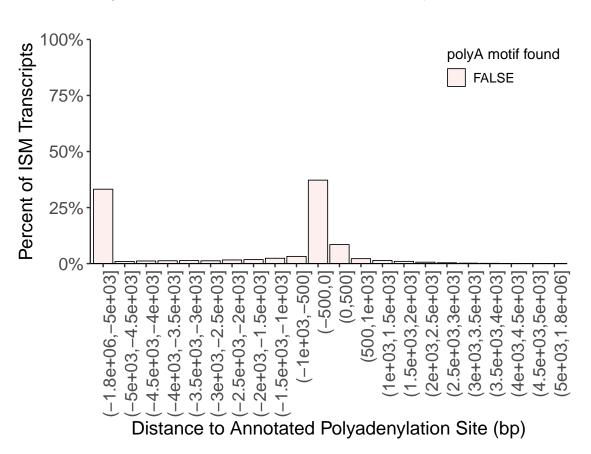
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



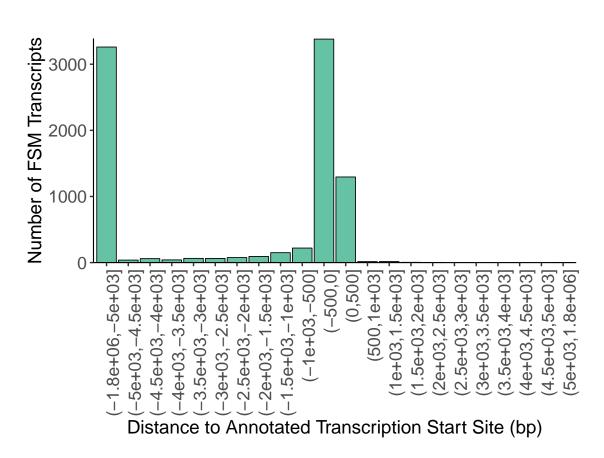
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



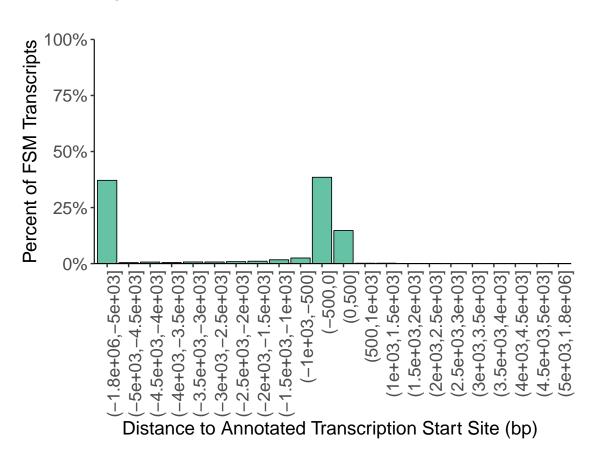
Distance to Annotated Transcription Start Site, ISM only

Negative values indicate downstream of annotated TSS

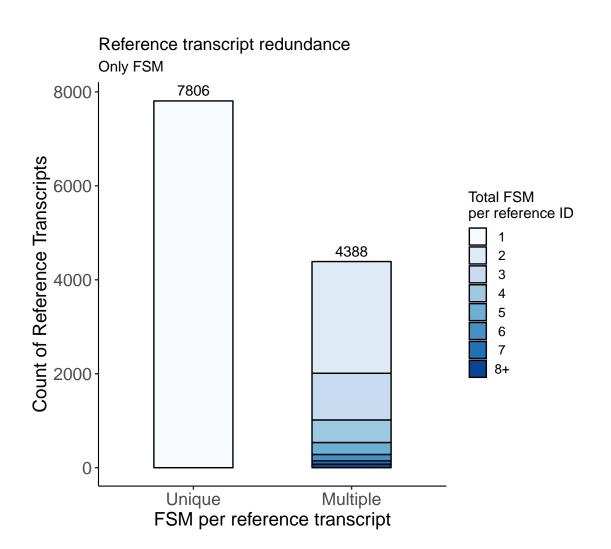


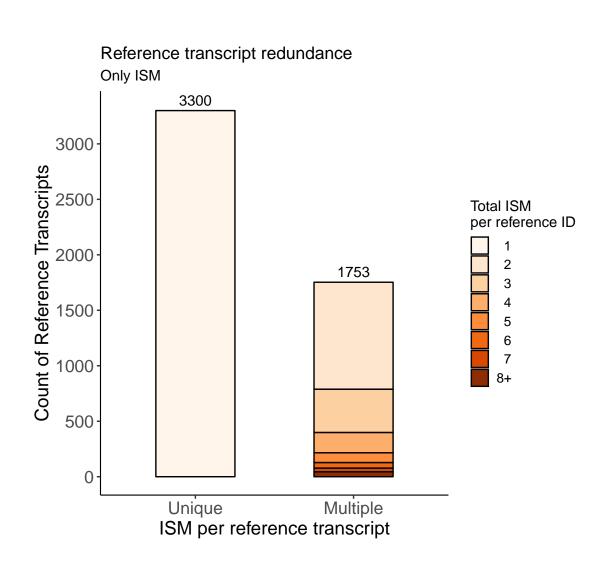
Distance to Annotated Transcription Start Site, ISM only

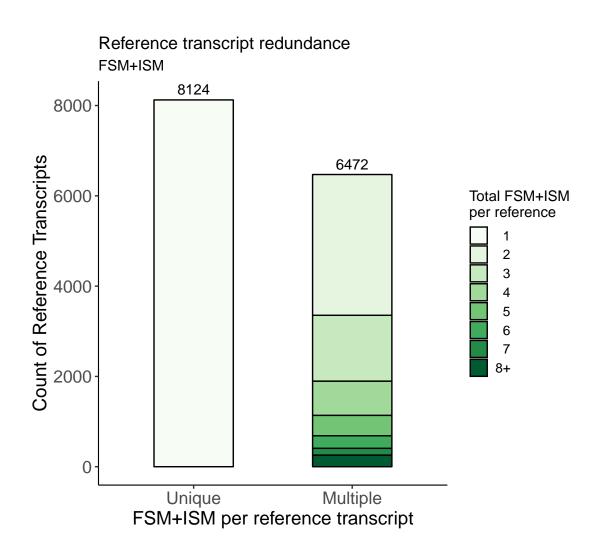
Negative values indicate downstream of annotated TSS



Accumulation of FSM and ISM to the same reference transcript



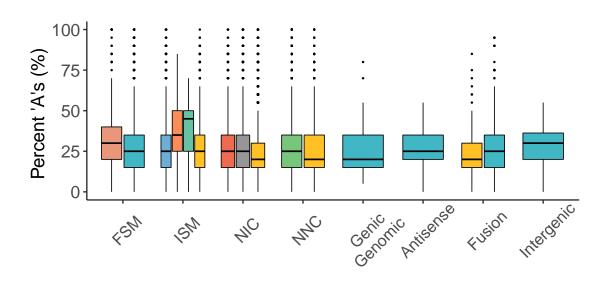


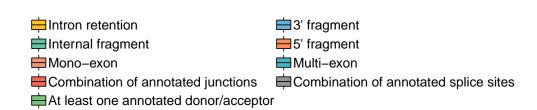




Possible Intra-Priming by Structural Category

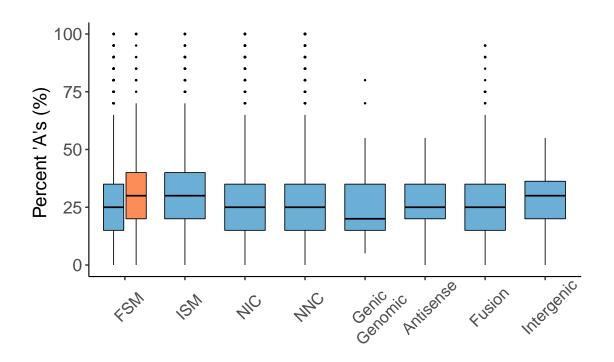
Percent of genomic 'A's in downstream 20 bp





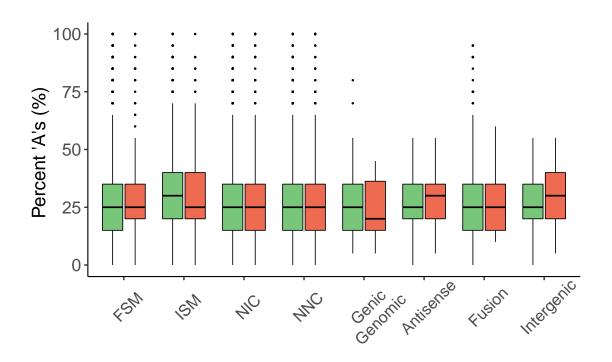
Possible Intra-Priming, Mono- vs Multi-Exon

Percent of genomic 'A's in downstream 20 bp



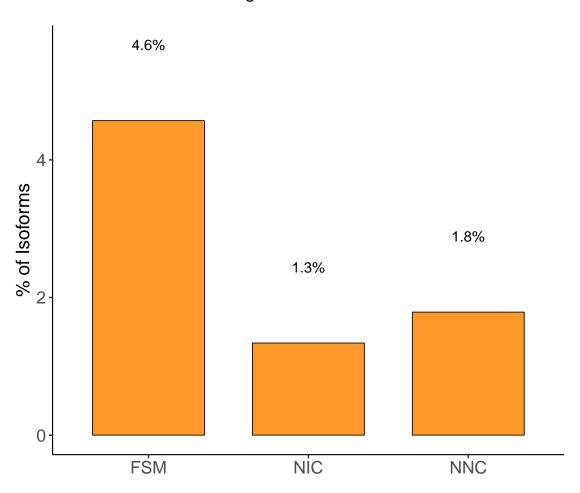
Possible Intra-Priming, Coding vs Non-Coding

Percent of genomic 'A's in downstream 20 bp

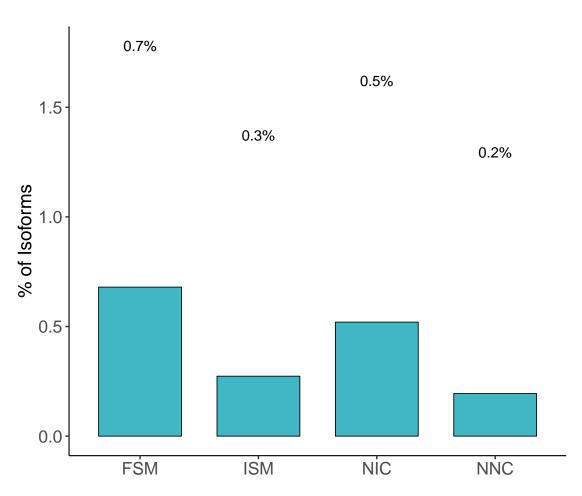




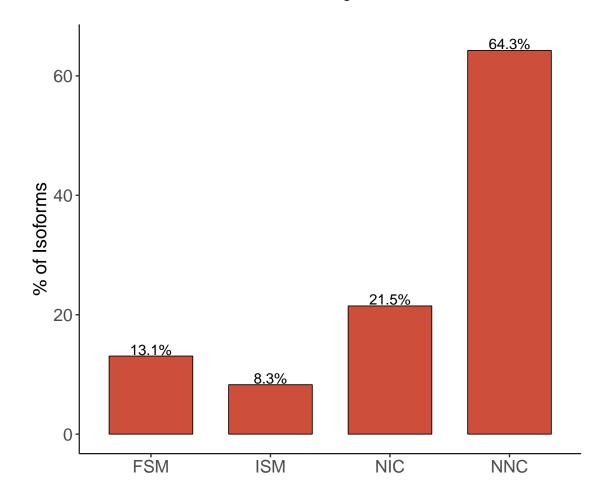
Incidence of RT-switching



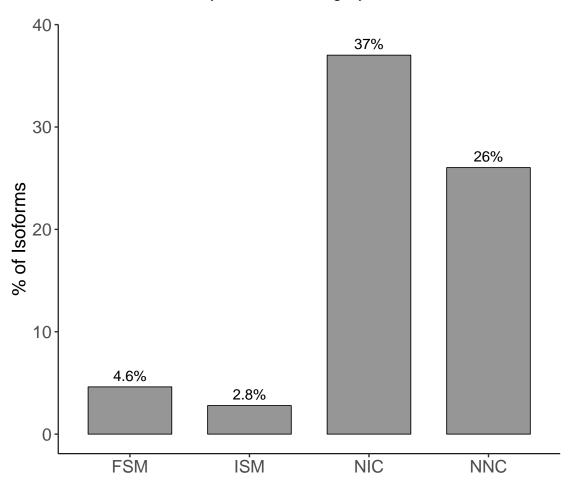
Incidence of Non-Canonical Junctions



Incidence of SJ without SR coverage Junctions



Incidence of NMD by structural category



Quality control attributes across structural categories

