SQANTI3 report

Unique Genes: 23247

Unique Isoforms: 375649

Gene classification

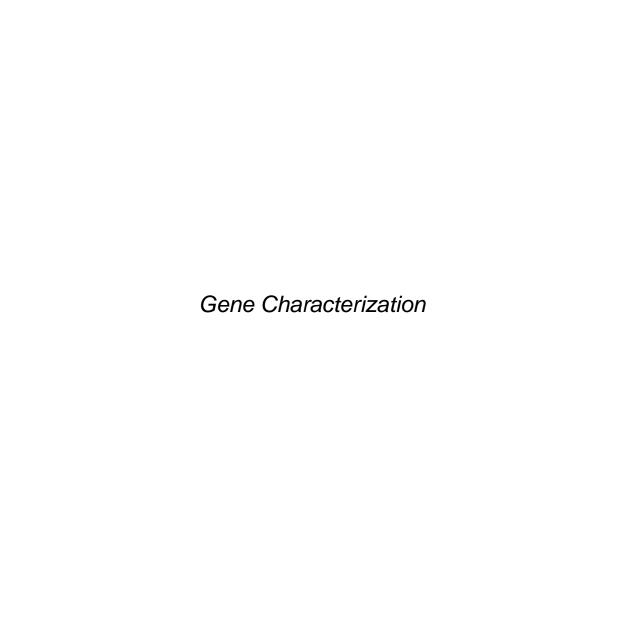
Category	# Genes
Annotated Genes	15323
Novel Genes	7924

Splice Junction Classification

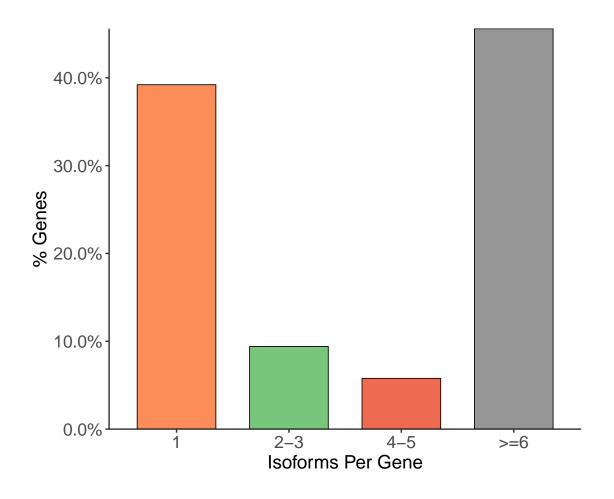
Category	# SJs	Percent
Known canonical	152849	51.43
Known Non-canonical	46	0.02
Novel canonical	144317	48.56
Novel Non-canonical	0	0.00

Characterization of transcripts based on splice junctions

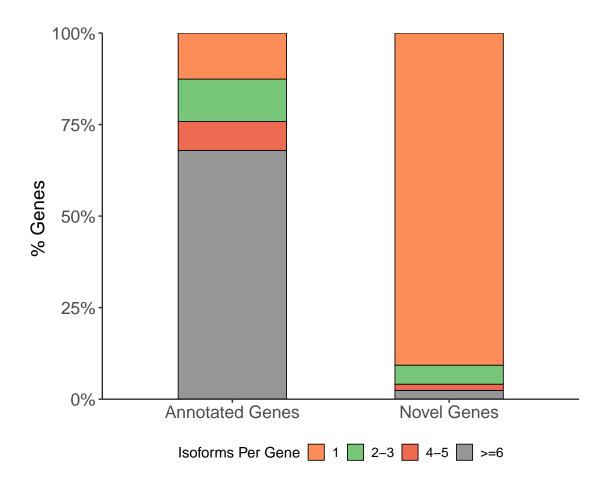
Category	# Isoforms
FSM	30385
ISM	38116
NIC	105395
NNC	186125
Genic	1192
Genomic	1192
Antisense	4760
Fusion	3304
Intergenic	6372
Genic	0
Intron	



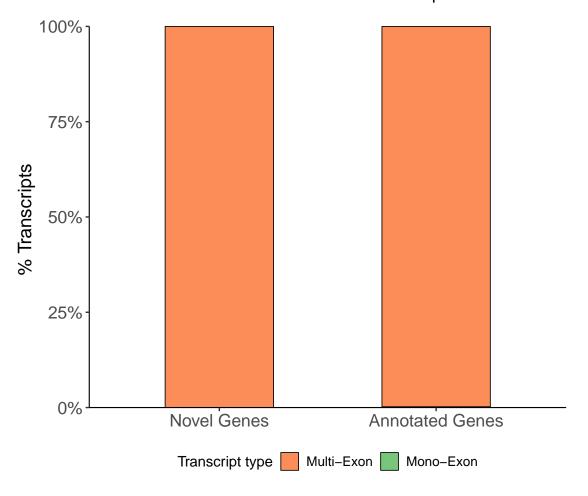
Number of Isoforms per Gene

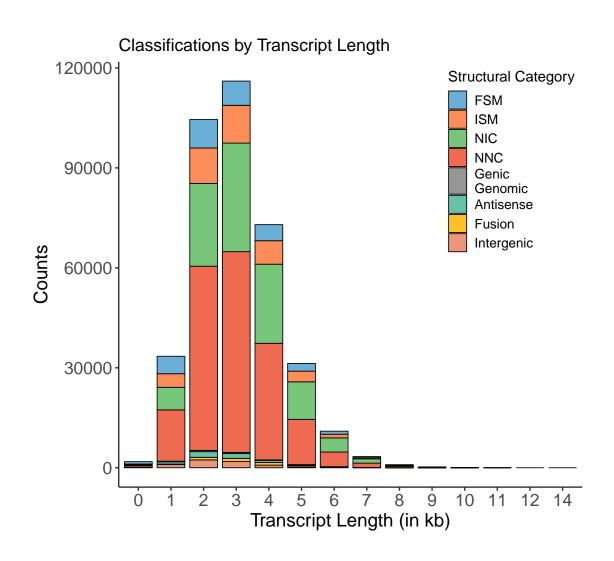


Number of Isoforms per Gene, Known vs Novel Genes

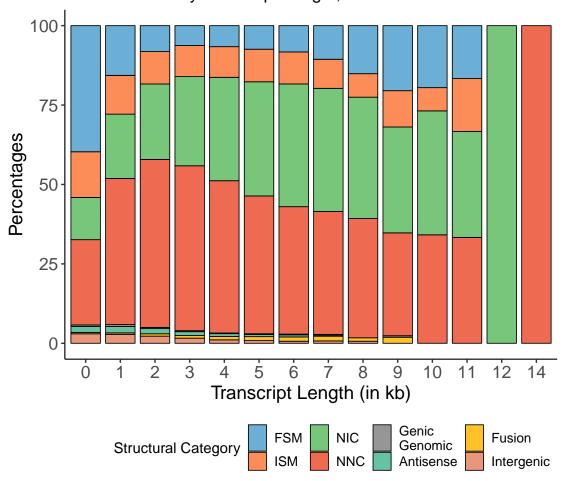


Distribution of Mono- vs Multi-Exon Transcripts

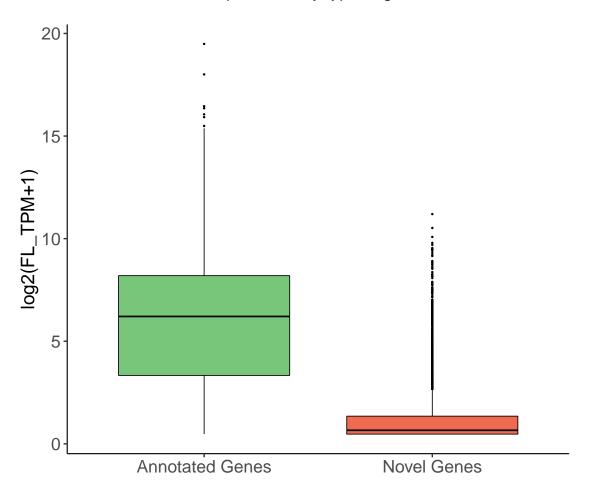


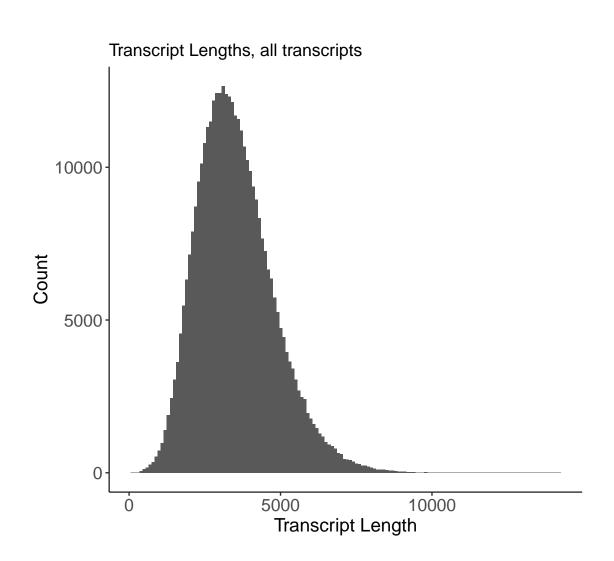


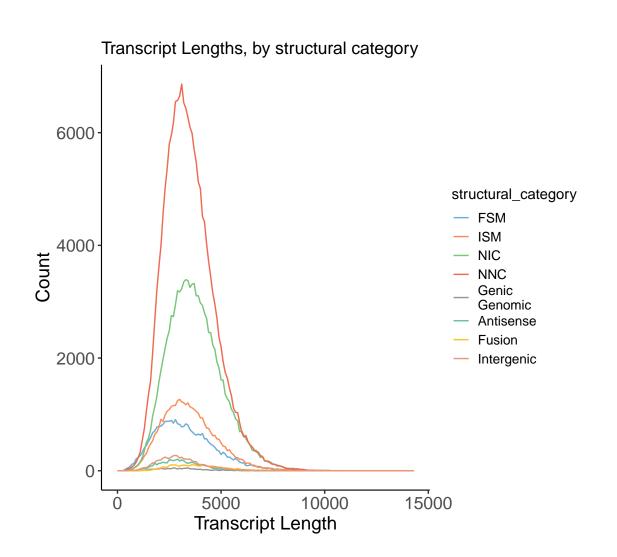
Classifications by Transcript Length, normalized

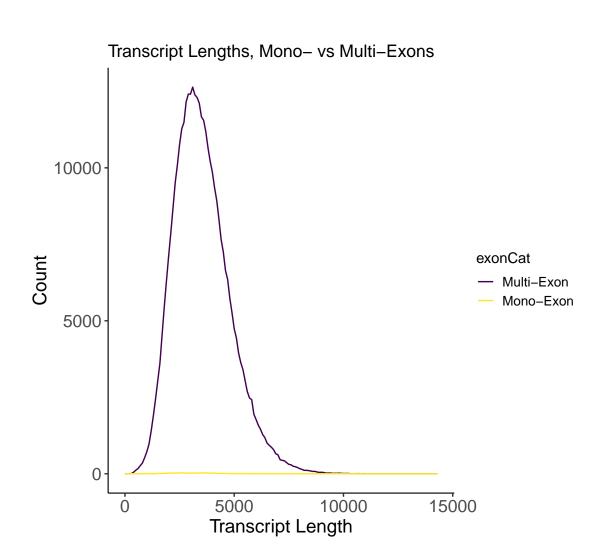


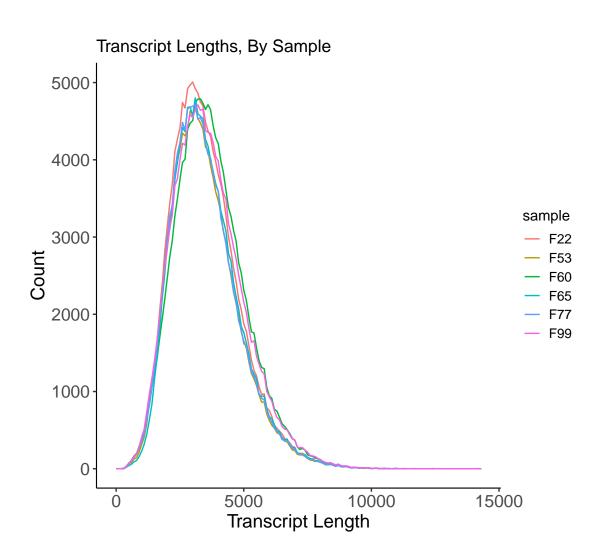
Number of FL reads per Gene by type of gene annotation

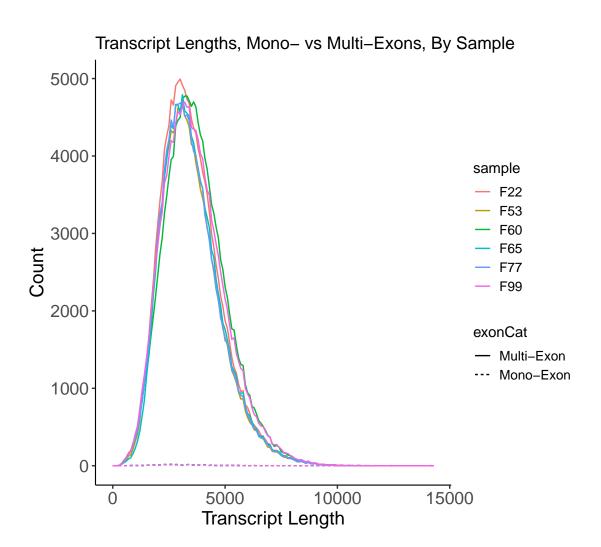






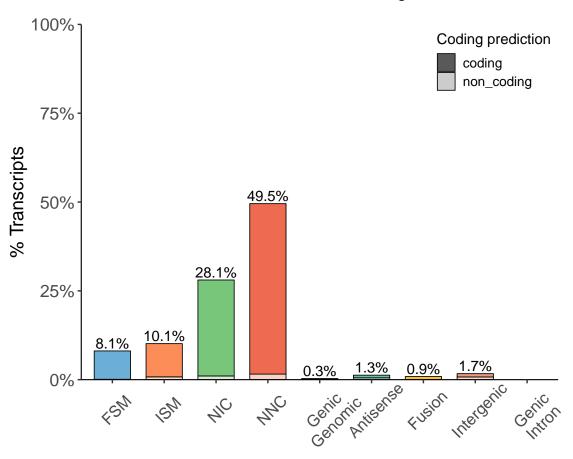




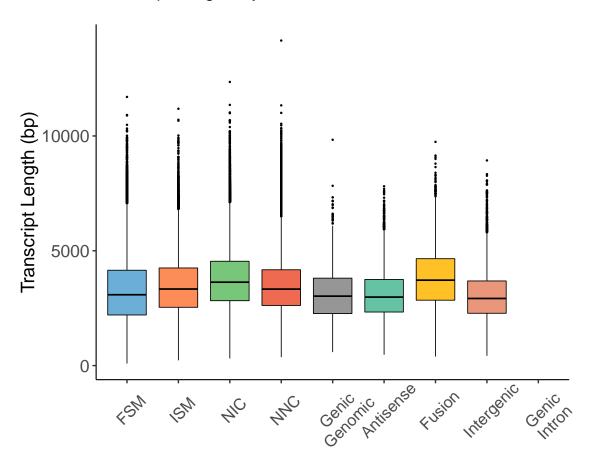


Structural Isoform Characterization by Splice Junctions

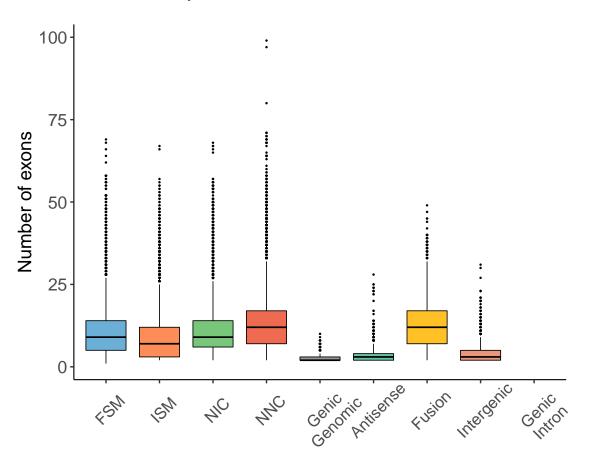
Isoform distribution across structural categories



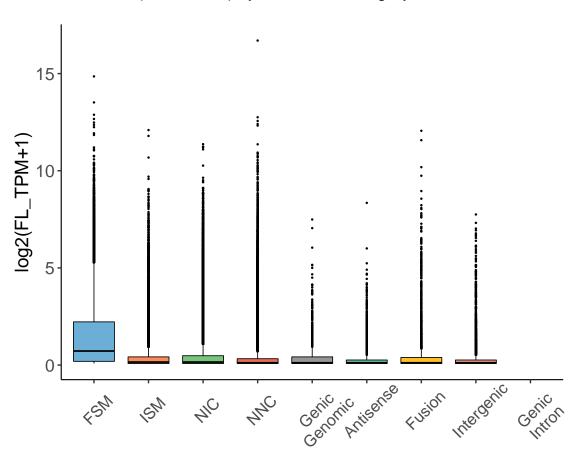
Transcript Lengths by Structural Classification



Exon Counts by Structural Classification

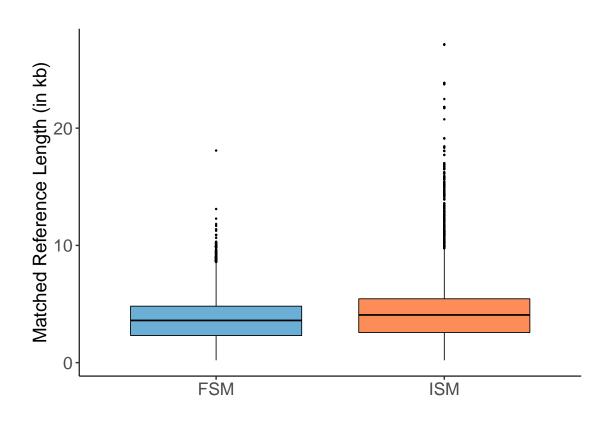


FL Count (normalized) by Structural Category



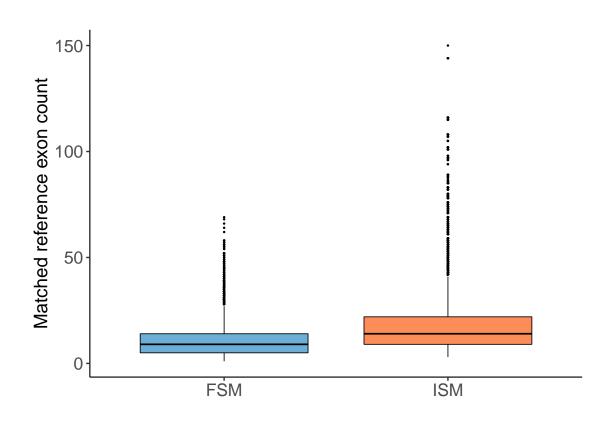
Length Distribution of Matched Reference Transcripts

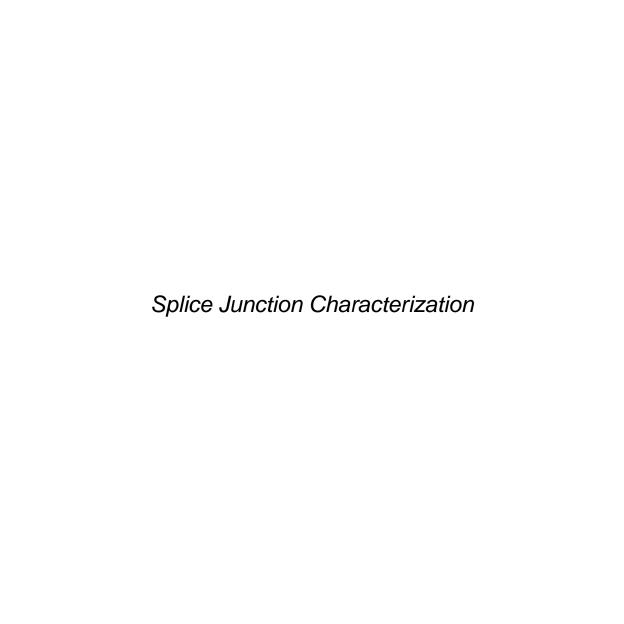
Applicable only to FSM and ISM categories



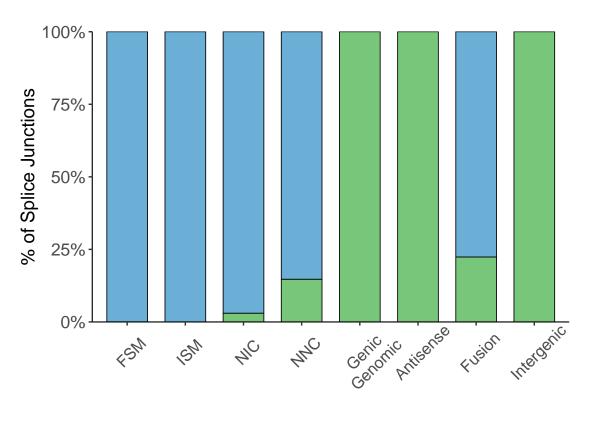
Exon Count Distribution of Matched Reference Transcripts

Applicable only to FSM and ISM categories





Distribution of Splice Junctions by Structural Classification



Known

canonical

Known

Non-canonical

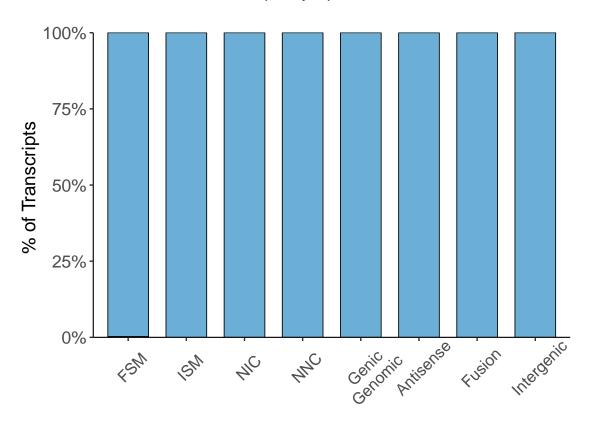
Novel

lcanonical

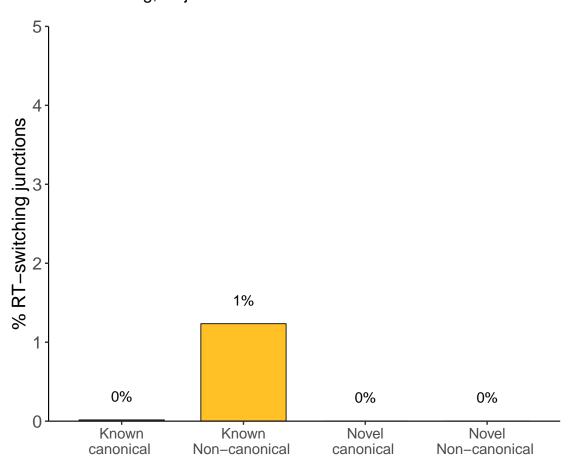
Novel

Non-canonical

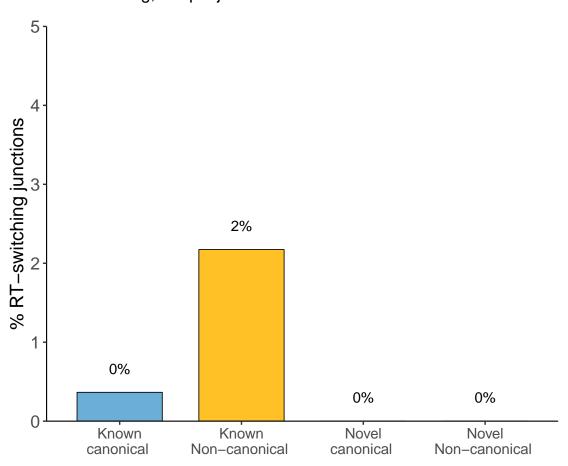
Distribution of Transcripts by Splice Junctions

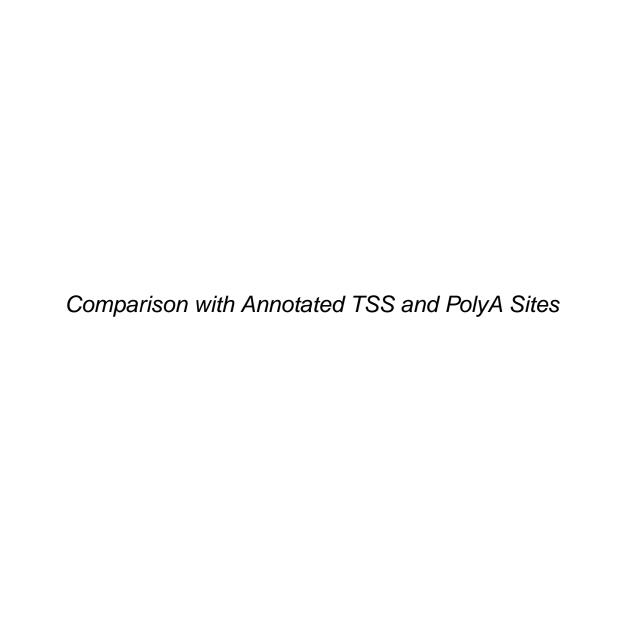


RT-switching, all junctions



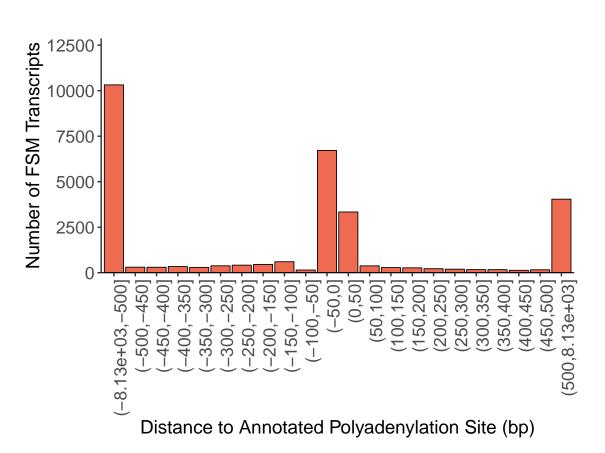
RT-switching, unique junctions





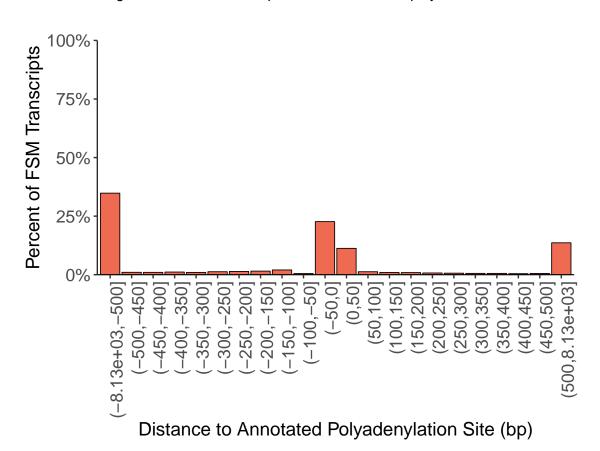
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



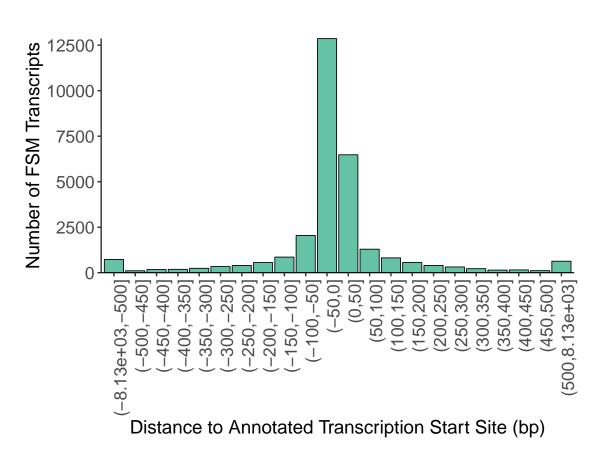
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



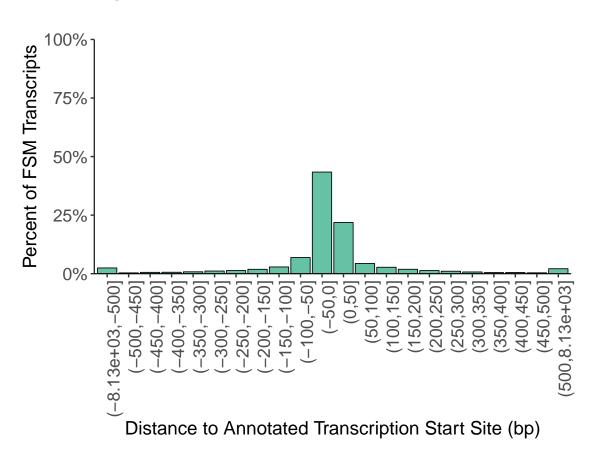
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



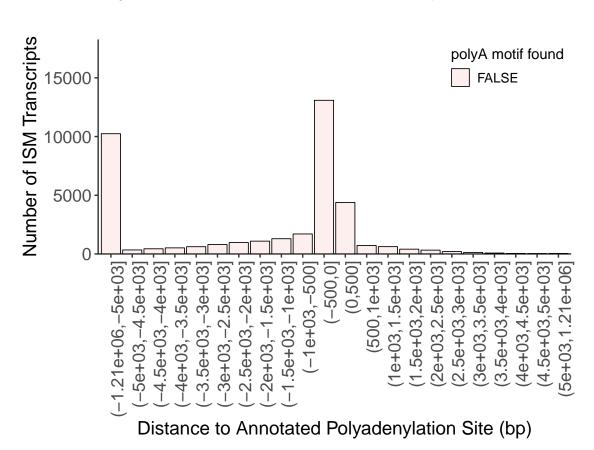
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



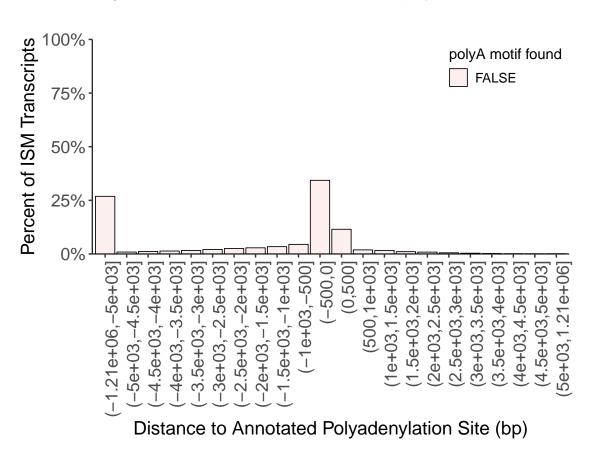
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



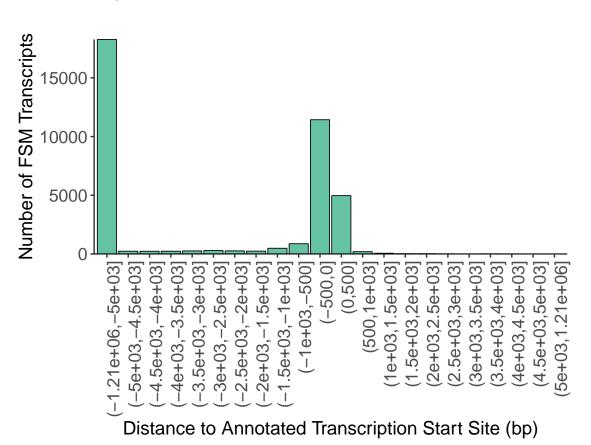
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



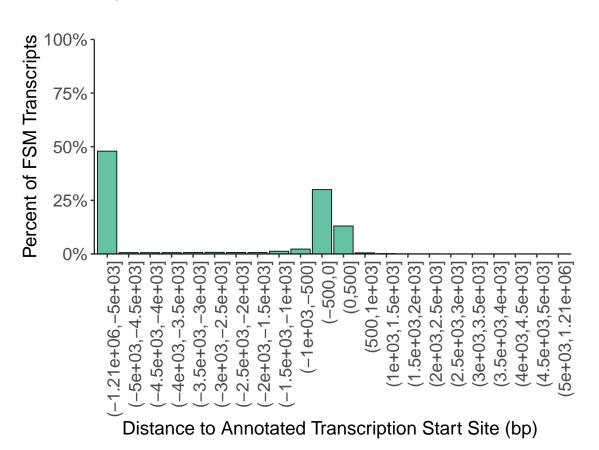
Distance to Annotated Transcription Start Site, ISM only

Negative values indicate downstream of annotated TSS

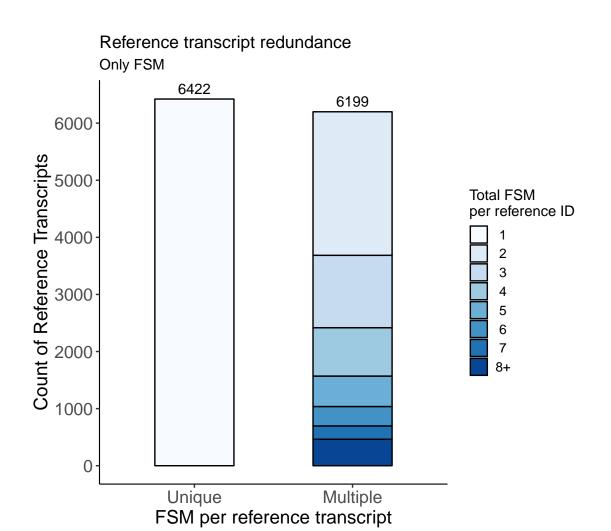


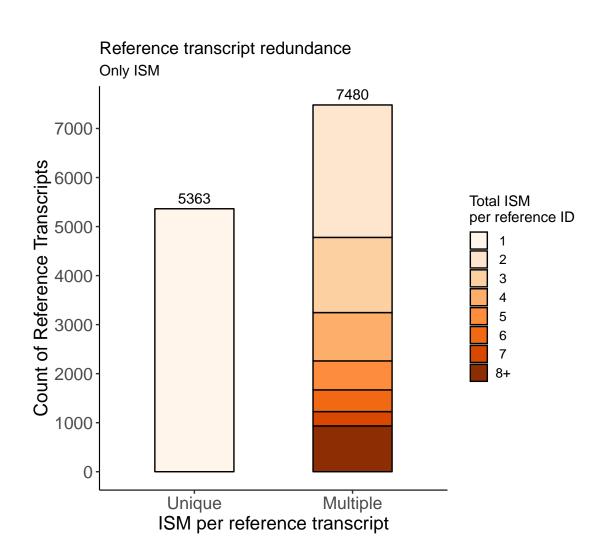
Distance to Annotated Transcription Start Site, ISM only

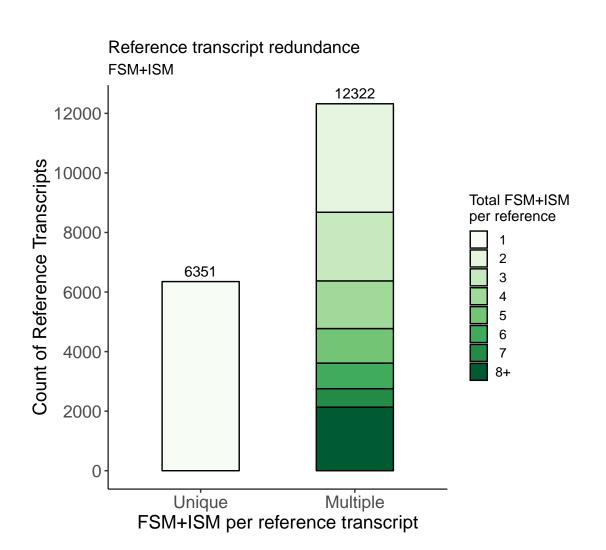
Negative values indicate downstream of annotated TSS



Accumulation of FSM and ISM to the same reference transcript



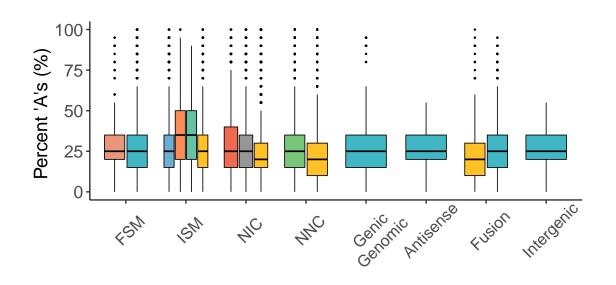


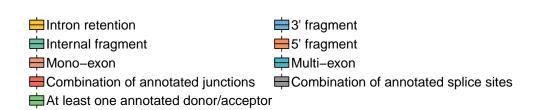




Possible Intra-Priming by Structural Category

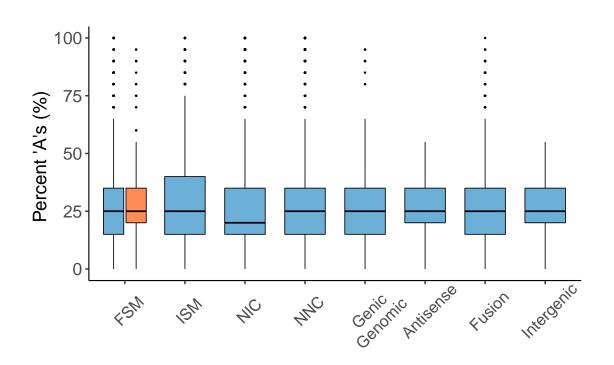
Percent of genomic 'A's in downstream 20 bp





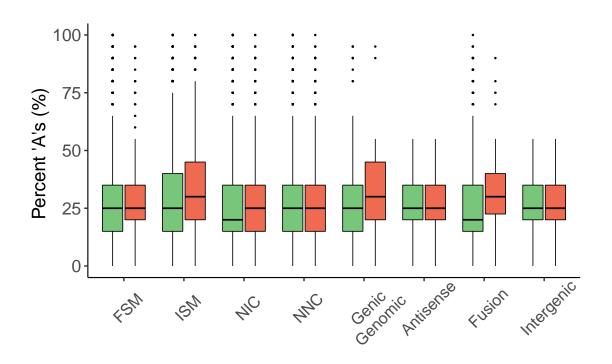
Possible Intra-Priming, Mono- vs Multi-Exon

Percent of genomic 'A's in downstream 20 bp



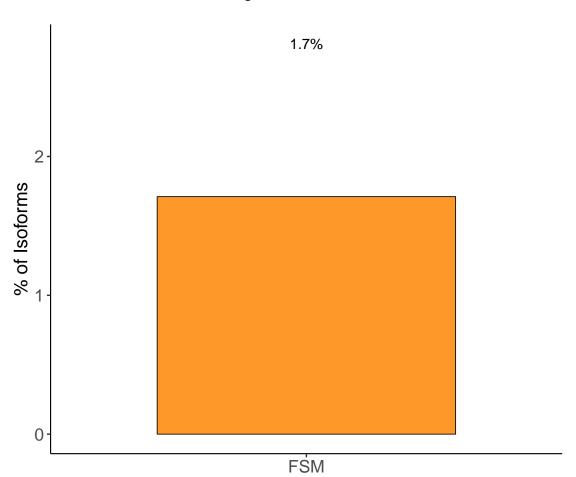
Possible Intra-Priming, Coding vs Non-Coding

Percent of genomic 'A's in downstream 20 bp

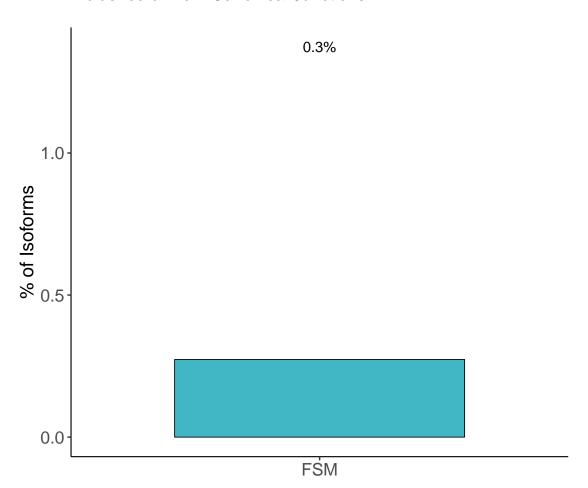




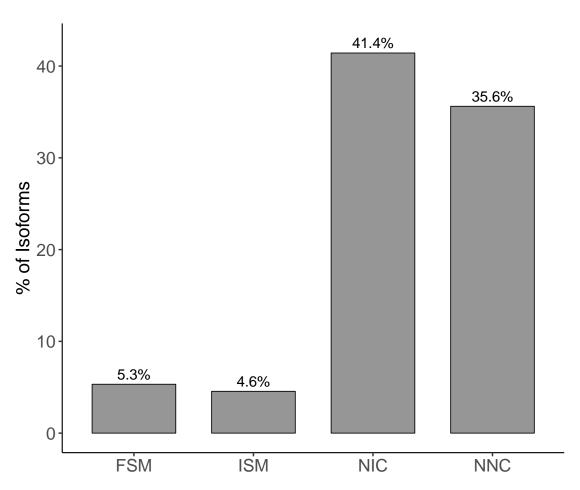




Incidence of Non-Canonical Junctions



Incidence of NMD by structural category



Quality control attributes across structural categories

