

SQANTI report

Unique Genes: 12806

Unique Isoforms: 68553

Gene classification

Category	# Genes
Annotated Genes	12076
Novel Genes	730

*Characterization of transcripts
based on splice junctions*

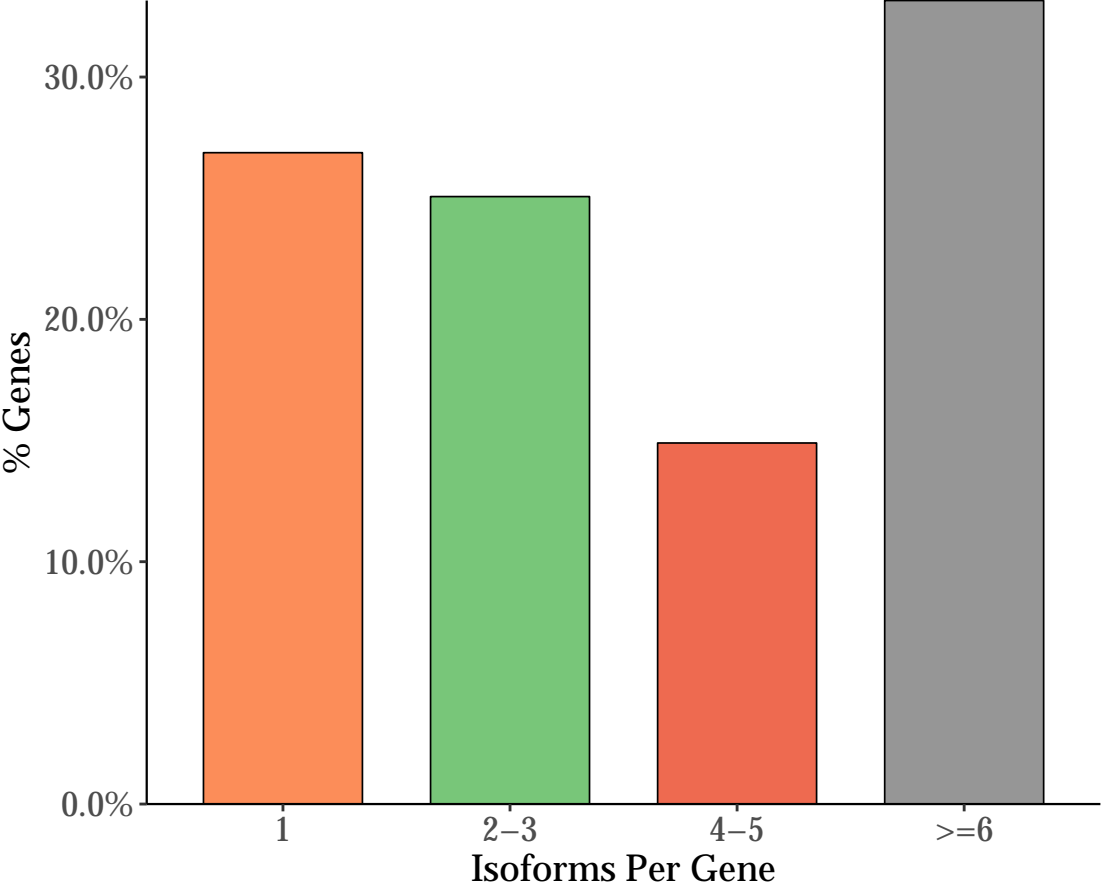
Category	# Isoforms
FSM	28988
ISM	5732
NIC	18868
NNC	13819
Genic Genomic	333
Antisense	463
Fusion	0
Intergenic	350
Genic Intron	0

Splice Junction Classification

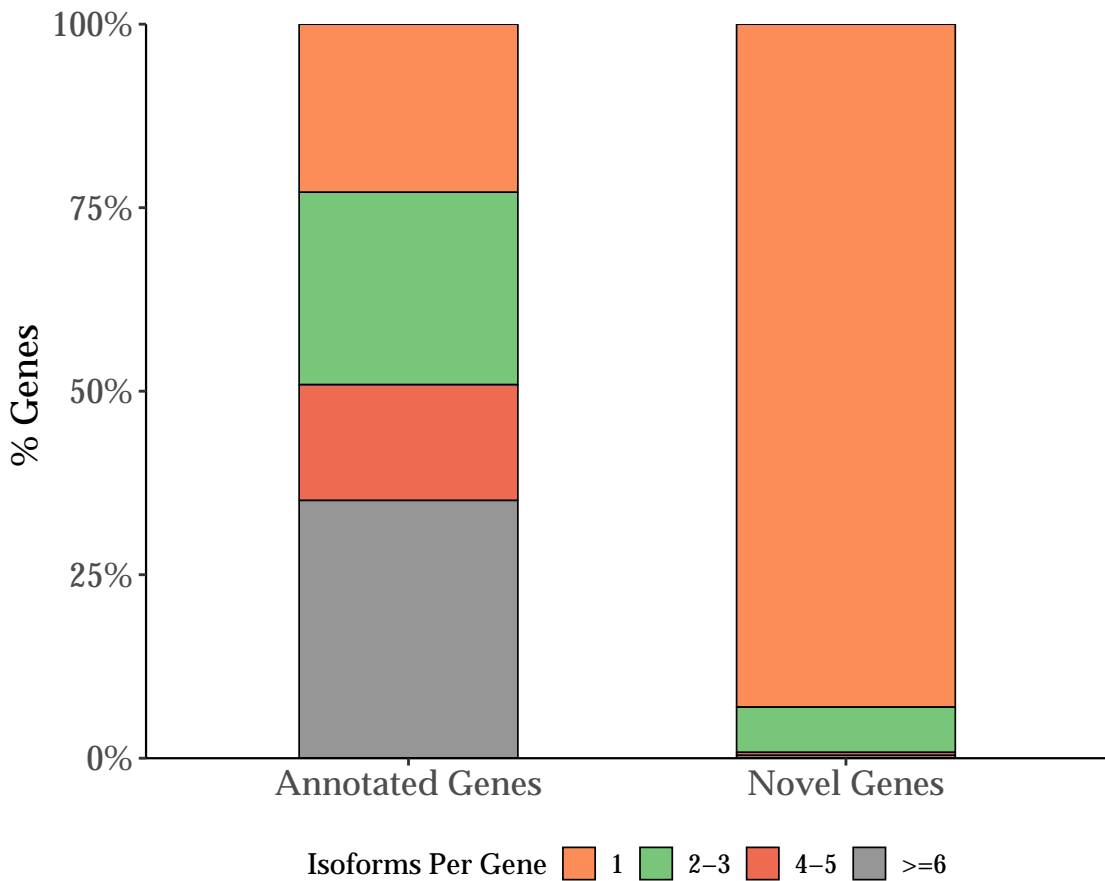
Category	# SJs	Percent
Known canonical	127162	87.97
Known Non-canonical	95	0.07
Novel canonical	13603	9.41
Novel Non-canonical	3697	2.56

Gene Characterization

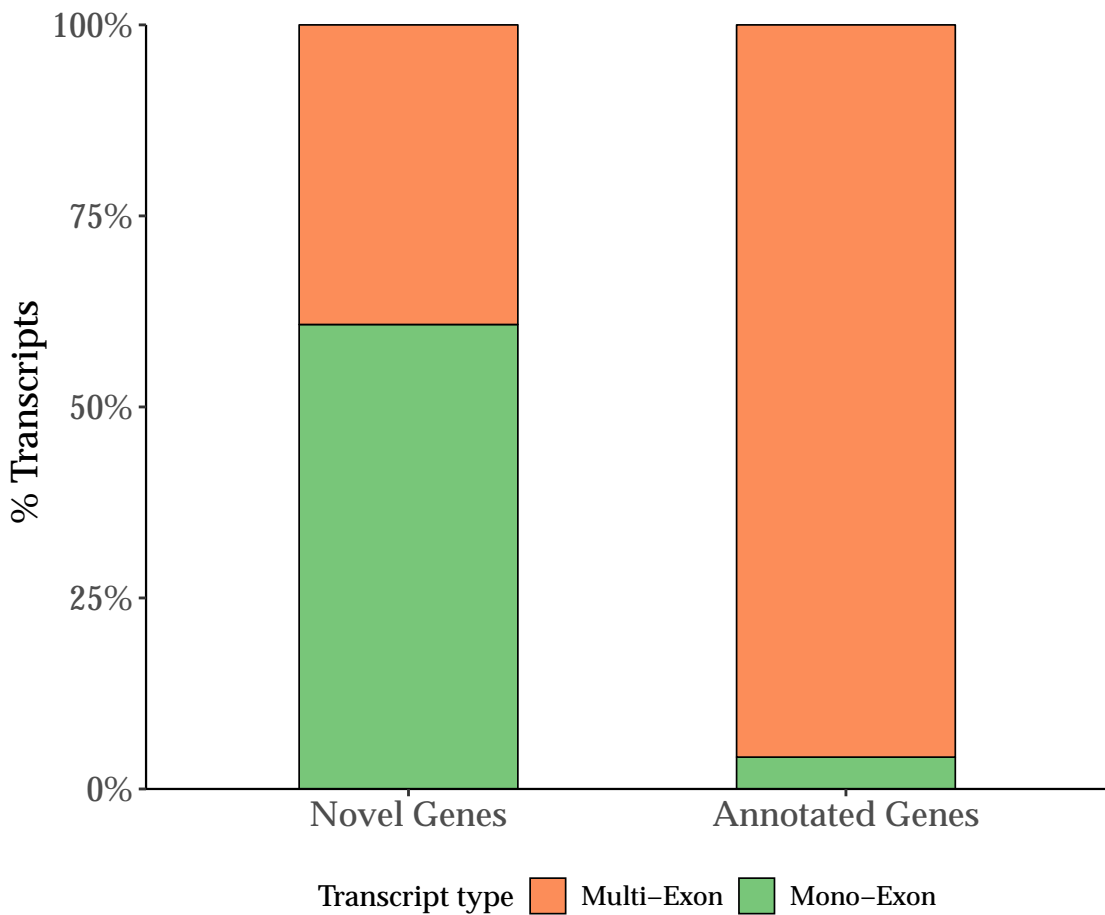
Number of Isoforms per Gene



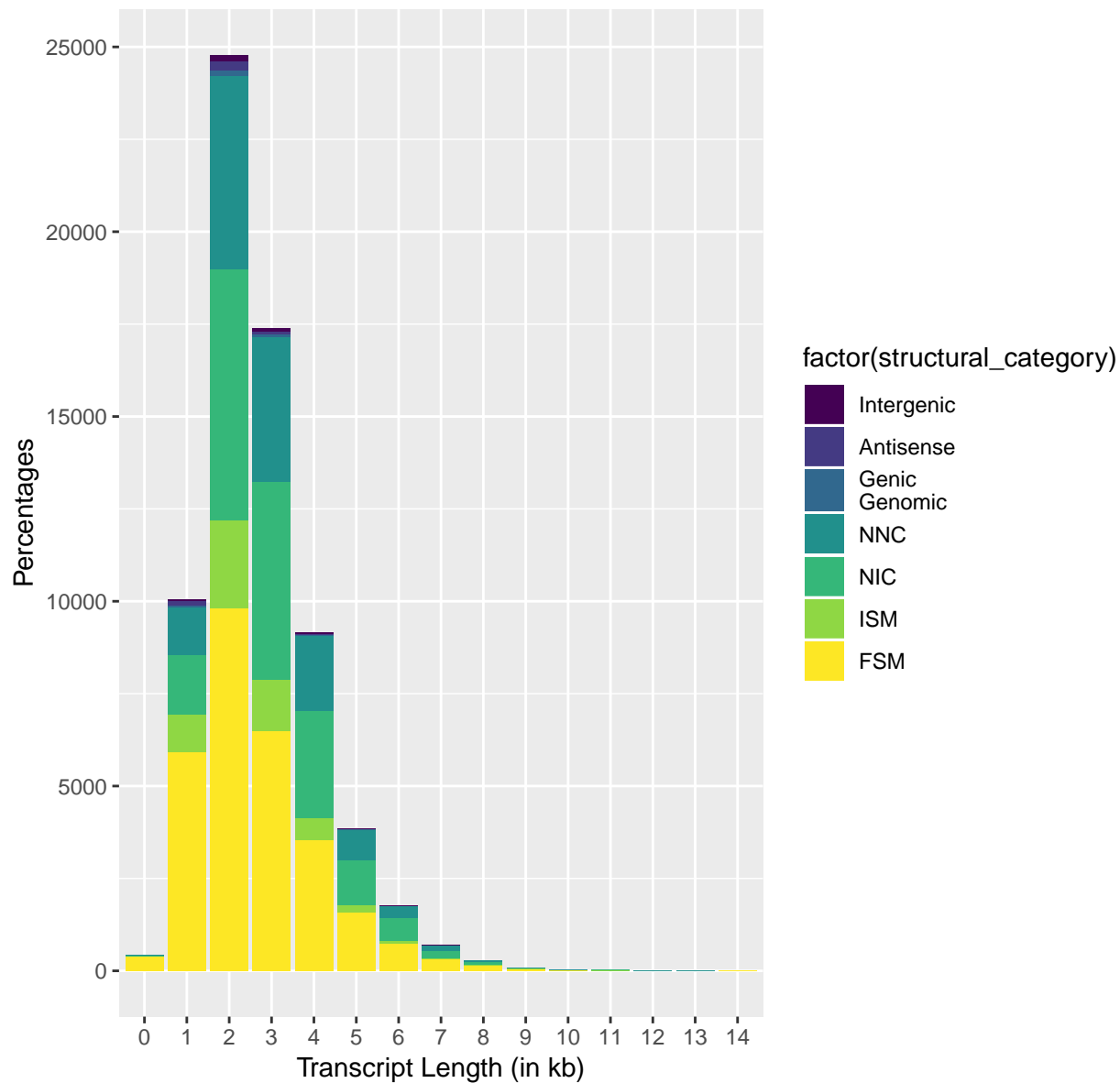
Number of Isoforms per Gene, Novel vs Known Genes



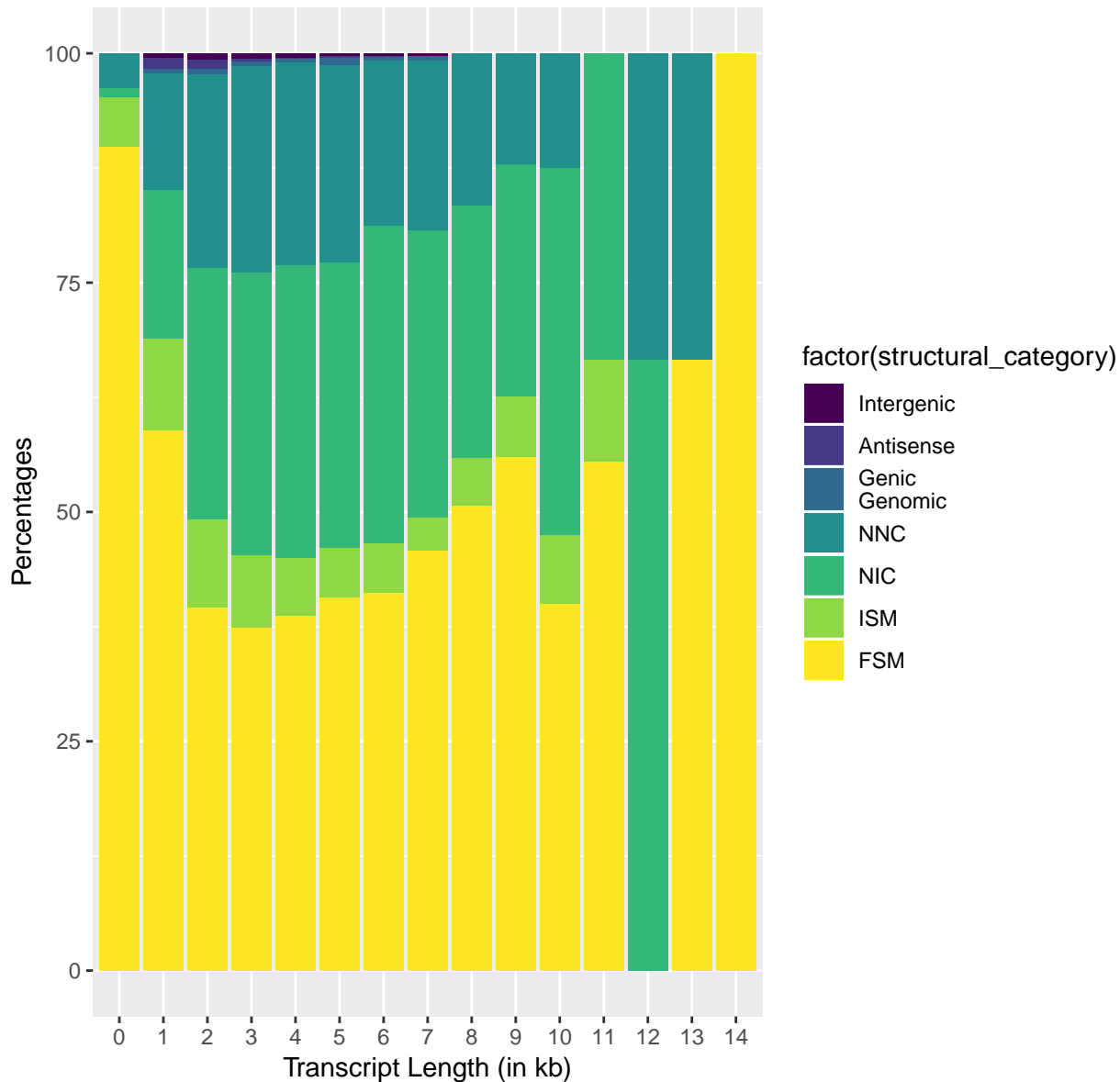
Distribution of Mono- vs Multi-Exon Transcripts



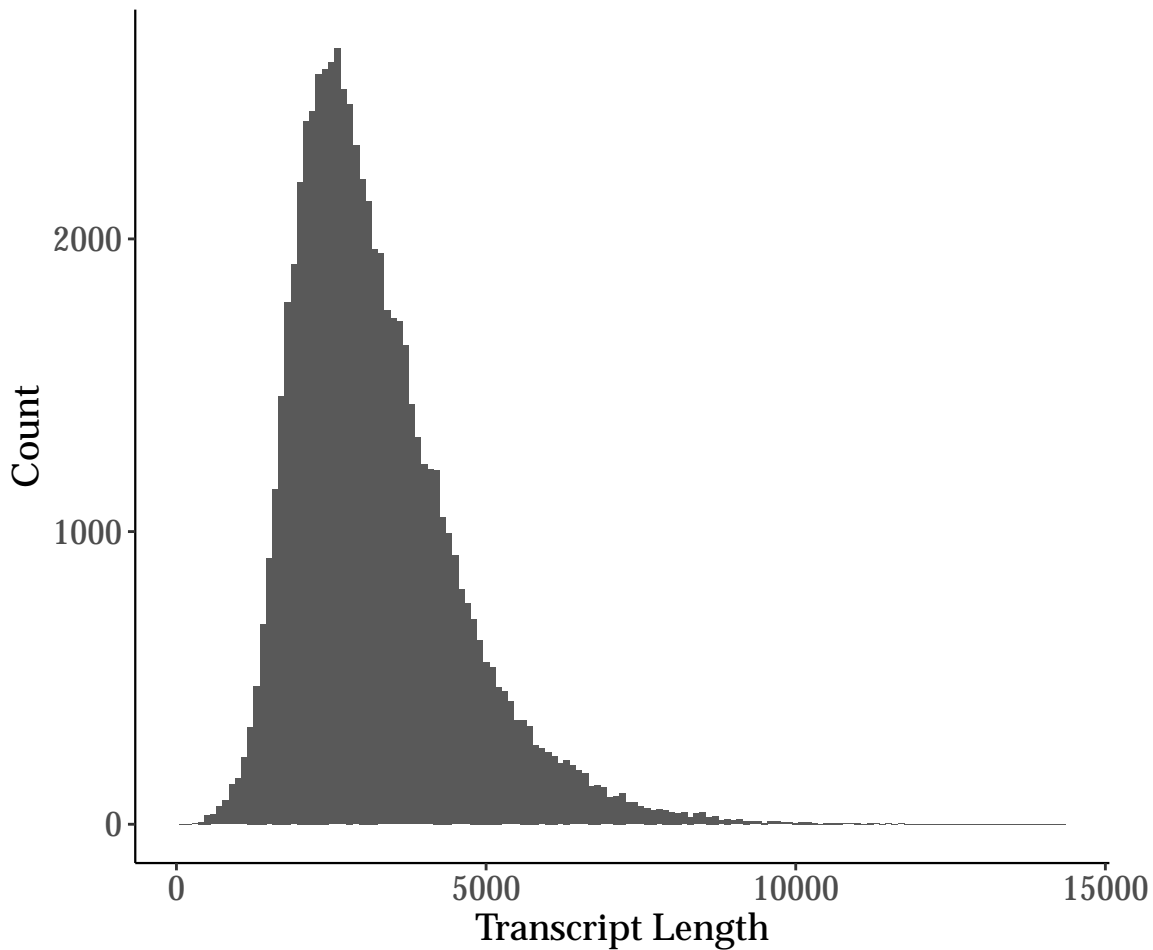
Classifications by Transcript Length



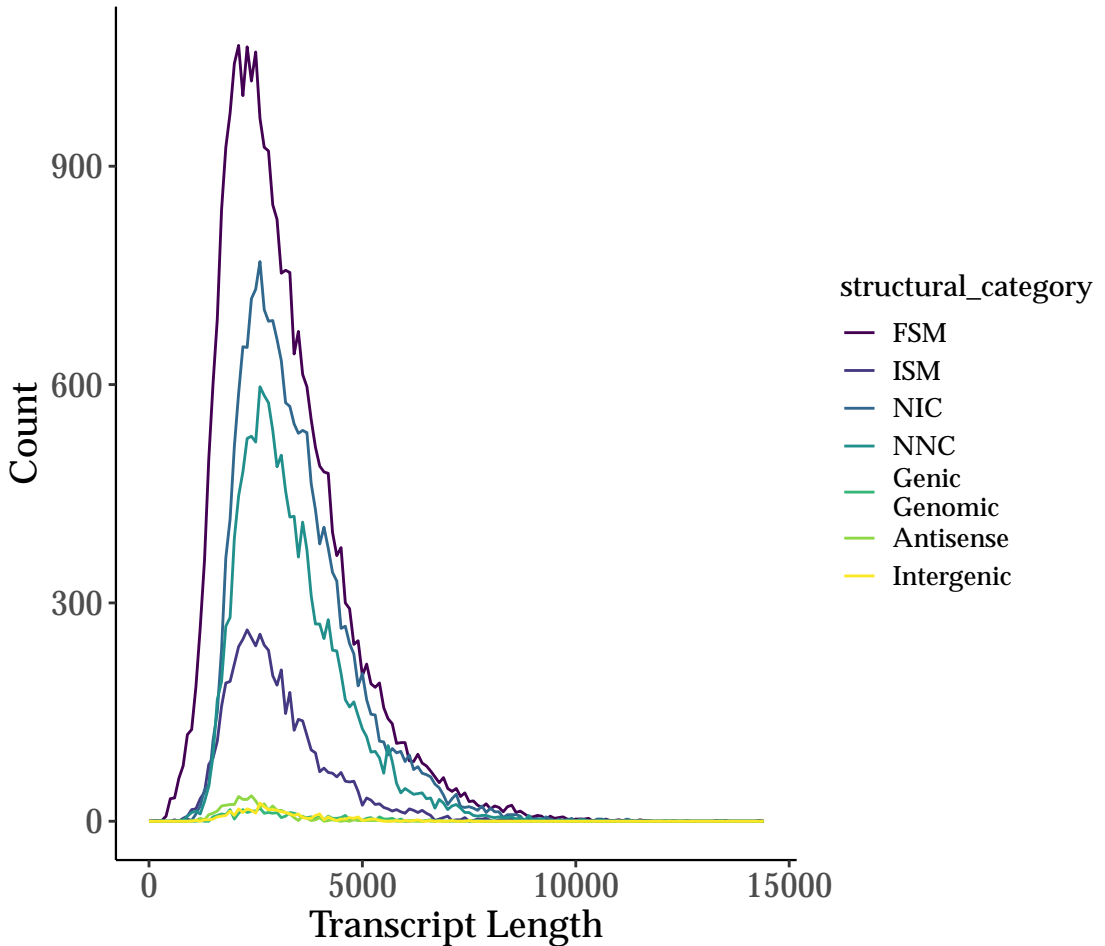
Classifications by Transcript Length, normalized



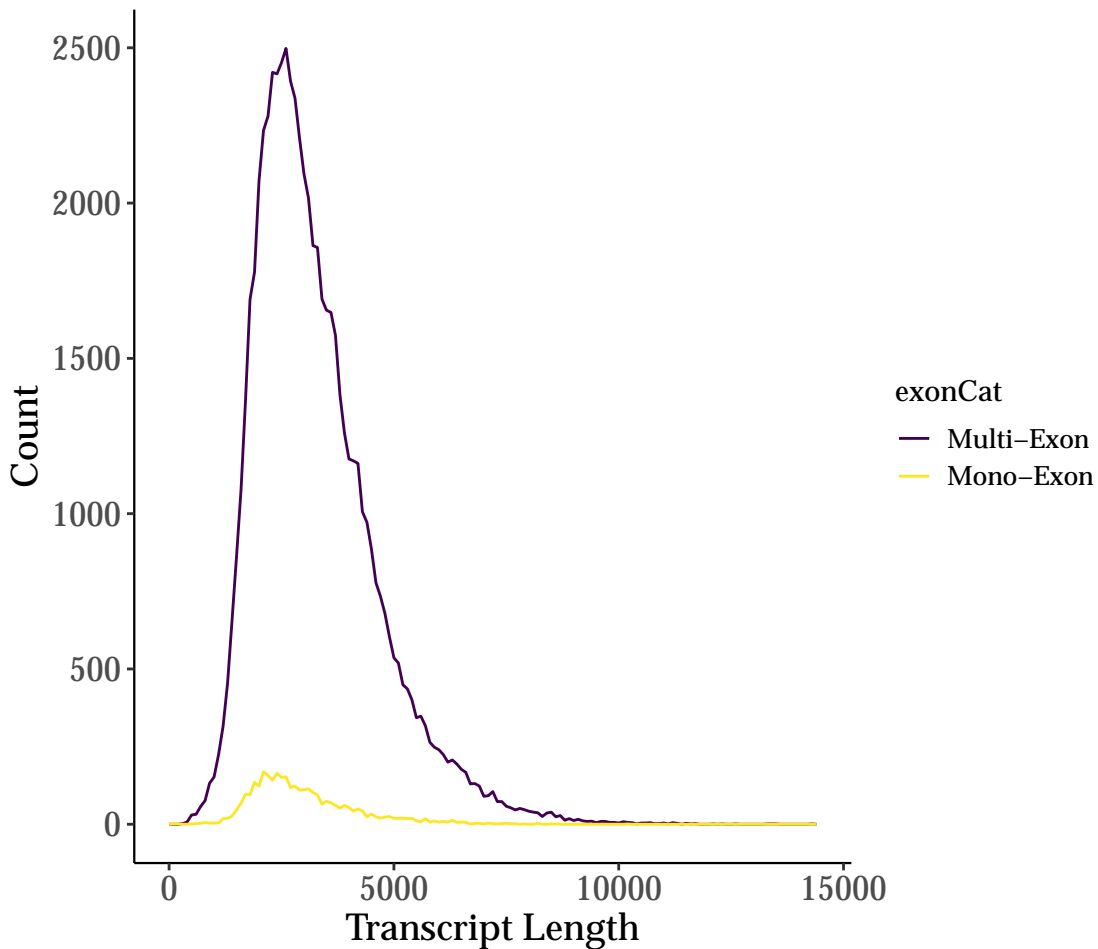
Transcript Lengths, all transcripts



Transcript Lengths, by structural category

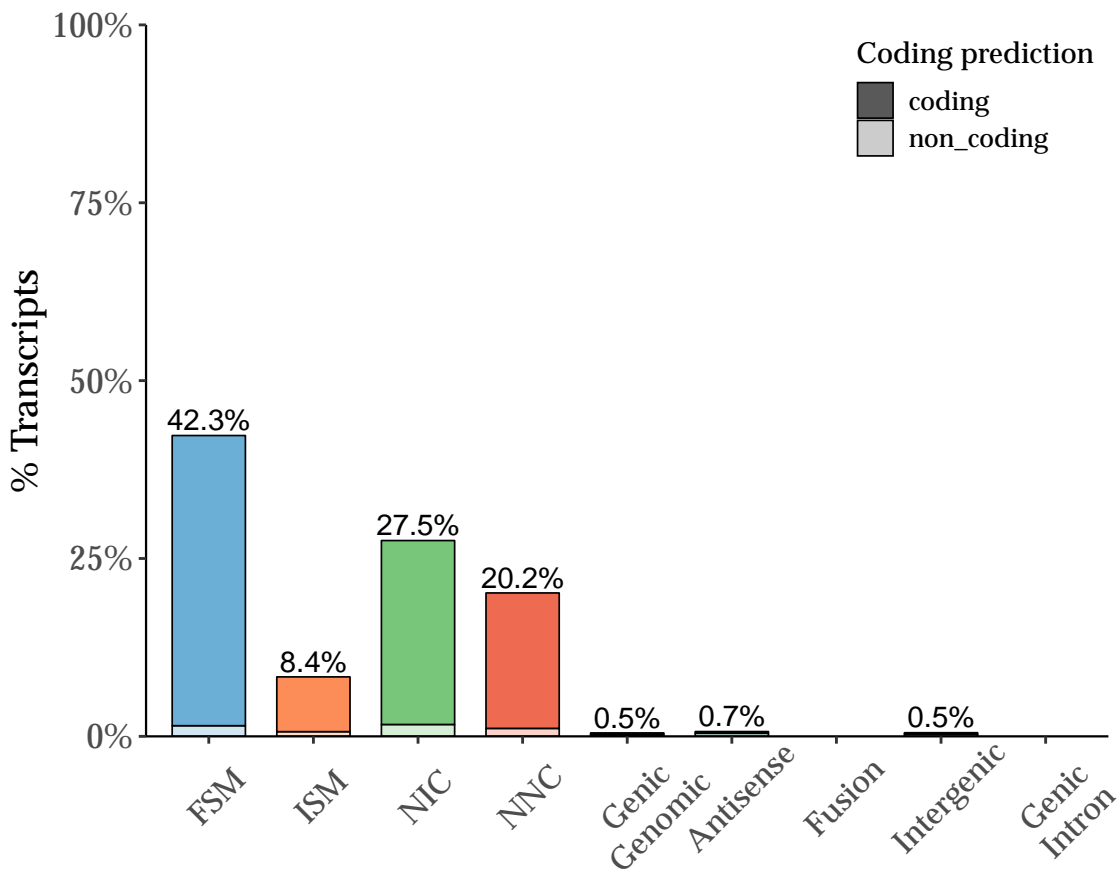


Transcript Lengths, Mono- vs Multi-Exons

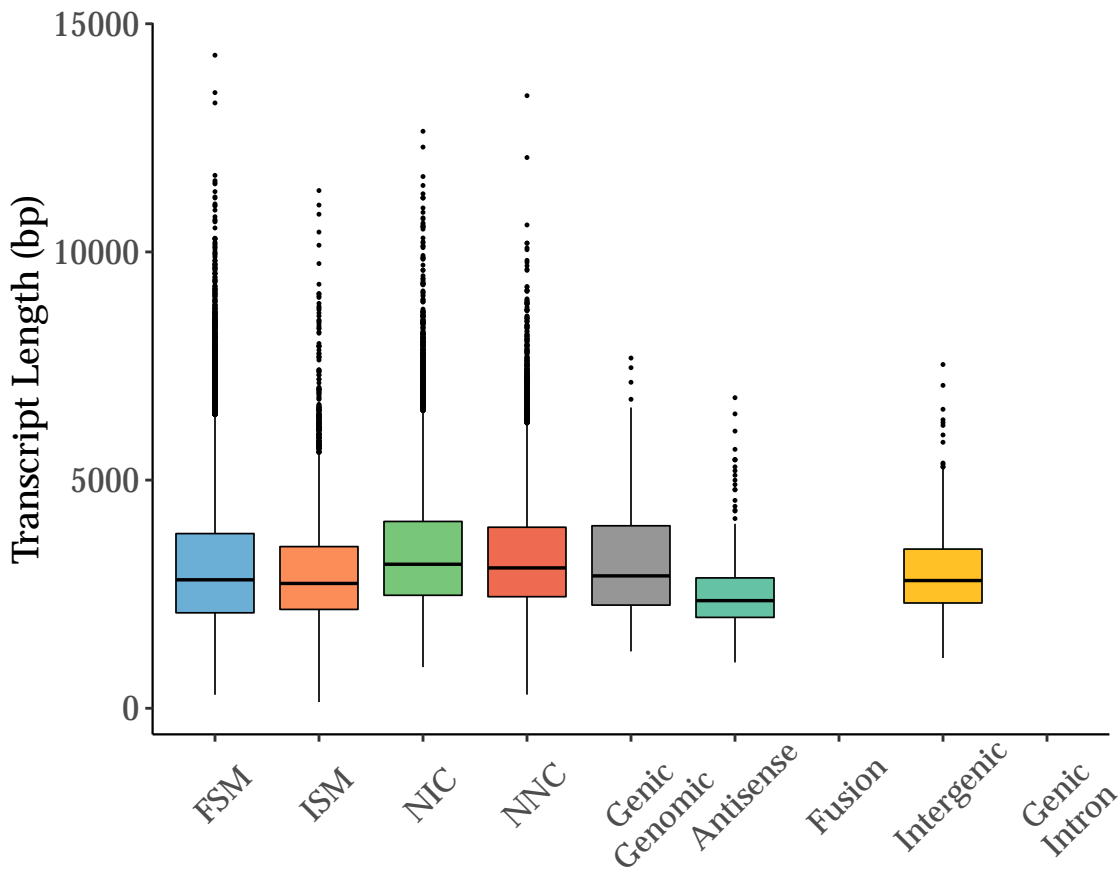


*Structrual Isoform Characterization
by Splice Junctions*

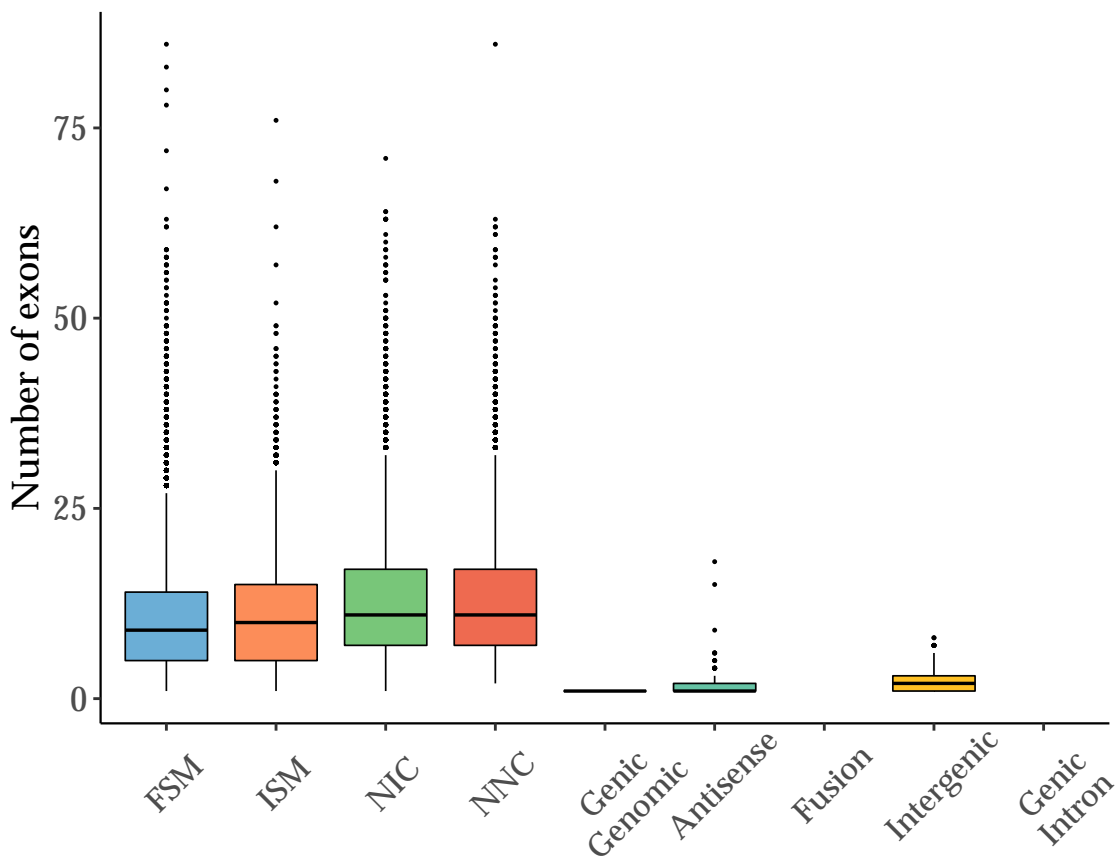
Isoform distribution across structural categories



Transcript Lengths by Structural Classification

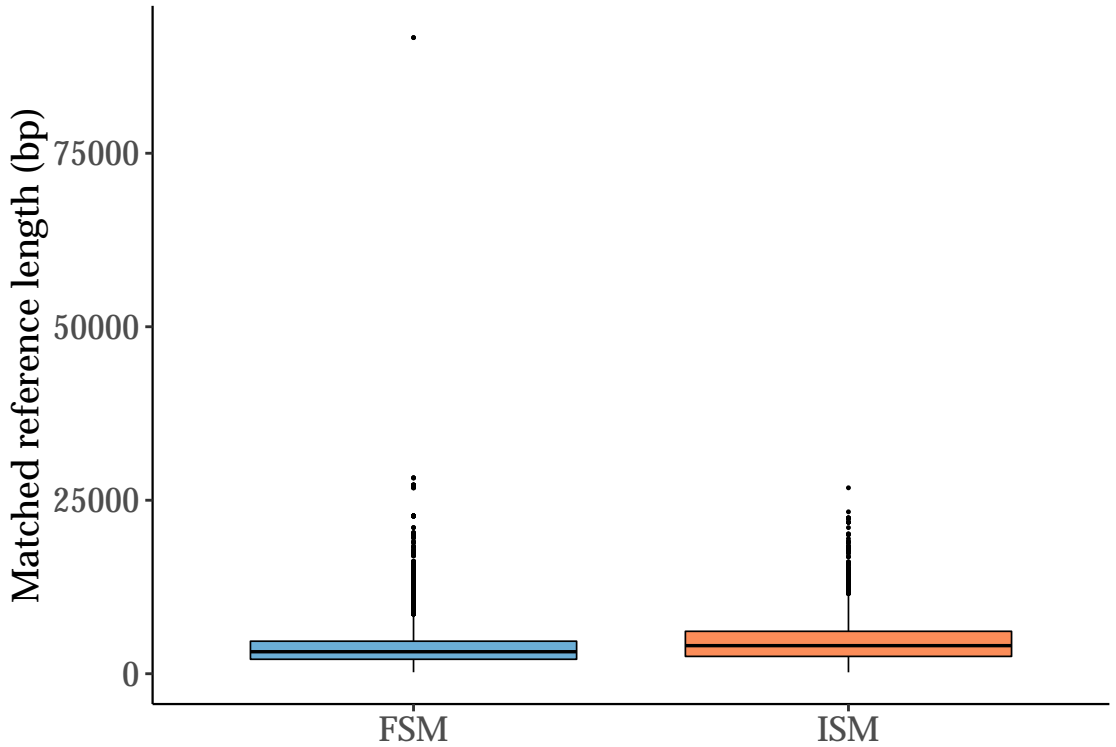


Exon Counts by Structural Classification



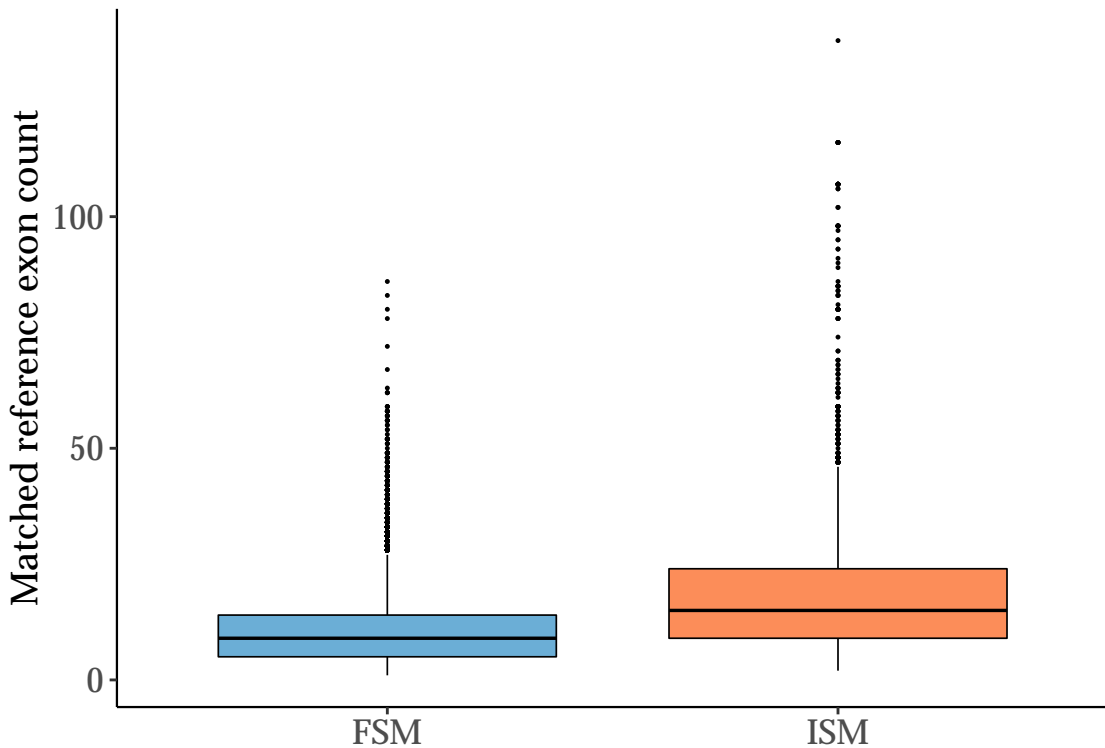
Length distribution of matched reference transcripts

Applicable only to FSM and ISM categories



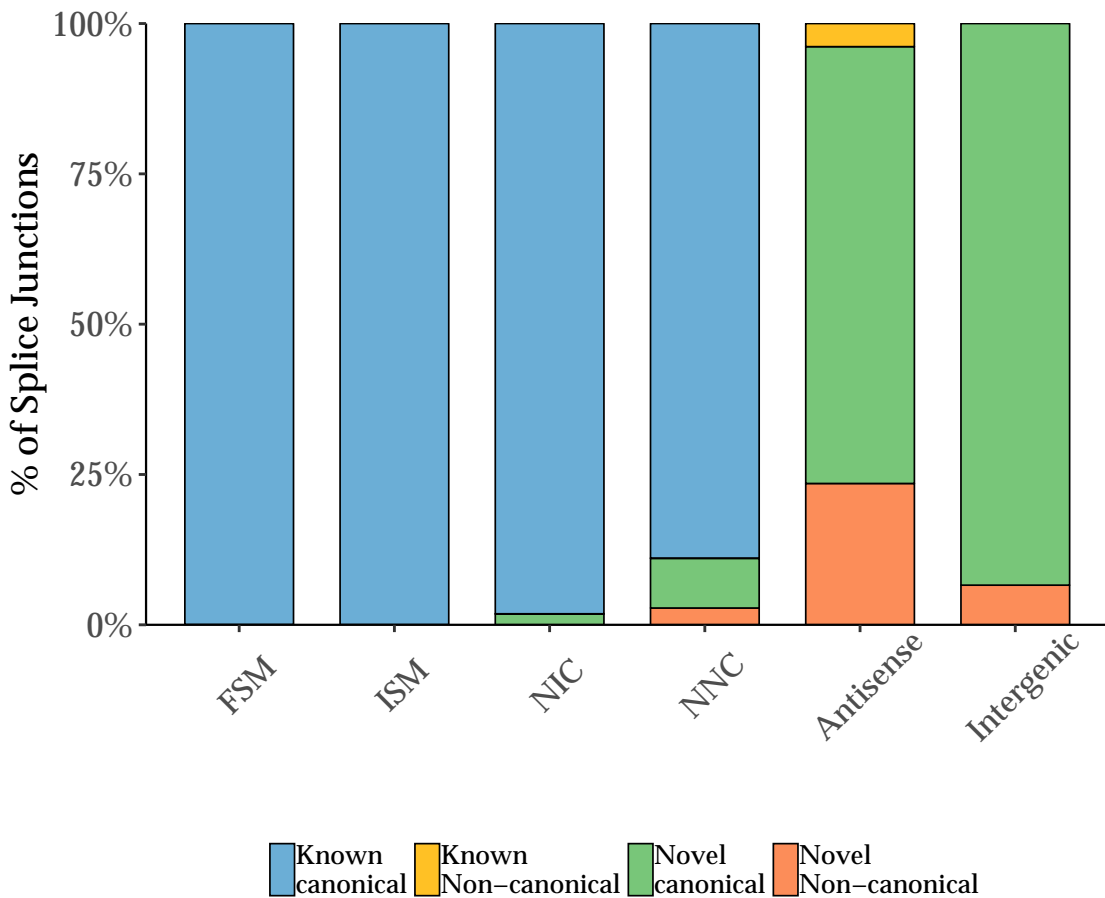
Exon number distribution of matched reference transcripts

Applicable only to FSM and ISM categories

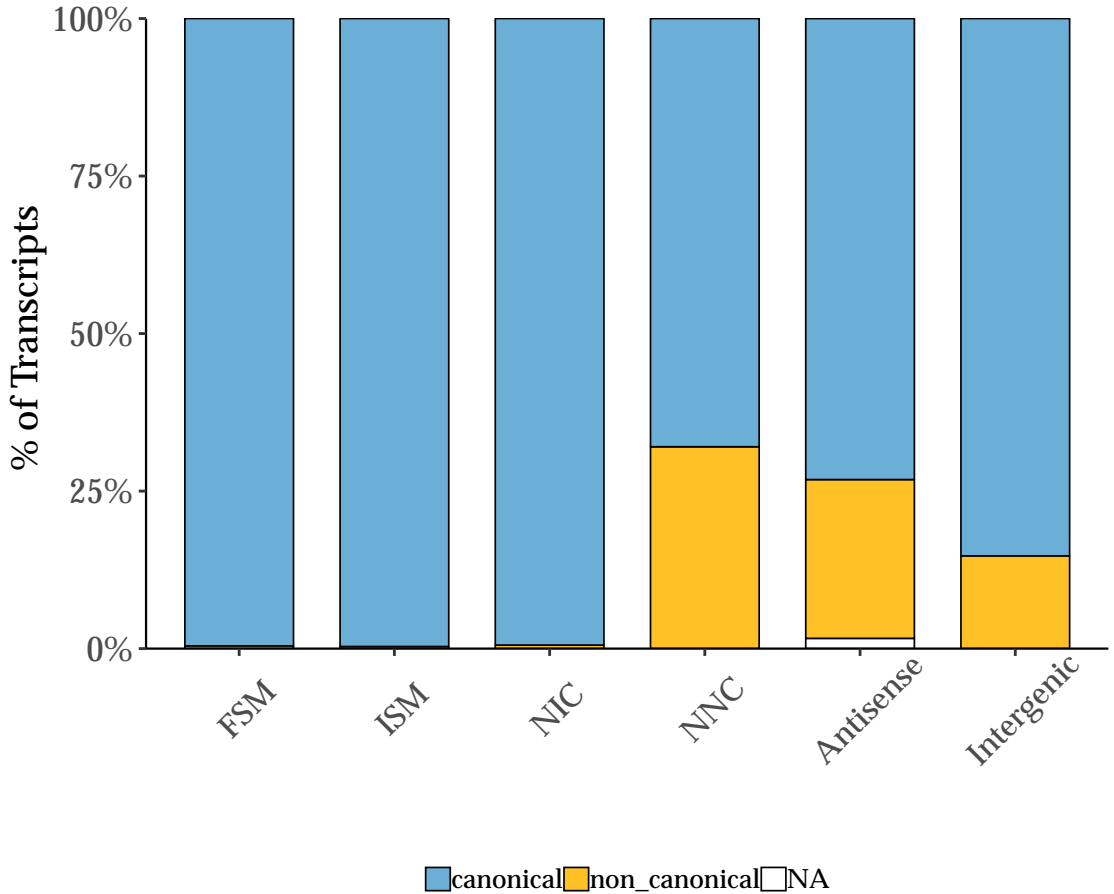


Splice Junction Characterization

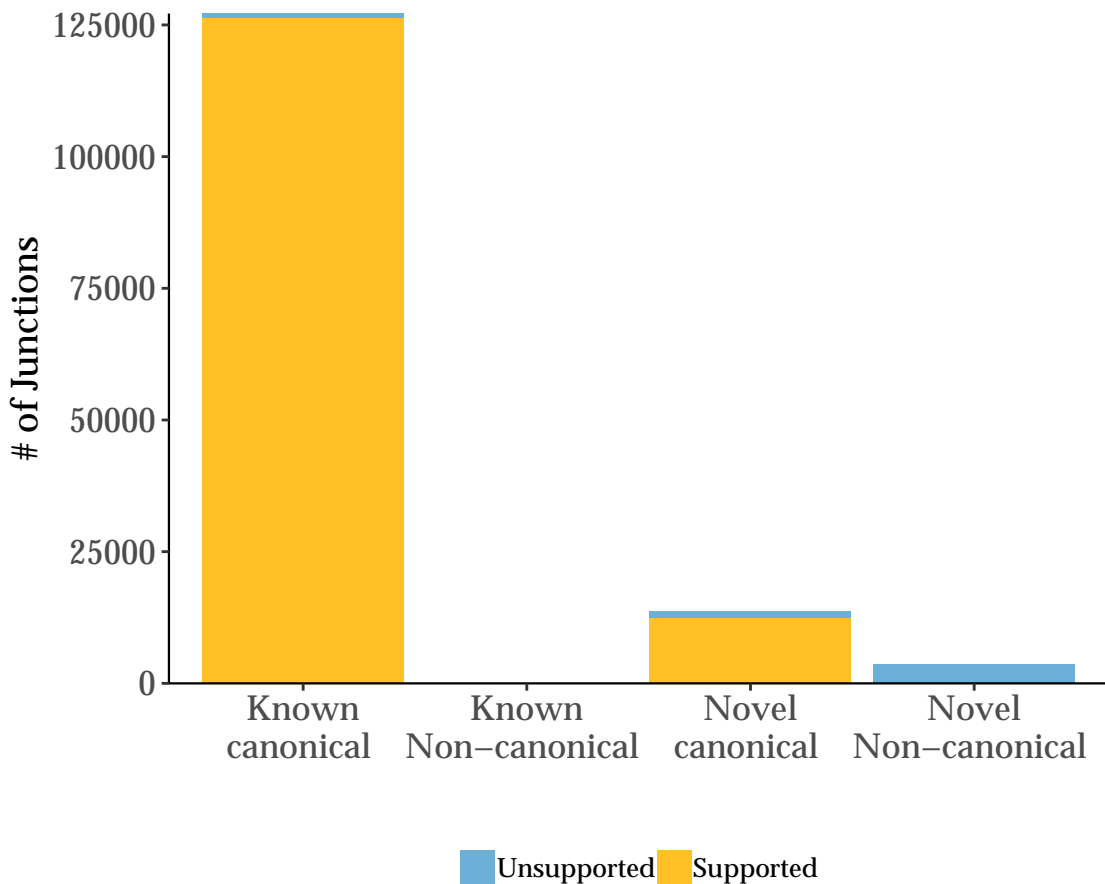
Distribution of Splice Junctions by Structural Classification



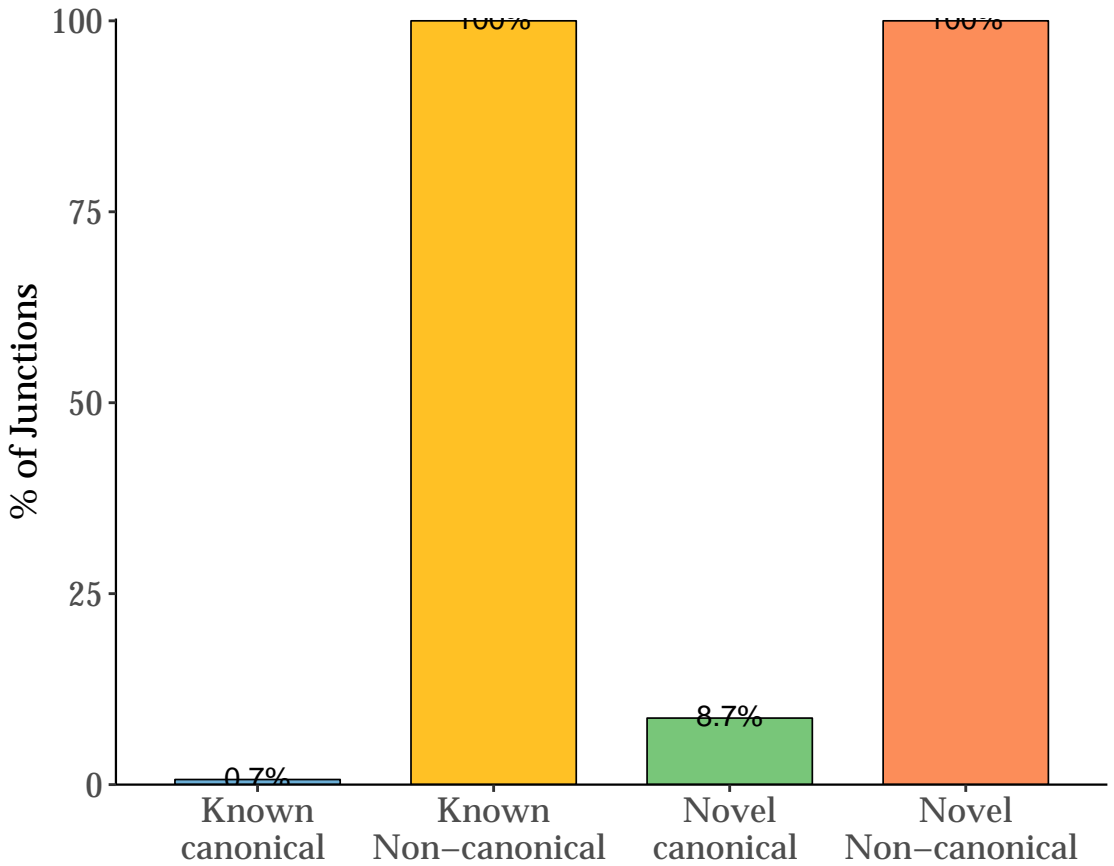
Distribution of Transcripts by Splice Junctions



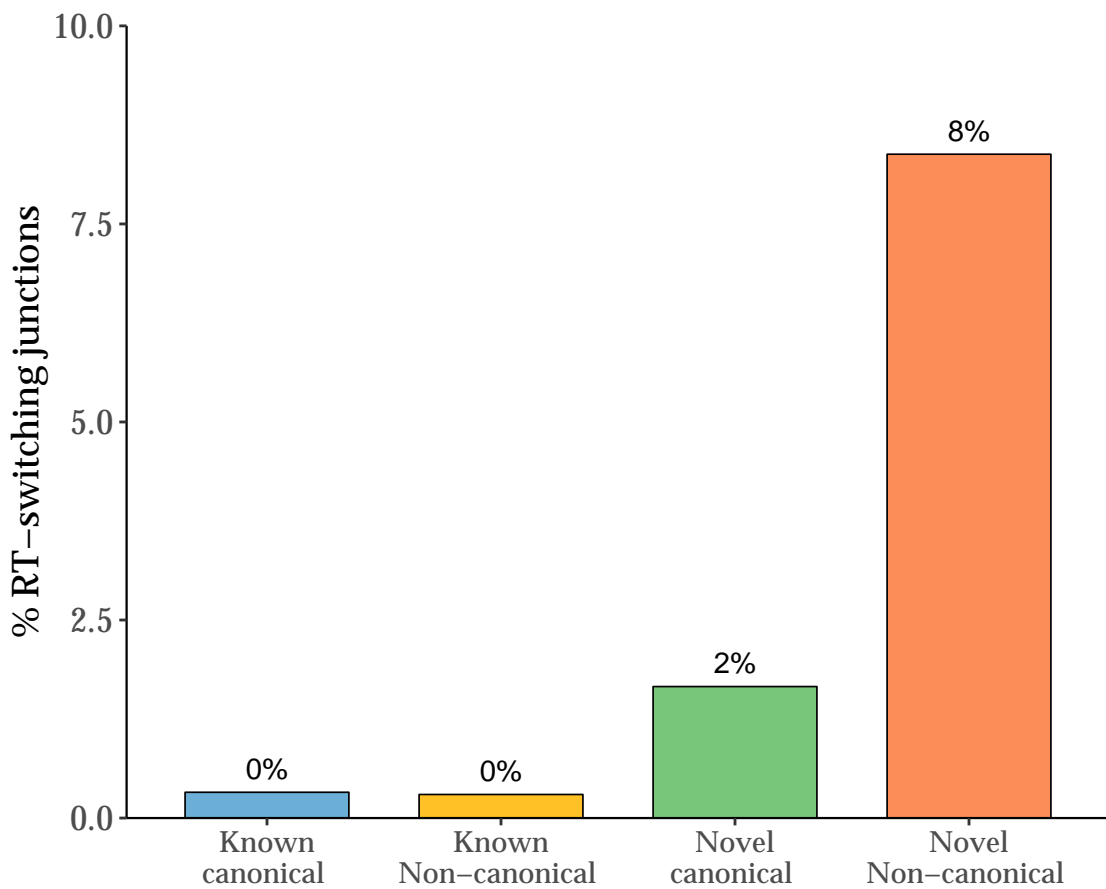
Unique junctions w/ or w/out short read coverage



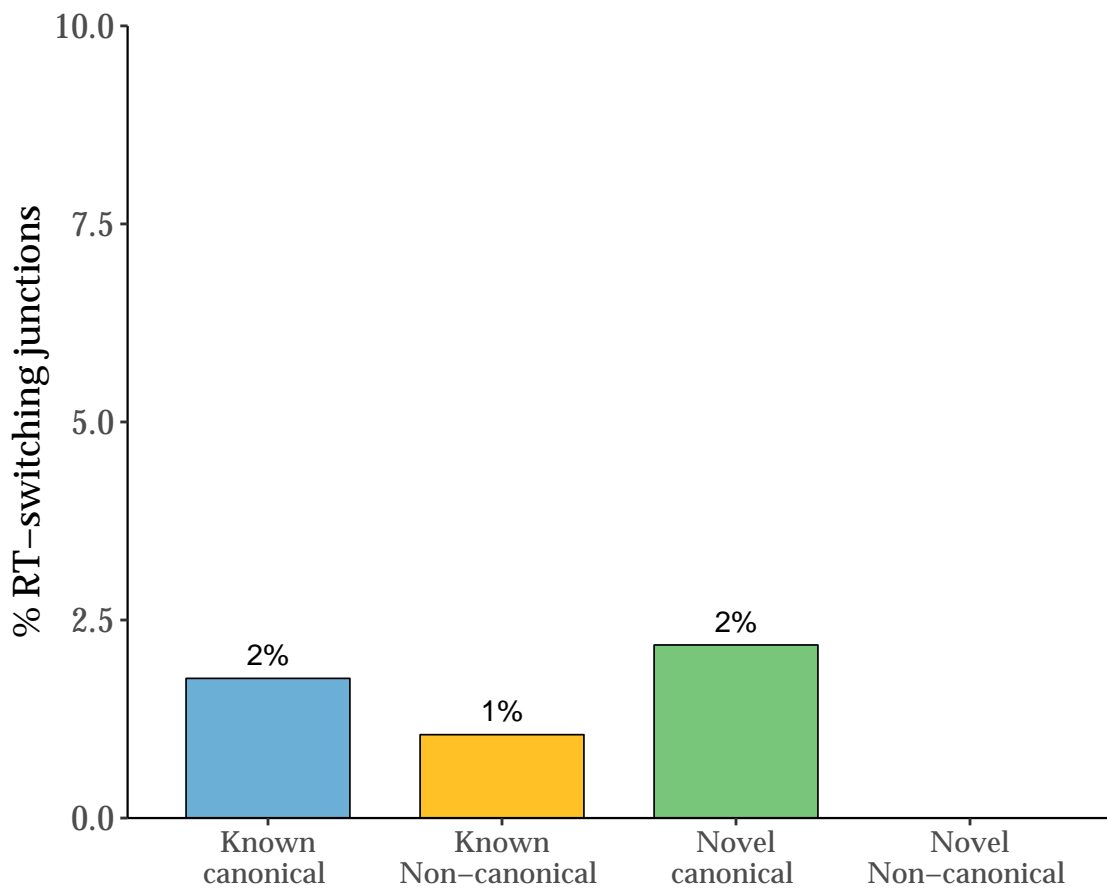
Unique junctions w/out short read coverage (percentage)



RT-switching, all junctions



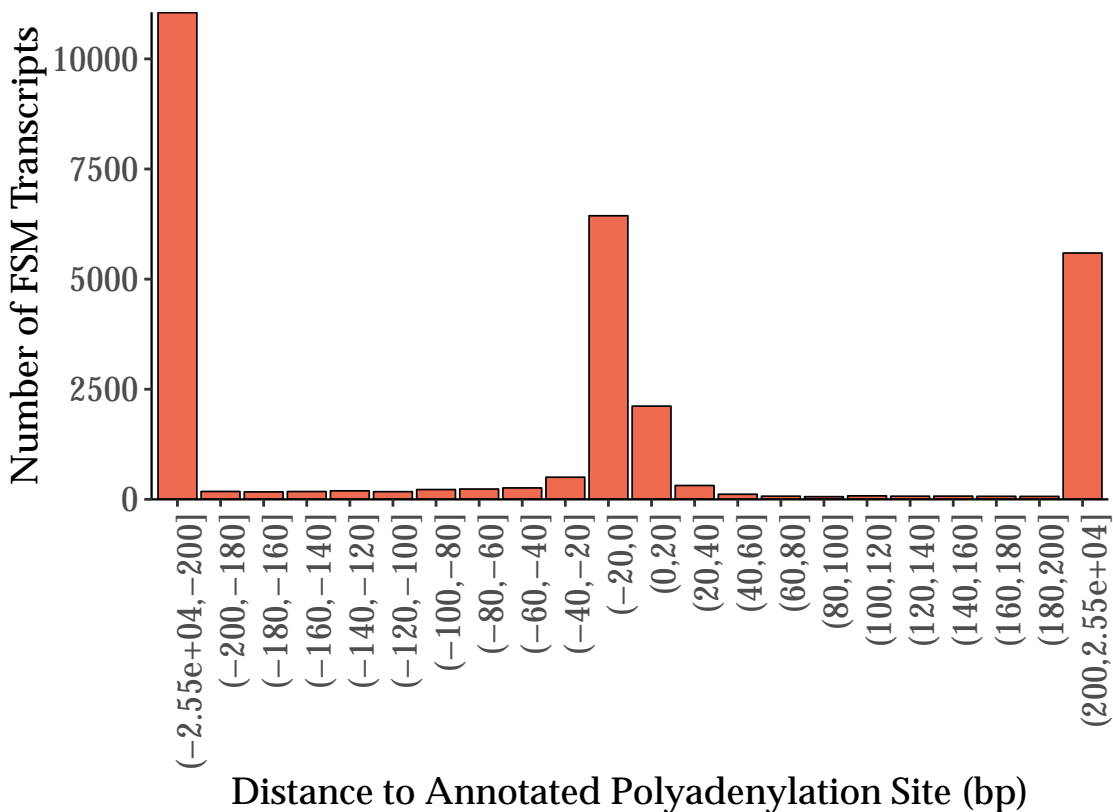
RT-switching, unique junctions



Comparison with Annotated TSS and PolyA Sites

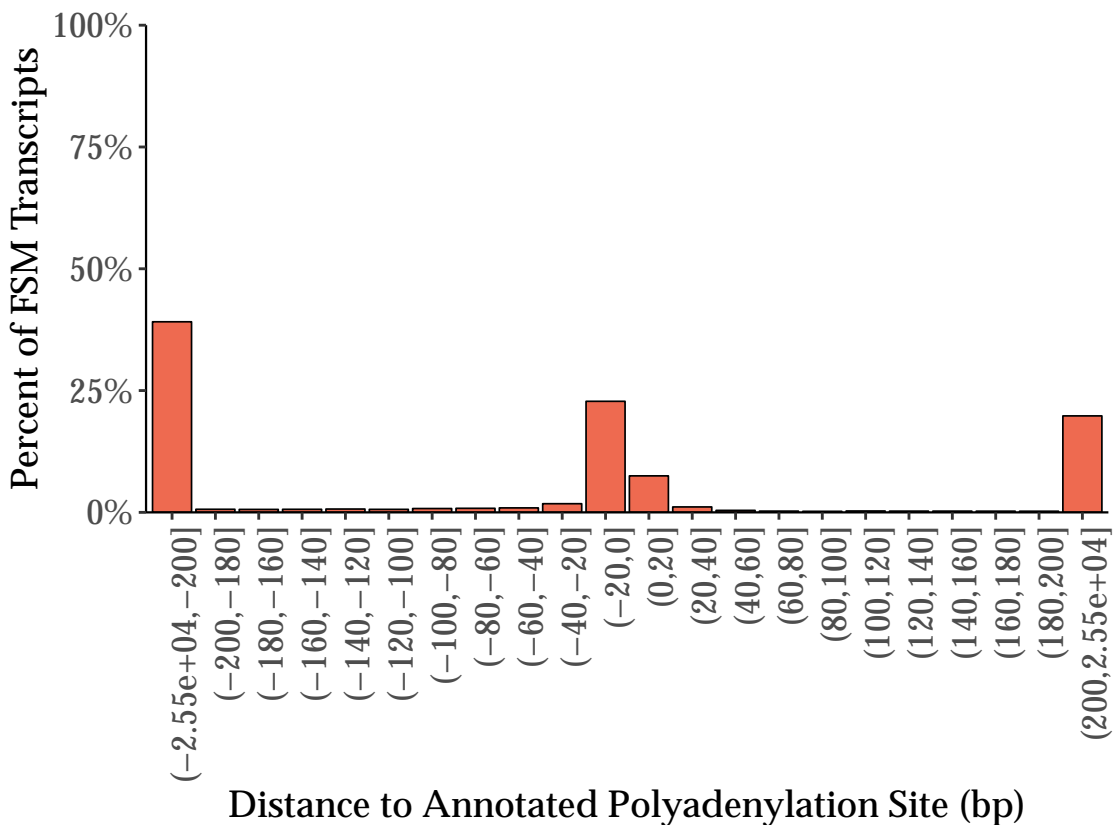
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



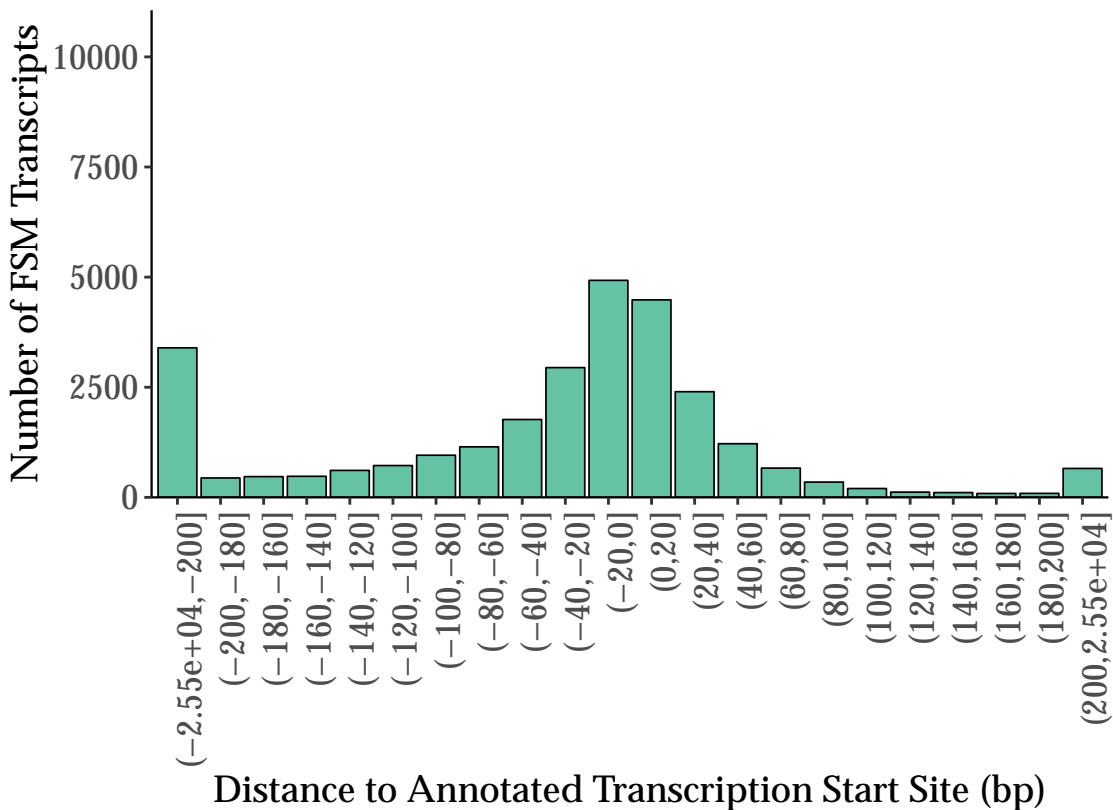
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



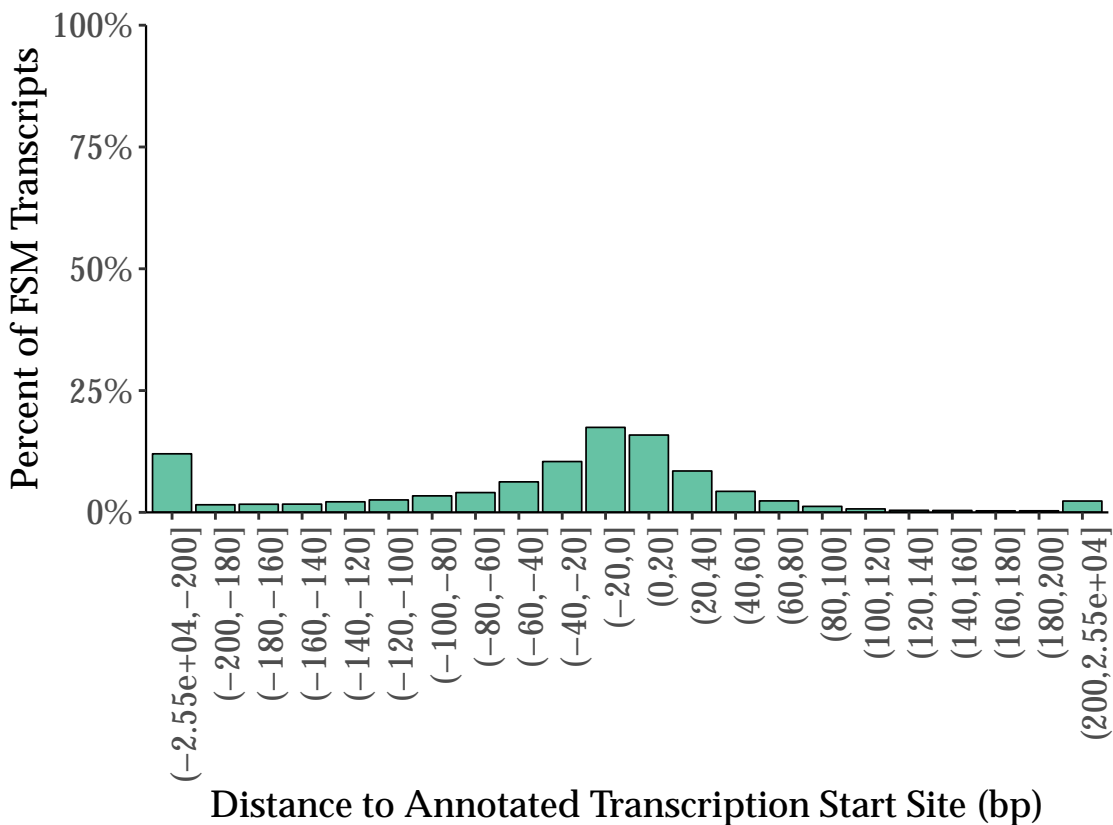
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



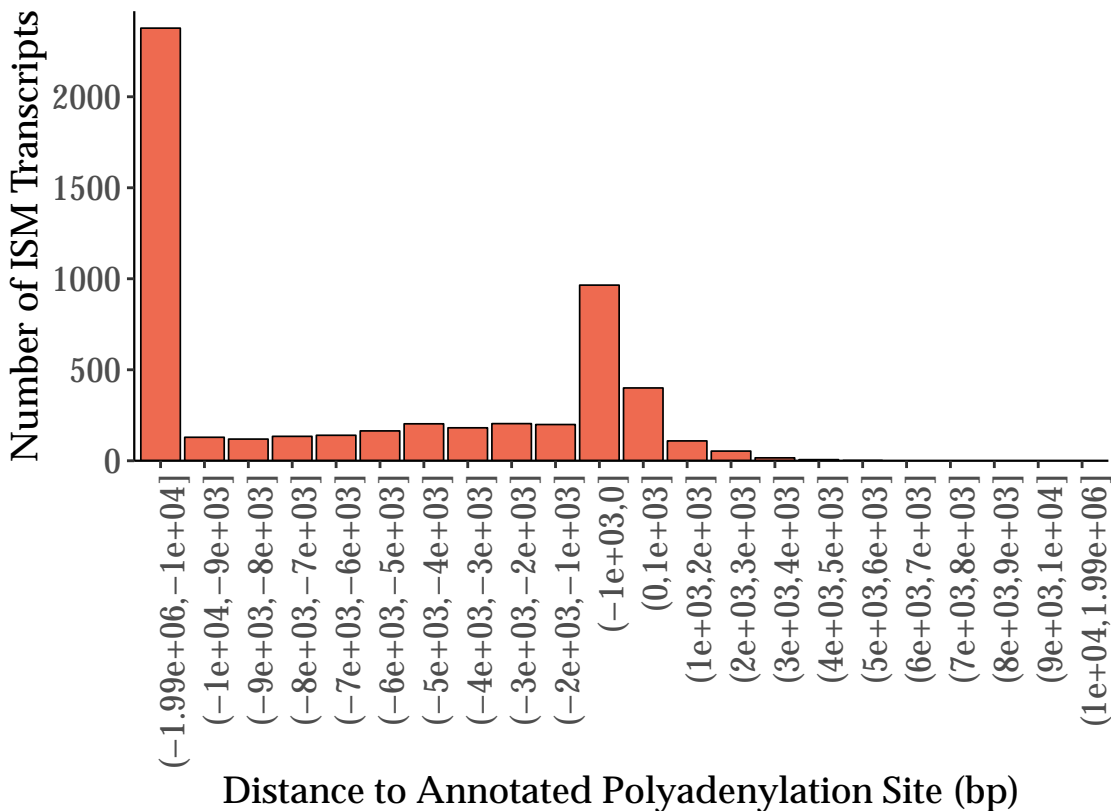
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



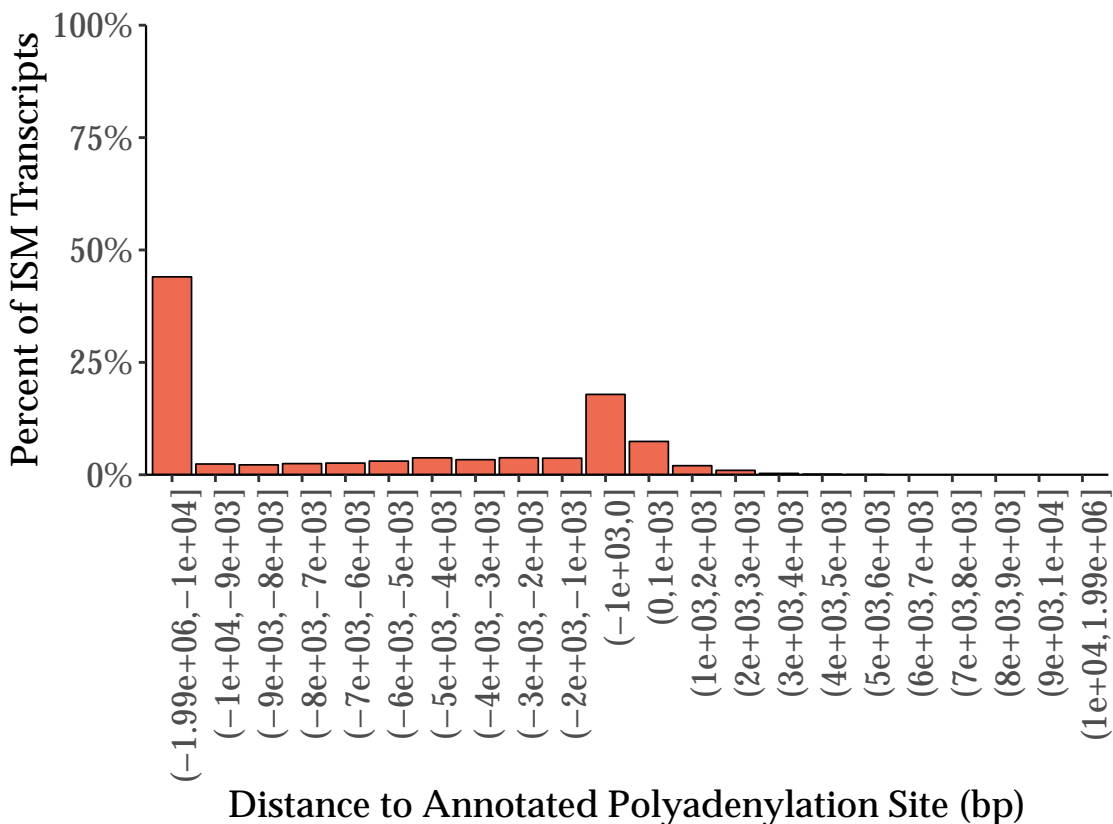
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



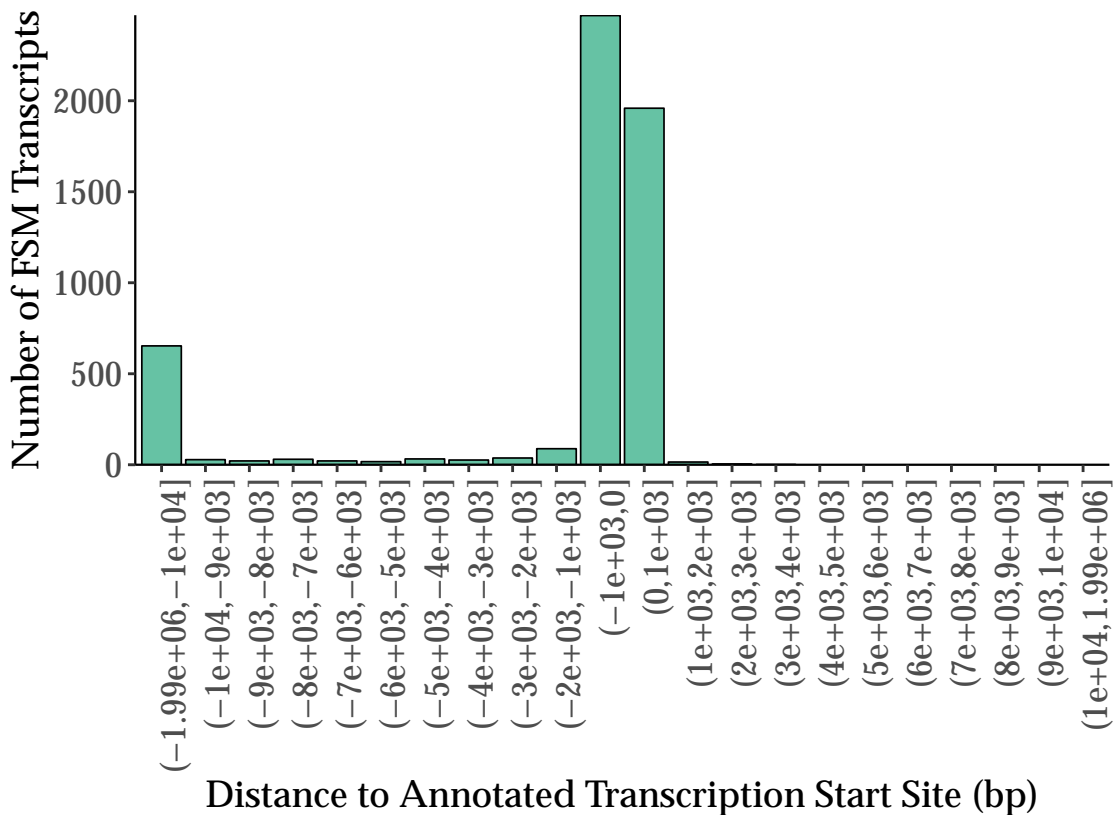
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



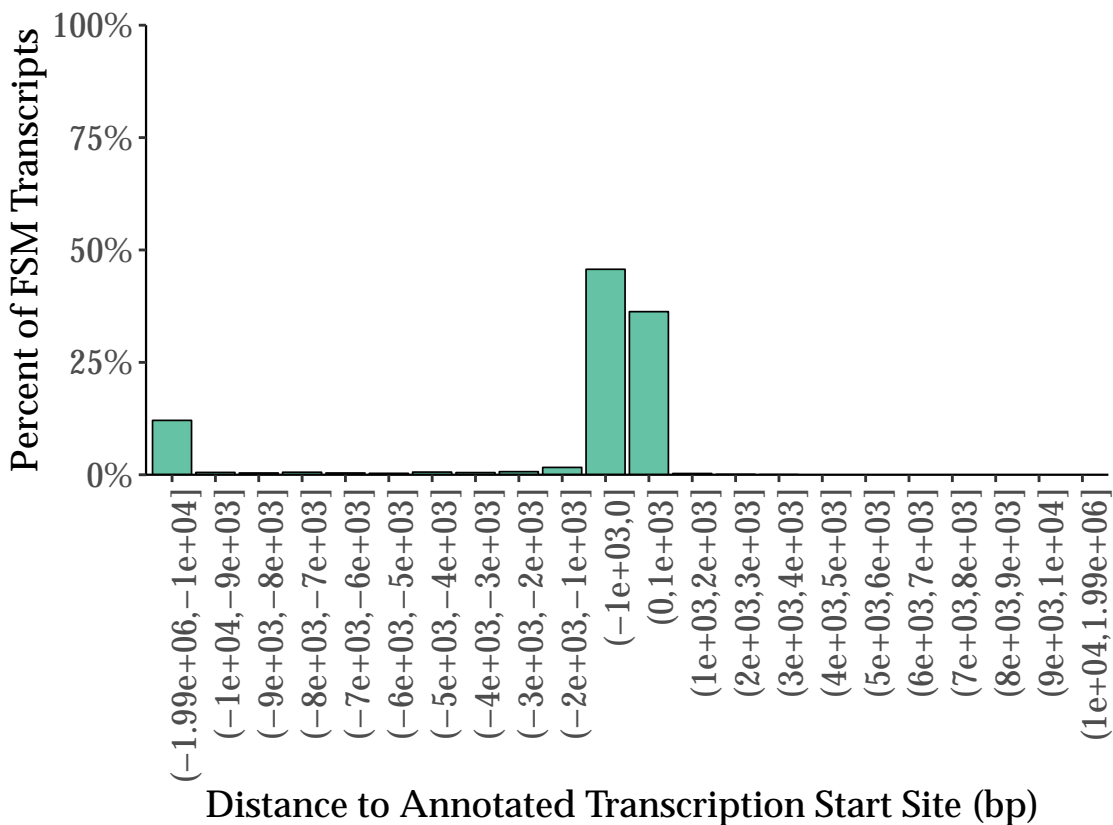
Distance to Annotated Transcription Start Site, ISM only

Negative values indicate downstream of annotated TSS



Distance to Annotated Transcription Start Site, ISM only

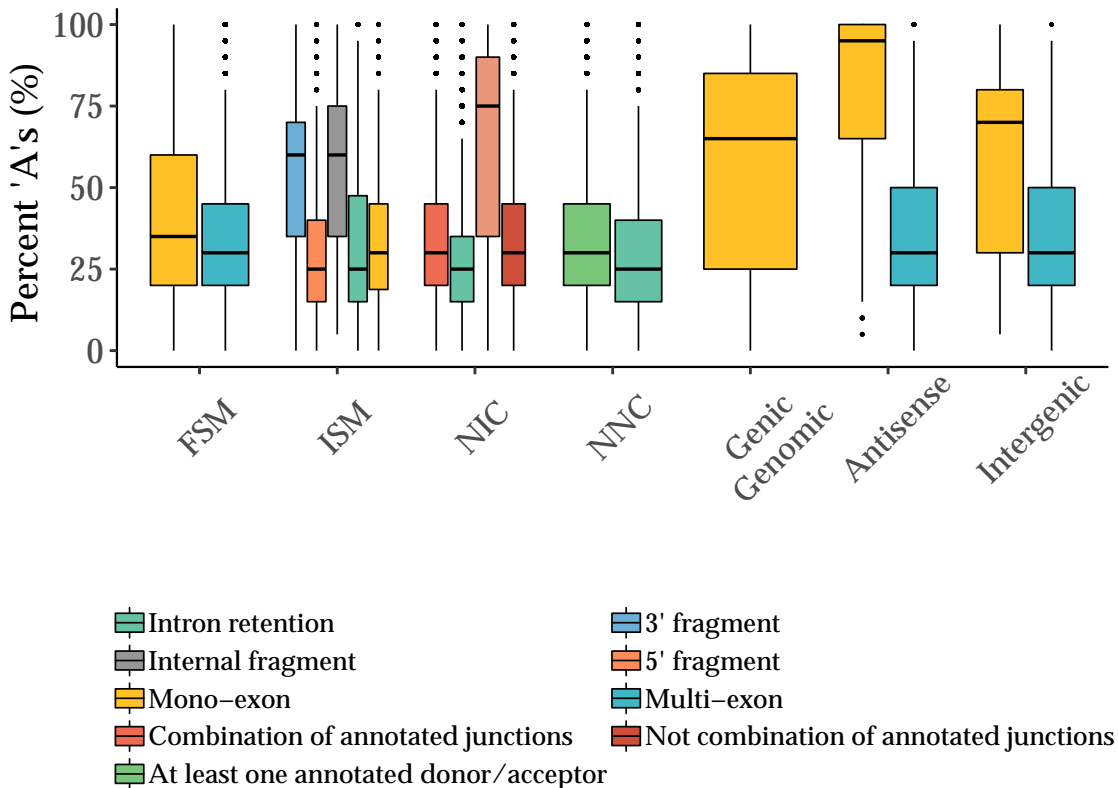
Negative values indicate downstream of annotated TSS



Intra-Priming Quality Check

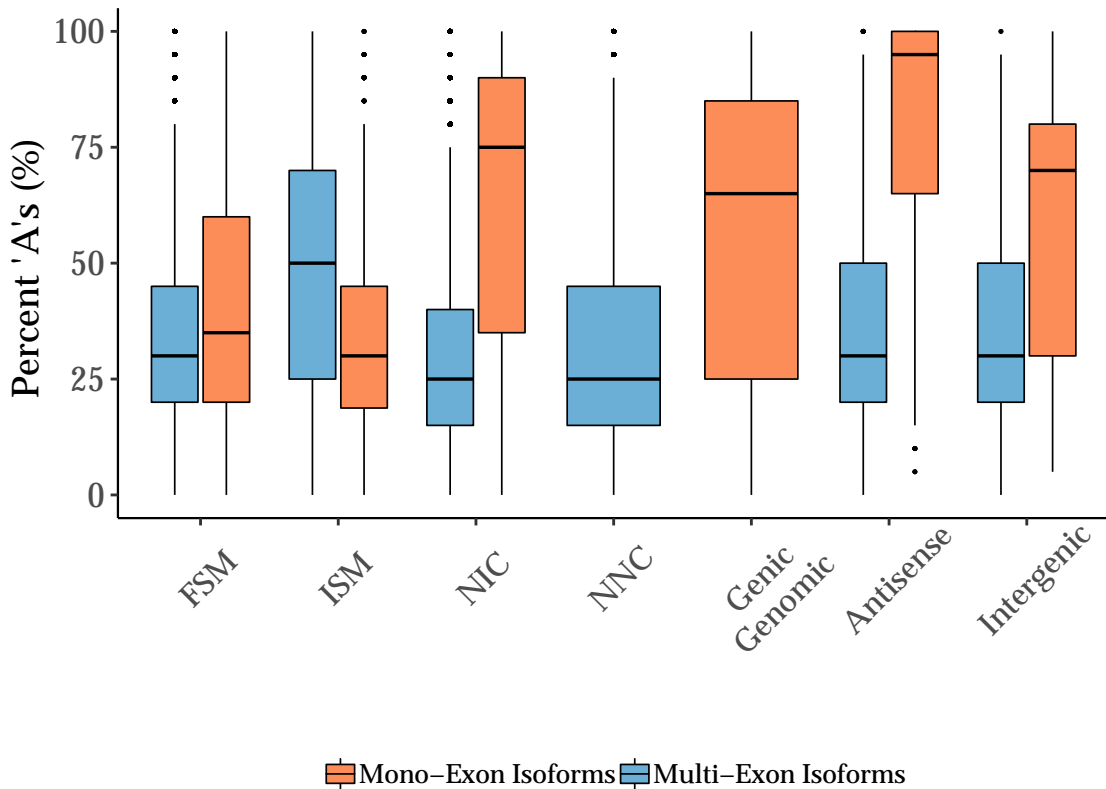
Possible Intra-Priming by Structural Category

Percent of genomic 'A's in downstream 20 bp



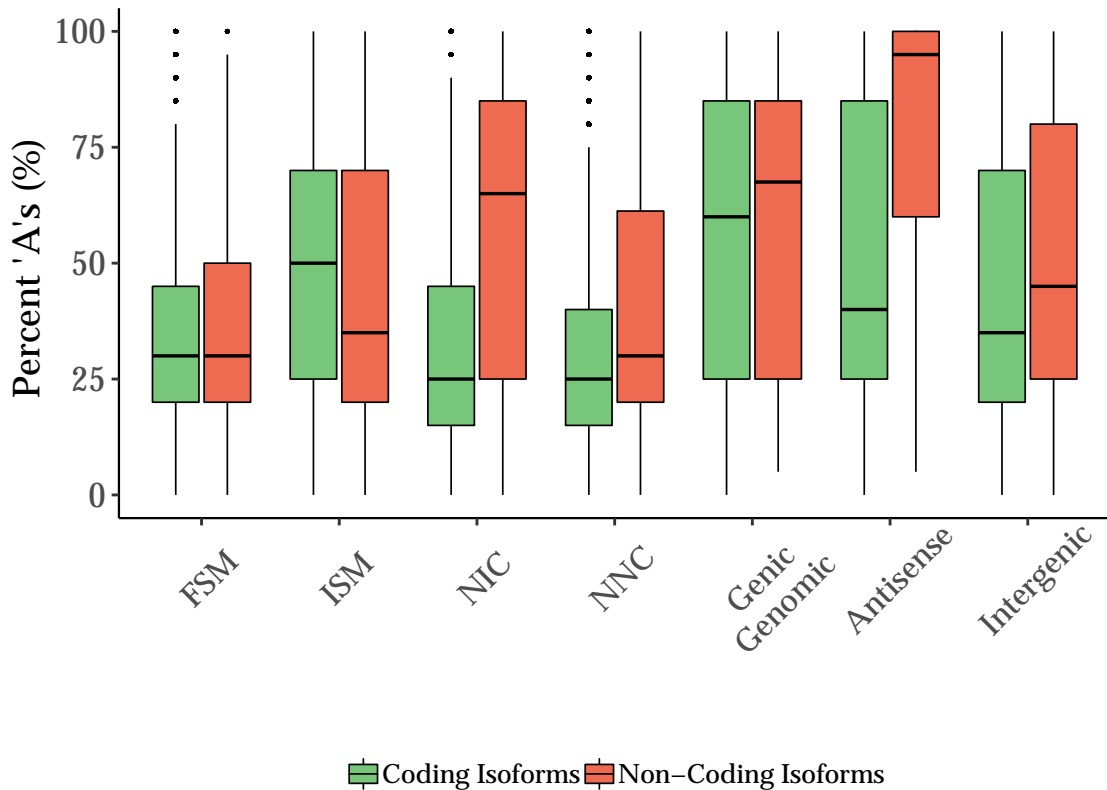
Possible Intra-Priming, Mono- vs Multi-Exon

Percent of genomic 'A's in downstream 20 bp



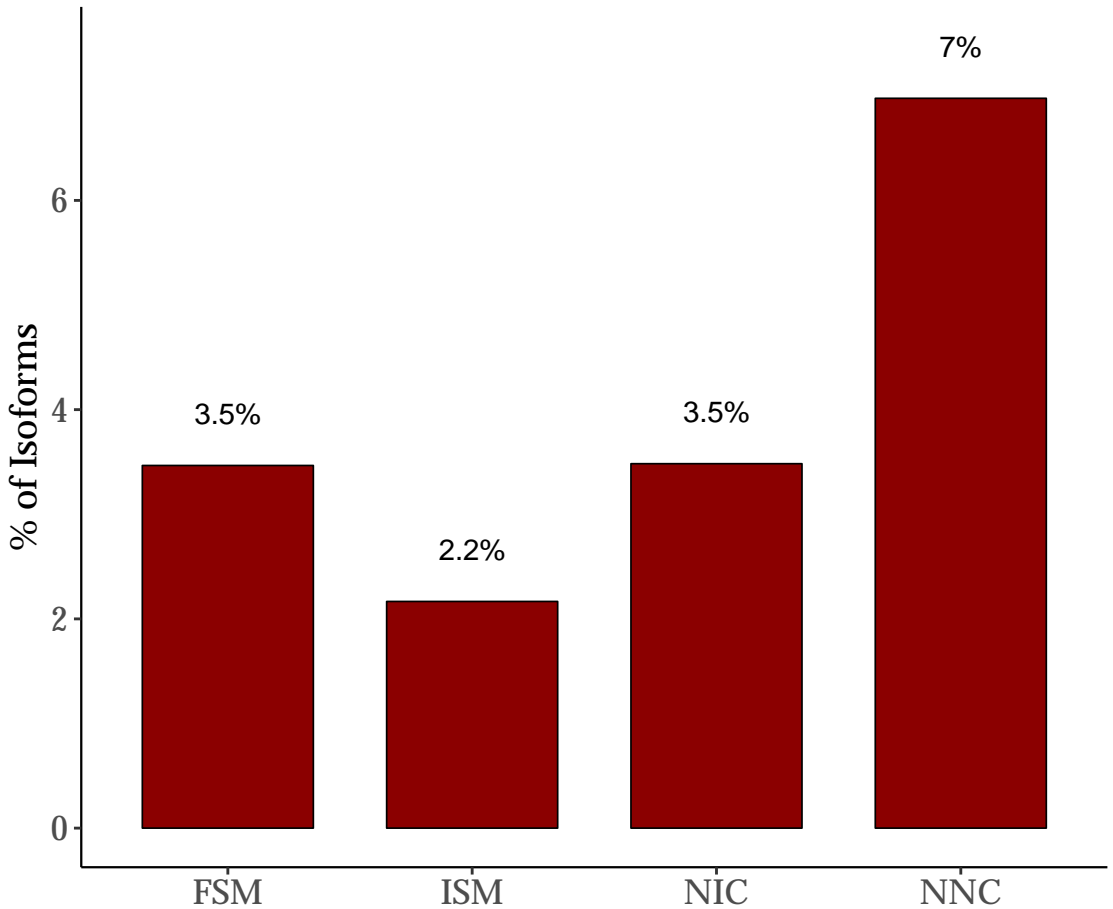
Possible Intra-Priming, Coding vs Non-Coding

Percent of genomic 'A's in downstream 20 bp



Quality Controls

Incidence of RT-switching



Incidence of Non-Canonical Junctions

