SQANTI3 report

Unique Genes: 7486

Unique Isoforms: 16160

Gene classification

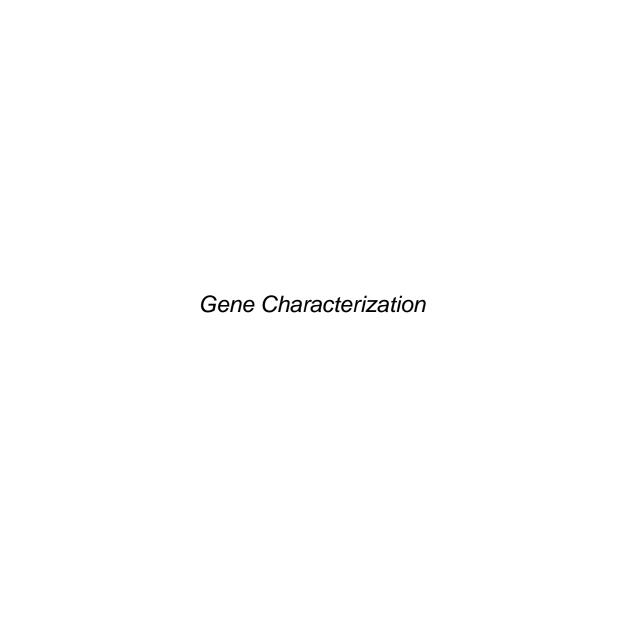
Category	# Genes
Annotated Genes	6487
Novel Genes	999

Splice Junction Classification

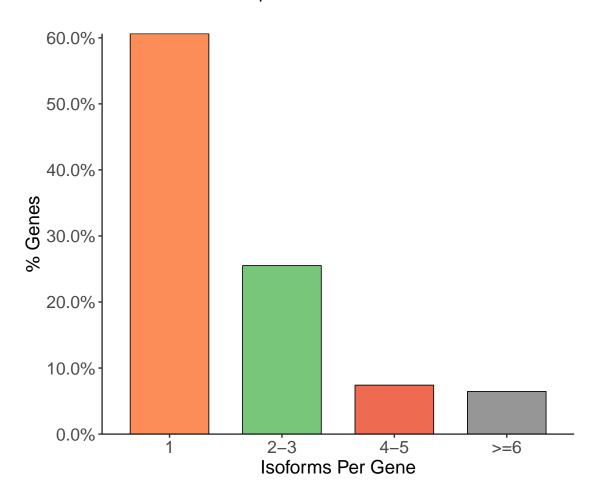
Category	# SJs	Percent
Known canonical	47582	95.66
Known Non-canonical	1489	2.99
Novel canonical	426	0.86
Novel Non-canonical	243	0.49

Characterization of transcripts based on splice junctions

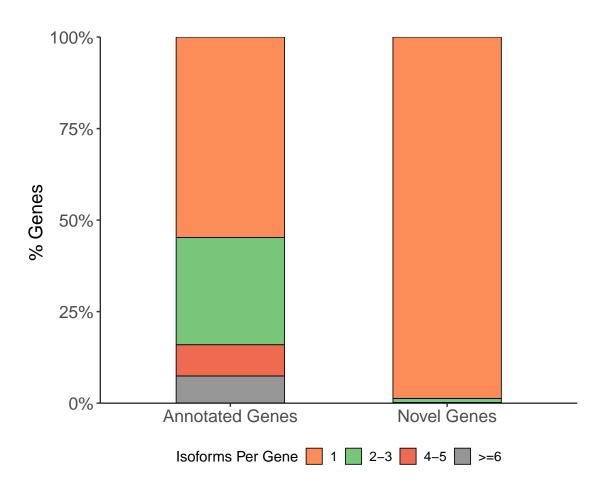
Category	# Isoforms
FSM	12252
ISM	2299
NIC	244
NNC	228
Genic Genomic	116
Antisense	196
Fusion	0
Intergenic	825
Genic Intron	0



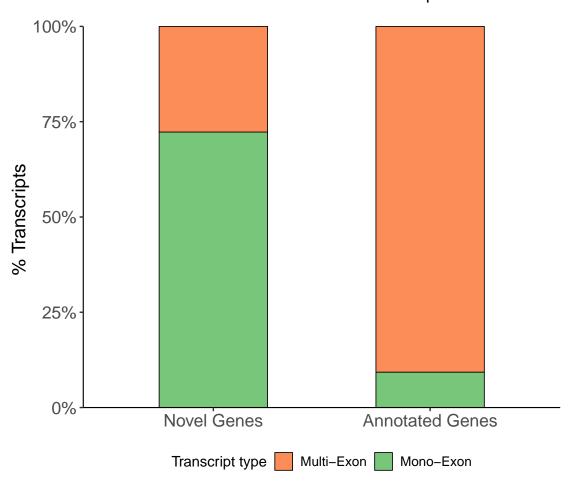
Number of Isoforms per Gene

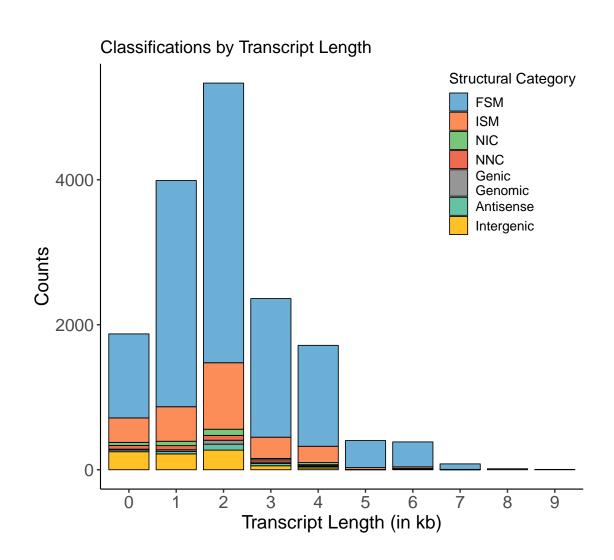


Number of Isoforms per Gene, Known vs Novel Genes

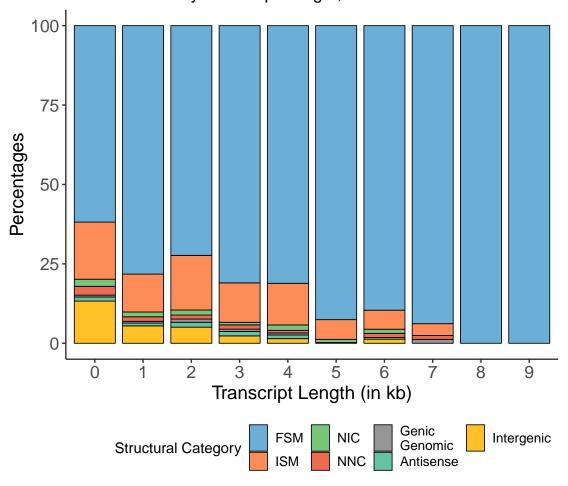


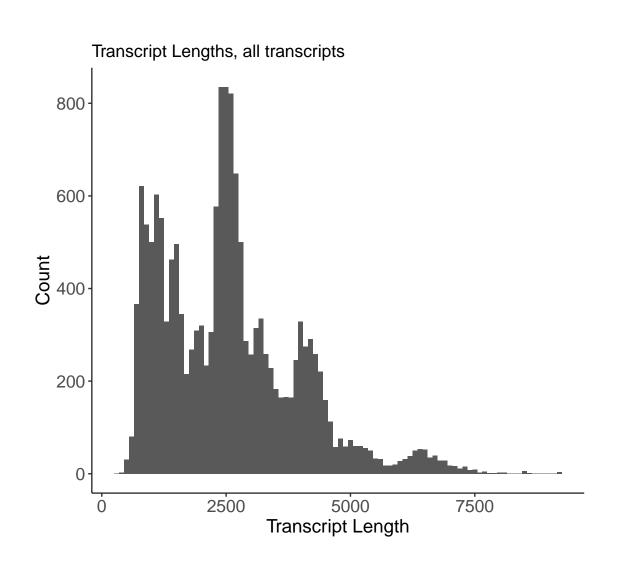
Distribution of Mono- vs Multi-Exon Transcripts

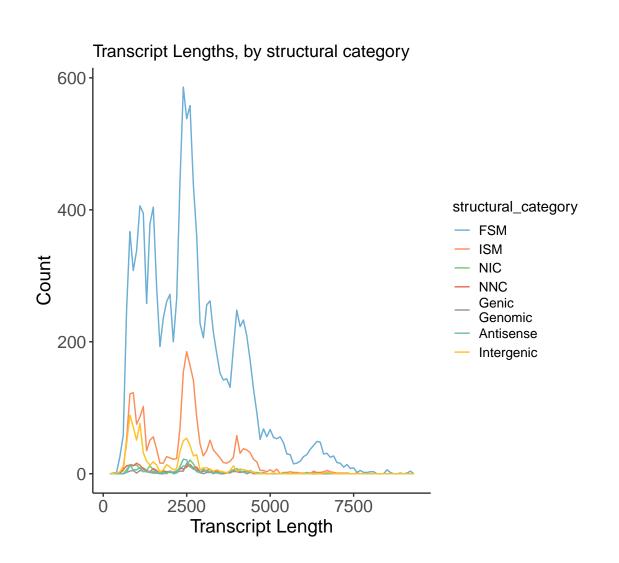


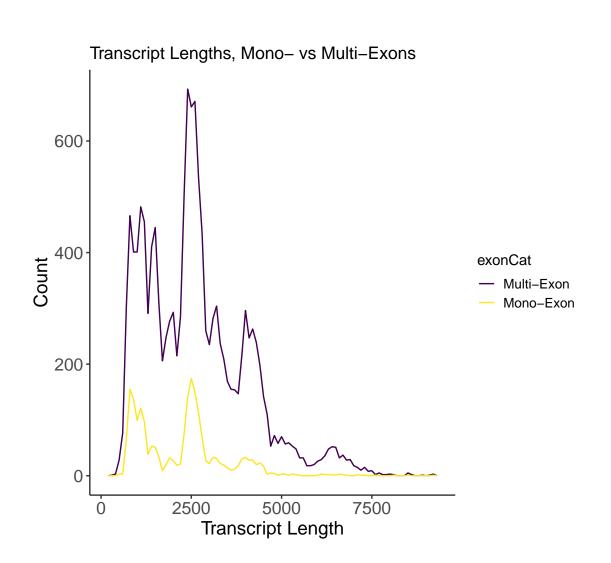


Classifications by Transcript Length, normalized



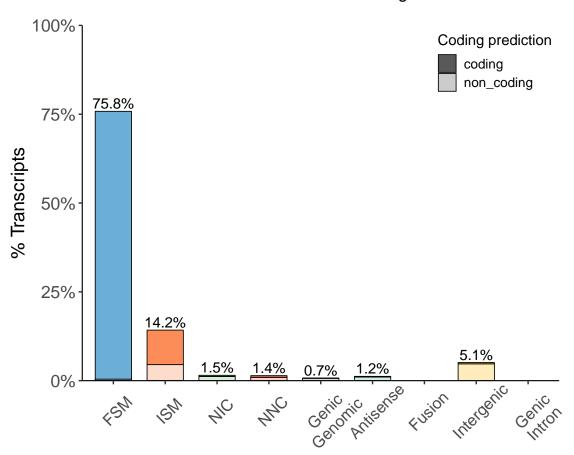




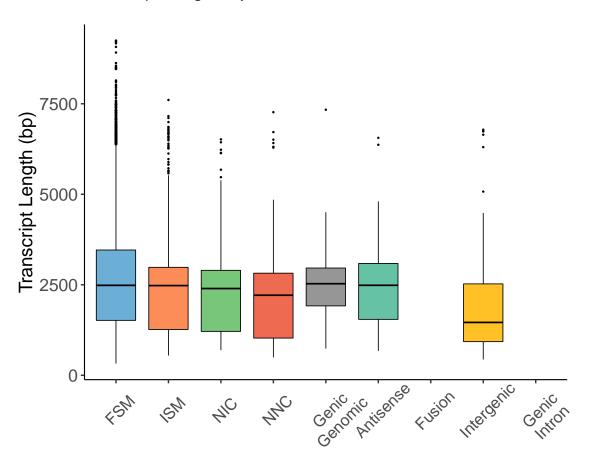


Structural Isoform Characterization by Splice Junctions

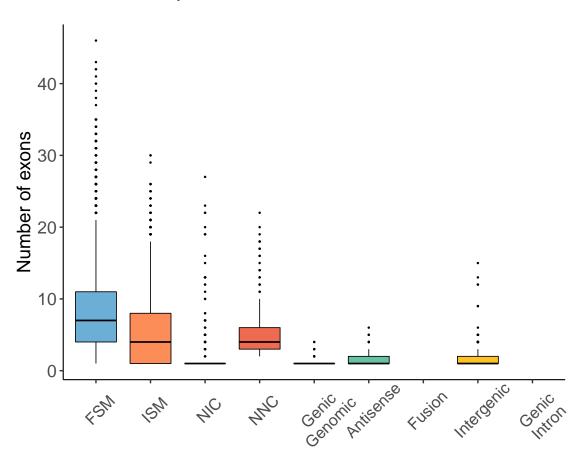
Isoform distribution across structural categories



Transcript Lengths by Structural Classification

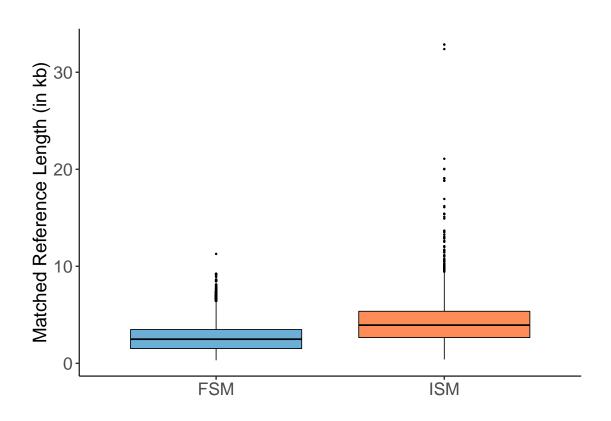


Exon Counts by Structural Classification



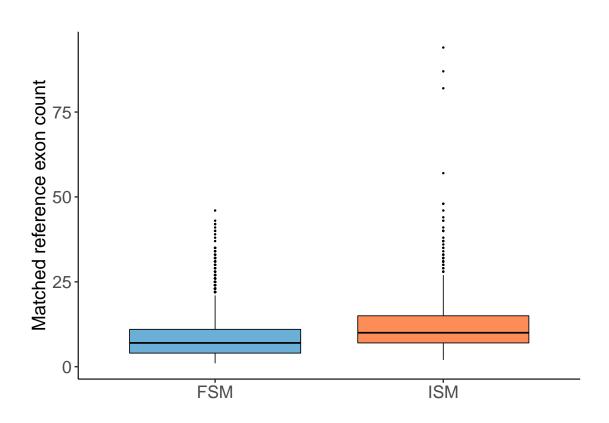
Length Distribution of Matched Reference Transcripts

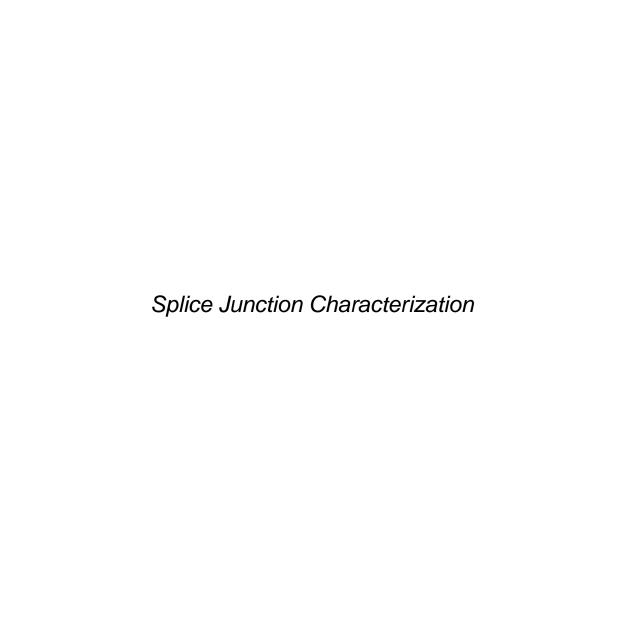
Applicable only to FSM and ISM categories



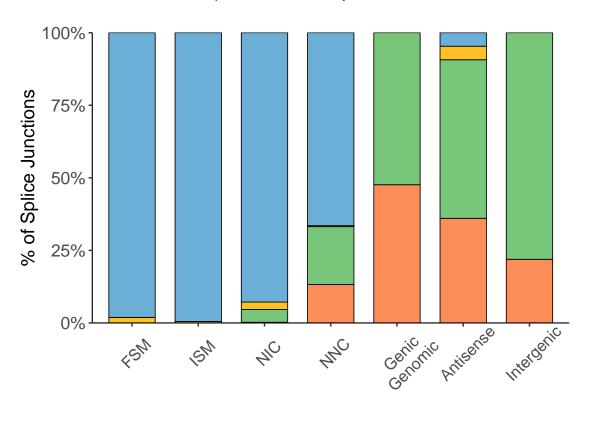
Exon Count Distribution of Matched Reference Transcripts

Applicable only to FSM and ISM categories





Distribution of Splice Junctions by Structural Classification



Known

canonical

Known

Non-canonical

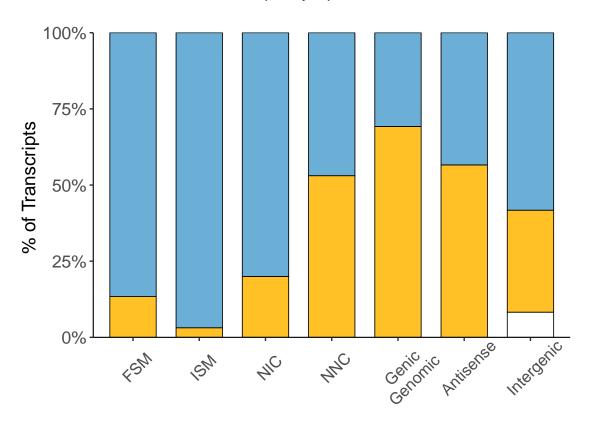
Novel

canonical

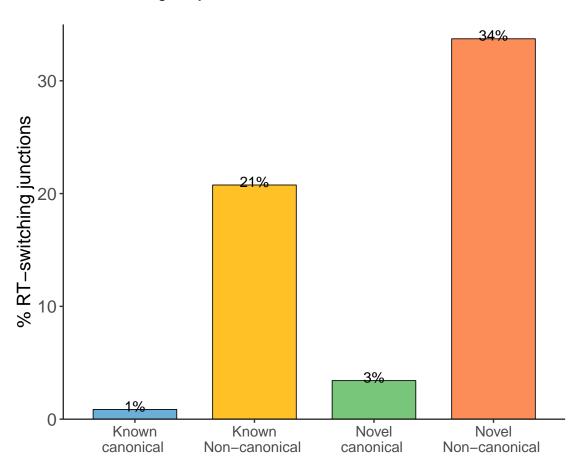
Novel

Non-canonical

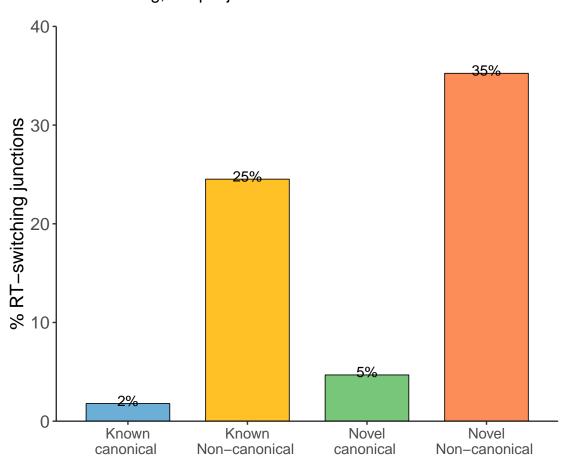
Distribution of Transcripts by Splice Junctions

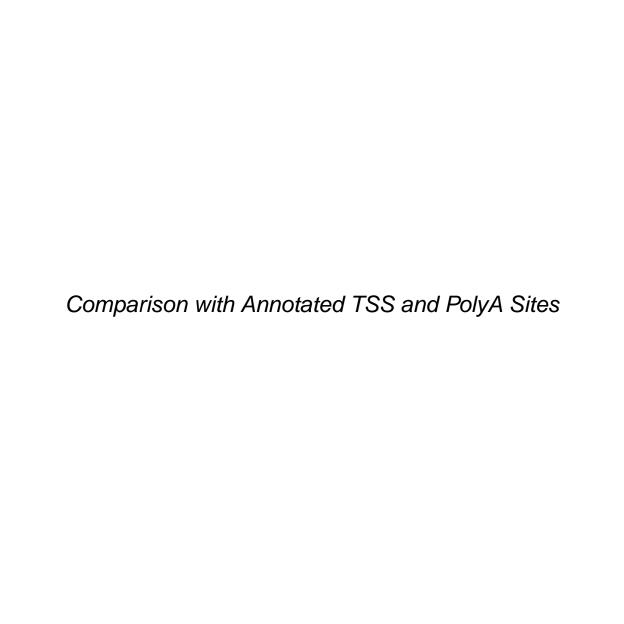


RT-switching, all junctions



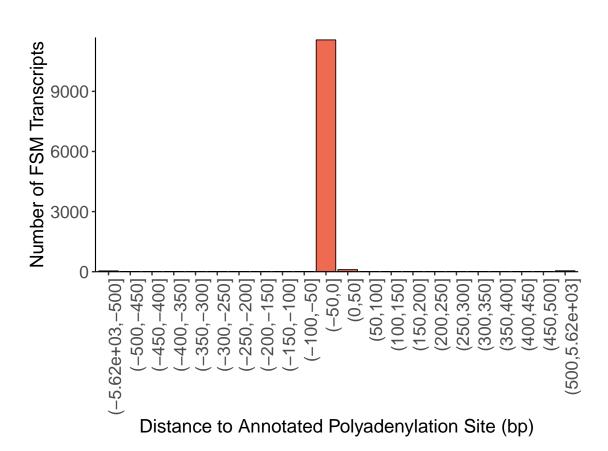
RT-switching, unique junctions





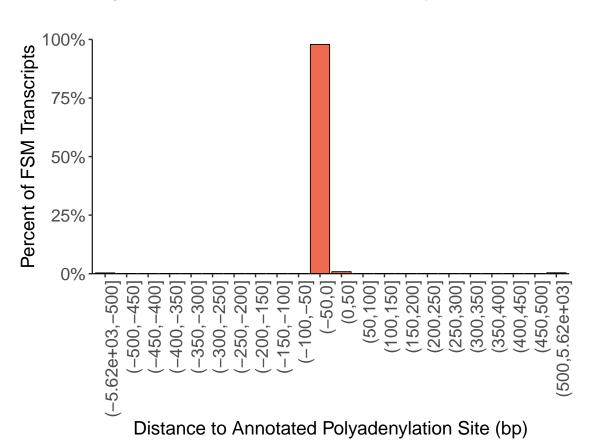
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



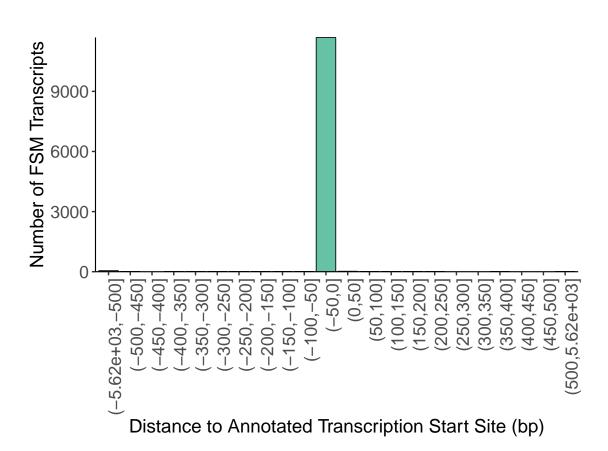
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



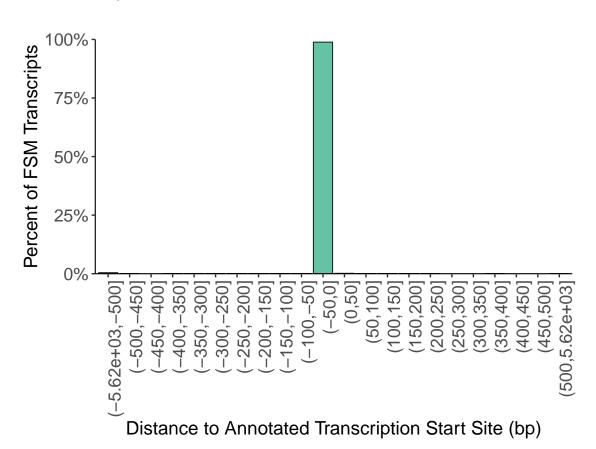
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



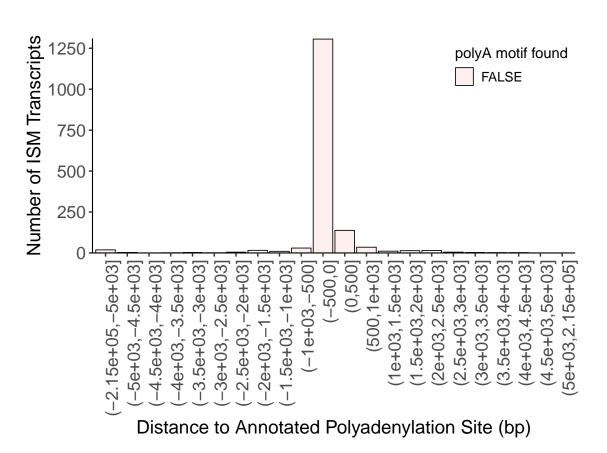
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



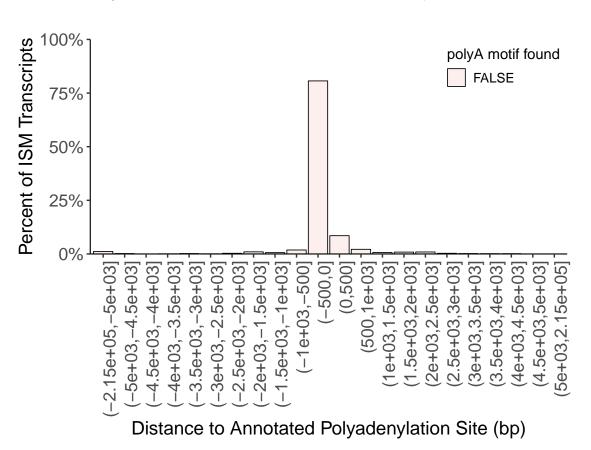
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



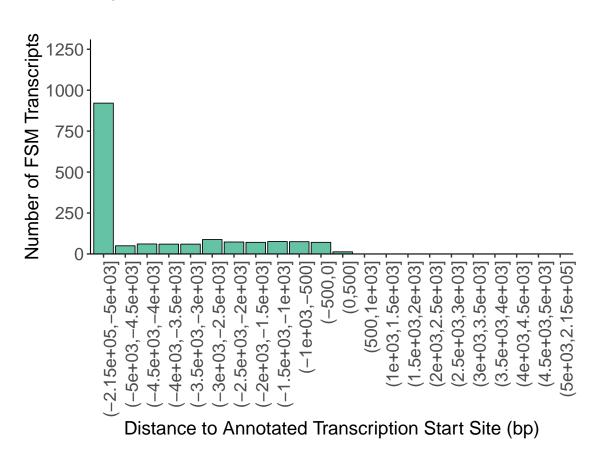
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



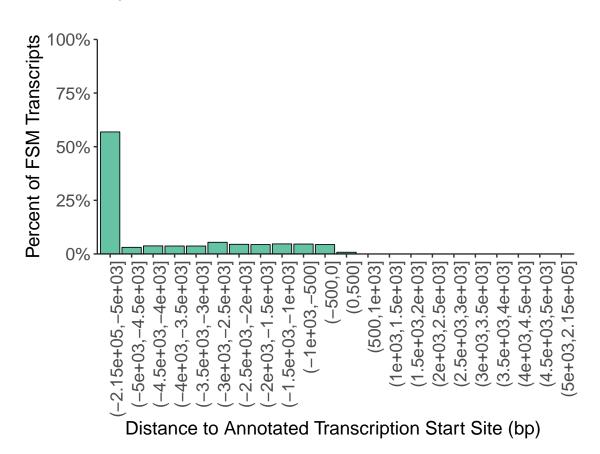
Distance to Annotated Transcription Start Site, ISM only

Negative values indicate downstream of annotated TSS

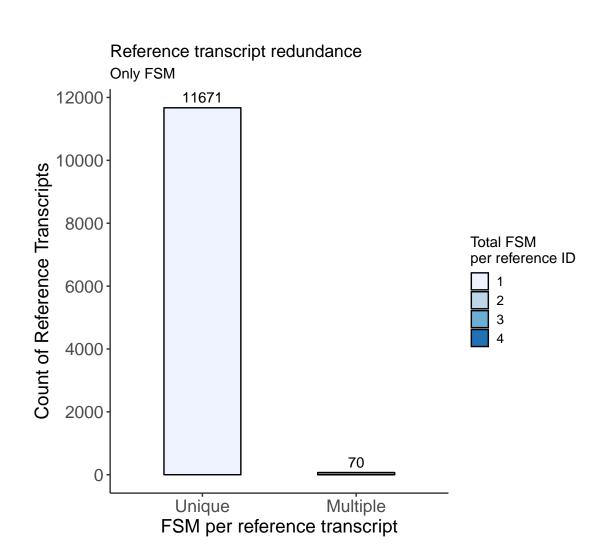


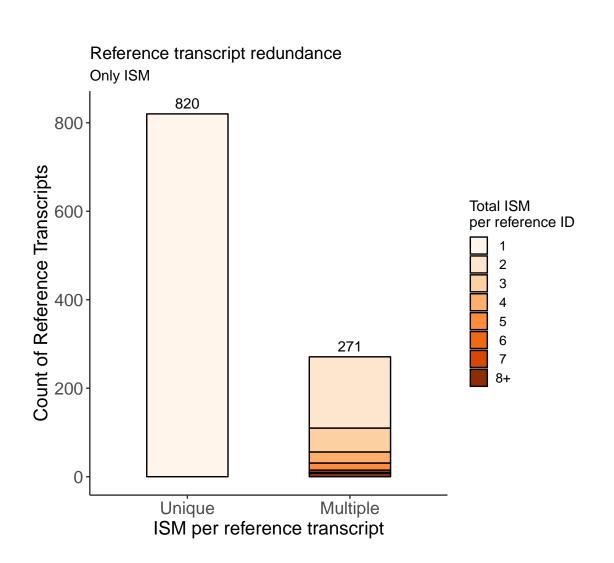
Distance to Annotated Transcription Start Site, ISM only

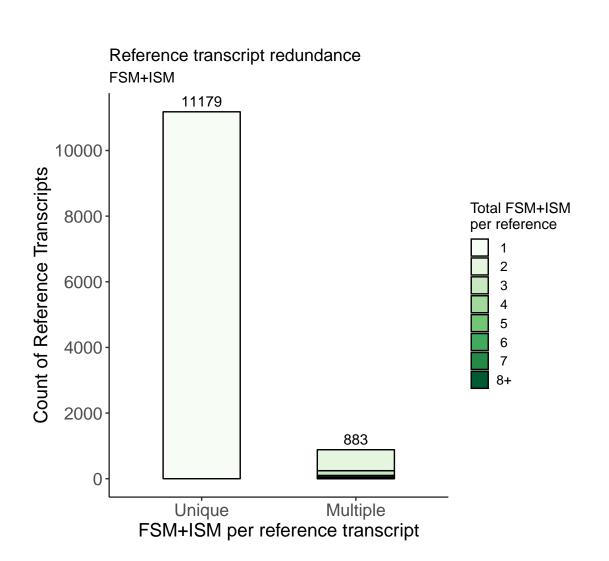
Negative values indicate downstream of annotated TSS



Accumulation of FSM and ISM to the same reference transcript



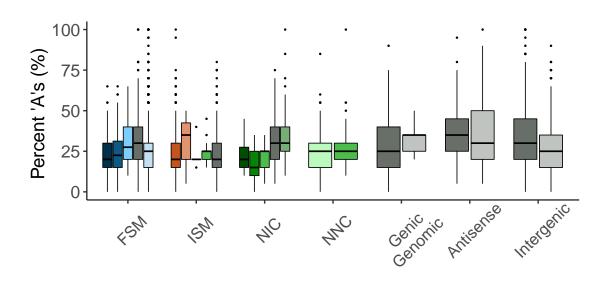


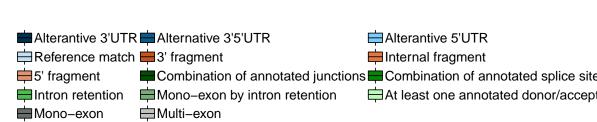




Possible Intra-Priming by Structural Category

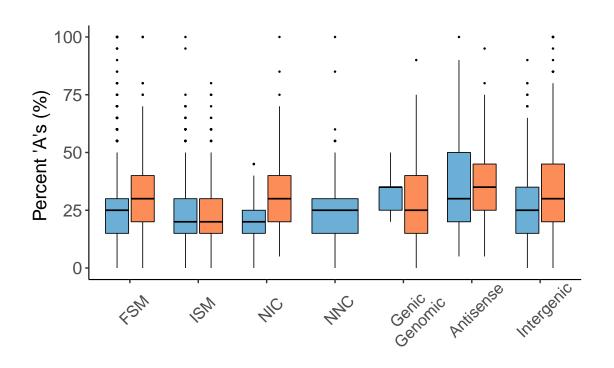
Percent of genomic 'A's in downstream 20 bp





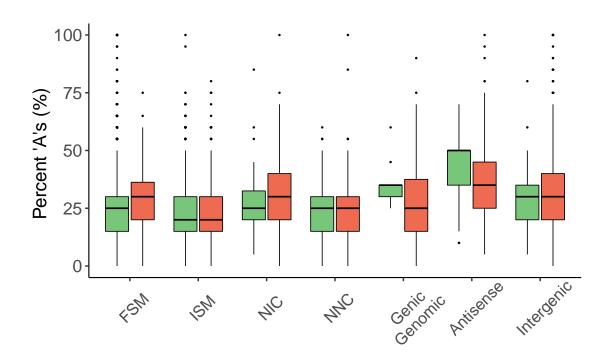
Possible Intra-Priming, Mono- vs Multi-Exon

Percent of genomic 'A's in downstream 20 bp



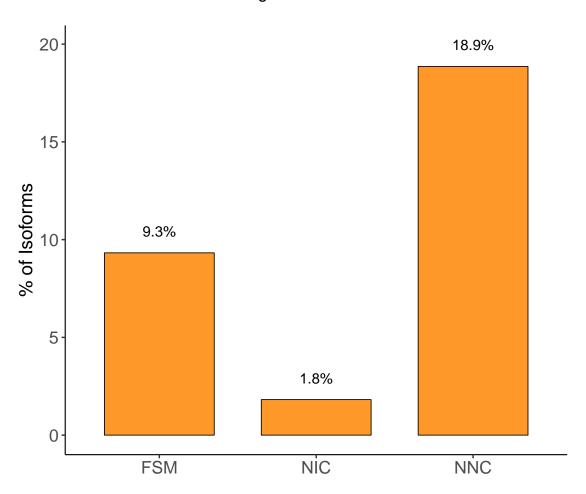
Possible Intra-Priming, Coding vs Non-Coding

Percent of genomic 'A's in downstream 20 bp

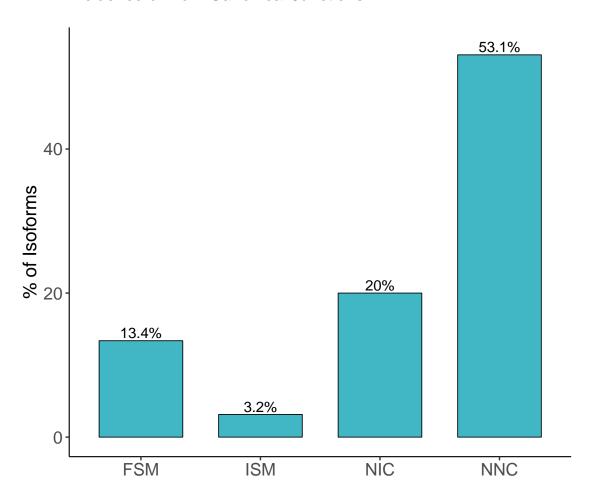




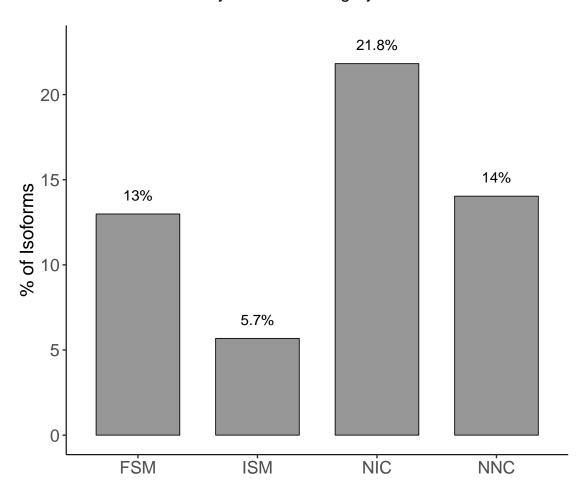
Incidence of RT-switching



Incidence of Non-Canonical Junctions



Incidence of NMD by structural category



Quality control attributes across structural categories

