SQANTI3 report

Unique Genes: 9526

Unique Isoforms: 36934

Gene classification

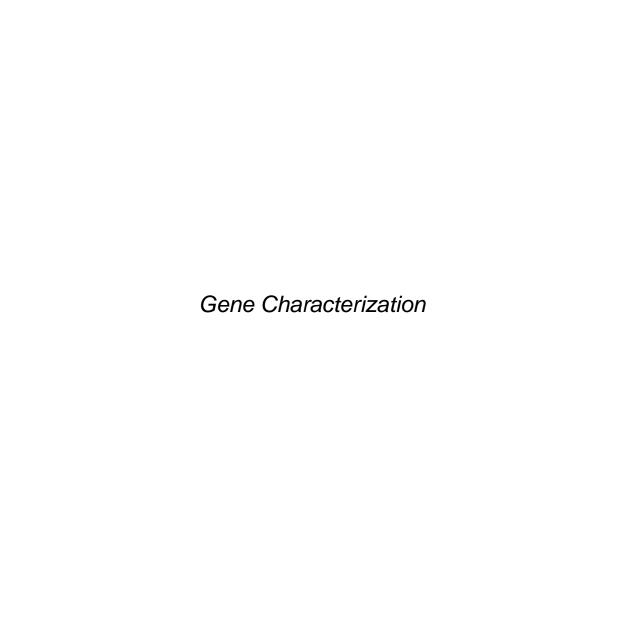
Category	# Genes
Annotated Genes	9362
Novel Genes	164

Splice Junction Classification

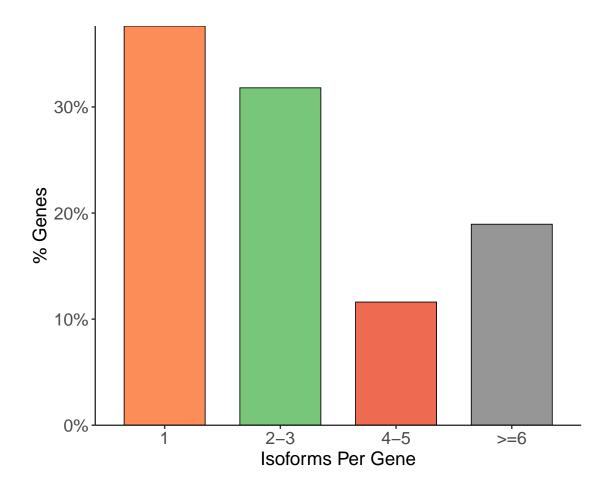
Category	# SJs	Percent
Known canonical	64543	98.84
Known Non-canonical	109	0.17
Novel canonical	347	0.53
Novel Non-canonical	301	0.46

Characterization of transcripts based on splice junctions

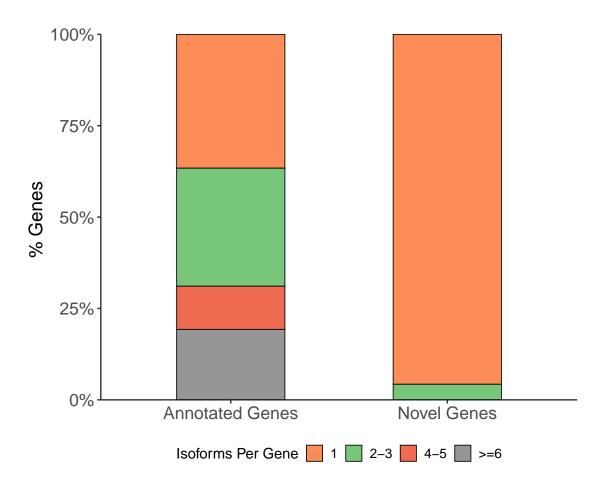
Category	# Isoforms
FSM	13978
ISM	8407
NIC	12453
NNC	1080
Genic Genomic	522
Antisense	285
Fusion	97
Intergenic	112
Genic Intron	0



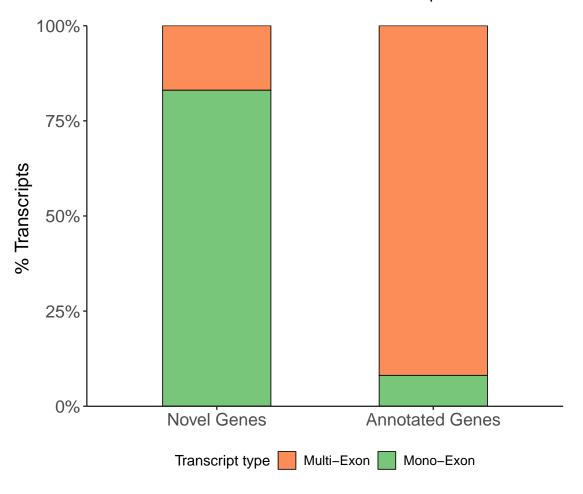
Number of Isoforms per Gene

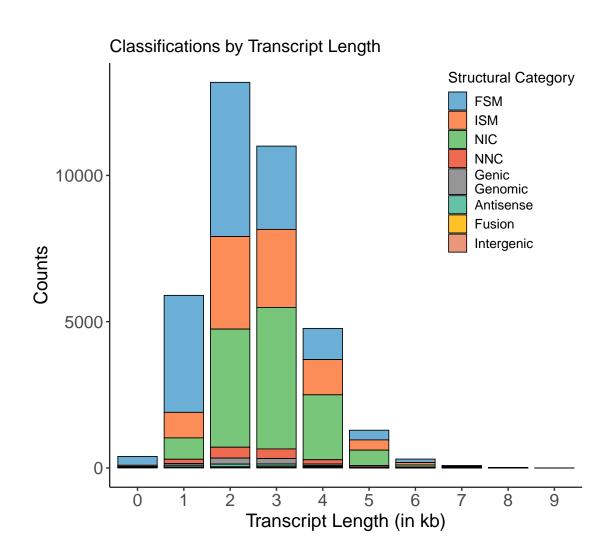


Number of Isoforms per Gene, Known vs Novel Genes

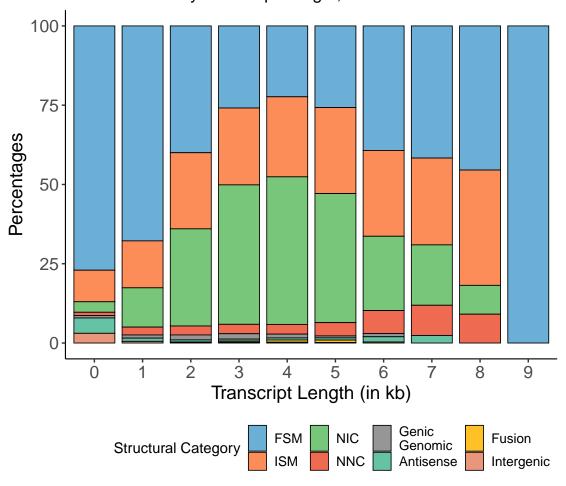


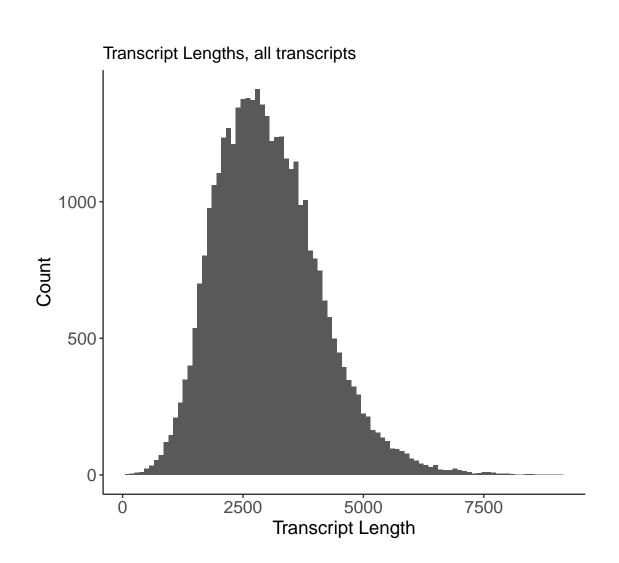
Distribution of Mono- vs Multi-Exon Transcripts

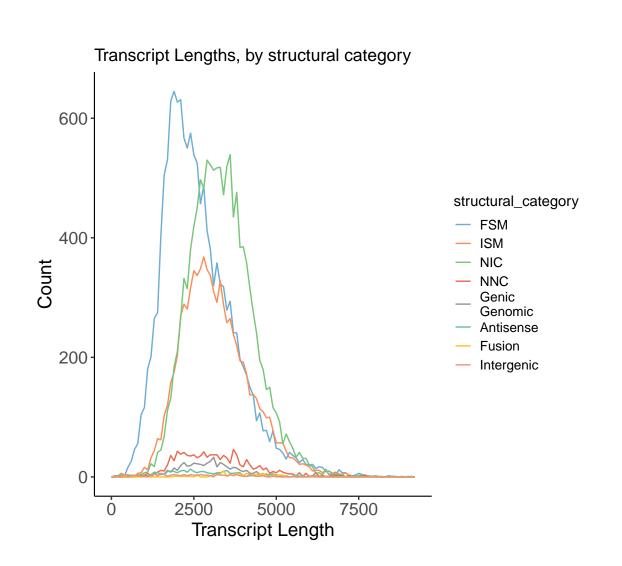


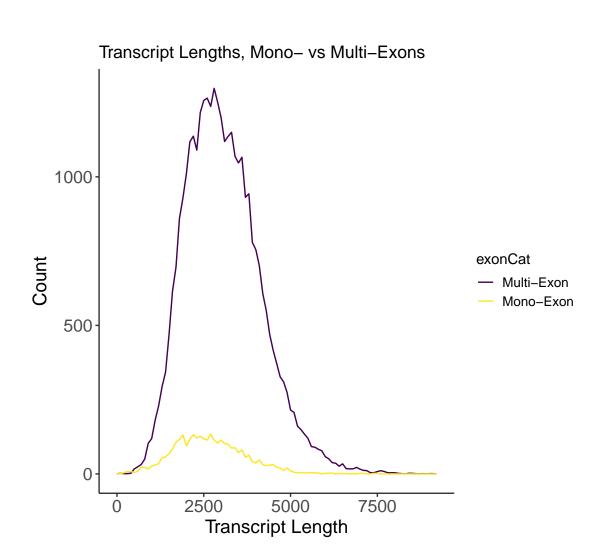


Classifications by Transcript Length, normalized



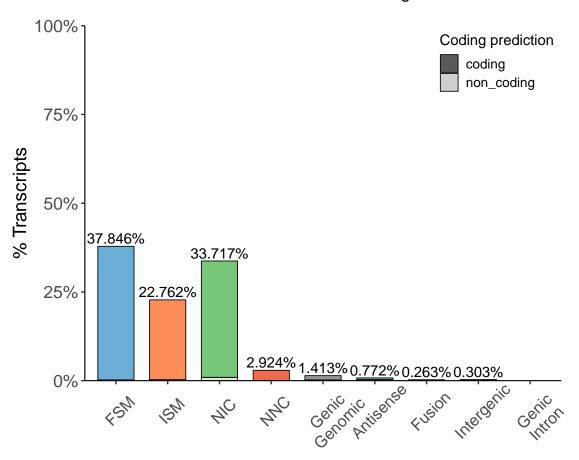




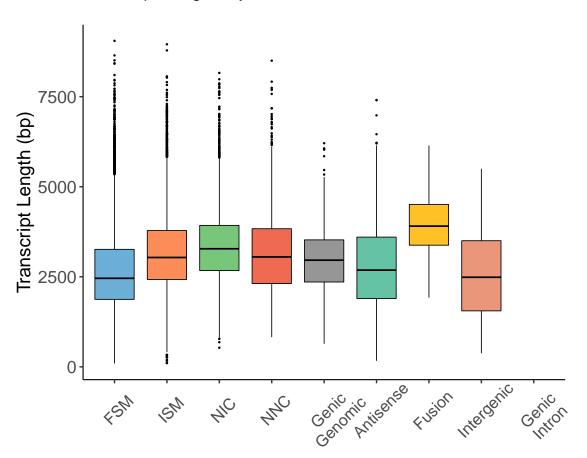


Structural Isoform Characterization by Splice Junctions

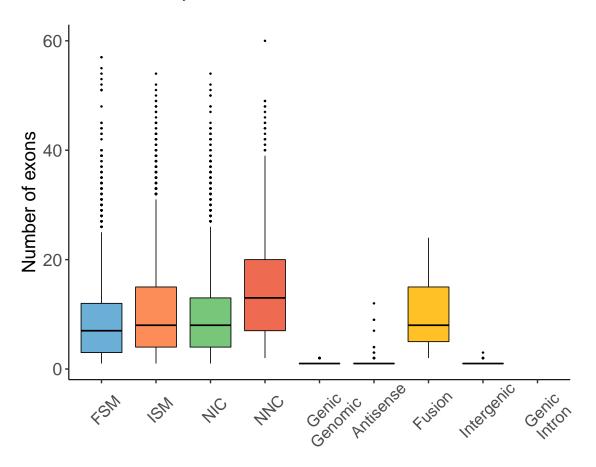
Isoform distribution across structural categories



Transcript Lengths by Structural Classification

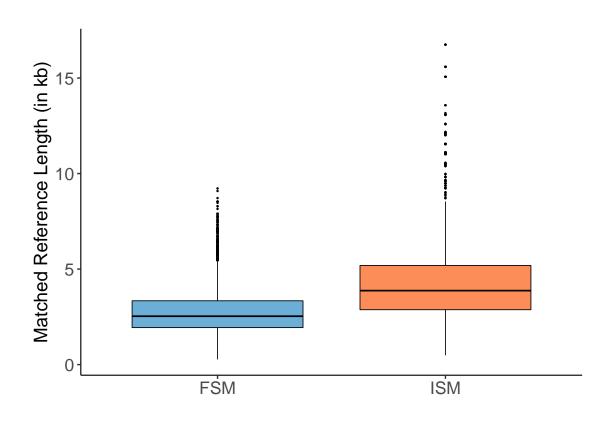


Exon Counts by Structural Classification



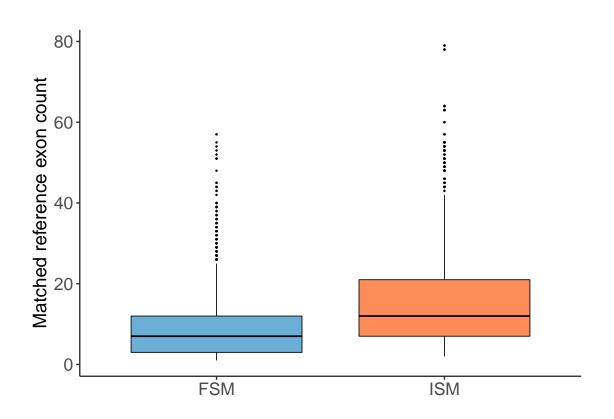
Length Distribution of Matched Reference Transcripts

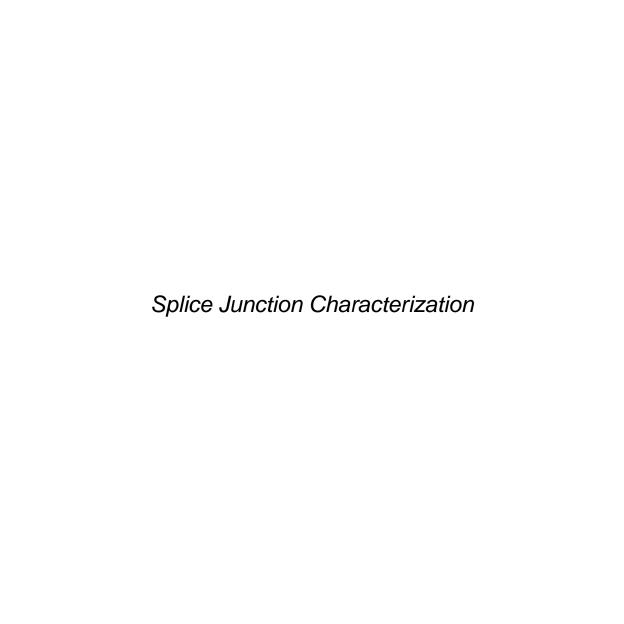
Applicable only to FSM and ISM categories



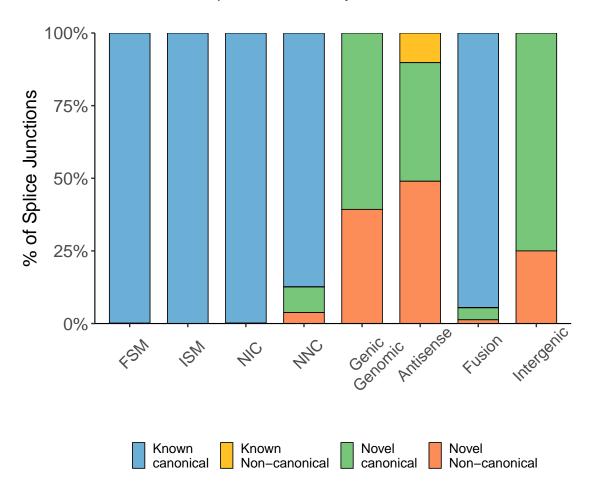
Exon Count Distribution of Matched Reference Transcripts

Applicable only to FSM and ISM categories

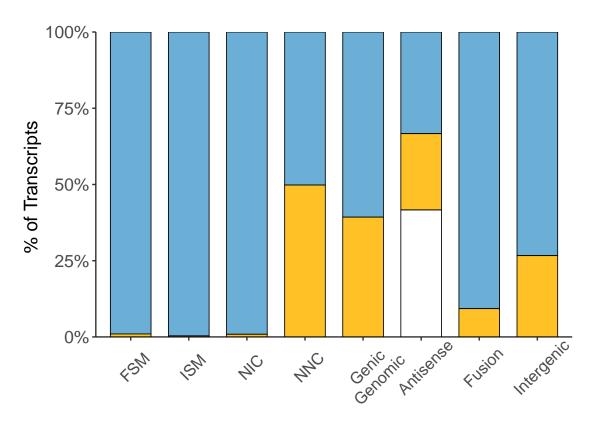




Distribution of Splice Junctions by Structural Classification

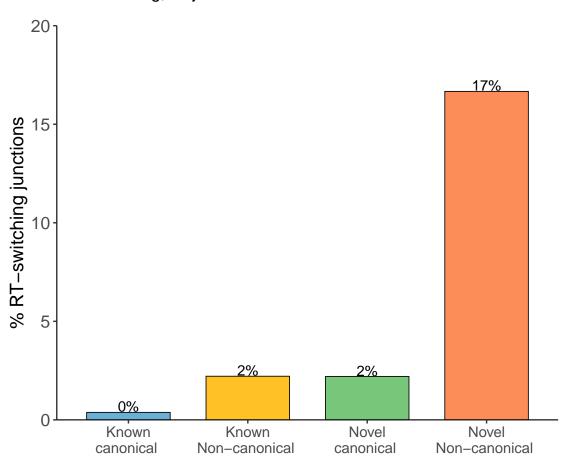


Distribution of Transcripts by Splice Junctions

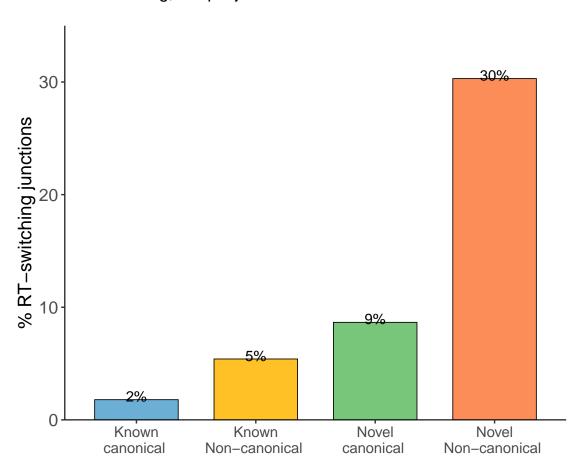


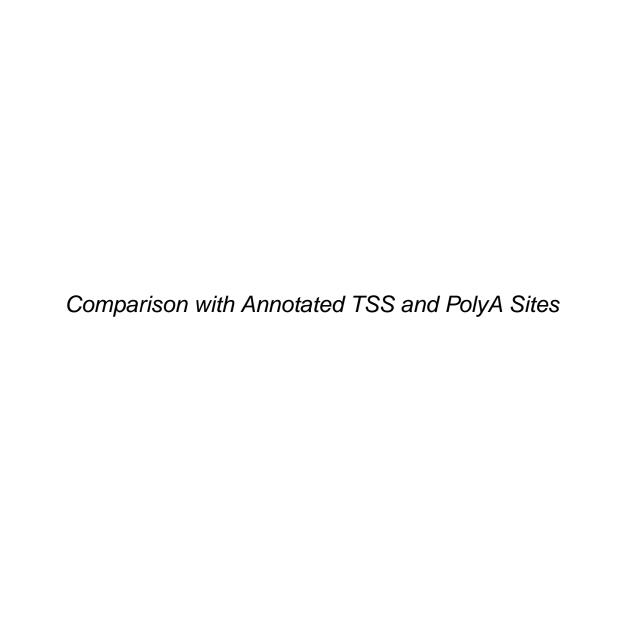
■ canonical ■ non_canonical ■ NA

RT-switching, all junctions



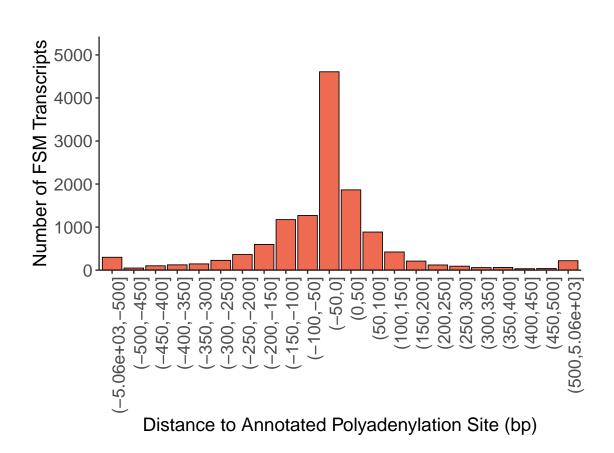
RT-switching, unique junctions





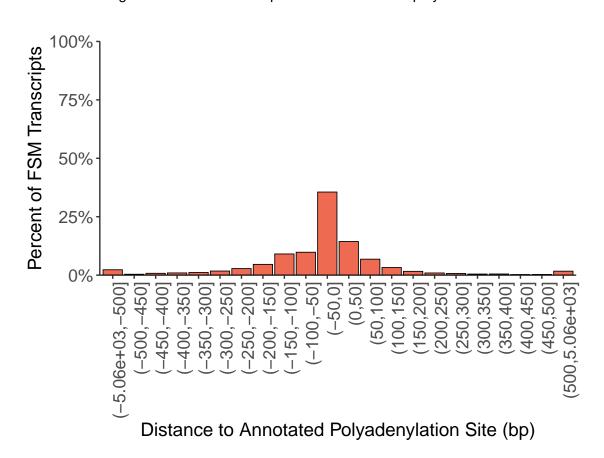
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



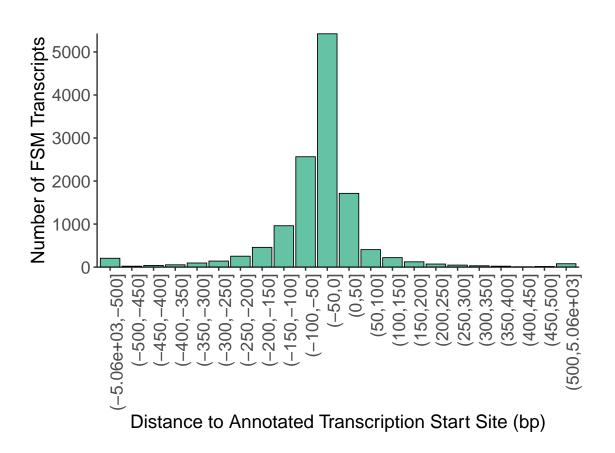
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



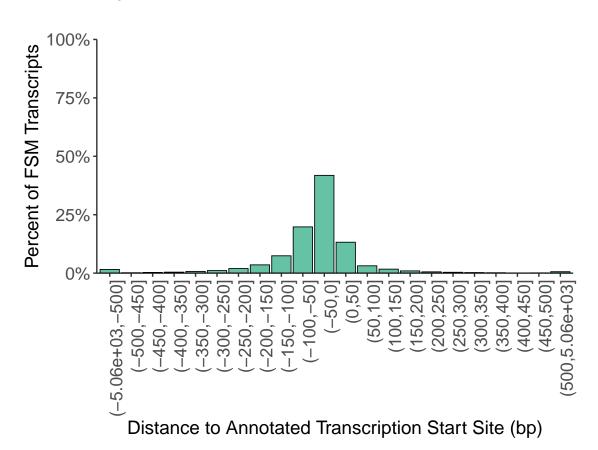
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



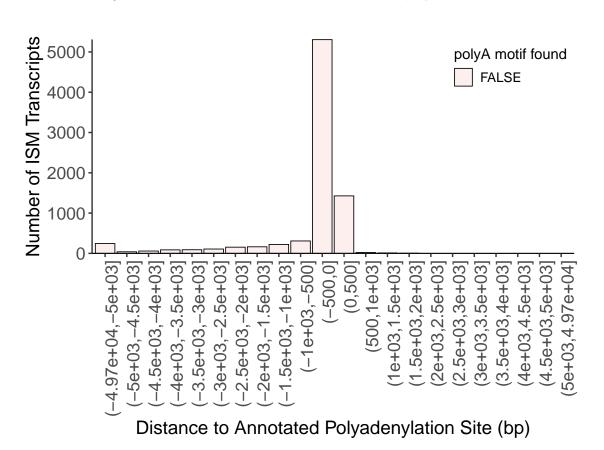
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



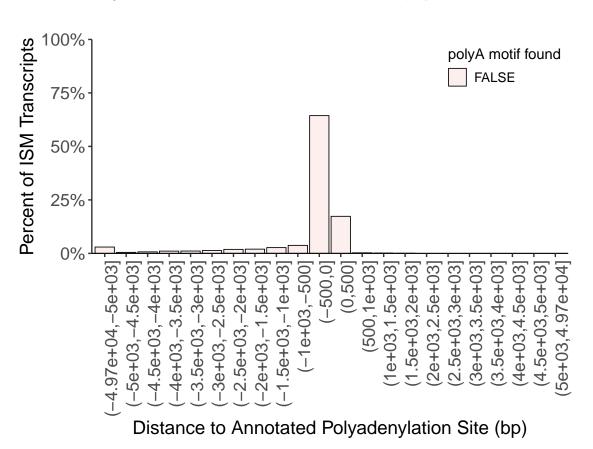
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



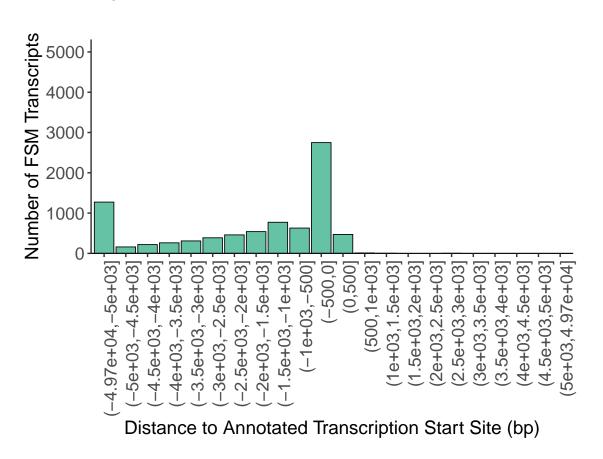
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



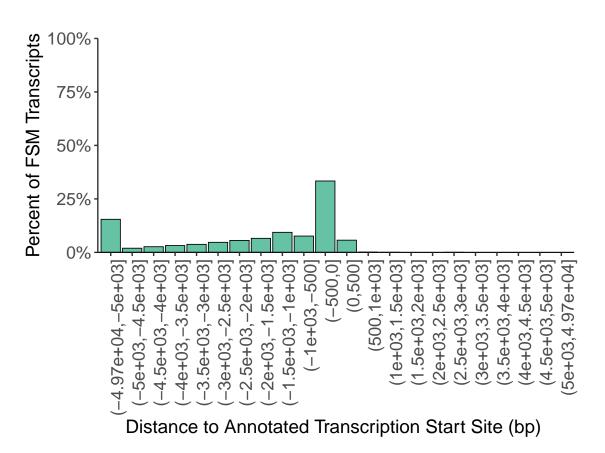
Distance to Annotated Transcription Start Site, ISM only

Negative values indicate downstream of annotated TSS

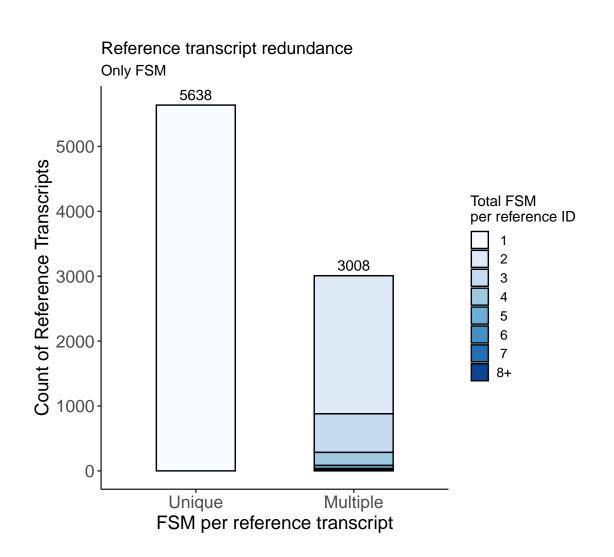


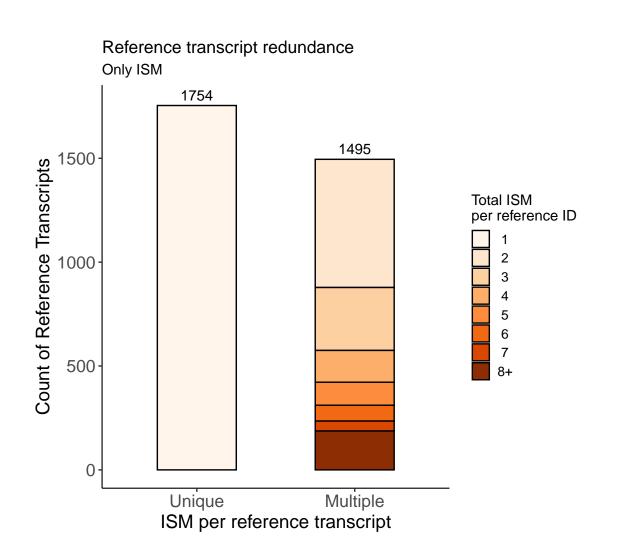
Distance to Annotated Transcription Start Site, ISM only

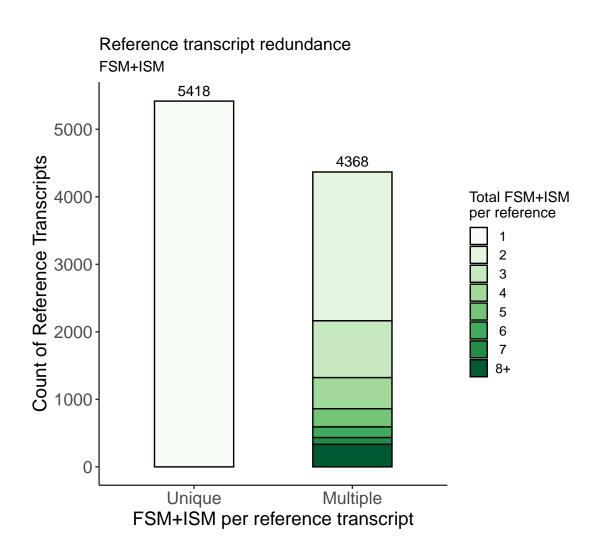
Negative values indicate downstream of annotated TSS



Accumulation of FSM and ISM to the same reference transcript



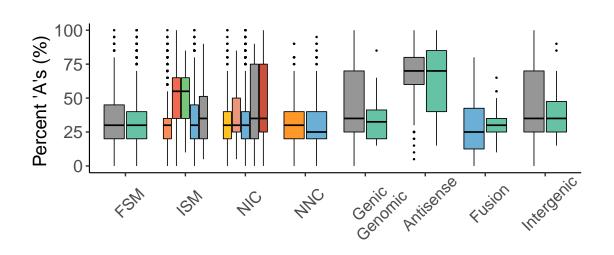






Possible Intra-Priming by Structural Category

Percent of genomic 'A's in downstream 20 bp

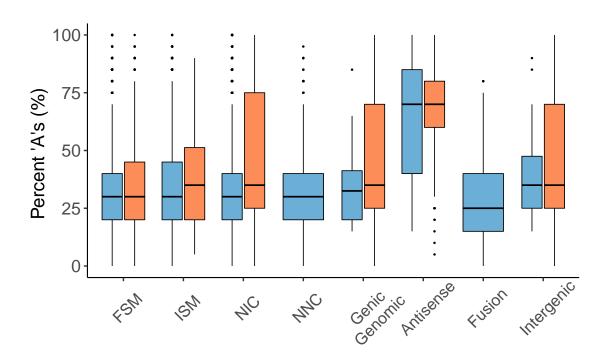




Mono-exon by intron retention 🙀 At least one annotated donor/acceptor

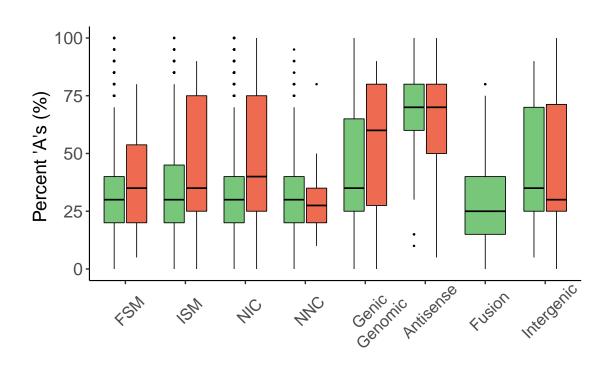
Possible Intra-Priming, Mono- vs Multi-Exon

Percent of genomic 'A's in downstream 20 bp



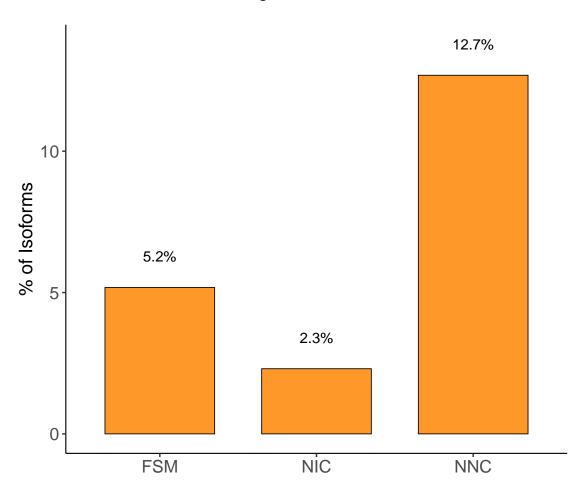
Possible Intra-Priming, Coding vs Non-Coding

Percent of genomic 'A's in downstream 20 bp

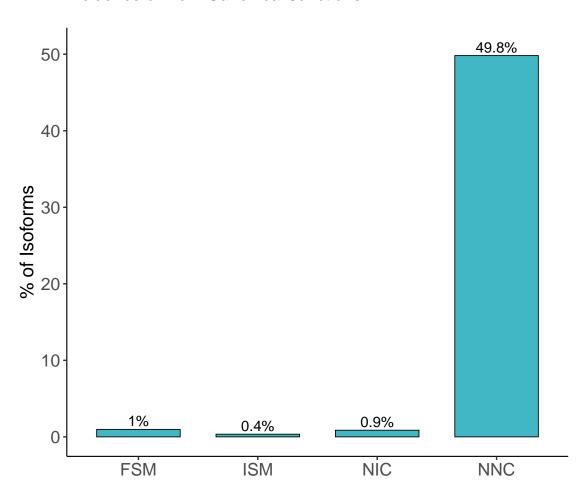




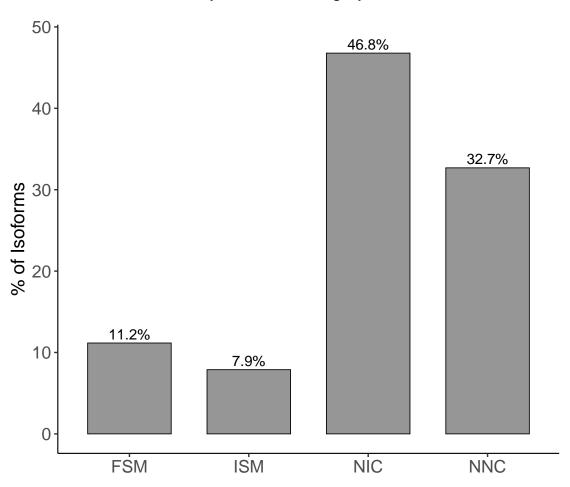
Incidence of RT-switching



Incidence of Non-Canonical Junctions



Incidence of NMD by structural category



Quality control attributes across structural categories

