

*SQANTI report*

*Unique Genes: 9264*  
*Unique Isoforms: 19448*

### *Gene classification*

Category	# Genes
Annotated Genes	9163
Novel Genes	101

### *Splice Junction Classification*

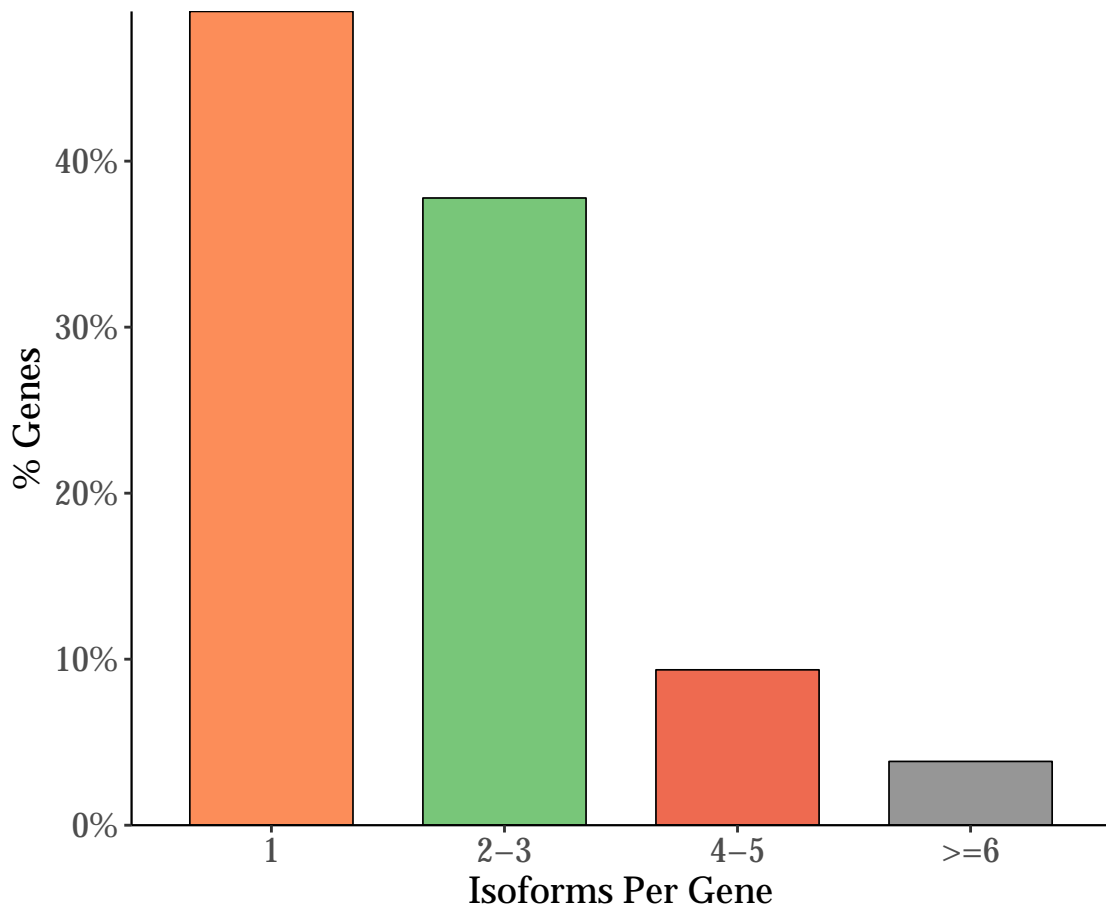
Category	# SJs	Percent
Known canonical	85667	98.70
Known Non-canonical	130	0.15
Novel canonical	599	0.69
Novel Non-canonical	400	0.46

### *Characterization of transcripts based on splice junctions*

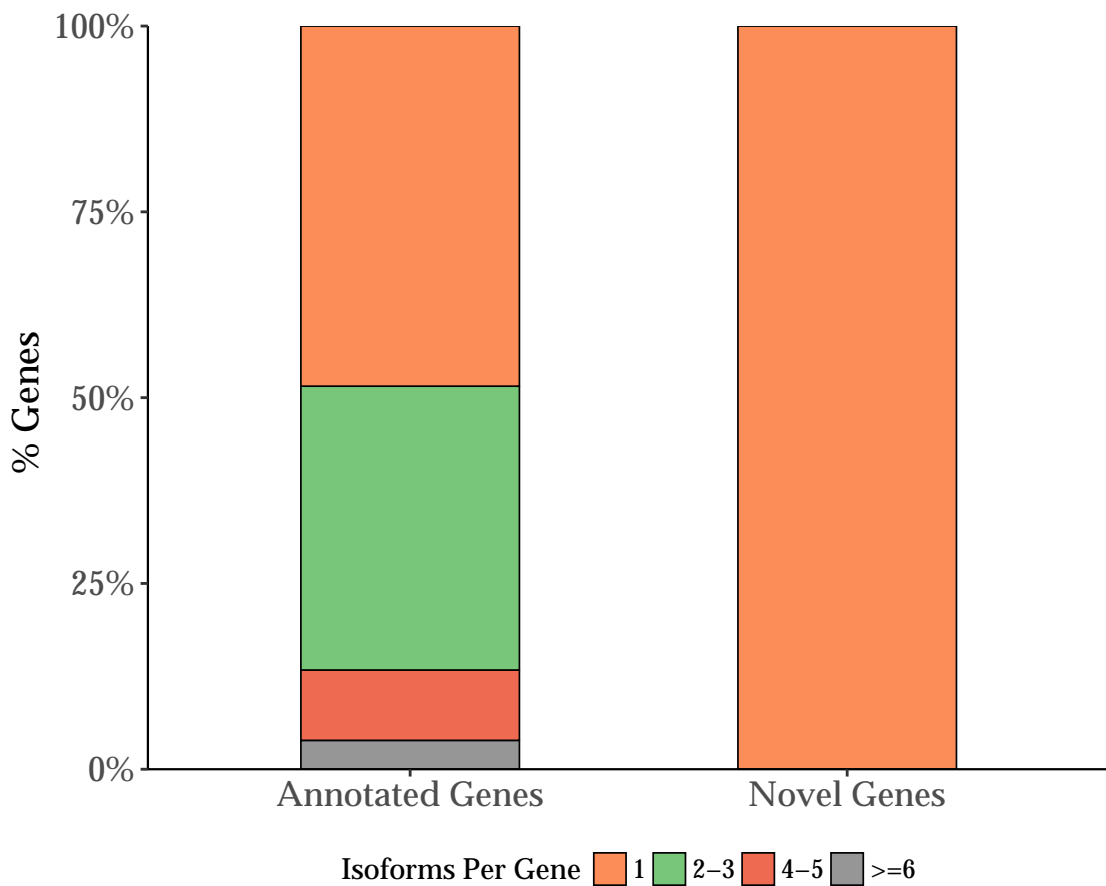
Category	# Isoforms
FSM	12713
ISM	1574
NIC	3122
NNC	1473
Genic Genomic	107
Antisense	396
Fusion	0
Intergenic	63
Genic Intron	0

## *Gene Characterization*

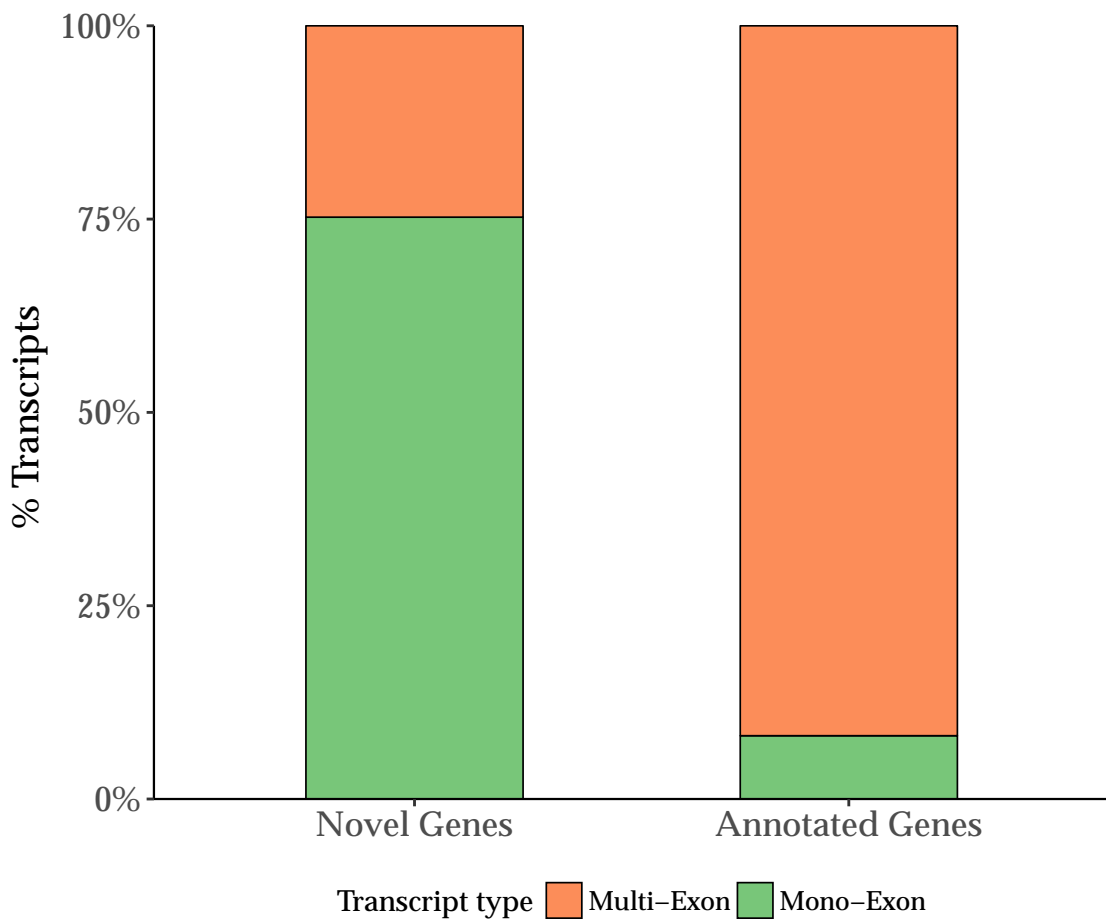
Number of Isoforms per Gene



## Number of Isoforms per Gene, Novel vs Known Genes



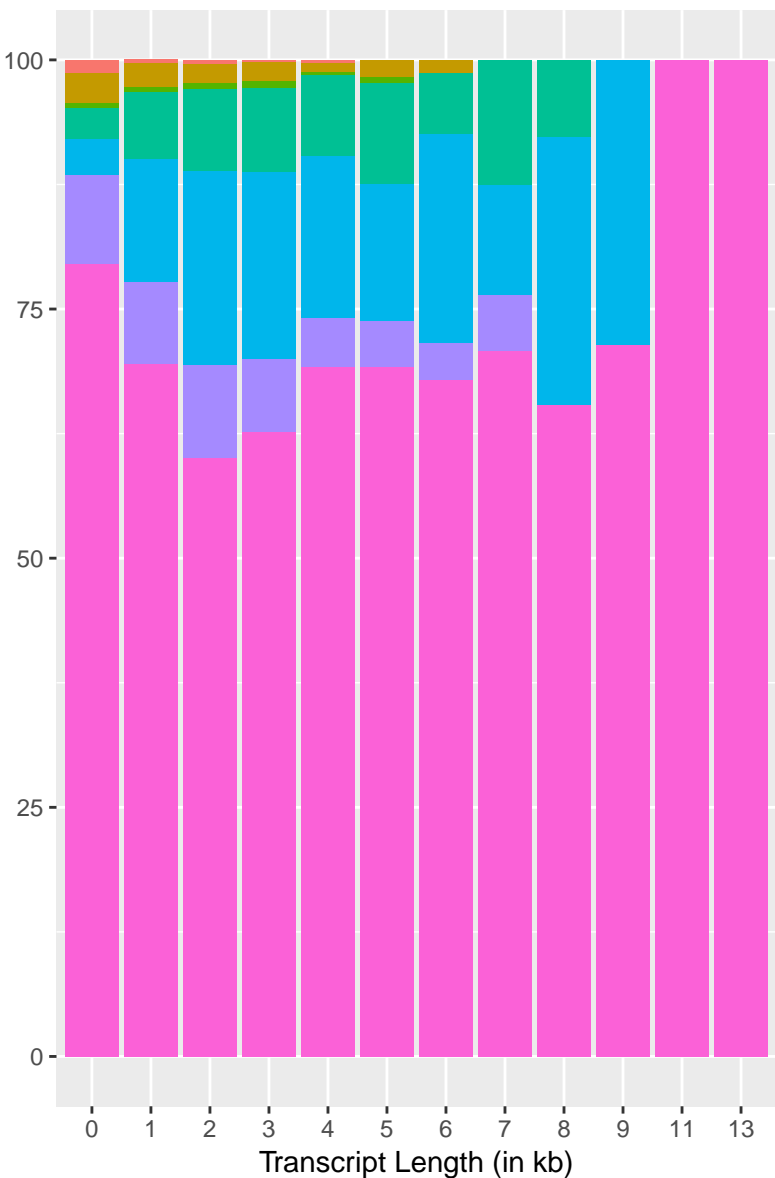
Distribution of Mono- vs Multi-Exon Transcripts



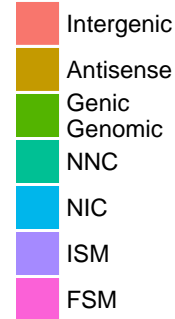


Classifications by Transcript Length, normalized

Percentages

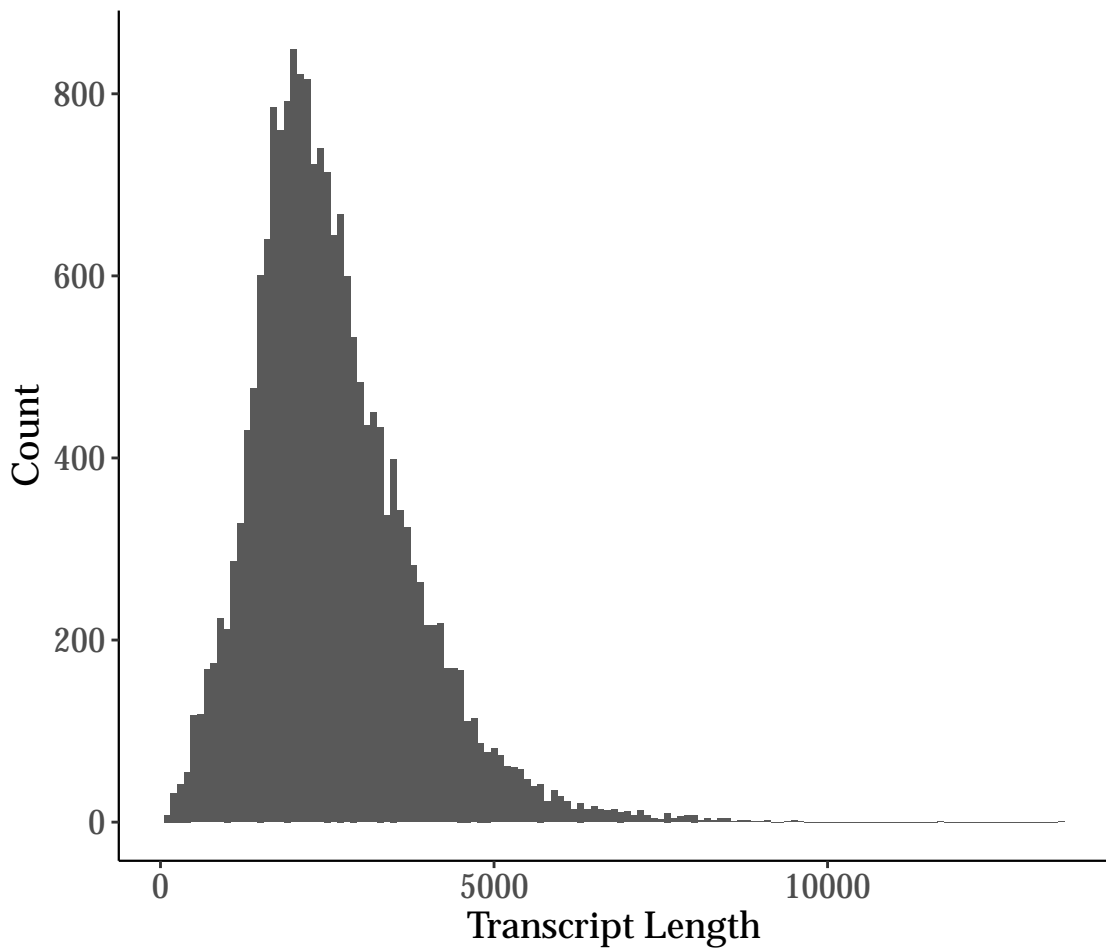


factor(structural\_category)

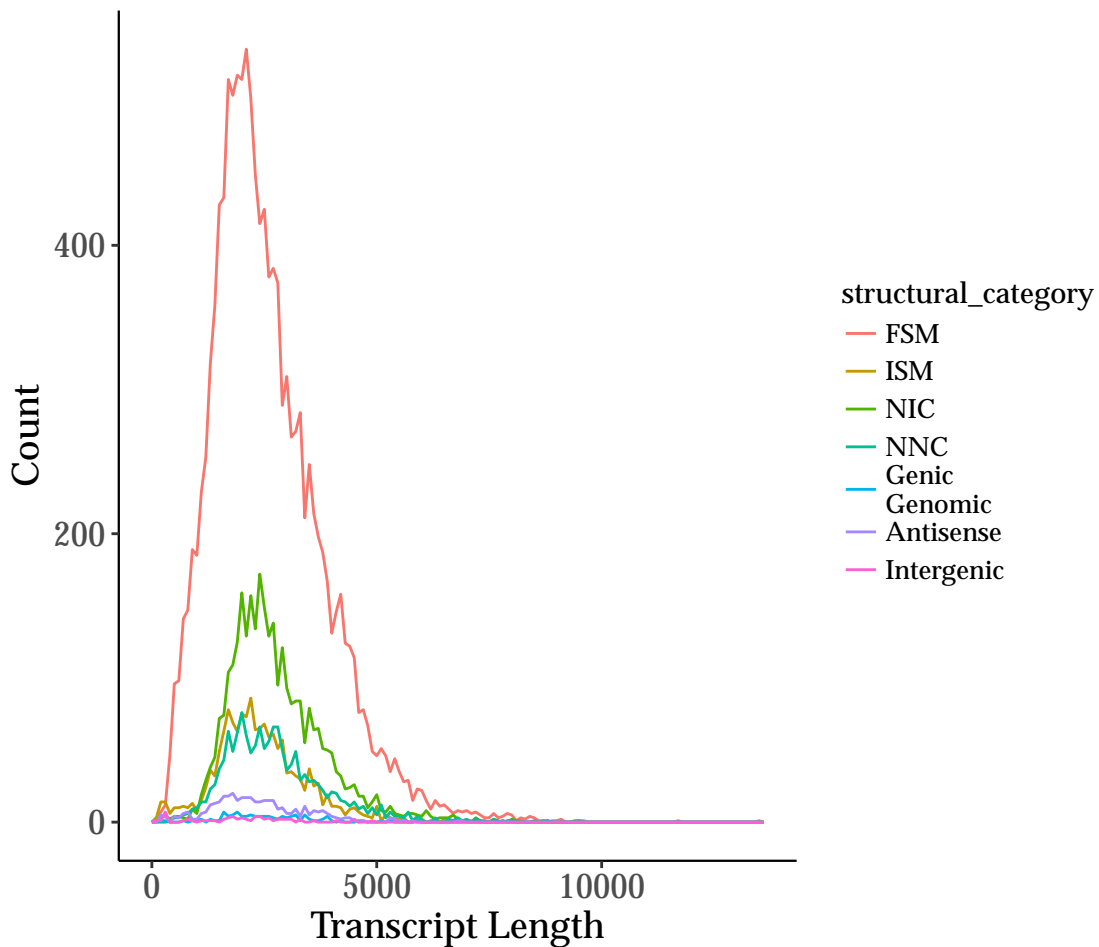




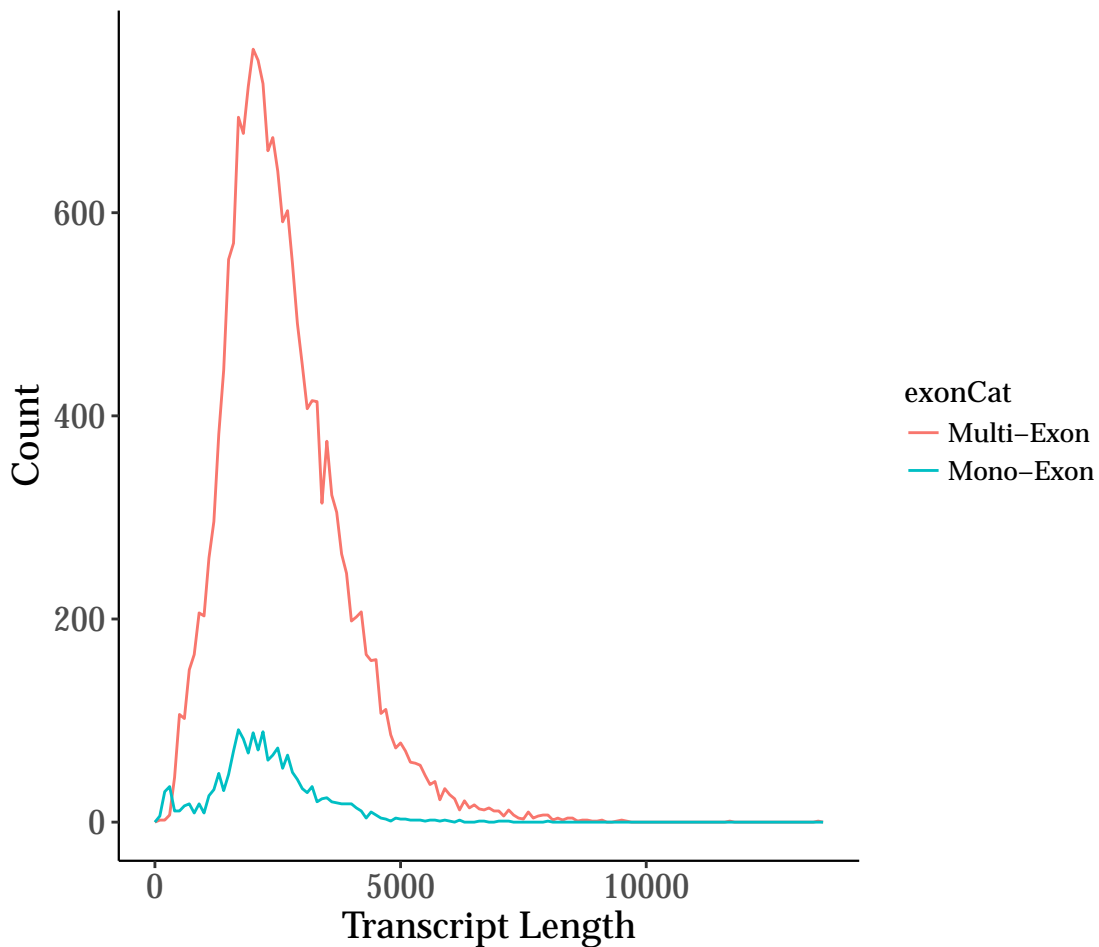
Transcript Lengths, all transcripts



Transcript Lengths, by structural category

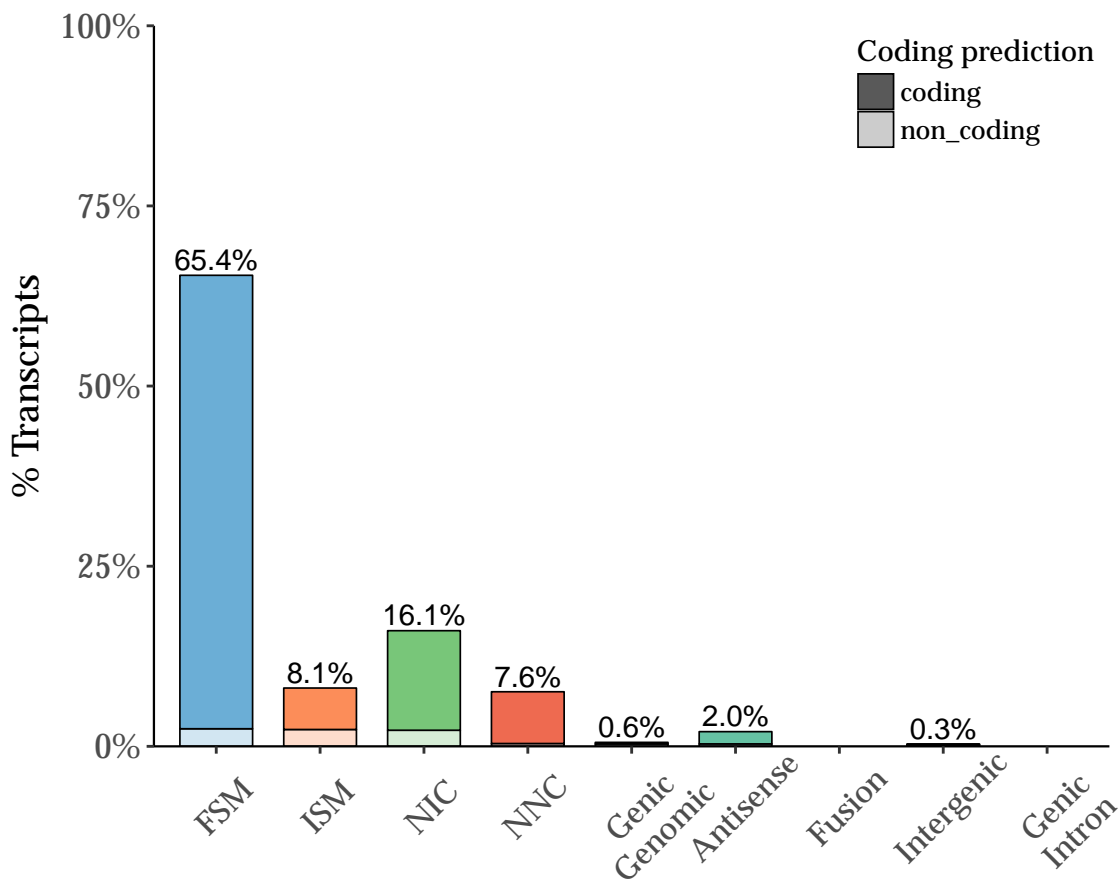


Transcript Lengths, Mono- vs Multi-Exons

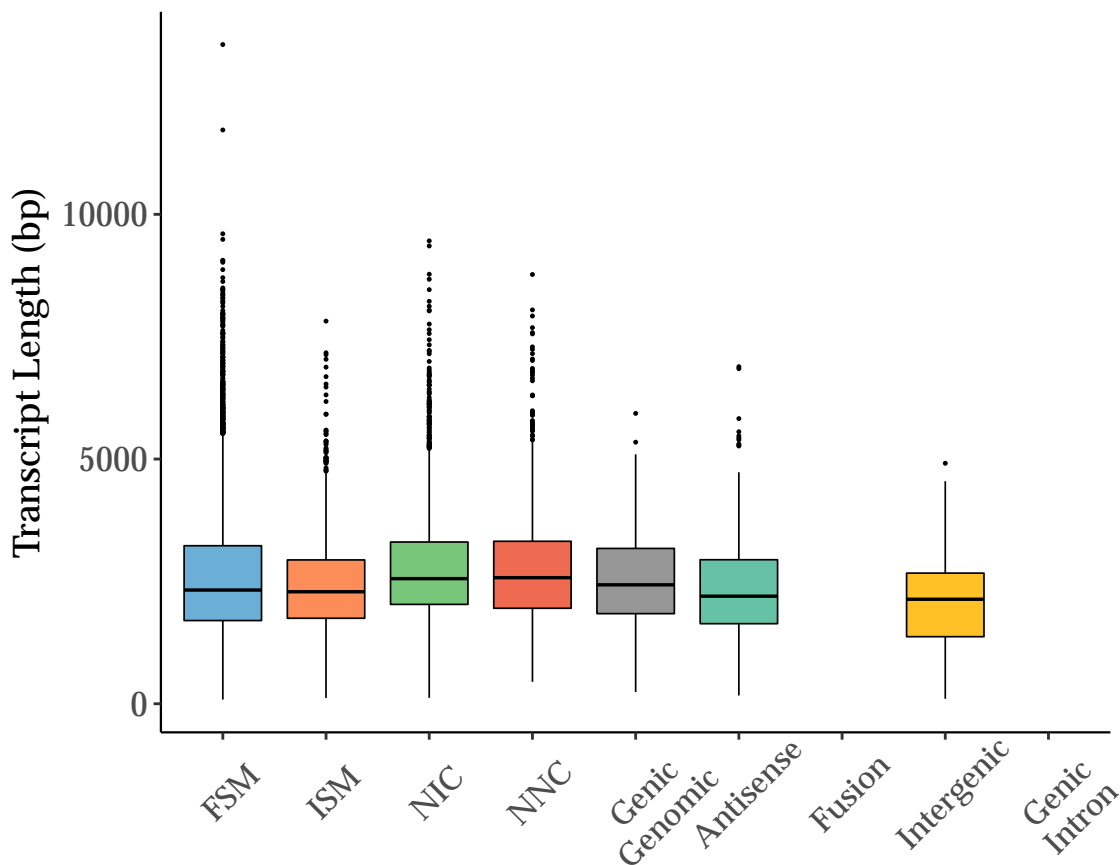


*Structrual Isoform Characterization  
by Splice Junctions*

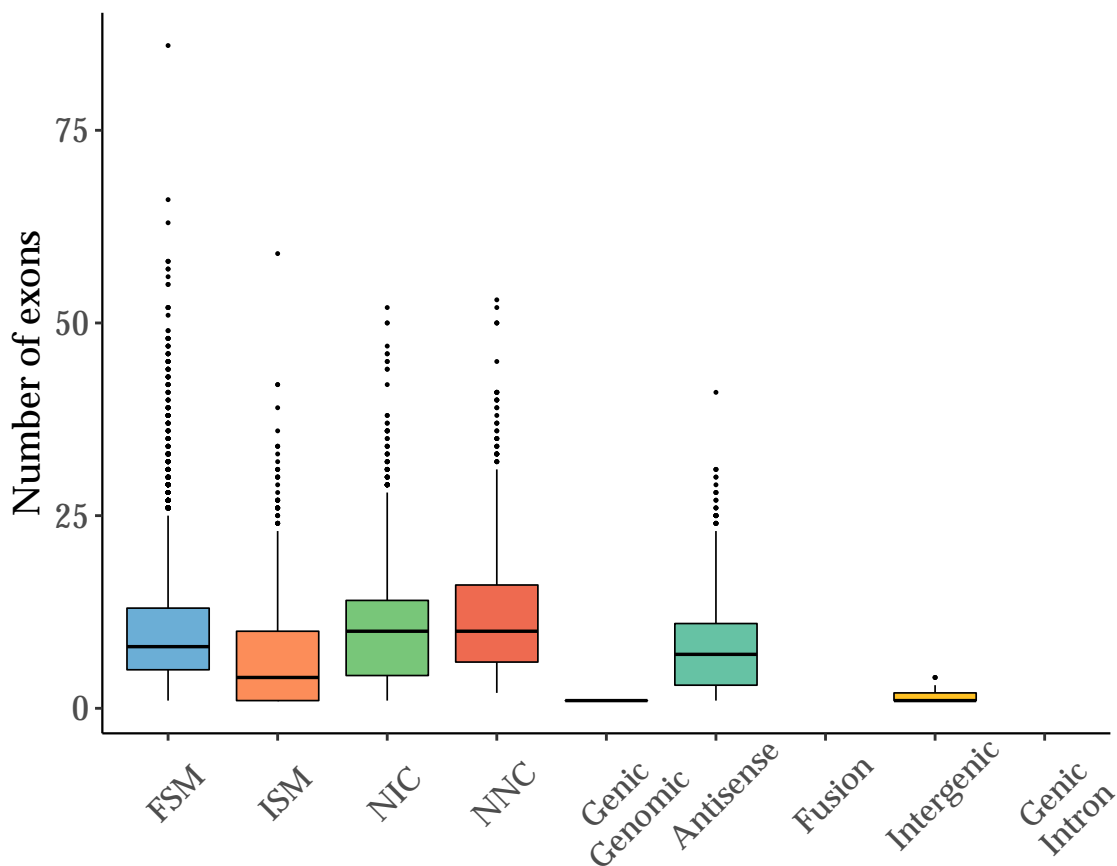
## Isoform distribution across structural categories



Transcript Lengths by Structural Classification

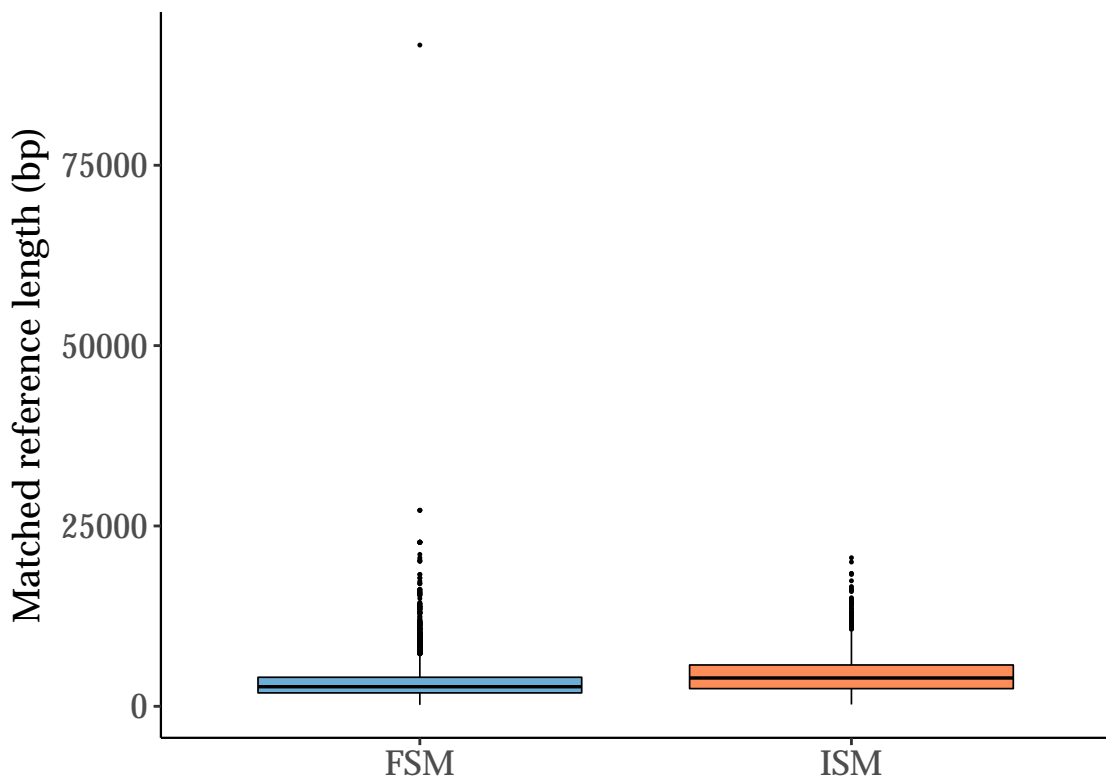


Exon Counts by Structural Classification



## Length distribution of matched reference transcripts

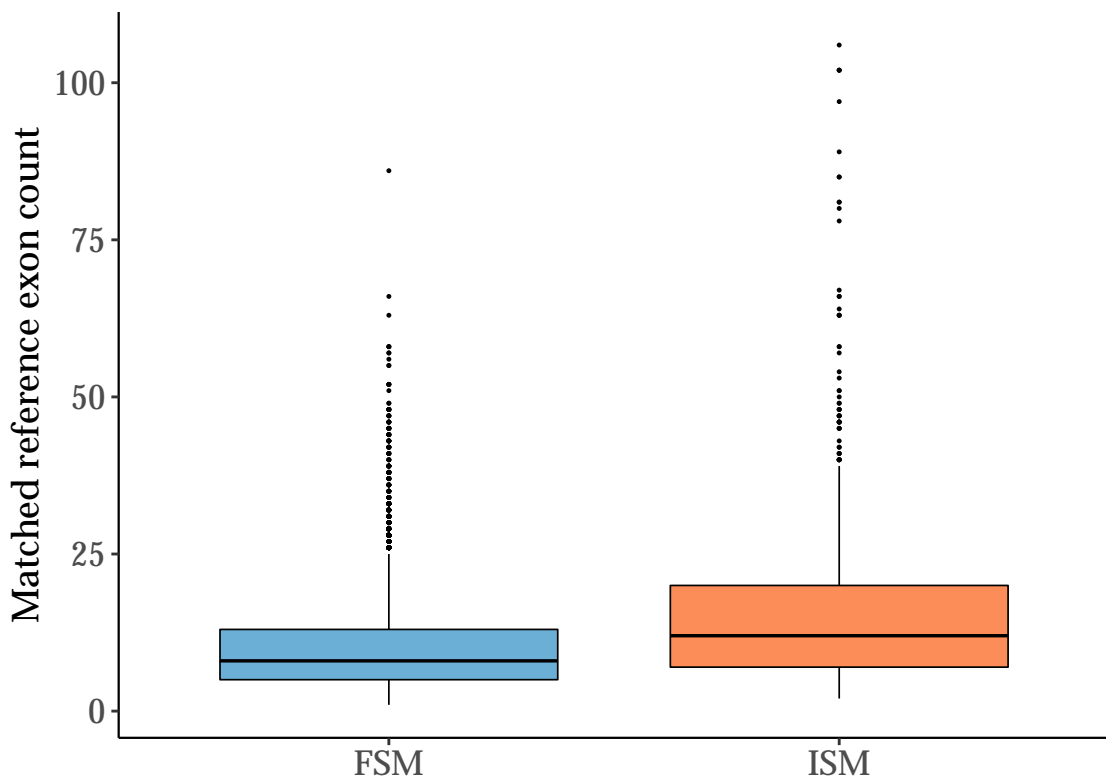
Applicable only to FSM and ISM categories





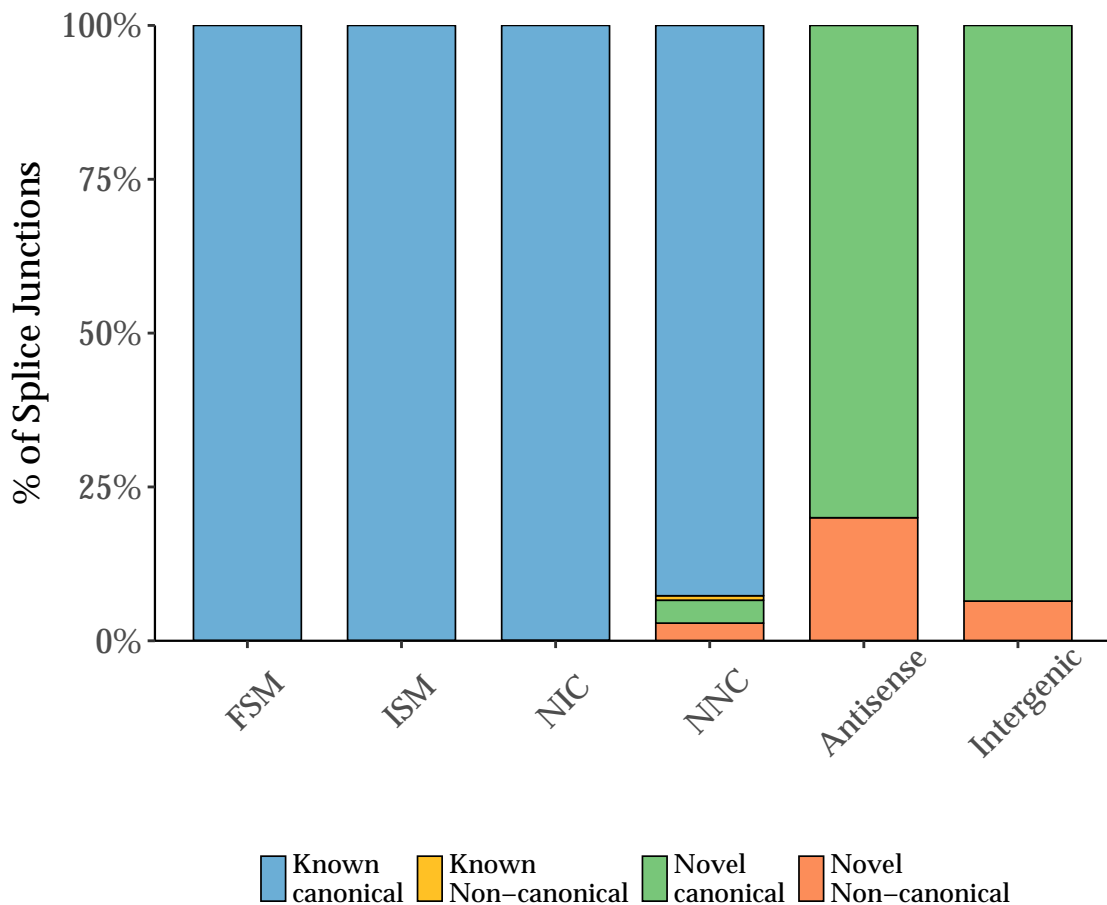
## Exon number distribution of matched reference transcripts

Applicable only to FSM and ISM categories

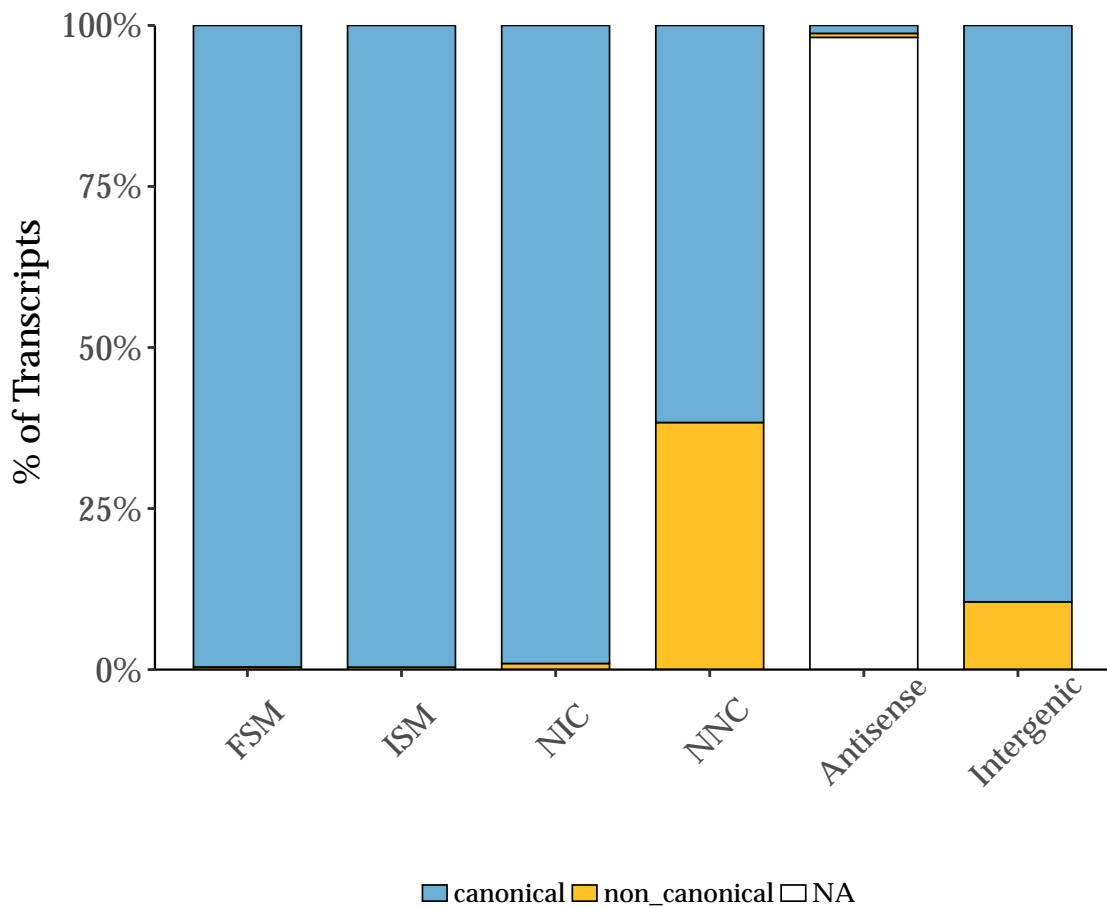


## *Splice Junction Characterization*

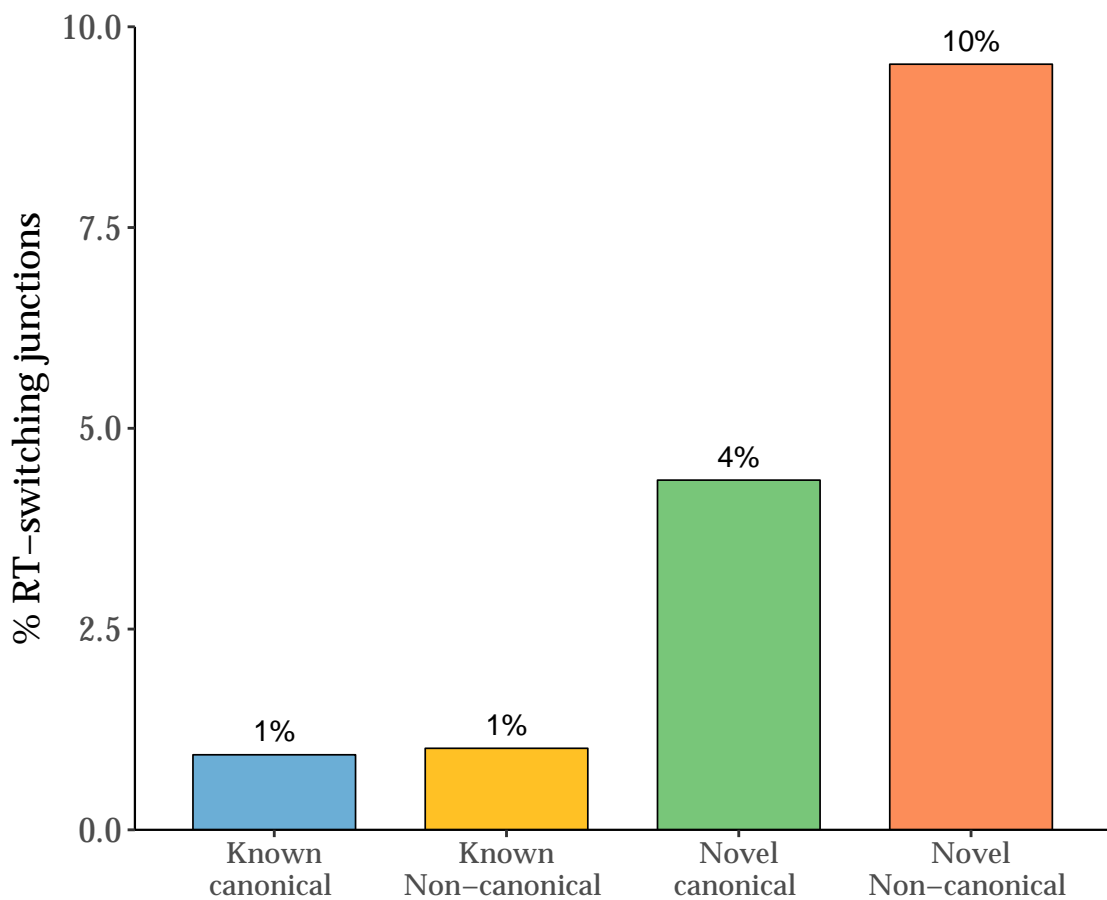
# Distribution of Splice Junctions by Structural Classification



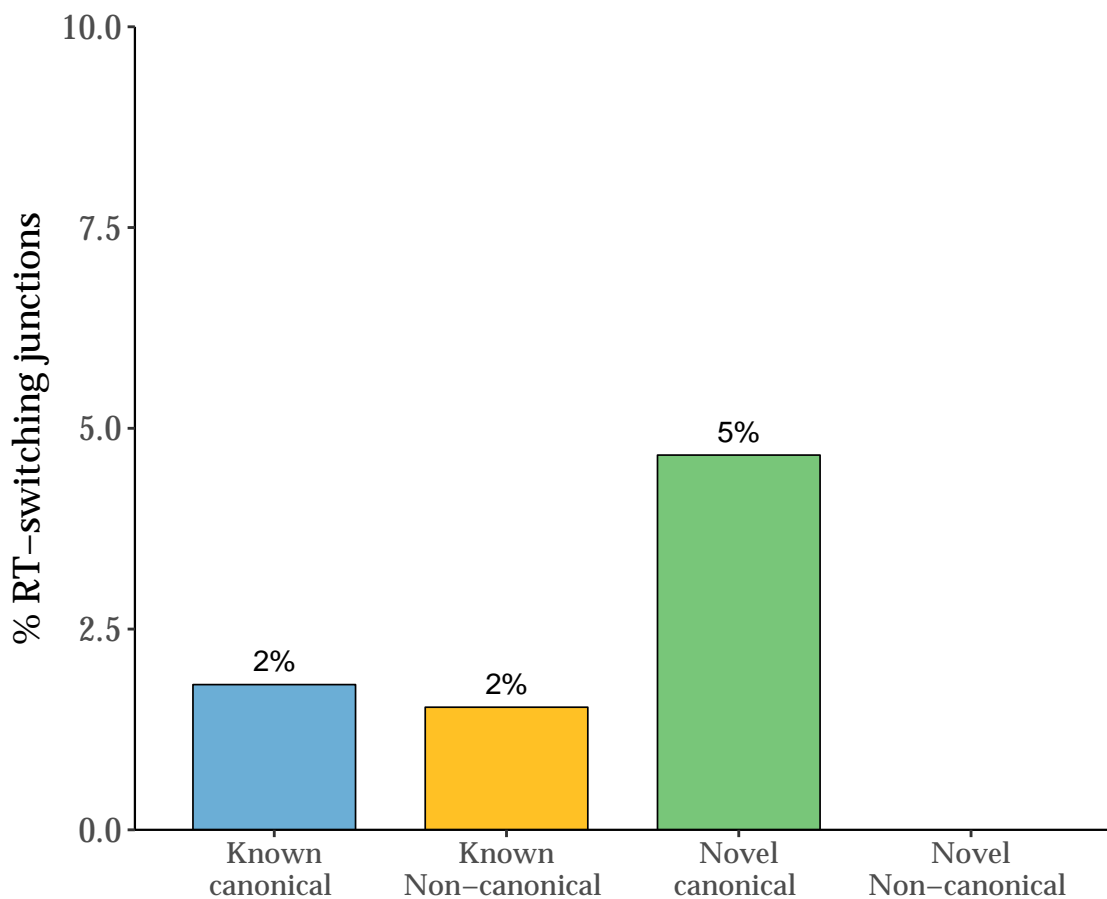
Distribution of Transcripts by Splice Junctions



# RT-switching, all junctions



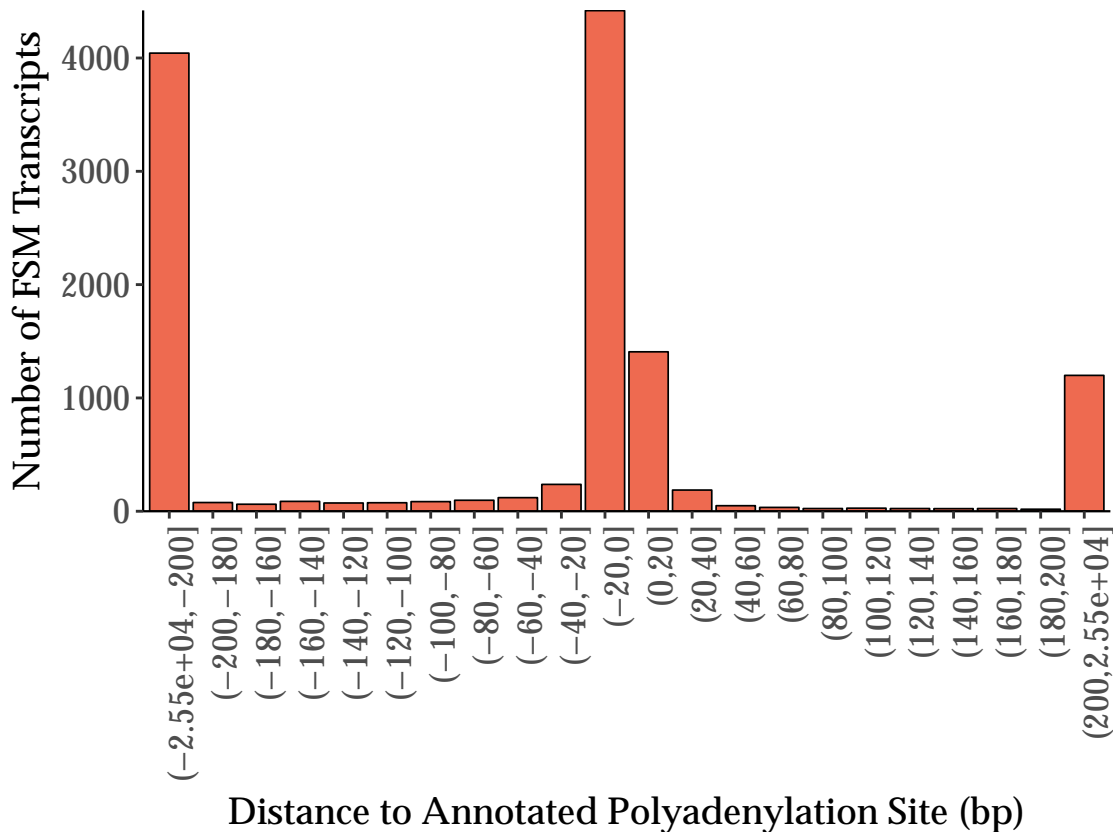
# RT-switching, unique junctions



*Comparison with Annotated TSS and PolyA Sites*

## Distance to Annotated Polyadenylation Site, FSM only

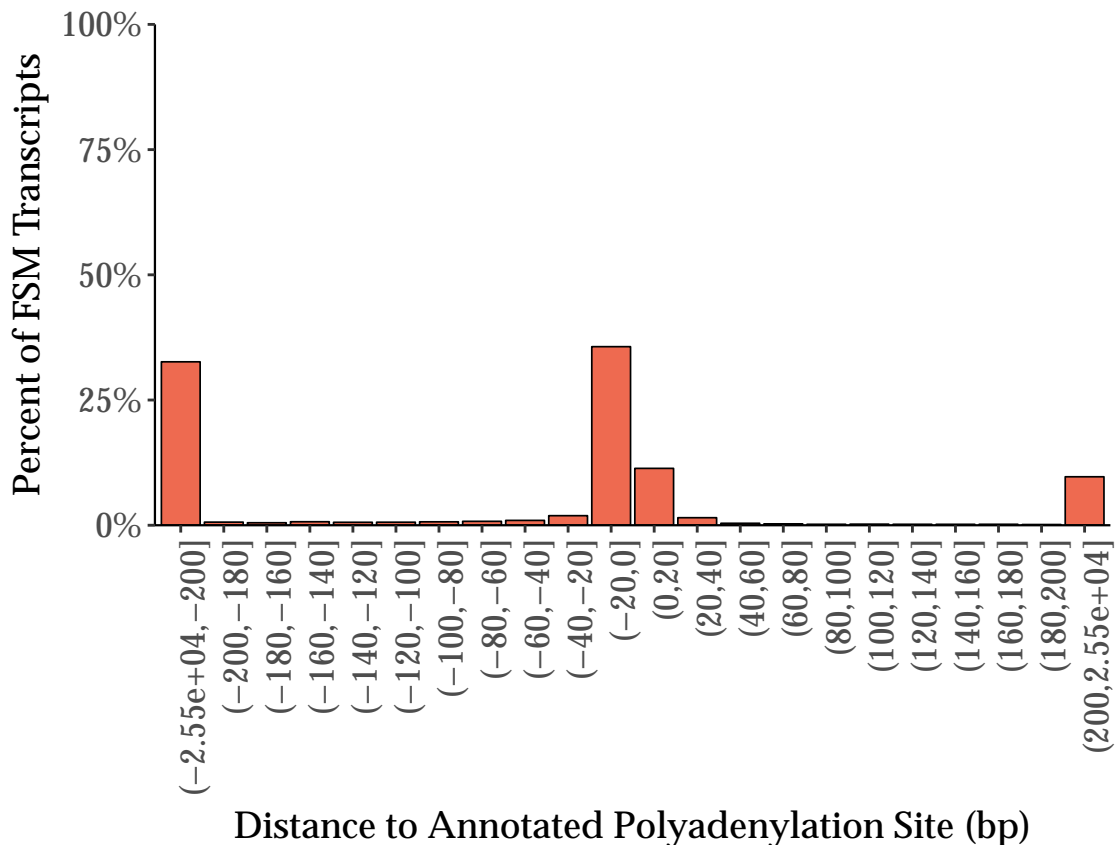
Negative values indicate upstream of annotated polyA site





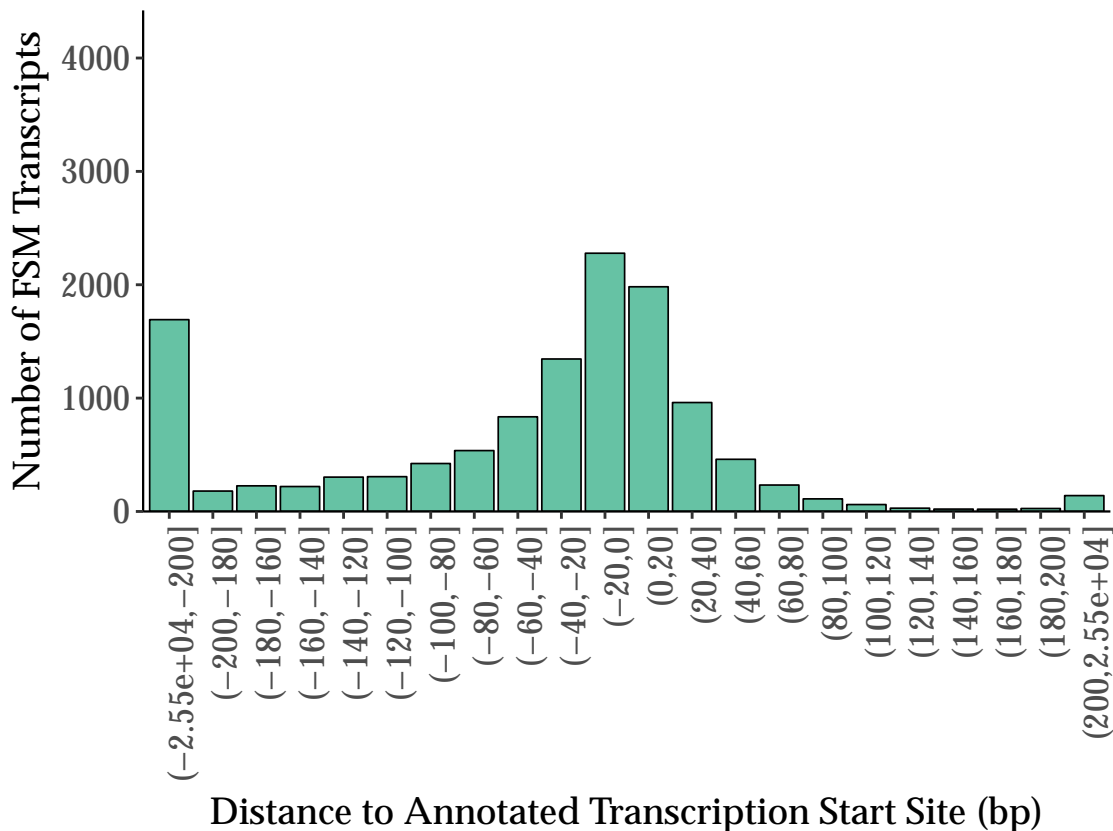
## Distance to Annotated Polyadenylation Site, FSM only

Negative values indicate upstream of annotated polyA site



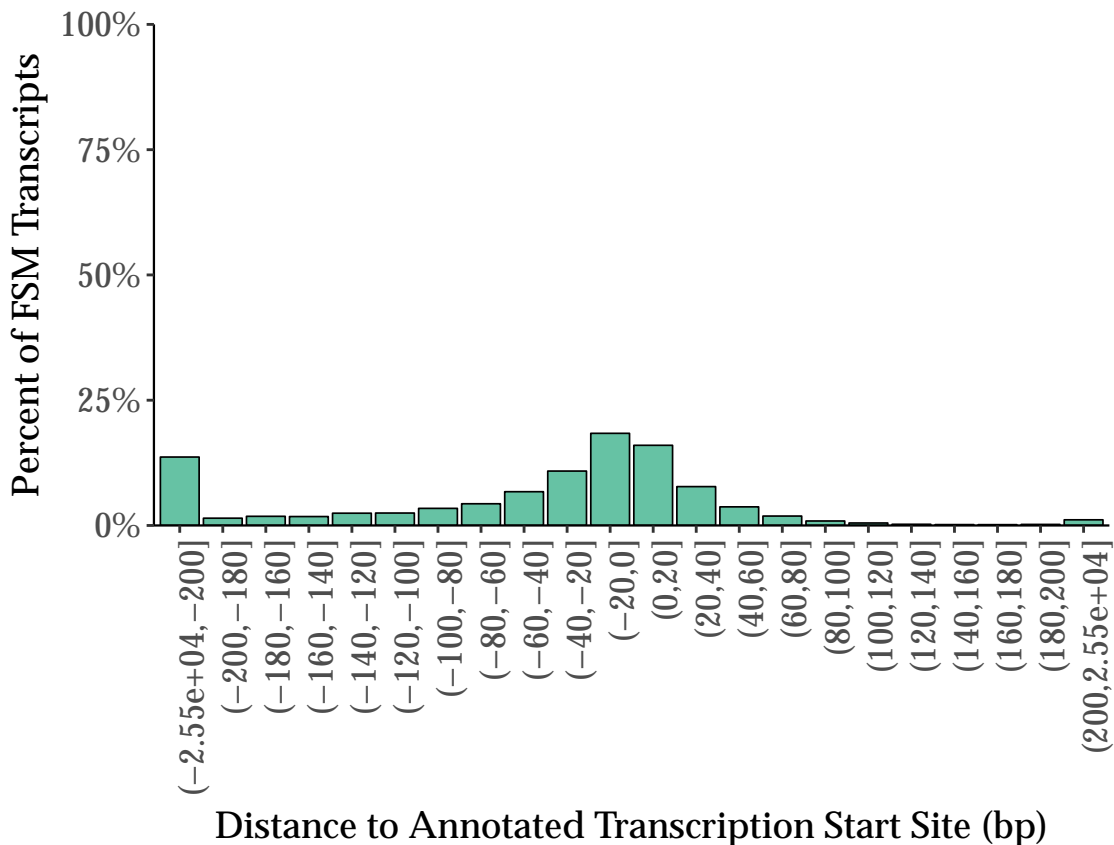
## Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



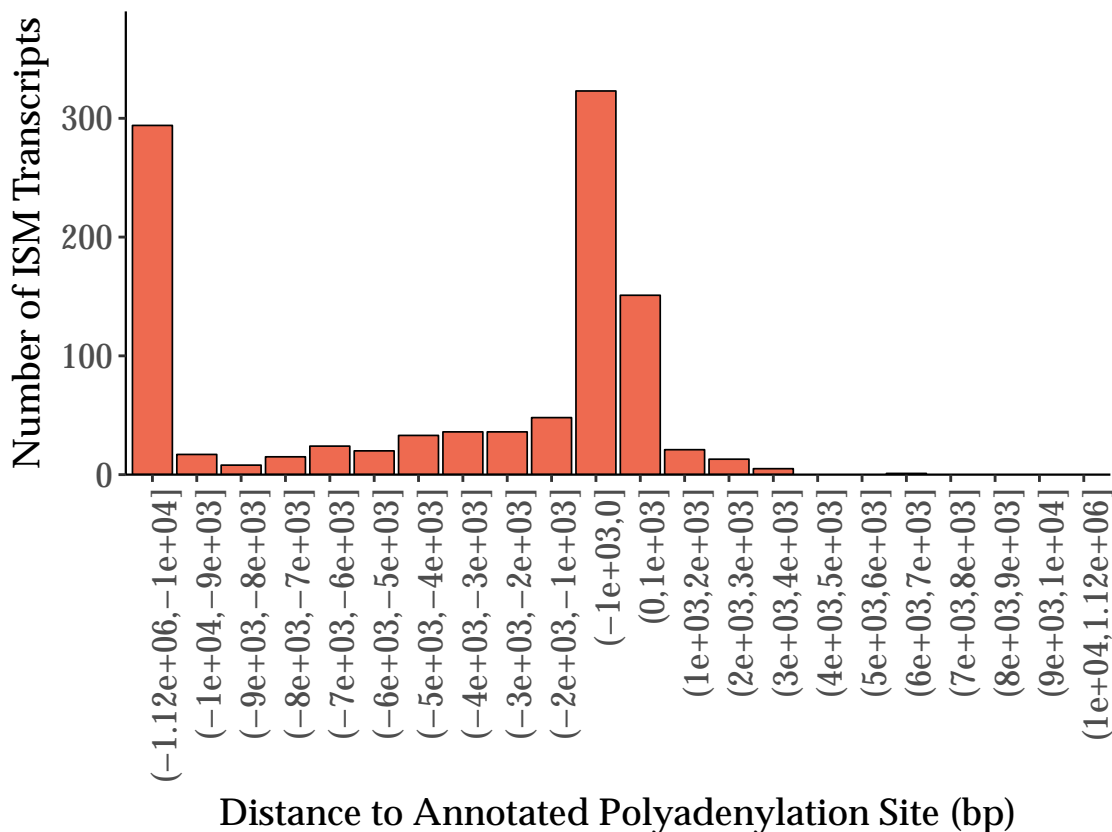
## Distance to Annotated Transcription Start Site, FSM only

Negative values indicate downstream of annotated TSS



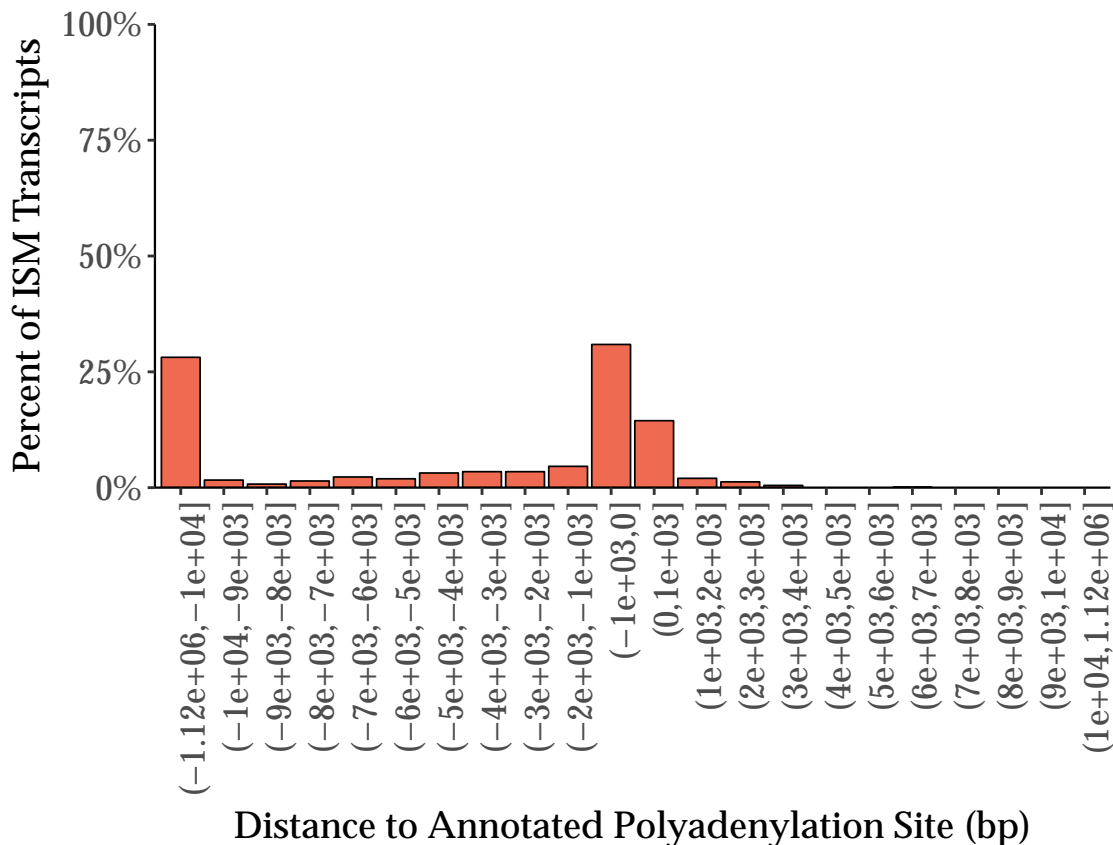
## Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



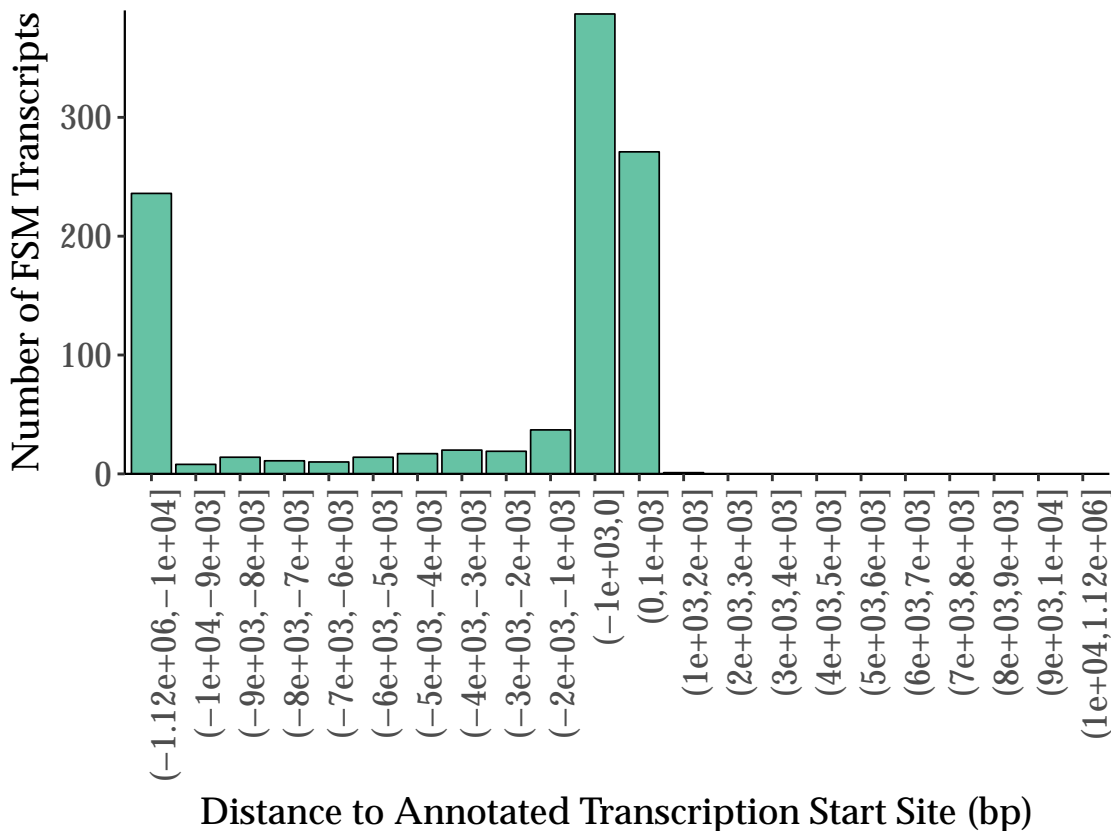
## Distance to Annotated Polyadenylation Site, ISM only

Negative values indicate upstream of annotated polyA site



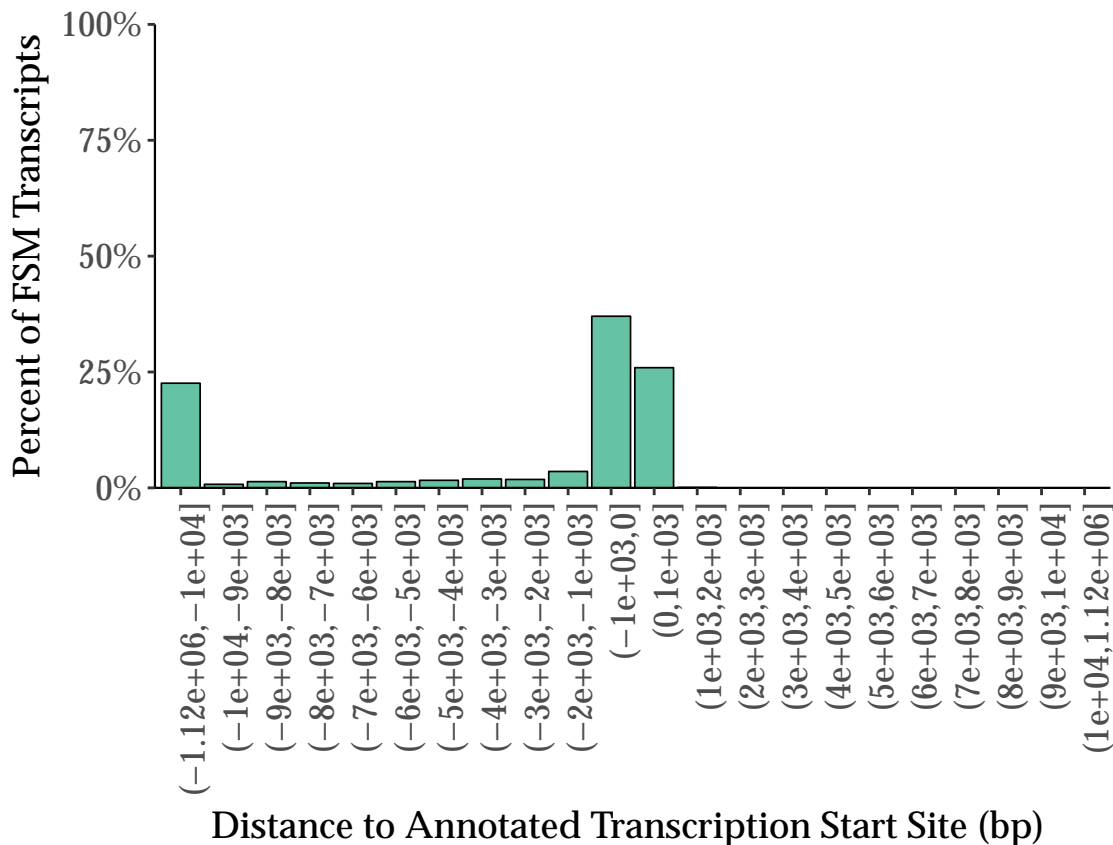
## Distance to Annotated Transcription Start Site, ISM only

Negative values indicate downstream of annotated TSS



## Distance to Annotated Transcription Start Site, ISM only

Negative values indicate downstream of annotated TSS

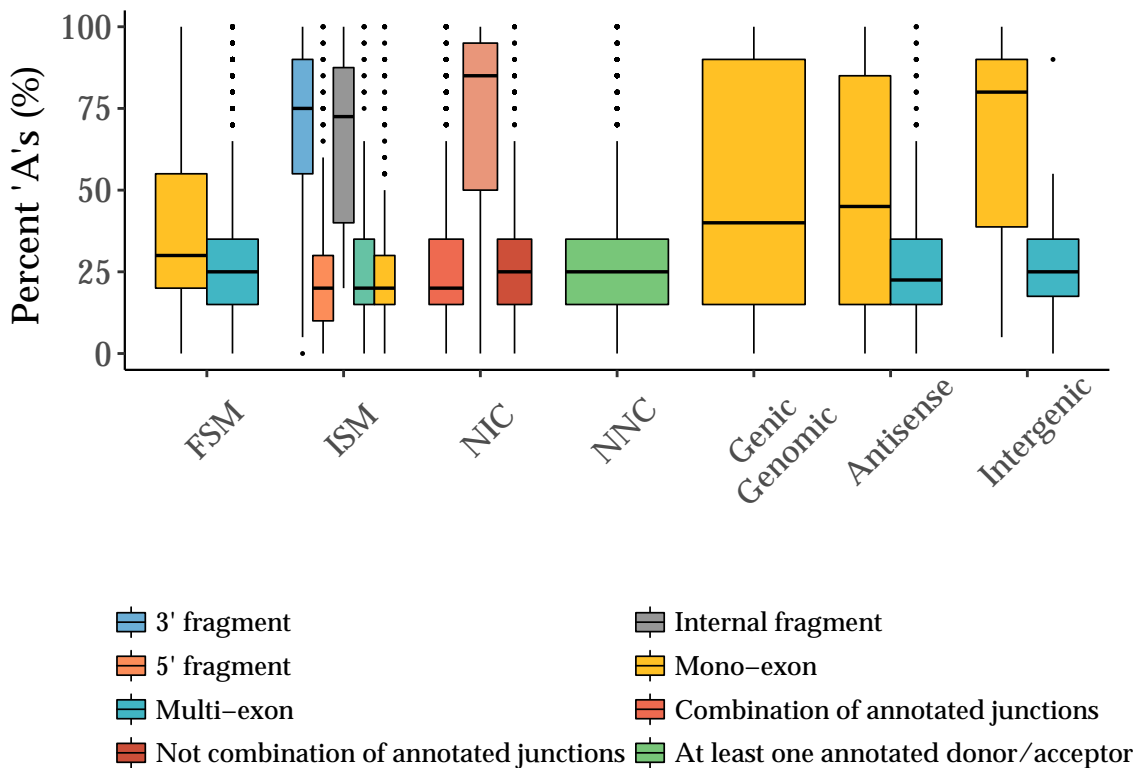


*Intra-Priming Quality Check*



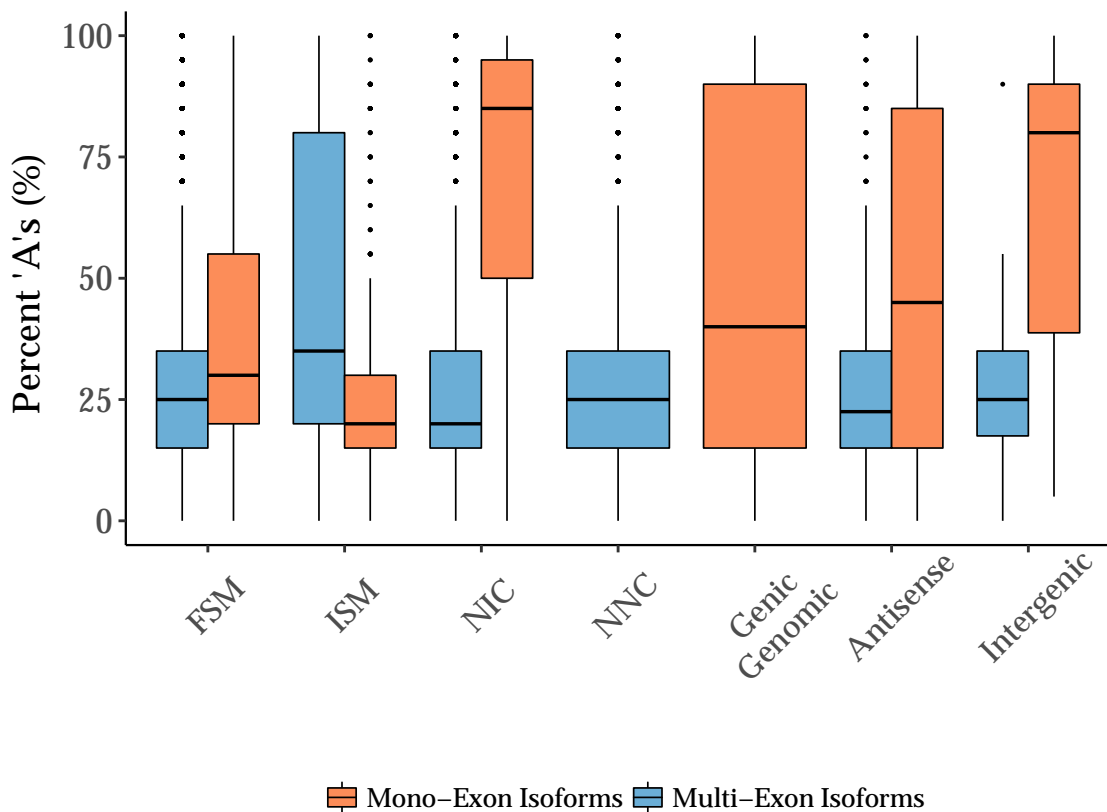
## Possible Intra-Priming by Structural Category

Percent of genomic 'A's in downstream 20 bp



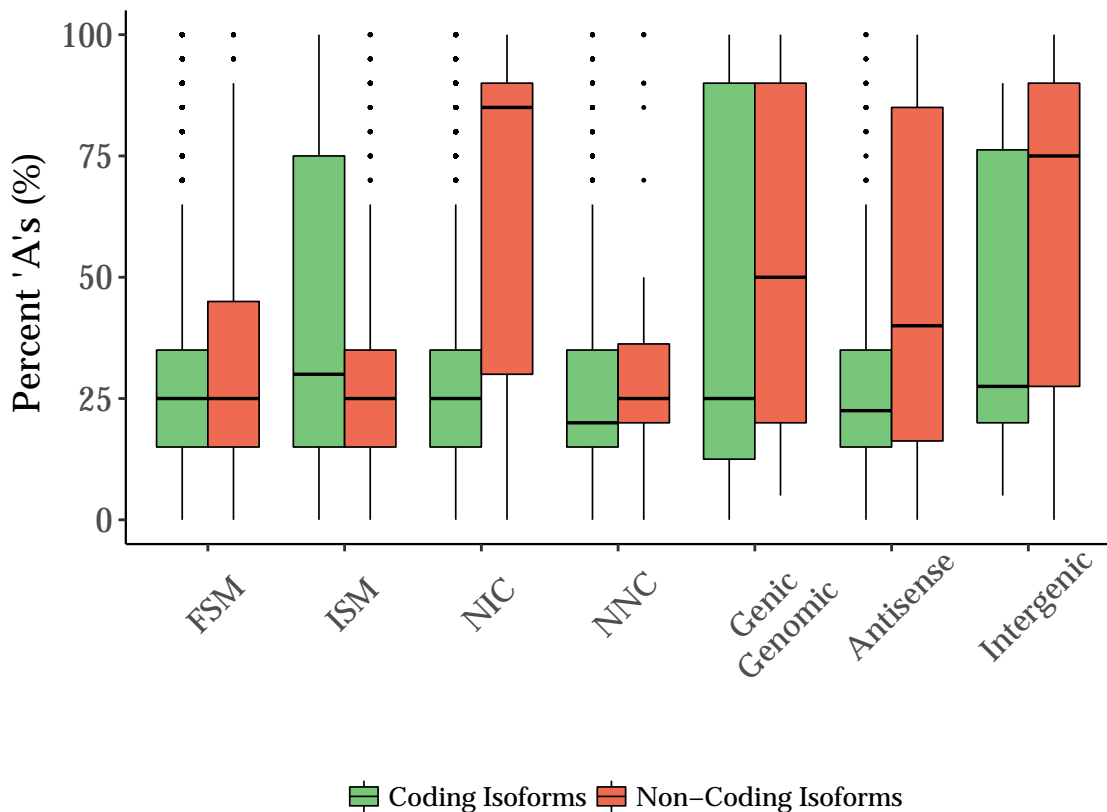
## Possible Intra-Priming, Mono- vs Multi-Exon

Percent of genomic 'A's in downstream 20 bp



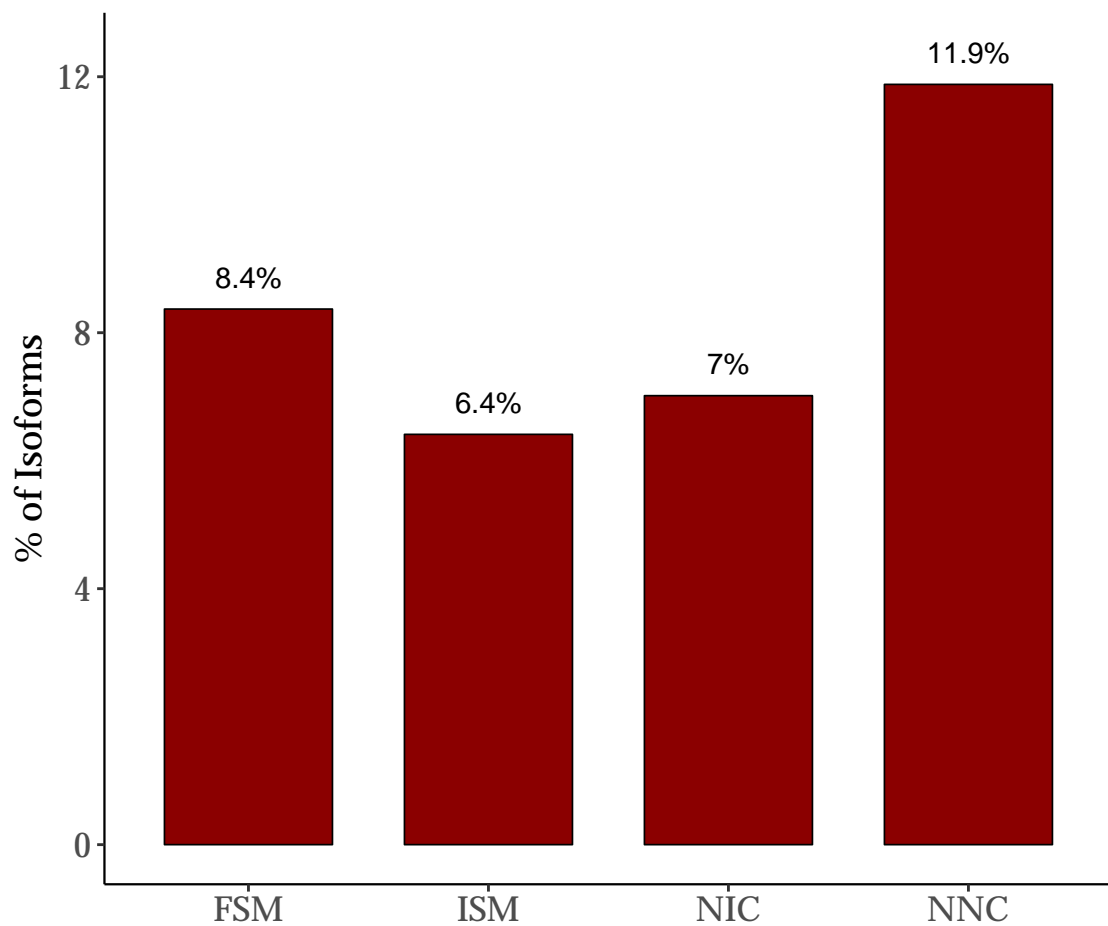
## Possible Intra-Priming, Coding vs Non-Coding

Percent of genomic 'A's in downstream 20 bp



*Quality Controls*

## Incidence of RT-switching



## Incidence of Non-Canonical Junctions

