

SQANTI2 report

Unique Genes: 14301
Unique Isoforms: 46327

Gene classification

Category	# Genes
Annotated Genes	14300
Novel Genes	1

Splice Junction Classification

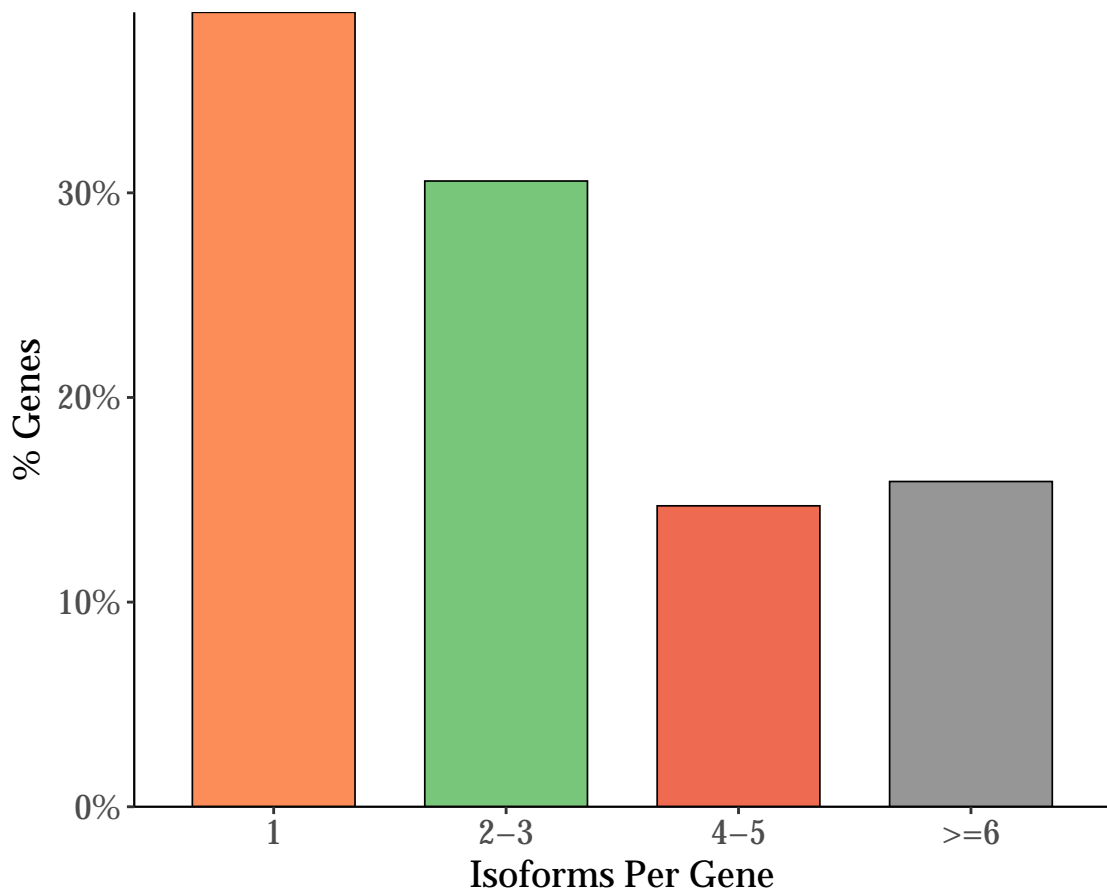
Category	# SJs	Percent
Known canonical	135209	95.57
Known Non-canonical	74	0.05
Novel canonical	6192	4.38
Novel Non-canonical	0	0.00

*Characterization of transcripts
based on splice junctions*

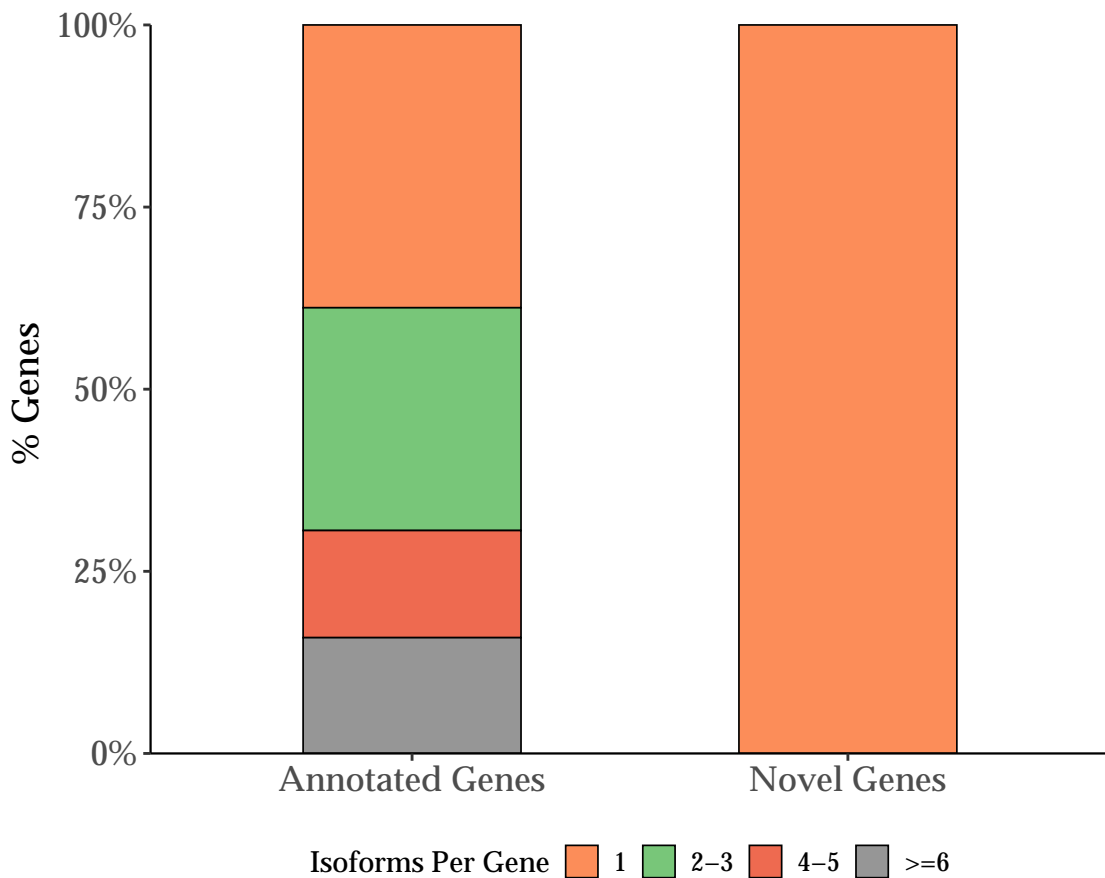
Category	# Isoforms	# Genes
FSM	21043	12412
ISM	2139	1865
NIC	22680	7357
NNC	24	19
Antisense	1	1
Fusion	440	317

Gene Characterization

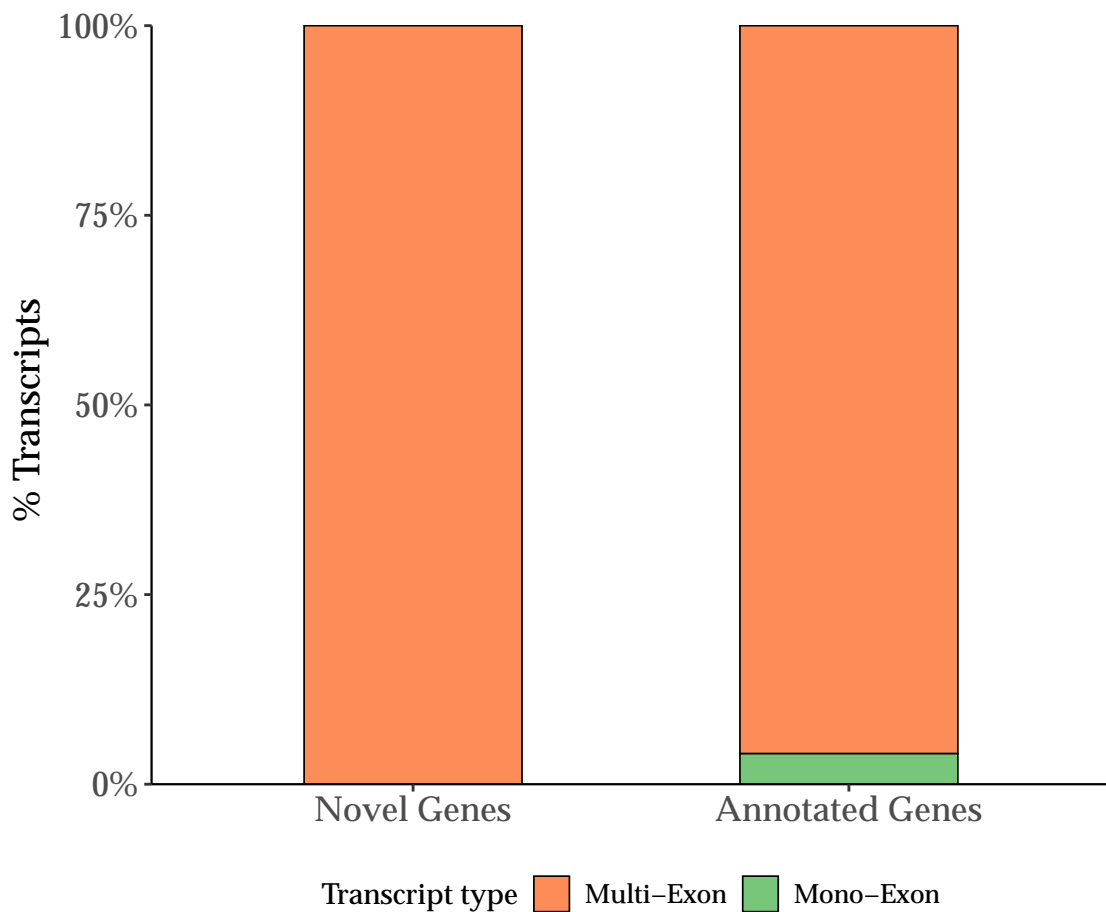
Number of Isoforms per Gene



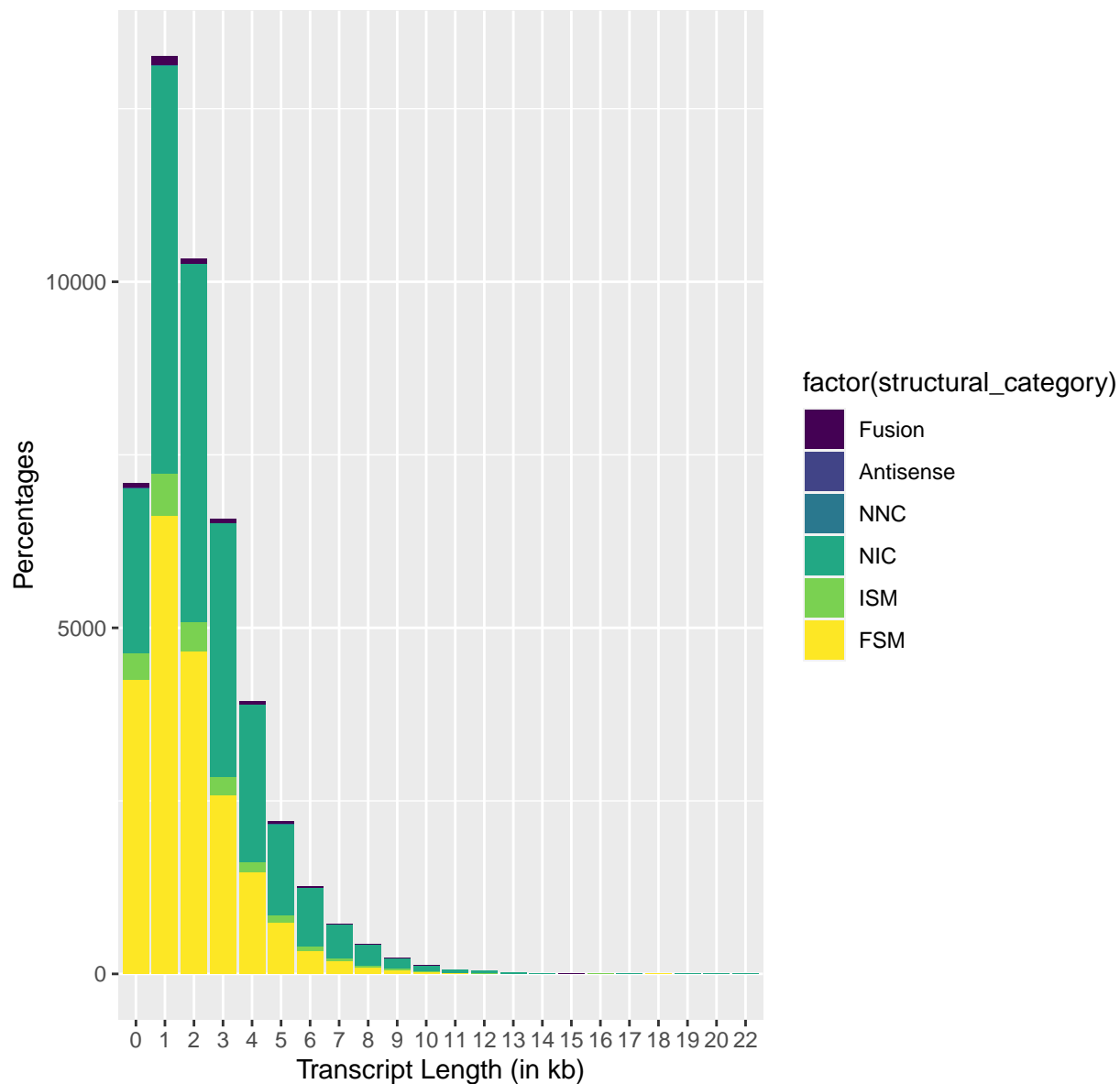
Number of Isoforms per Gene, Novel vs Known Geness



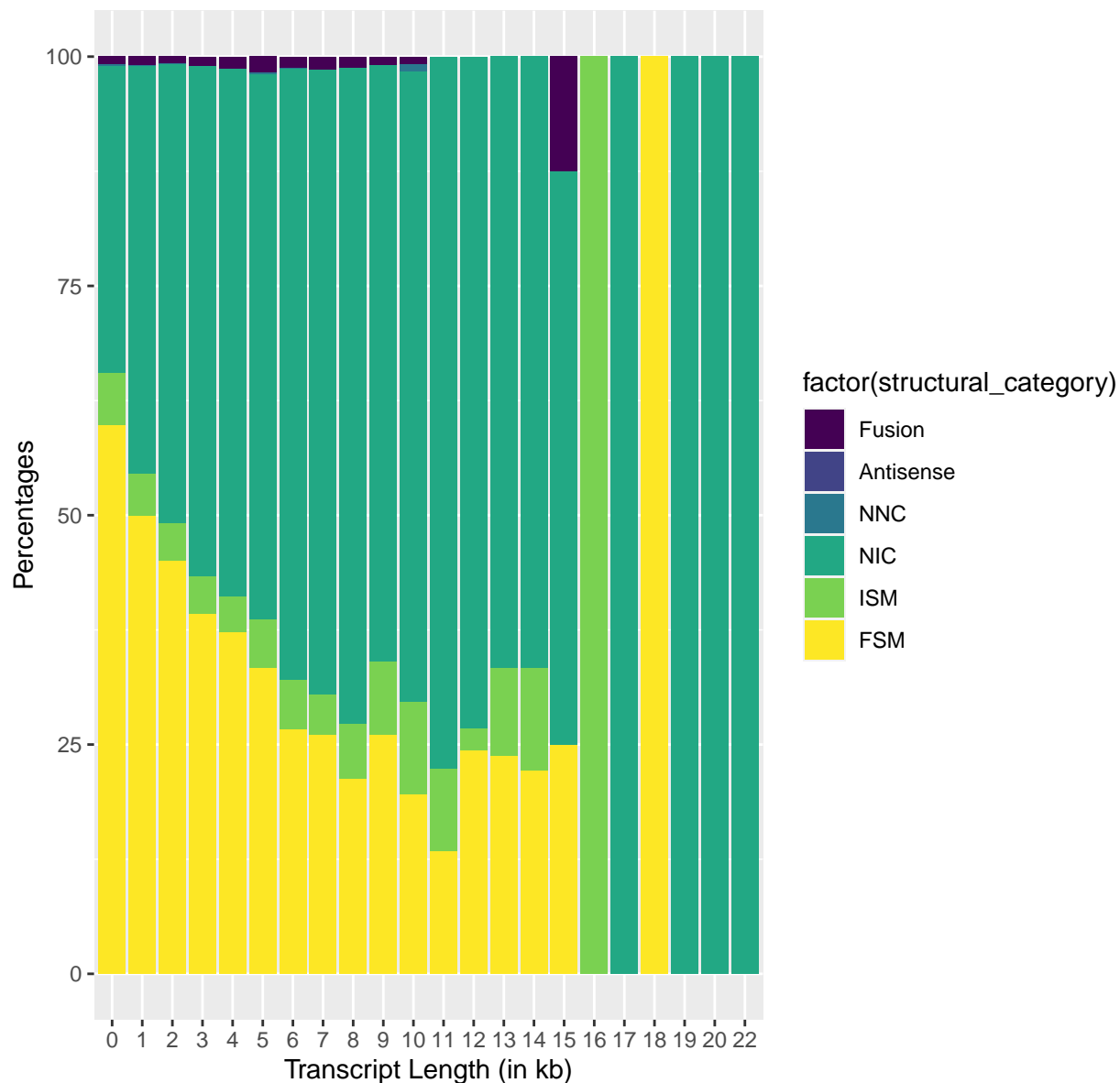
Distribution of Mono- vs Multi-Exon Transcripts



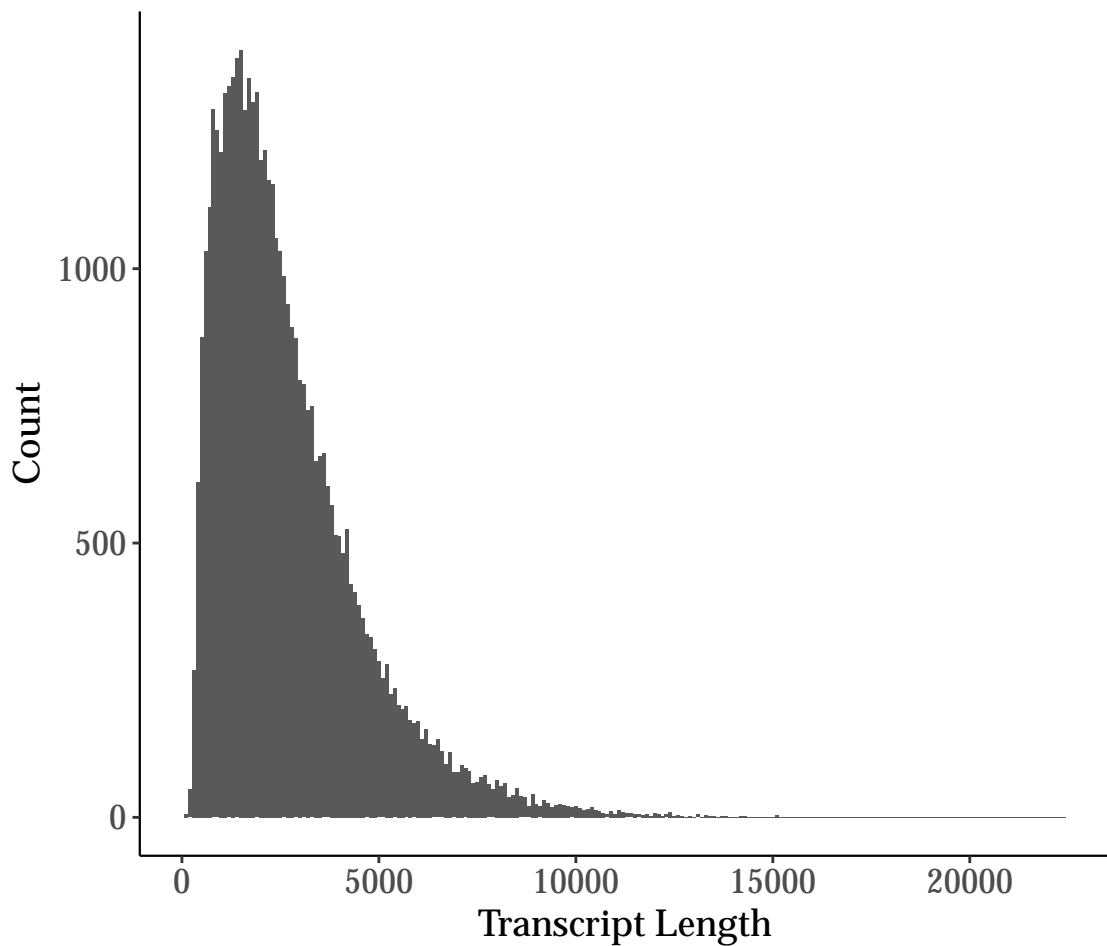
Classifications by Transcript Length



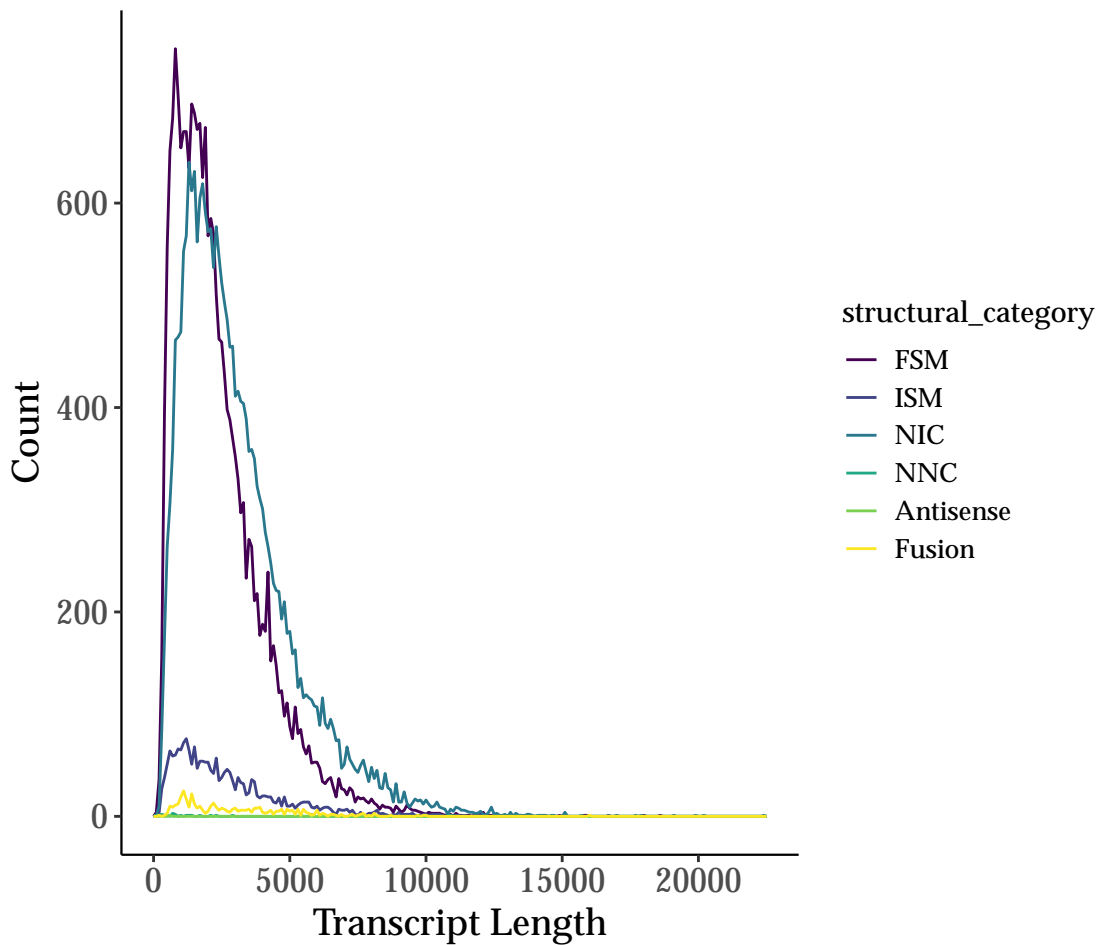
Classifications by Transcript Length, normalized



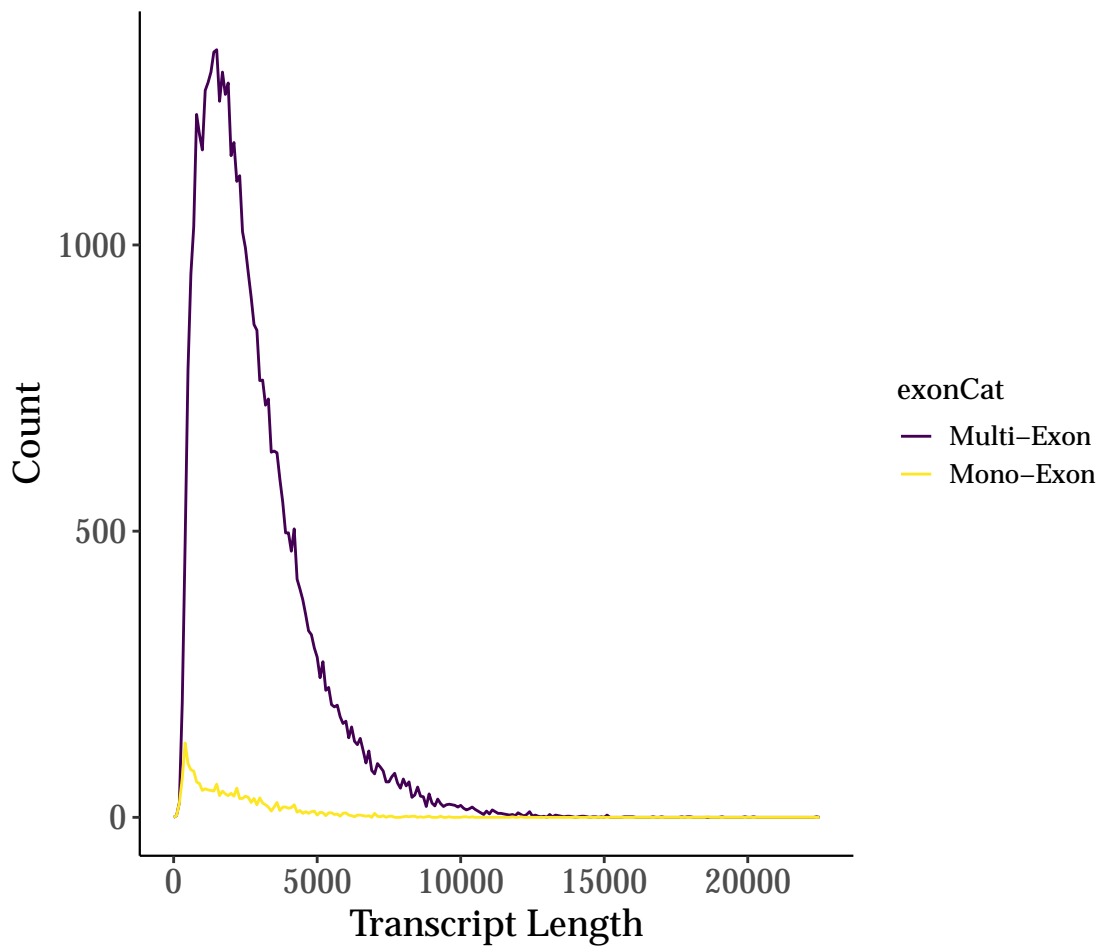
Transcript Lengths, all transcripts



Transcript Lengths, by structural category

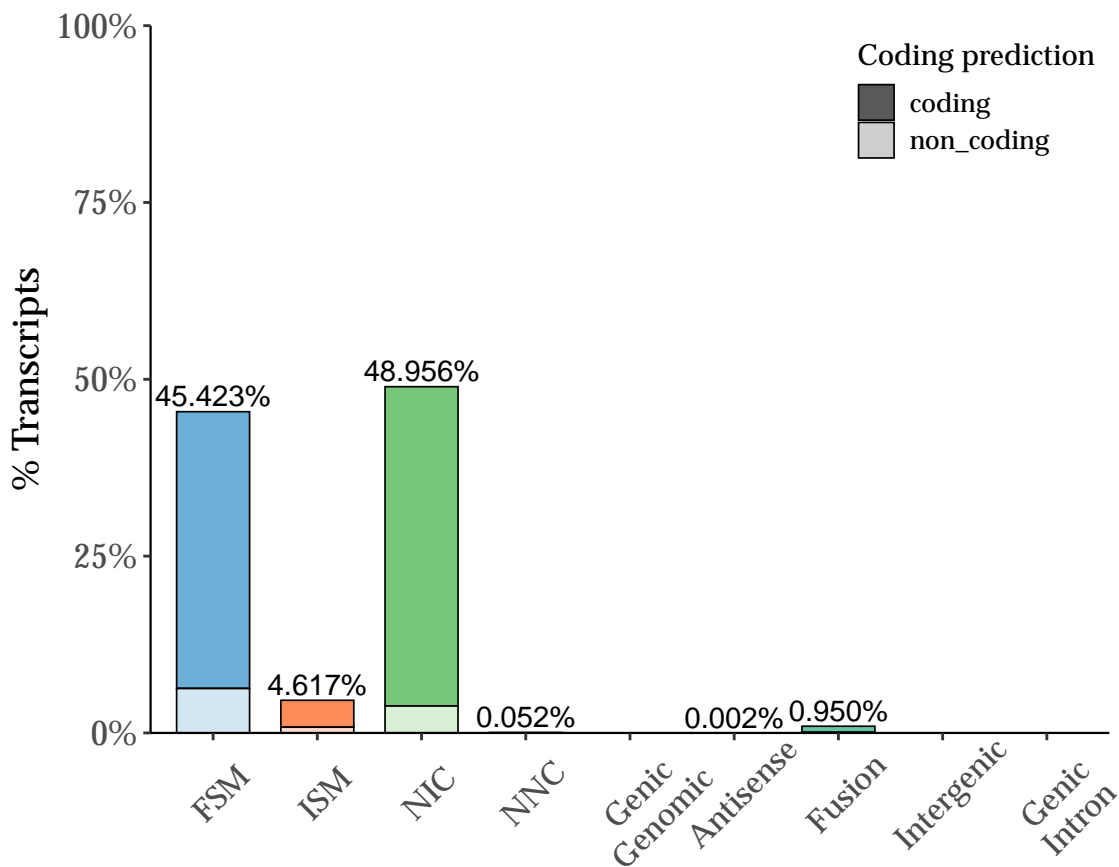


Transcript Lengths, Mono- vs Multi-Exons

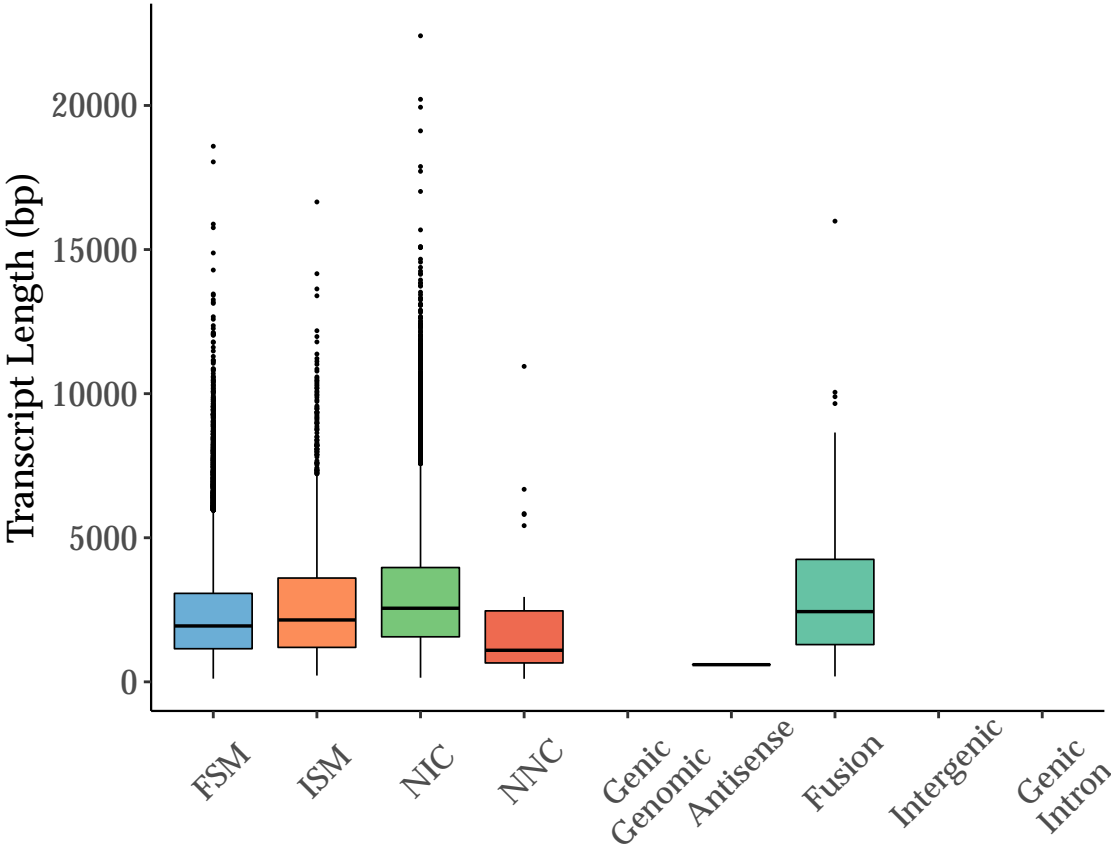


*Structural Isoform Characterization
by Splice Junctions*

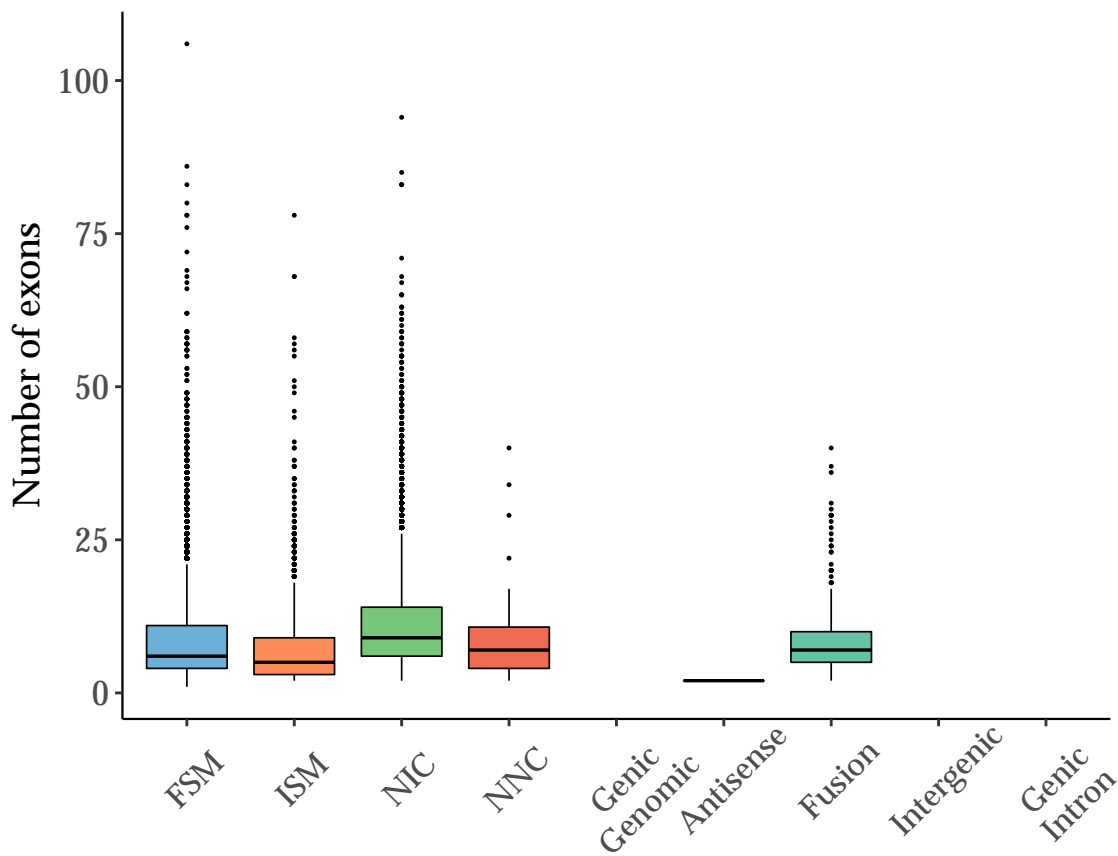
Isoform distribution across structural categories



Transcript Lengths by Structural Classification

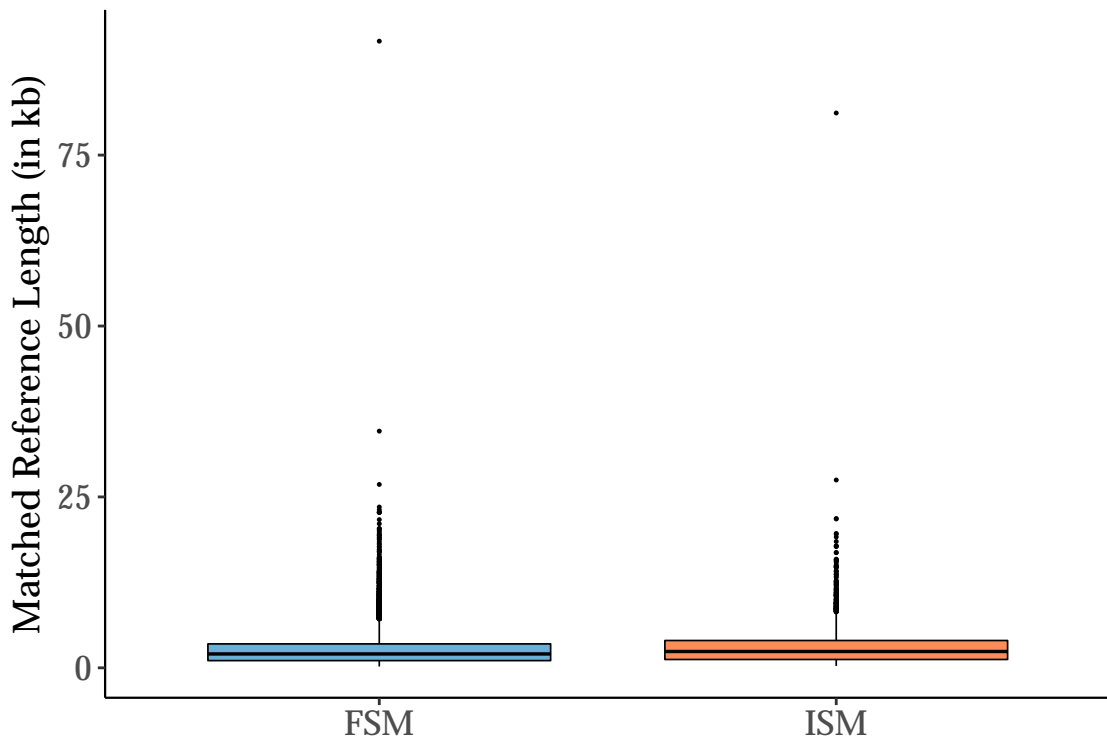


Exon Counts by Structural Classification



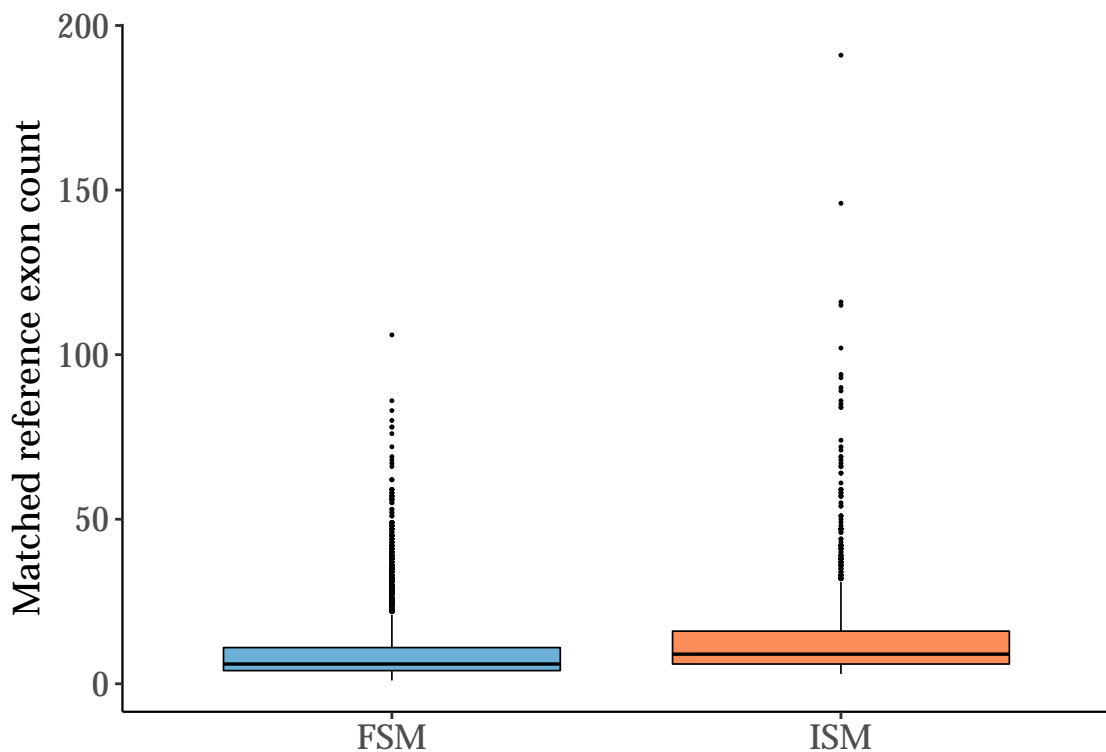
Length Distribution of Matched Reference Transcripts

Applicable only to FSM and ISM categories



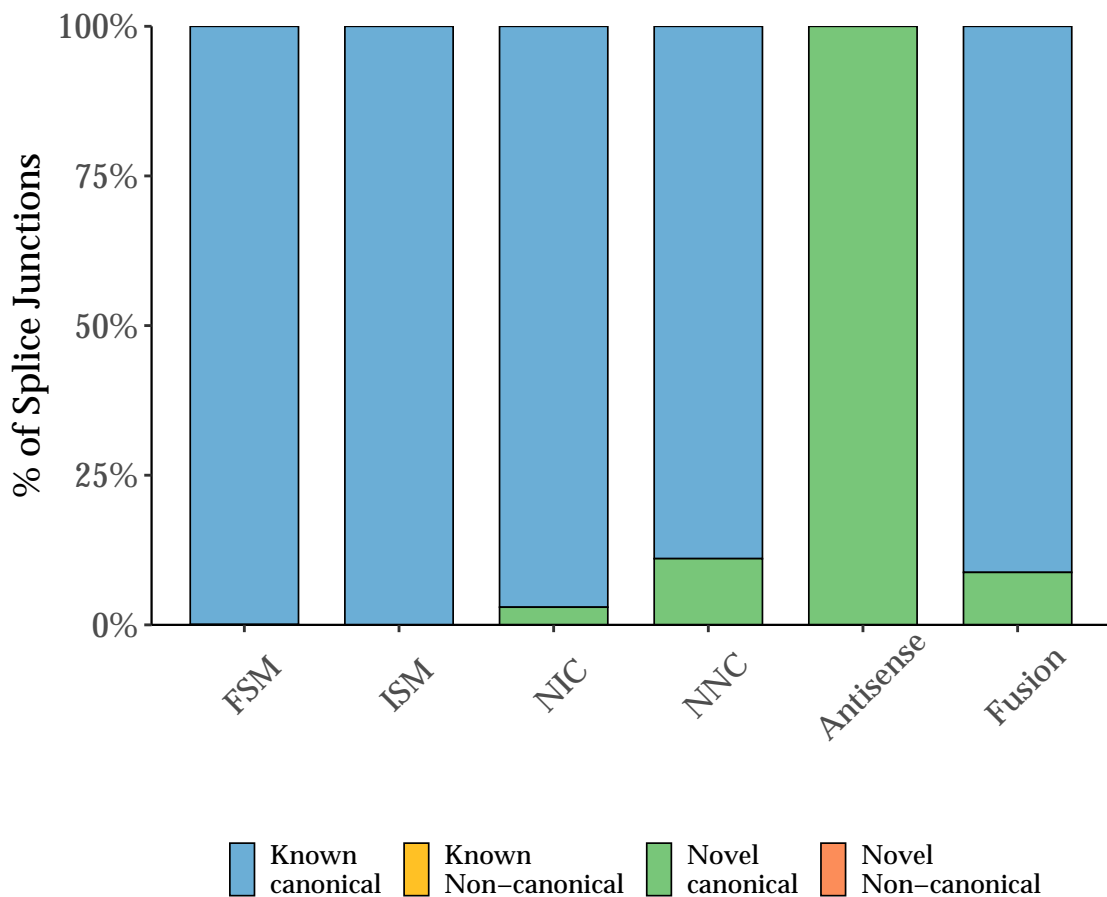
Exon Count Distribution of Matched Reference Transcripts

Applicable only to FSM and ISM categories

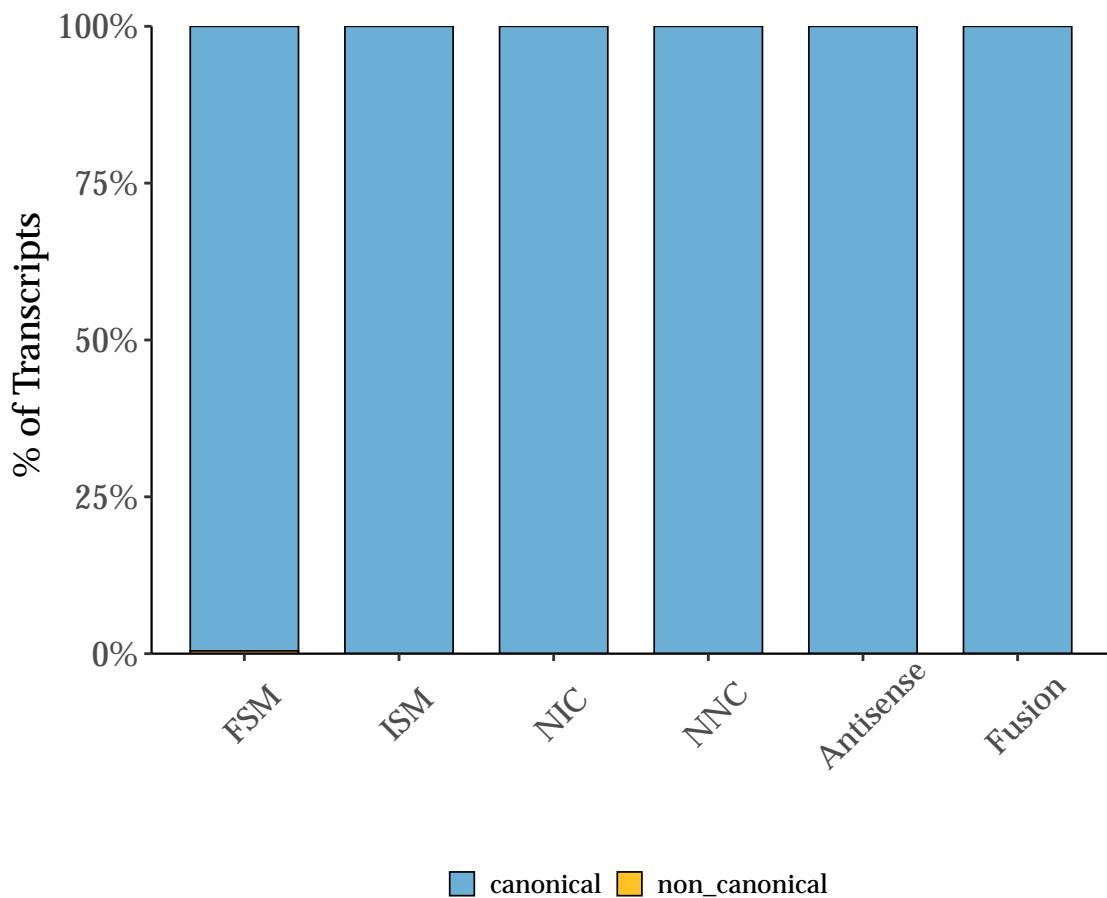


Splice Junction Characterization

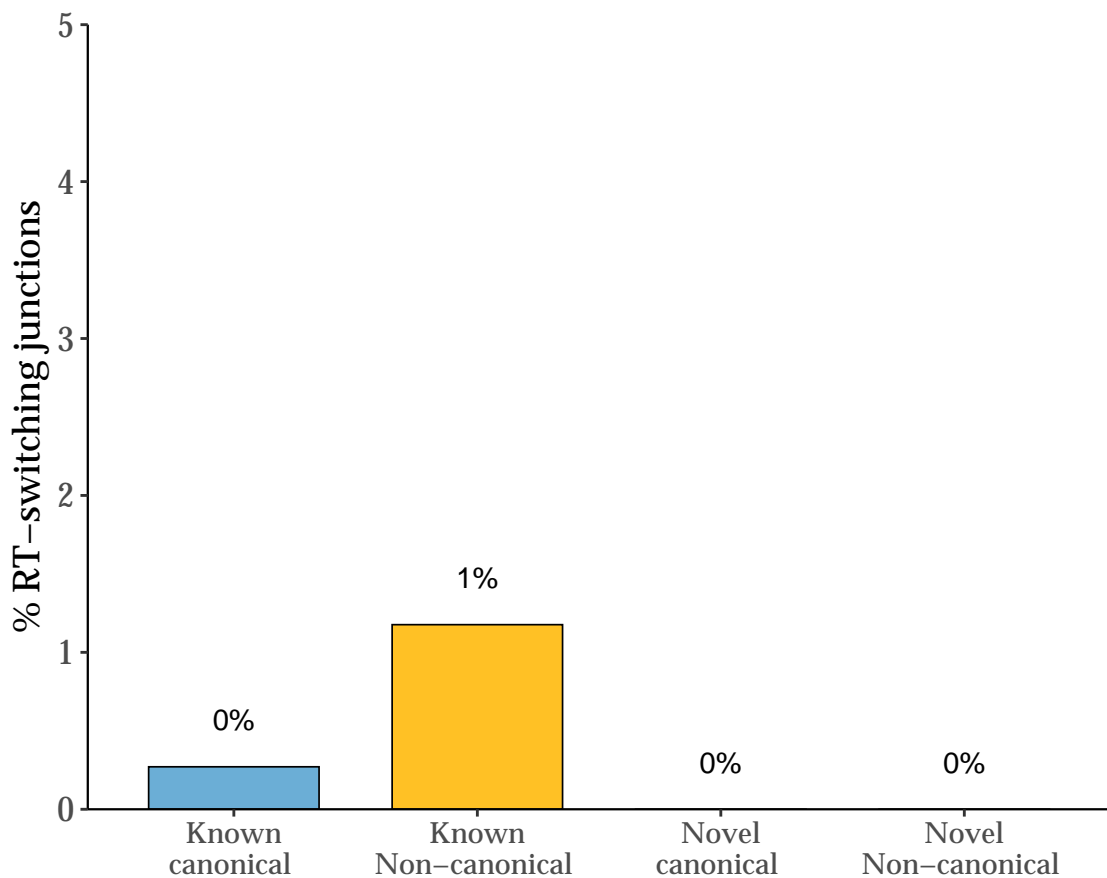
Distribution of Splice Junctions by Structural Classification



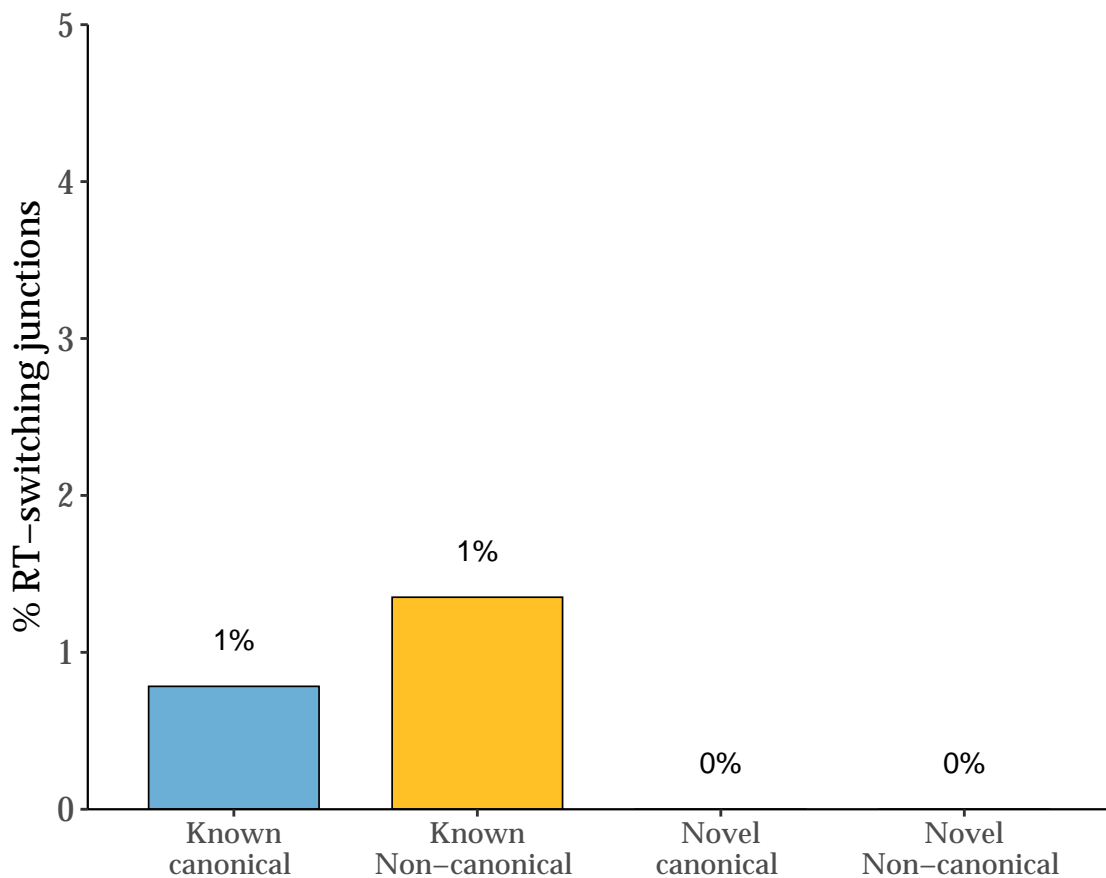
Distribution of Transcripts by Splice Junctions



RT-switching, all junctions



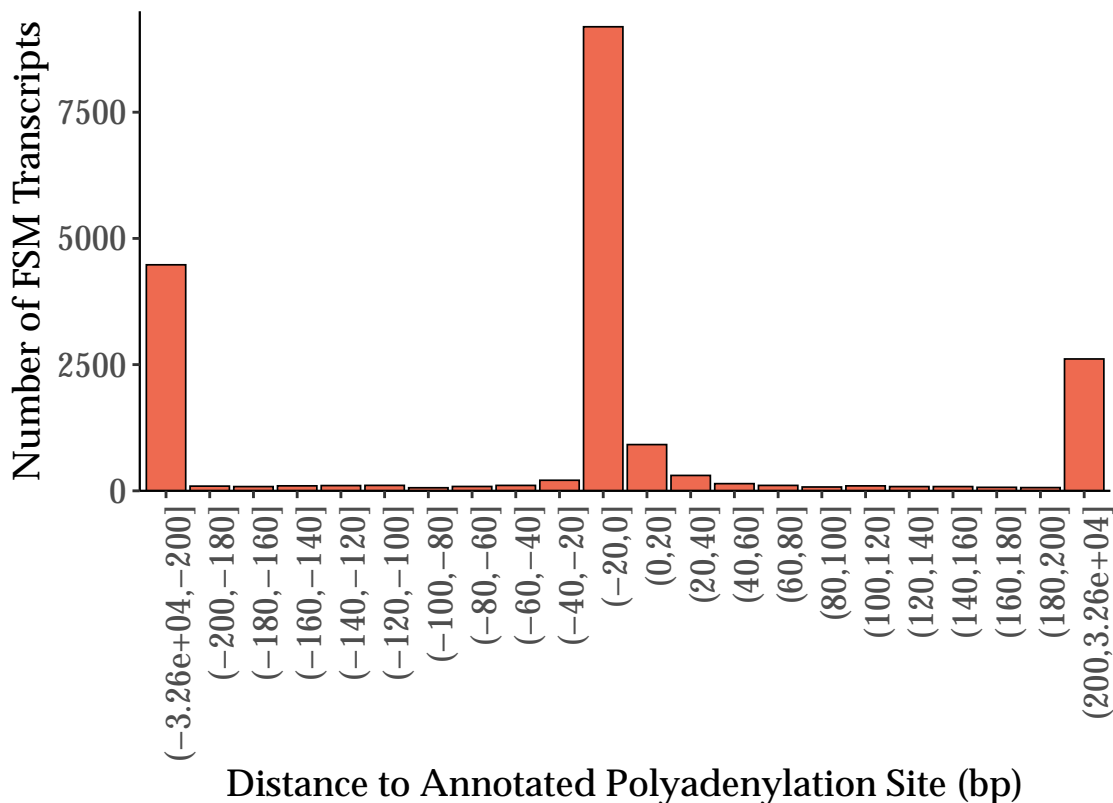
RT-switching, unique junctions



Comparison with Annotated TSS and PolyA Sites

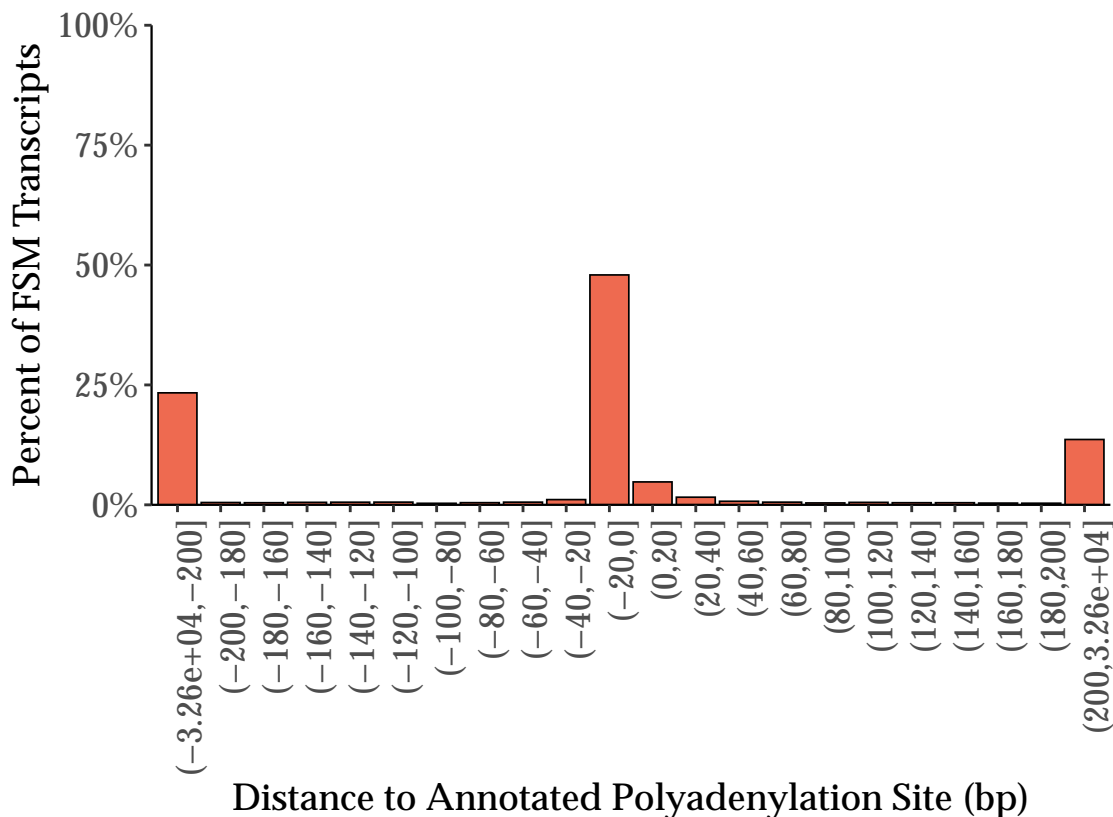
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



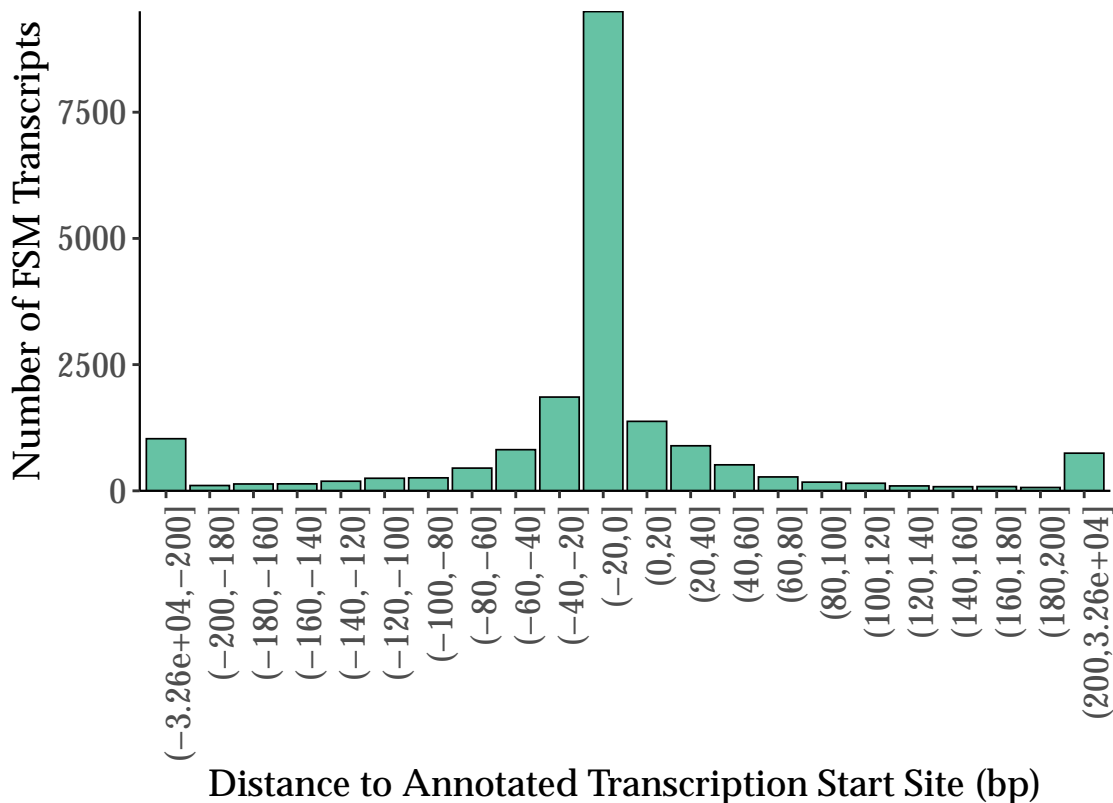
Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



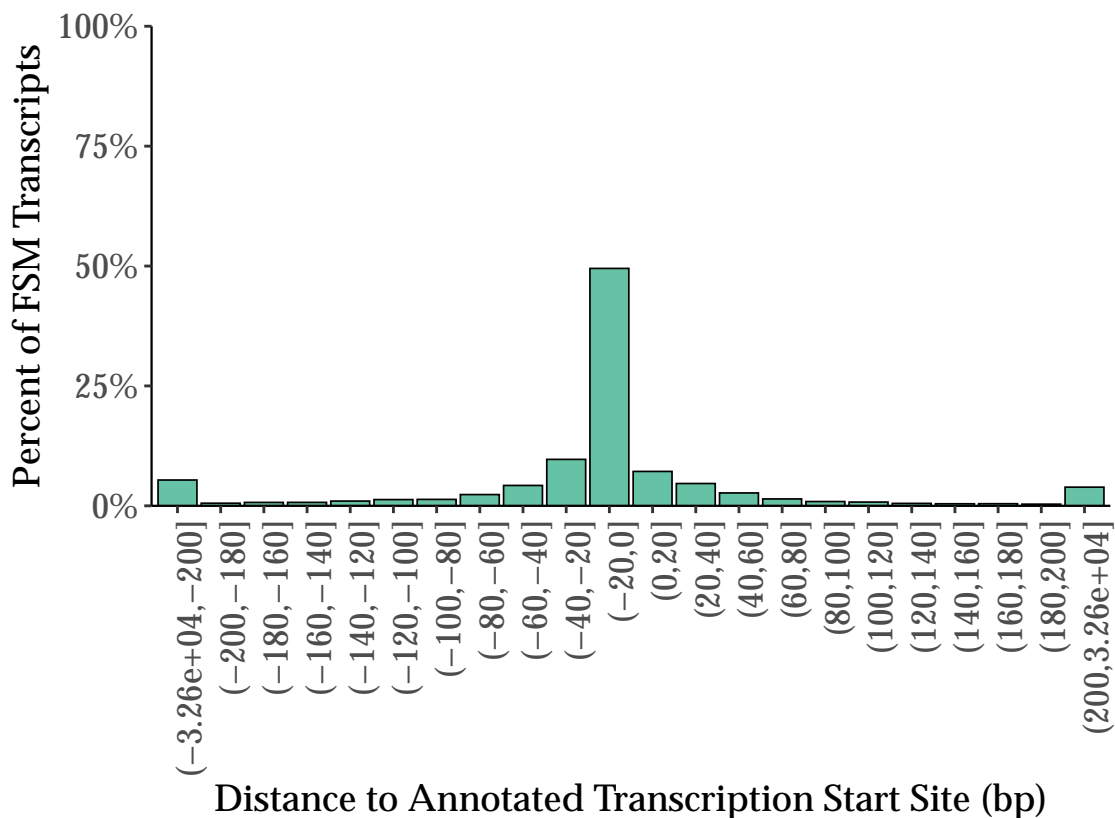
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



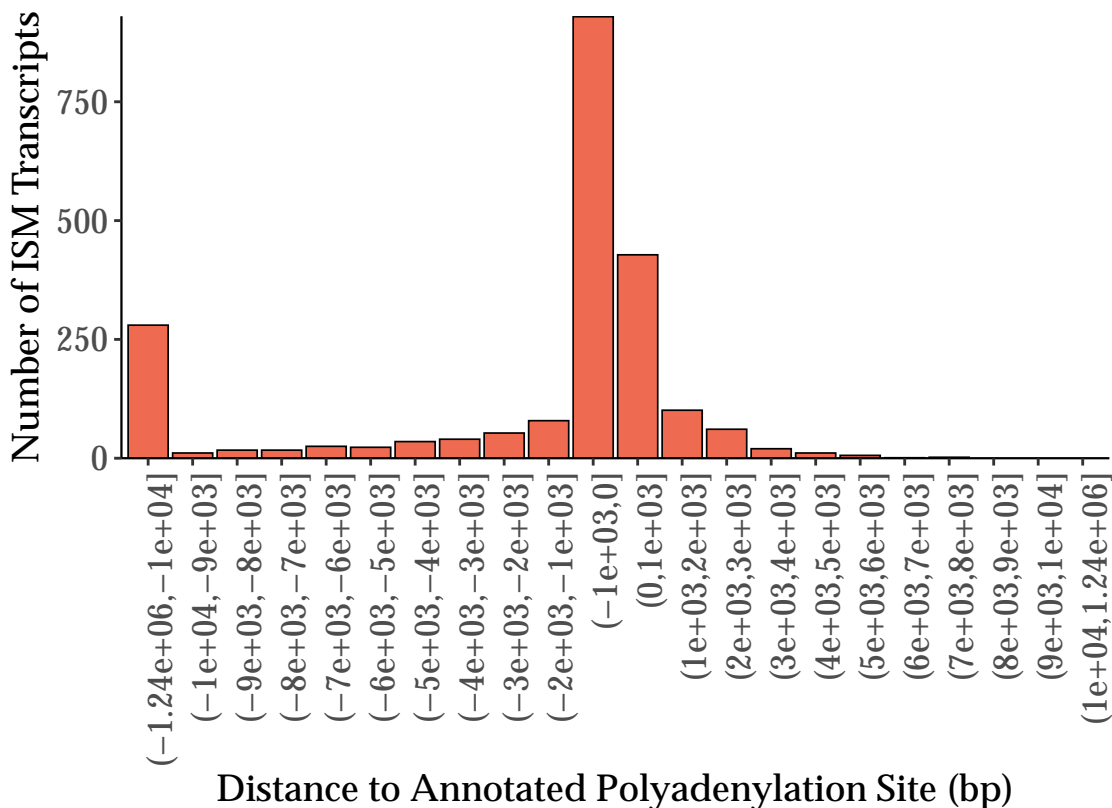
Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



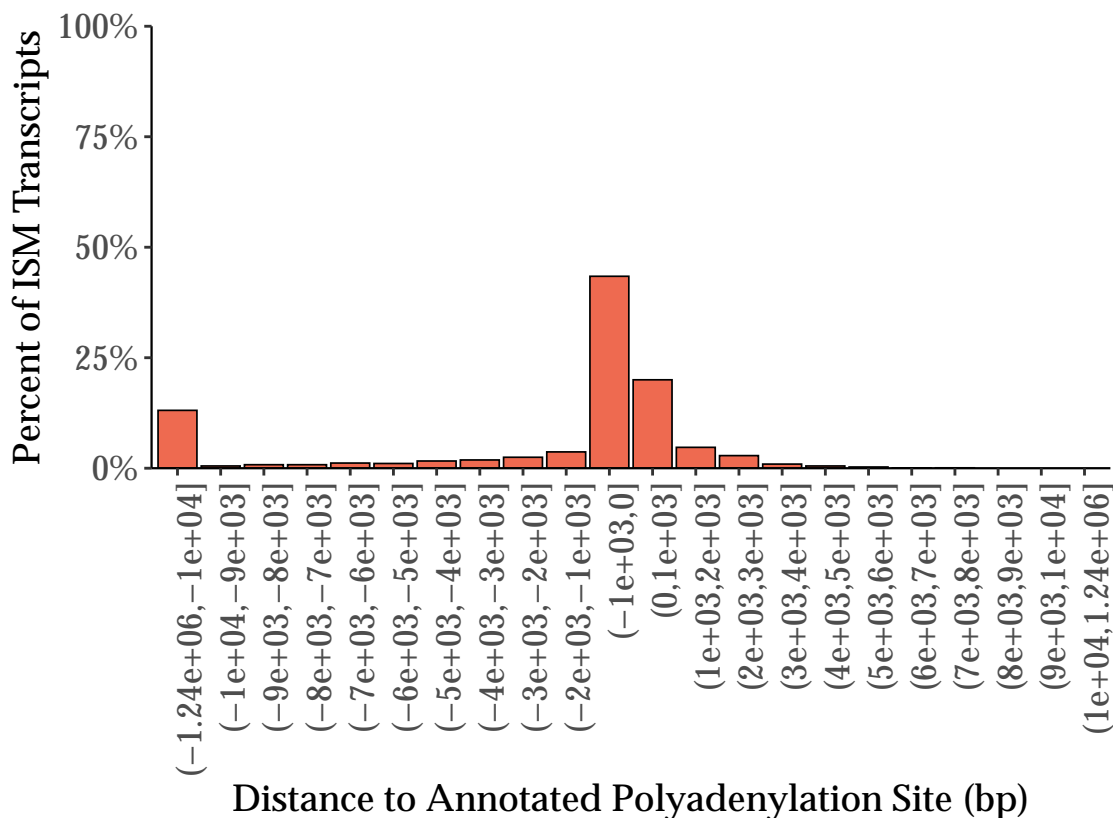
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



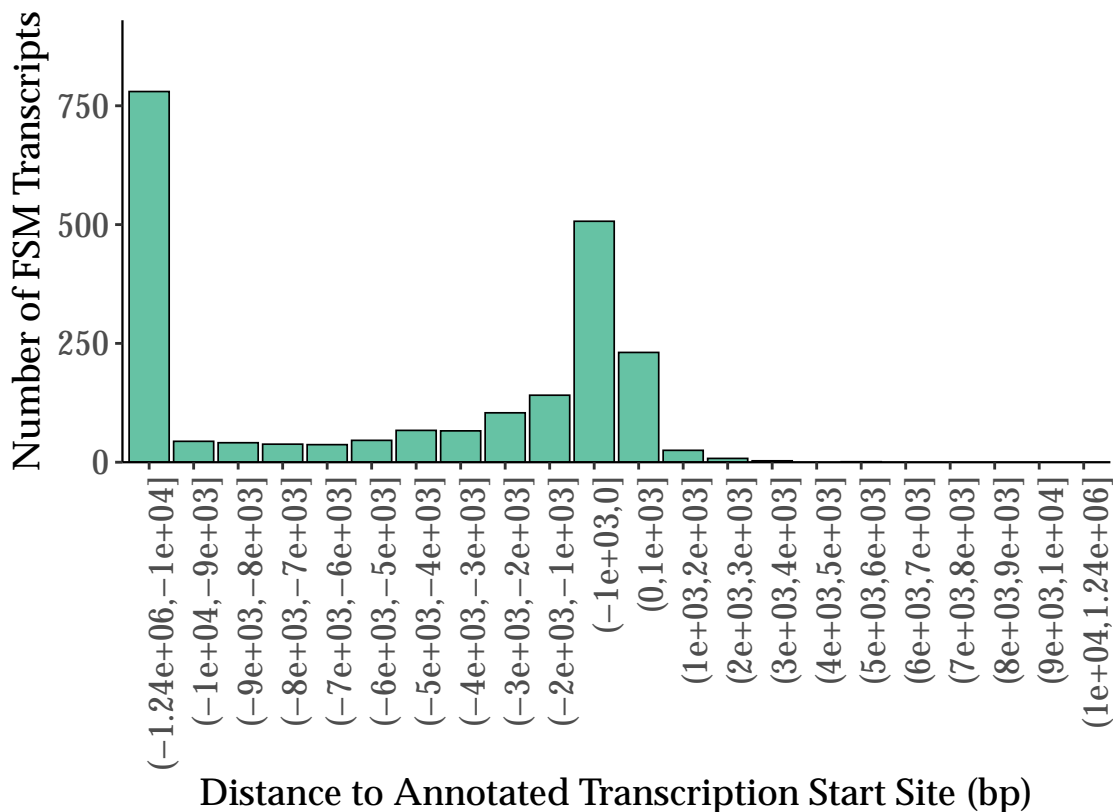
Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



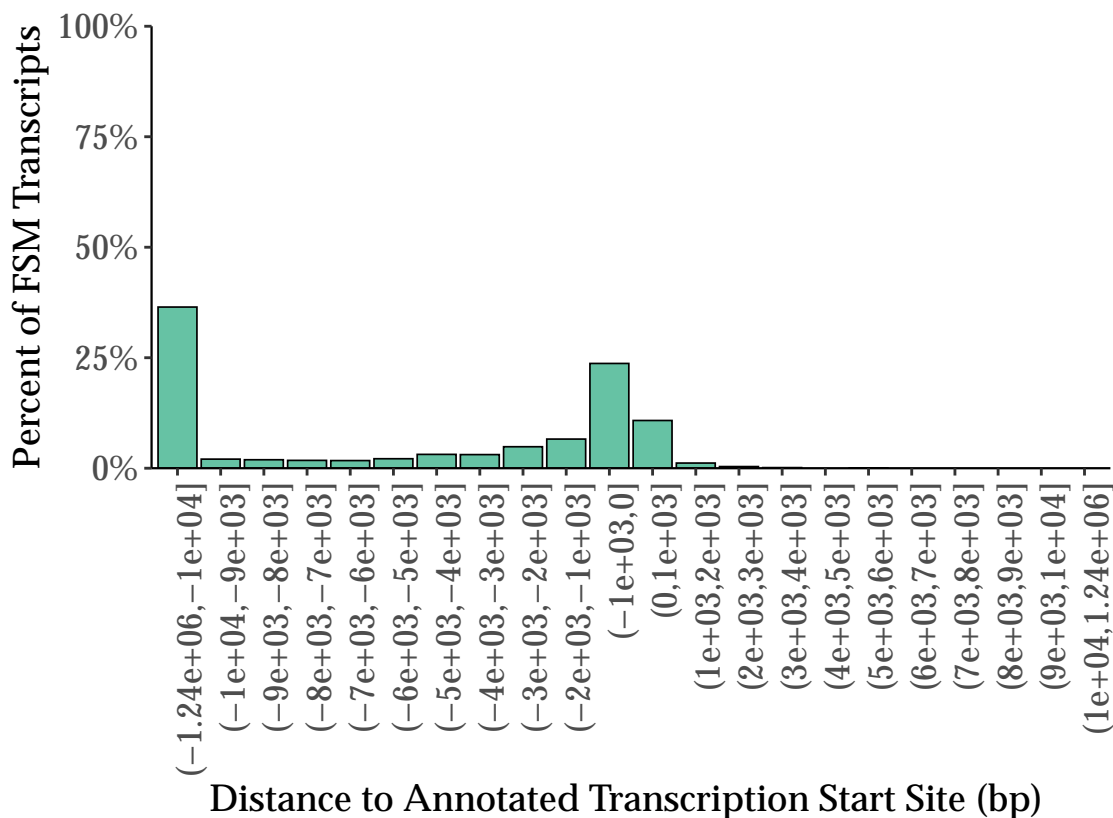
Distance to Annotated Transcription Start Site, ISM only

Negative values indicate downstream of annotated TSS



Distance to Annotated Transcription Start Site, ISM only

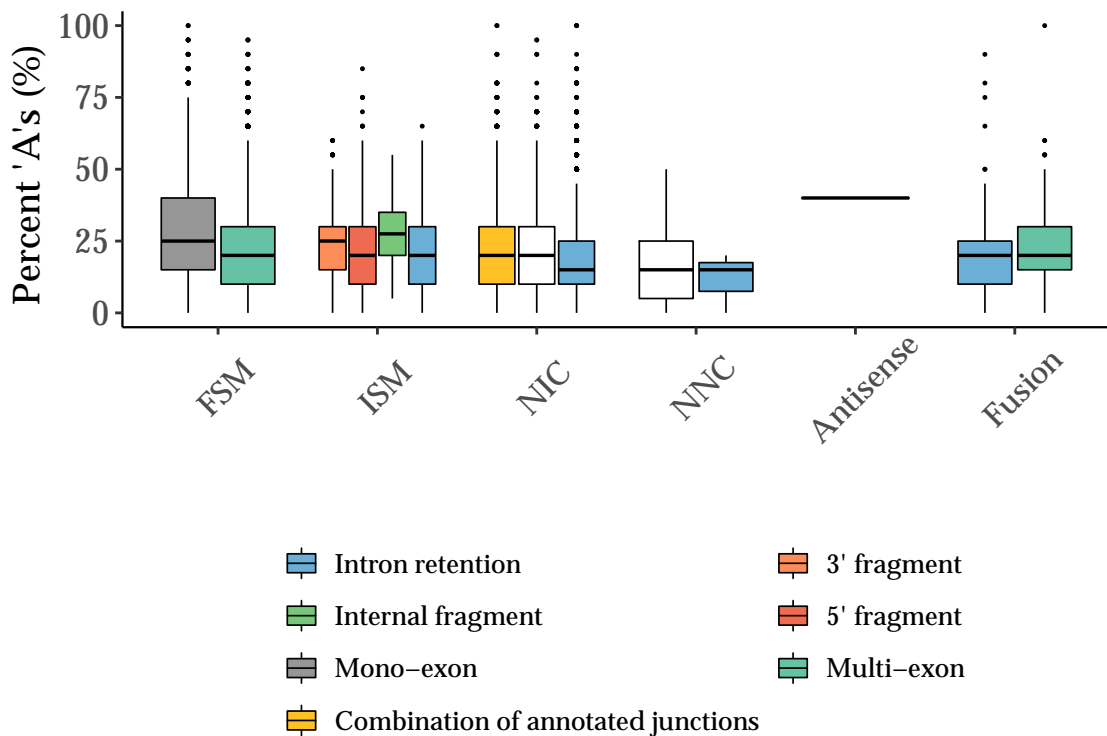
Negative values indicate downstream of annotated TSS



Intra-Priming Quality Check

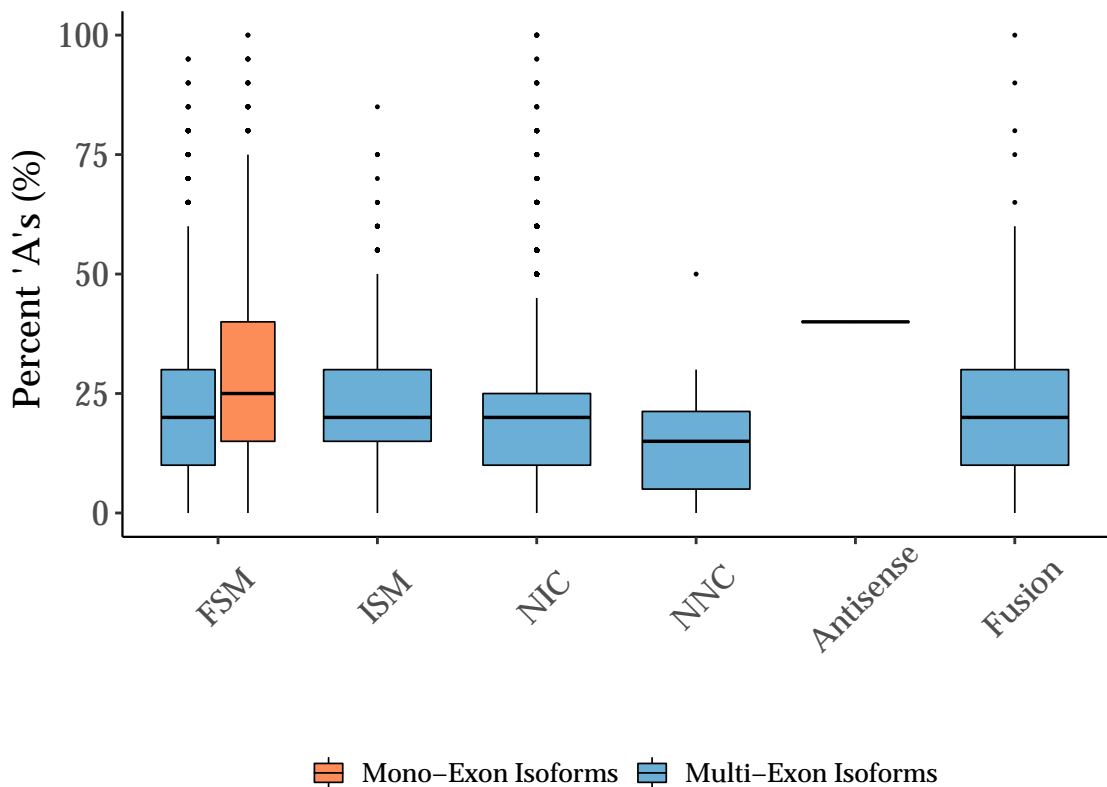
Possible Intra-Priming by Structural Category

Percent of genomic 'A's in downstream 20 bp



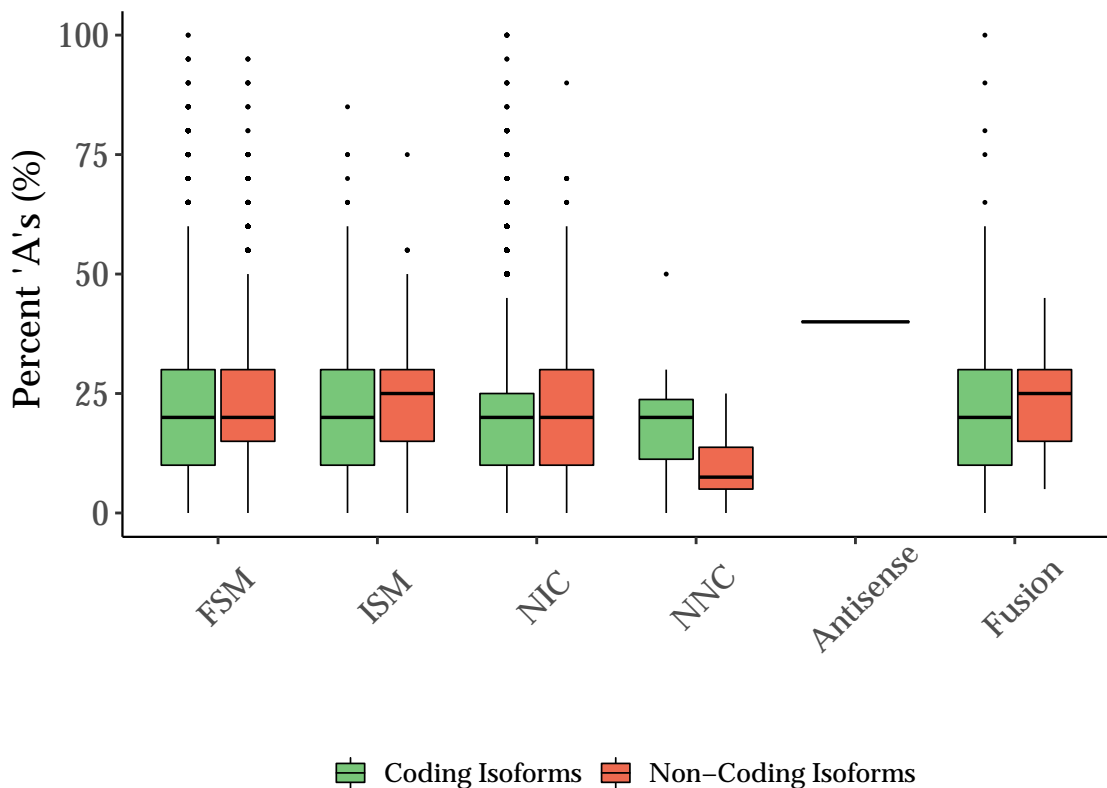
Possible Intra-Priming, Mono- vs Multi-Exon

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

5%

% of Isoforms

4

2

0

FSM



Incidence of Non-Canonical Junctions

