SQANTI3 report

Unique Genes: 8938 Unique Isoforms: 23894

Transcript Classification

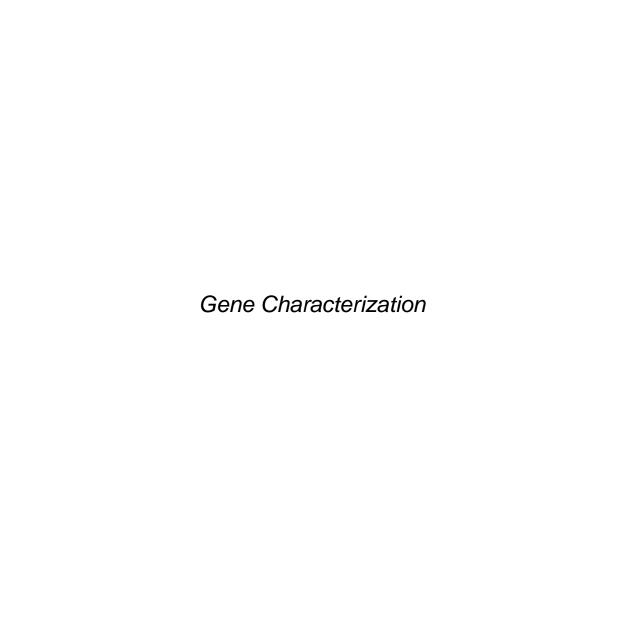
Gene Classification

Category	Genes, count	
Annotated Genes	8906	
Novel Genes	32	

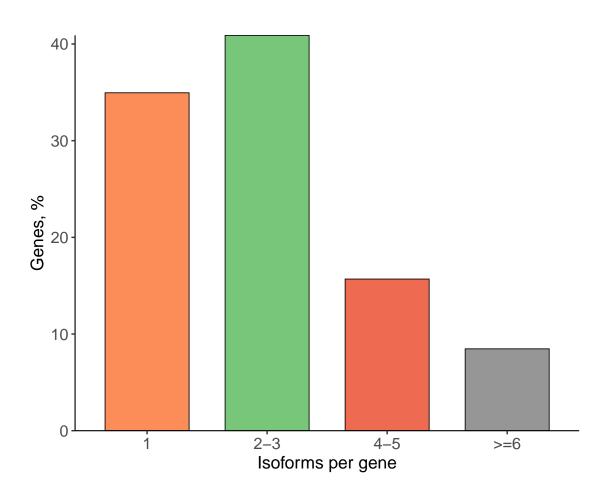
Category	Isoforms, count
FSM	18039
ISM	3458
NIC	2037
NNC	303
Genic Genomic	3
Antisense	13
Fusion	19
Intergenic	22
Genic Intron	0

Splice Junction Classification

Category	SJs, count	Percent
Known canonical	72049	99.15
Known Non-canonical	32	0.04
Novel canonical	583	0.80
Novel Non-canonical	0	0.00

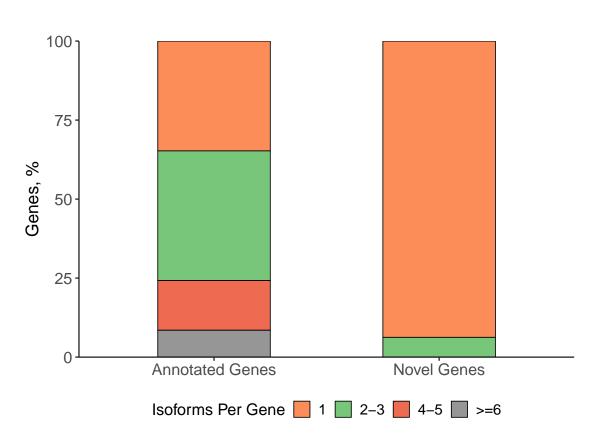


Number of Isoforms per Gene

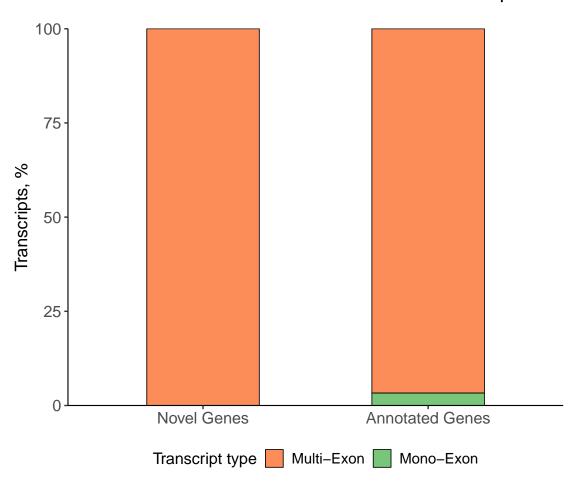


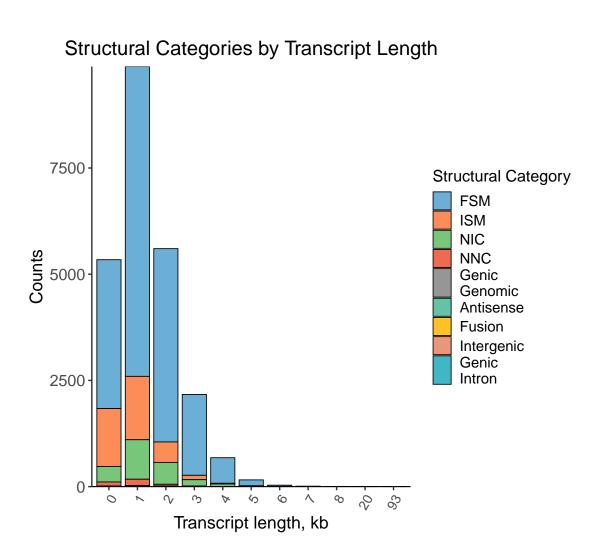
Number of Isoforms per Gene

Known vs Novel Genes

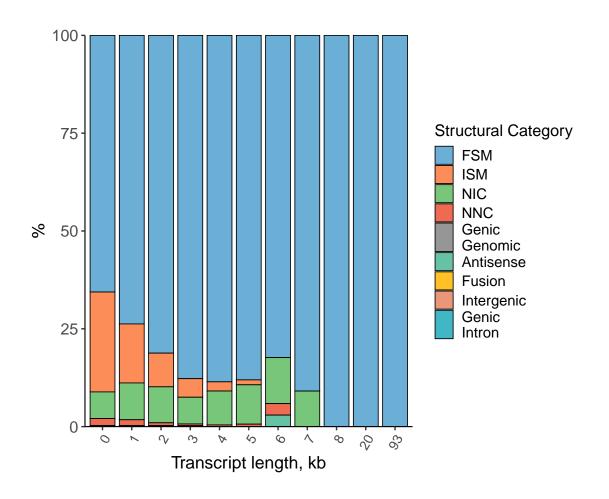


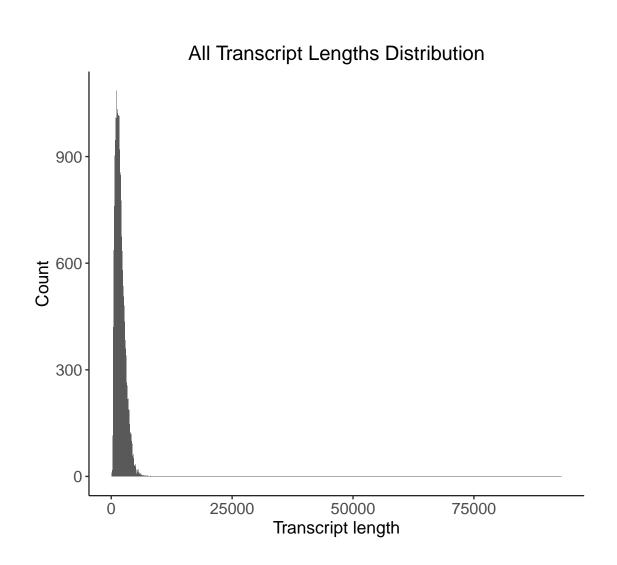
Distribution of Mono- vs Multi-Exon Transcripts



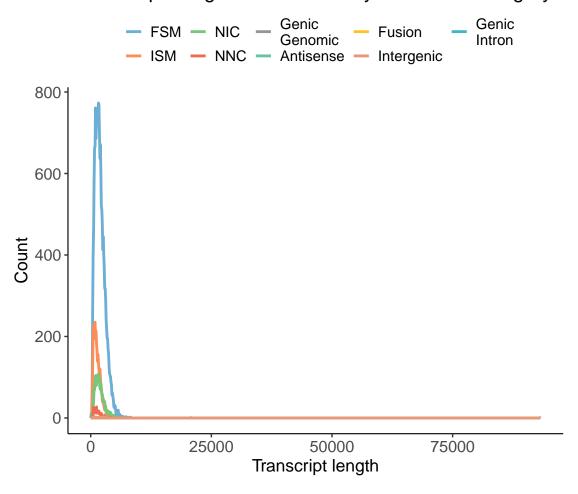


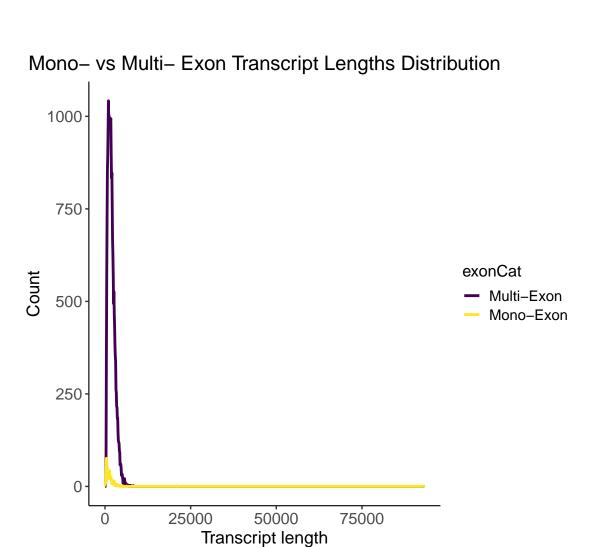
Structural Categories by Transcript Length

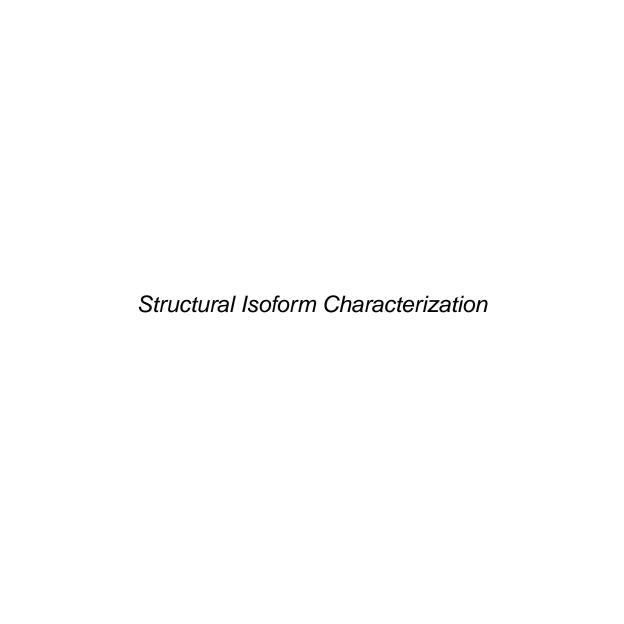




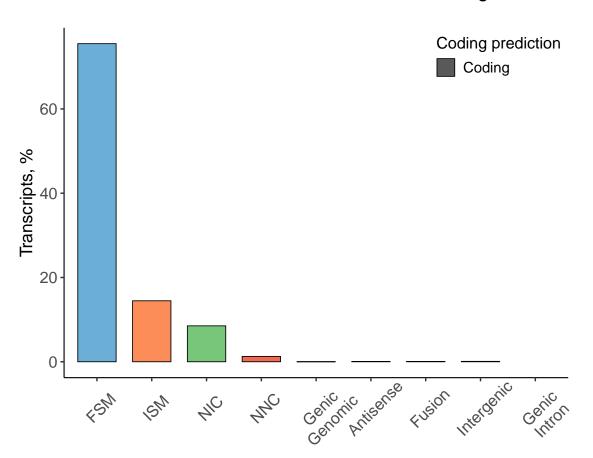
Transcript Lengths Distribution by Structural Category



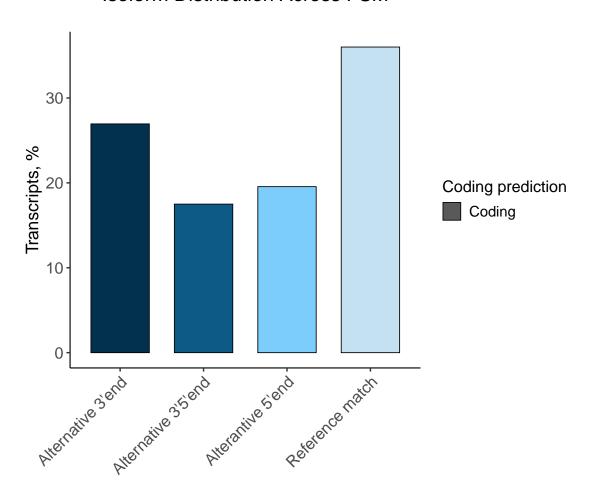




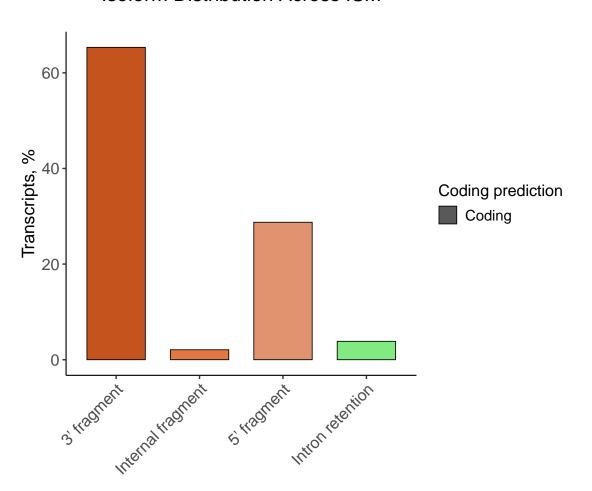
Isoform Distribution Across Structural Categories



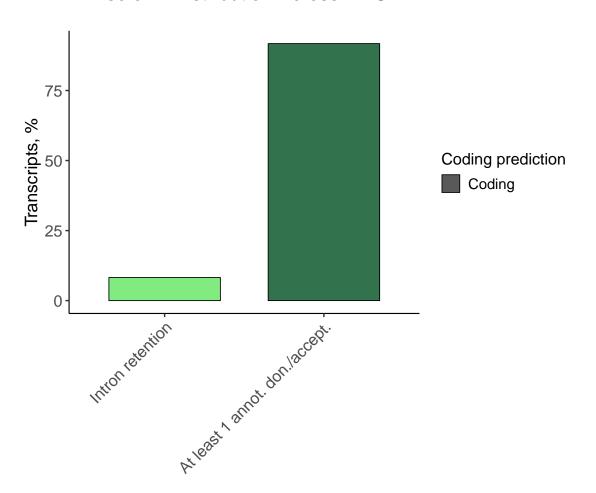
Isoform Distribution Across FSM



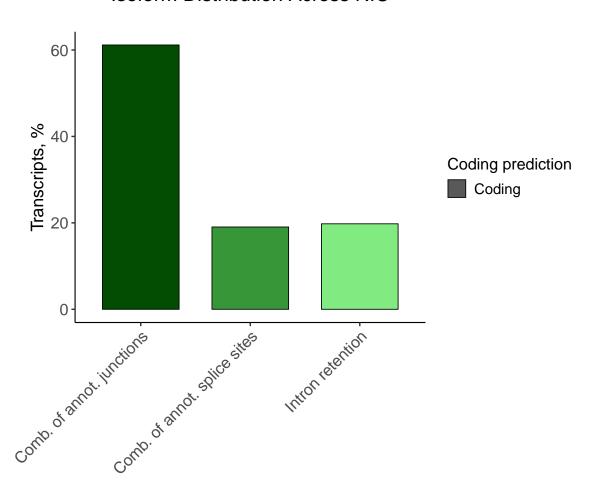
Isoform Distribution Across ISM



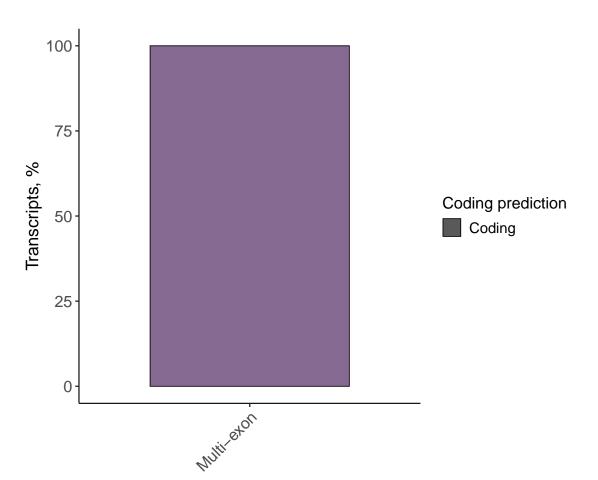
Isoform Distribution Across NNC



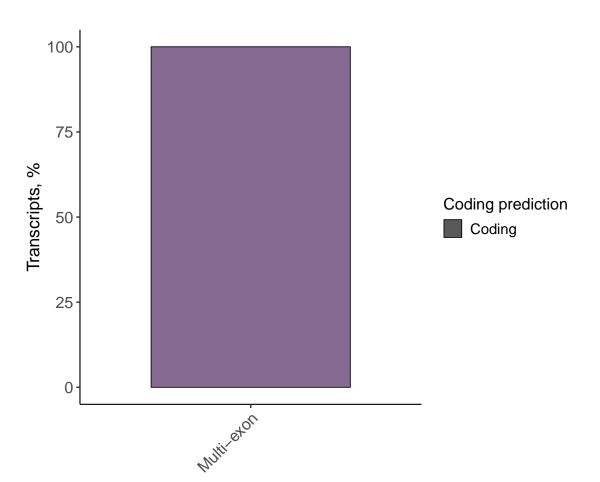
Isoform Distribution Across NIC



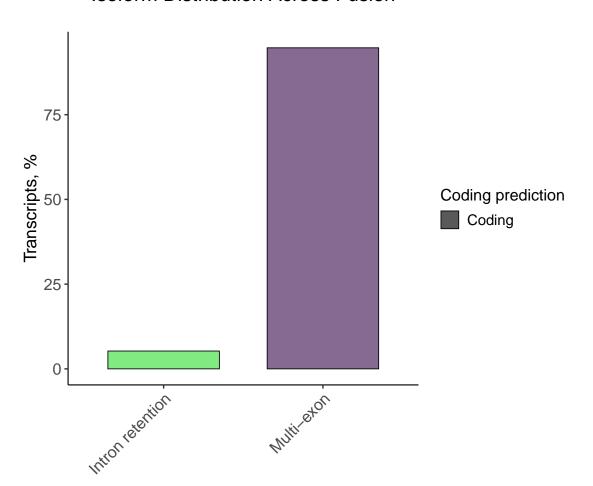
Isoform Distribution Across Genic Genomic



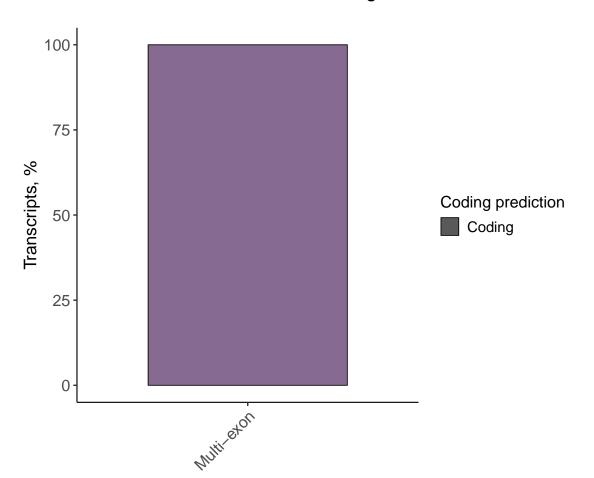
Isoform Distribution Across Antisense



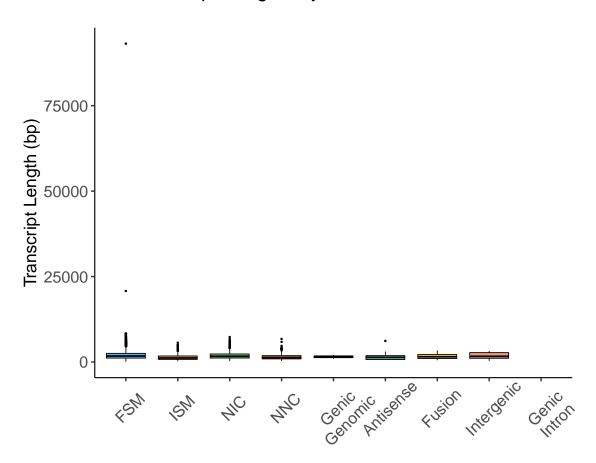
Isoform Distribution Across Fusion



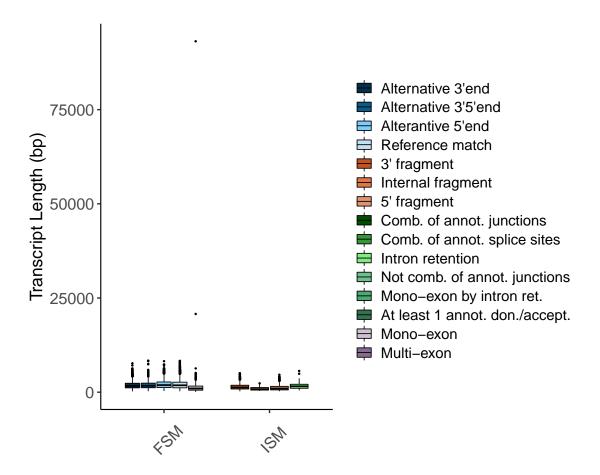
Isoform Distribution Across Intergenic



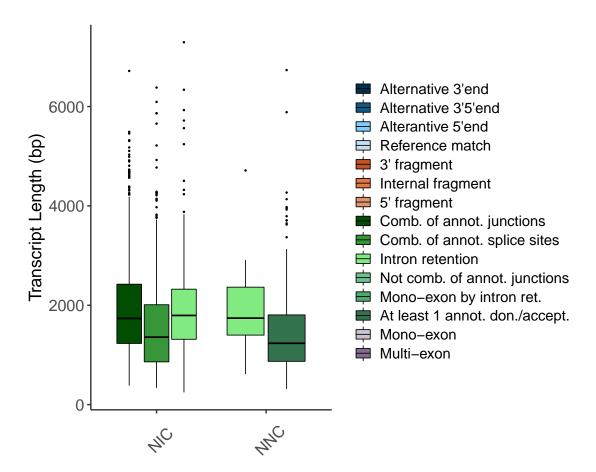
Transcript Lengths by Structural Classification



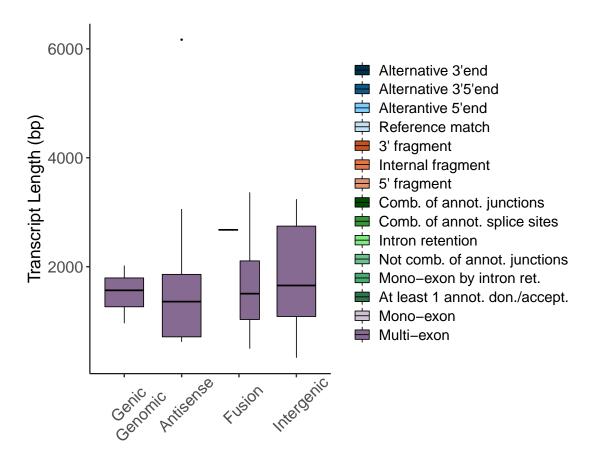
Transcript Lengths by Subcategory



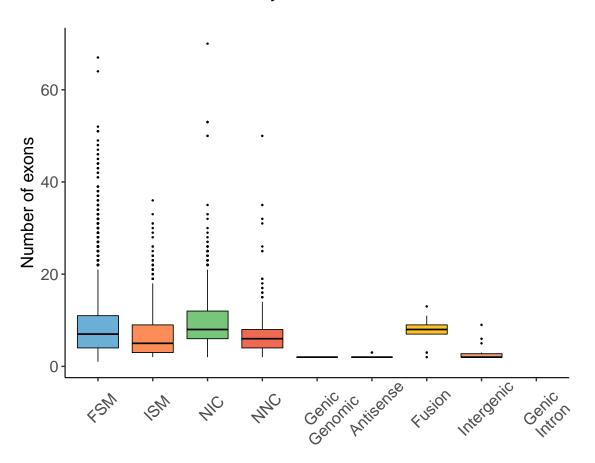
Transcript Lengths by Subcategory



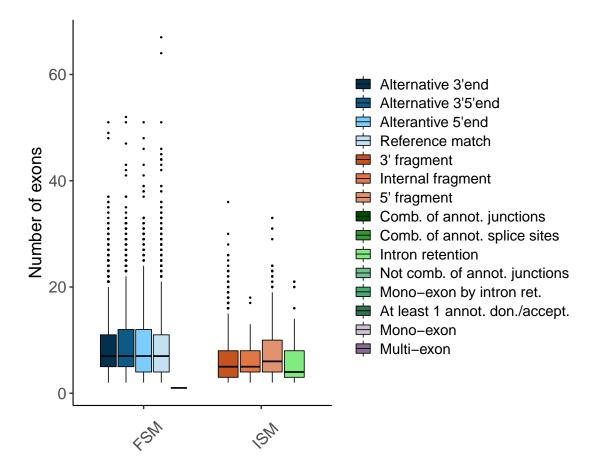
Transcript Lengths by Subcategory



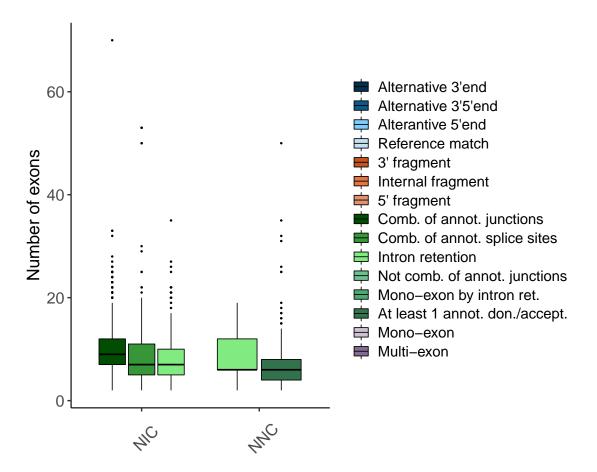
Exon Counts by Structural Classification



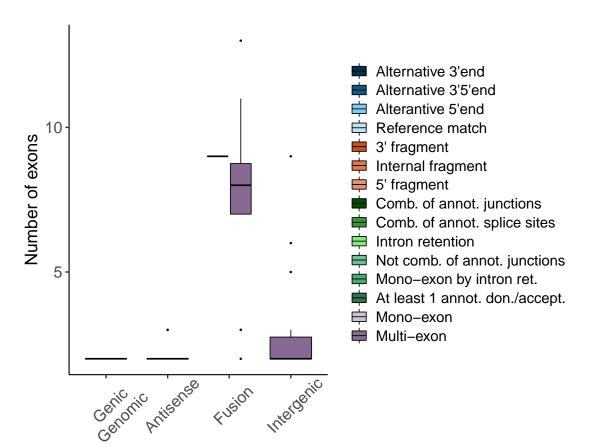
Exon Counts by Subcategory



Exon Counts by Subcategory

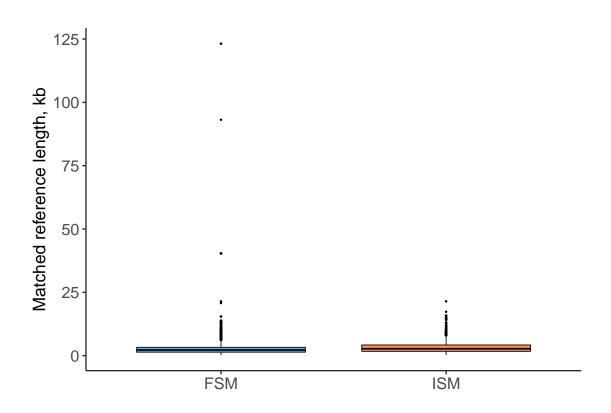


Exon Counts by Subcategory



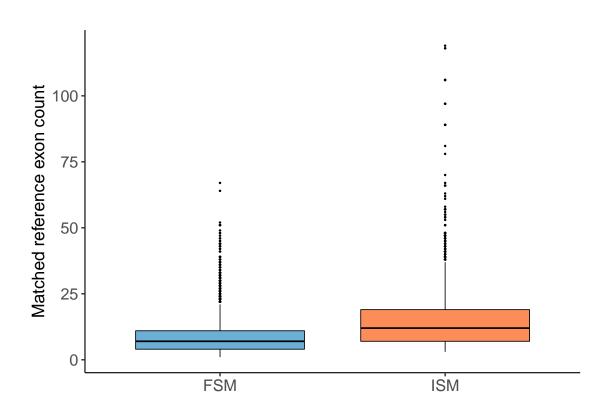
Length Distribution of Matched Reference Transcripts

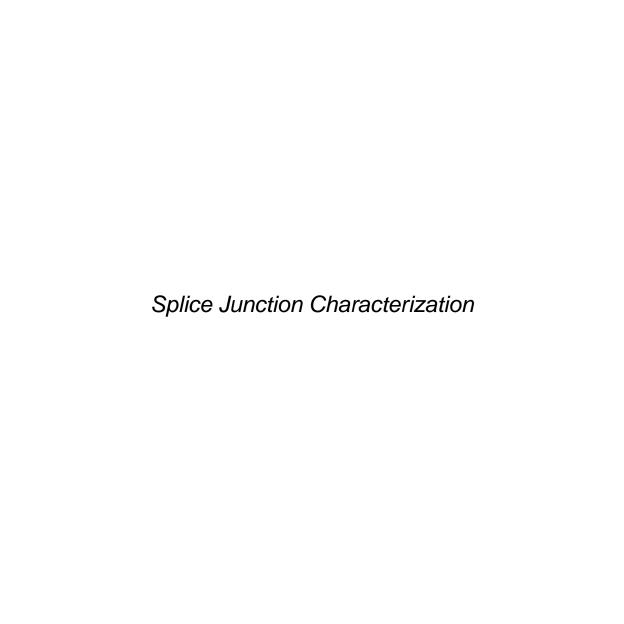
Applicable Only to FSM and ISM Categories



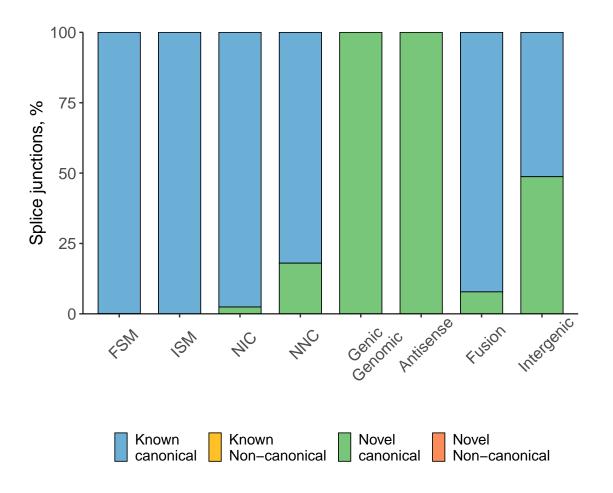
Exon Count Distribution of Matched Reference Transcripts

Applicable Only to FSM and ISM Categories

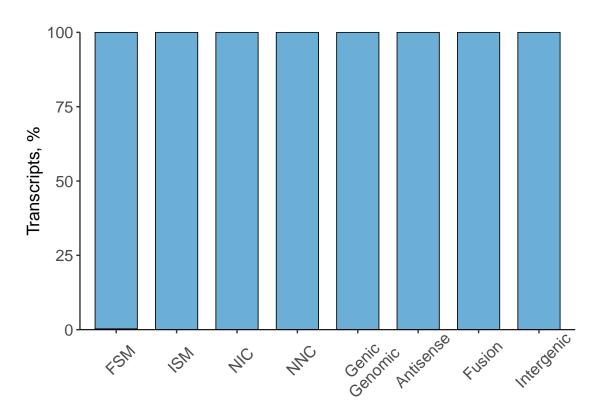




Distribution of Splice Junctions by Structural Classification

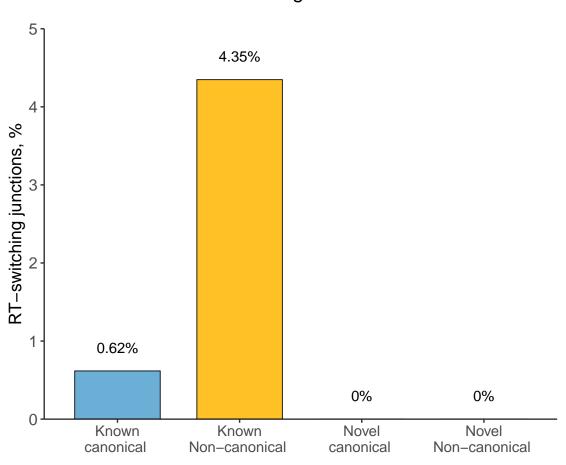


Distribution of Transcripts by Splice Junctions

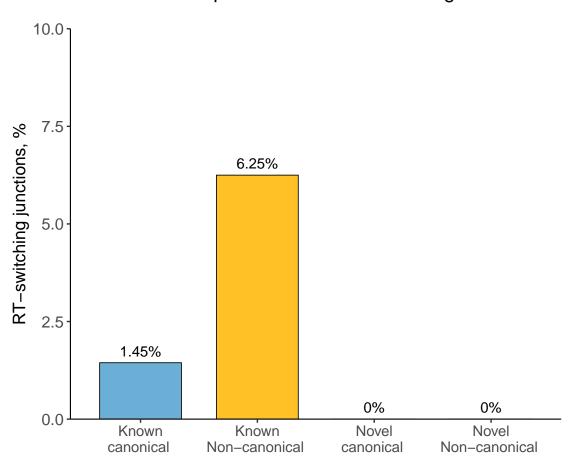


■ Canonical ■ Non-canonical

RT-Switching All Junctions



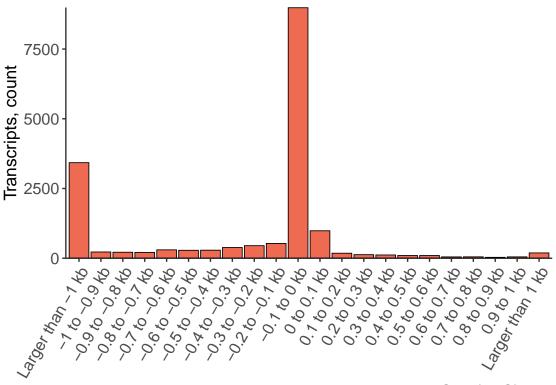
Unique Junctions RT-switching





Distance to annotated Transcription Termination Site (TTS) FSM

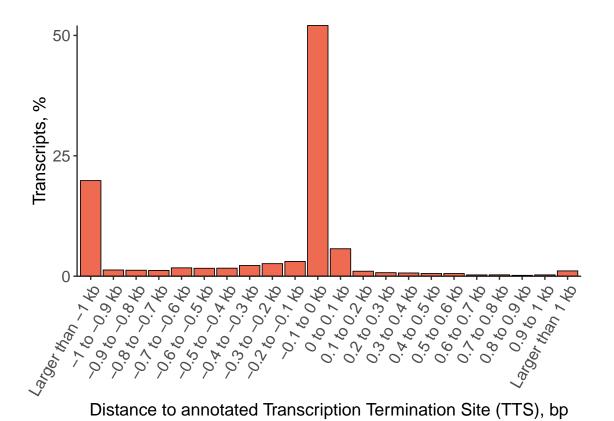
Negative values indicate upstream of annotated termination site



Distance to annotated Transcription Termination Site (TTS), bp

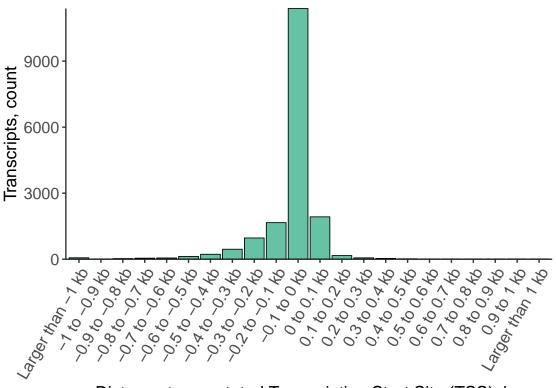
Distance to annotated Transcription Termination Site (TTS) FSM

Negative values indicate upstream of annotated termination site



Distance to Annotated Transcription Start Site for FSM

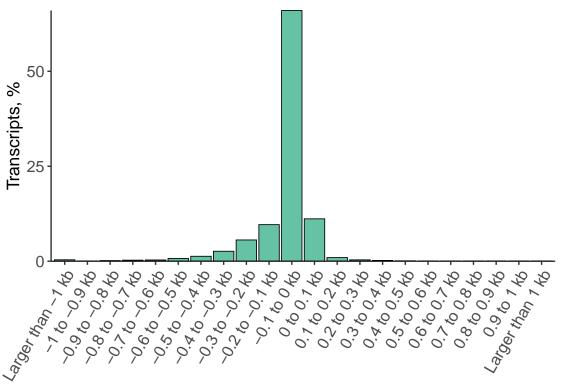
Negative values indicate downstream of annotated TSS



Distance to annotated Transcription Start Site (TSS), bp

Distance to Annotated Transcription Start Site for FSM

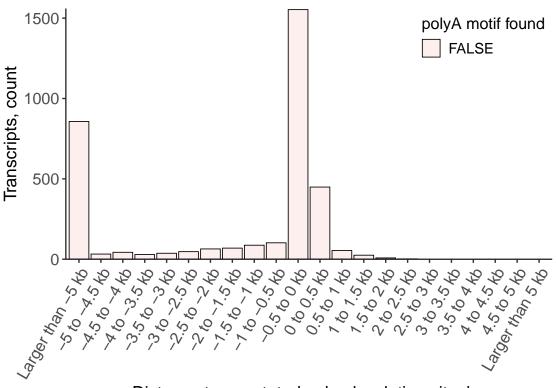
Negative values indicate downstream of annotated TSS



Distance to annotated Transcription Start Site (TSS), bp

Distance to Annotated Polyadenylation Site for ISM

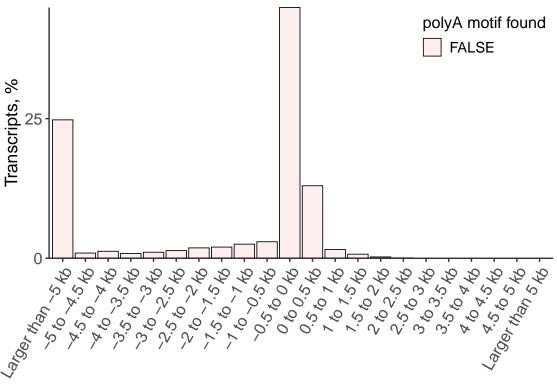
Negative values indicate upstream of annotated polyA site



Distance to annotated polyadenylation site, bp

Distance to Annotated Polyadenylation Site for ISM

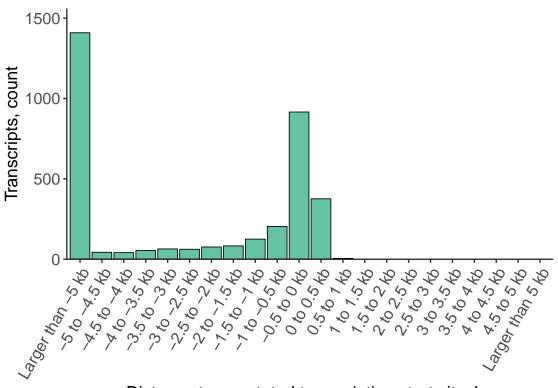
Negative values indicate upstream of annotated polyA site



Distance to annotated polyadenylation site, bp

Distance to Annotated Transcription Start Site for ISM

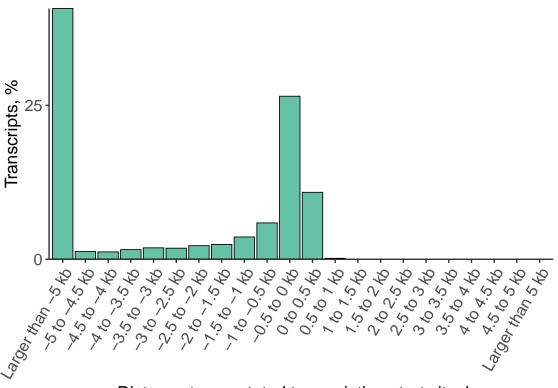
Negative values indicate downstream of annotated TSS



Distance to annotated transcription start site, bp

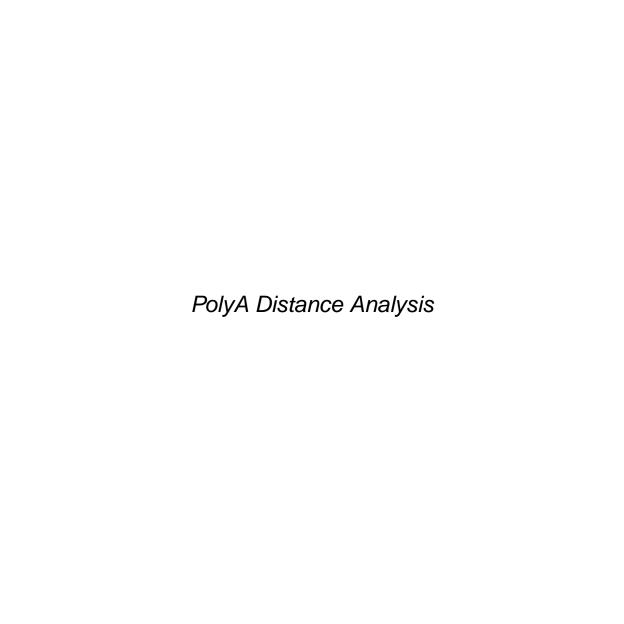
Distance to Annotated Transcription Start Site for ISM

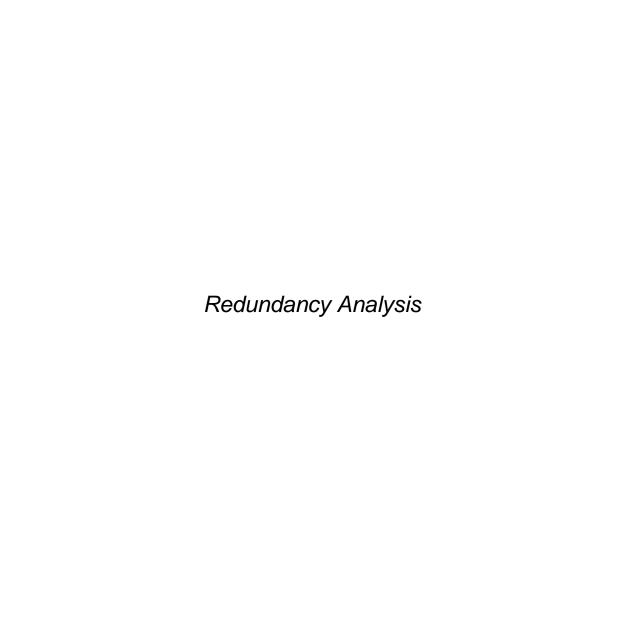
Negative values indicate downstream of annotated TSS

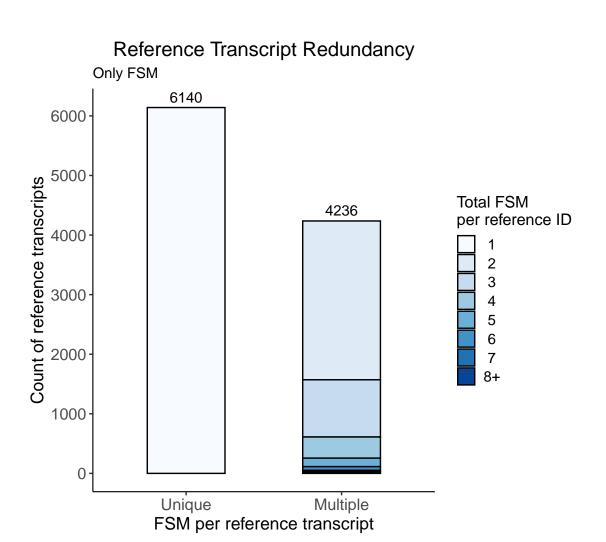


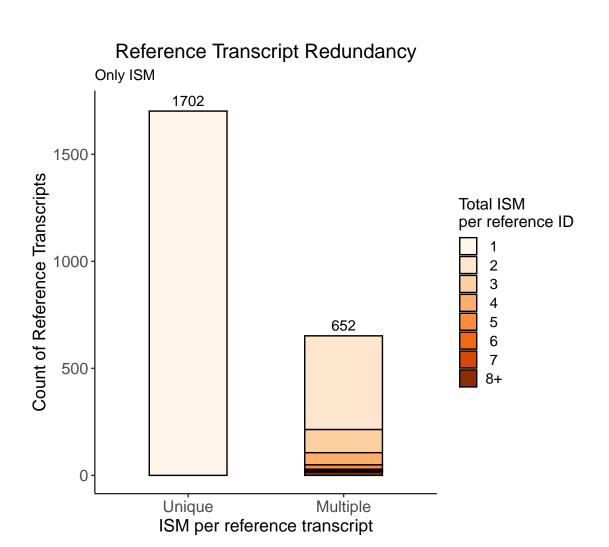
Distance to annotated transcription start site, bp

Comparison With Annotated TSS and TTS by Subcategories

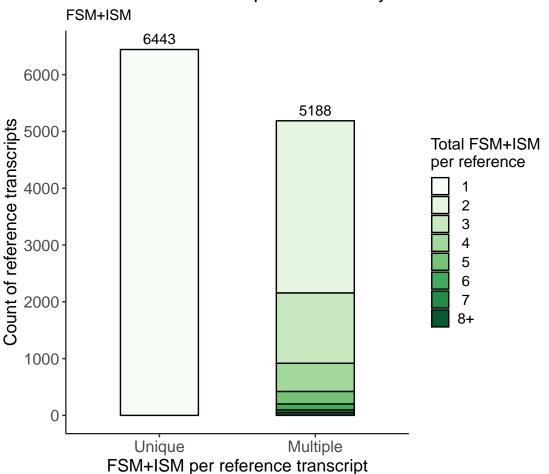






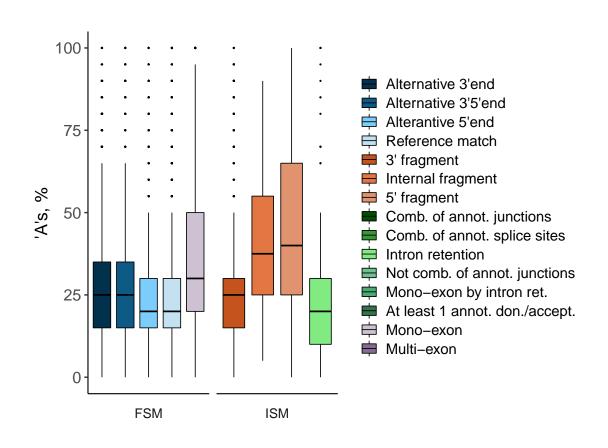


Reference Transcript Redundancy

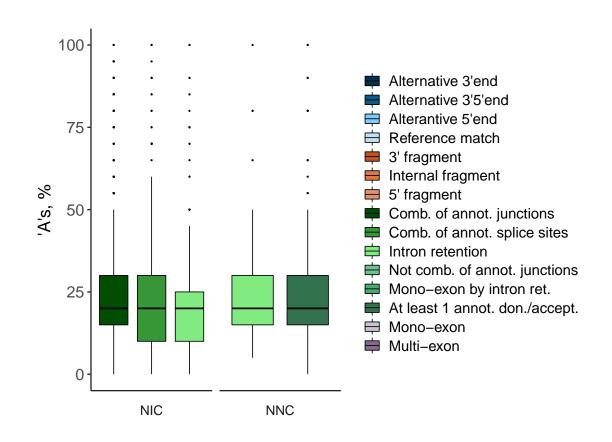




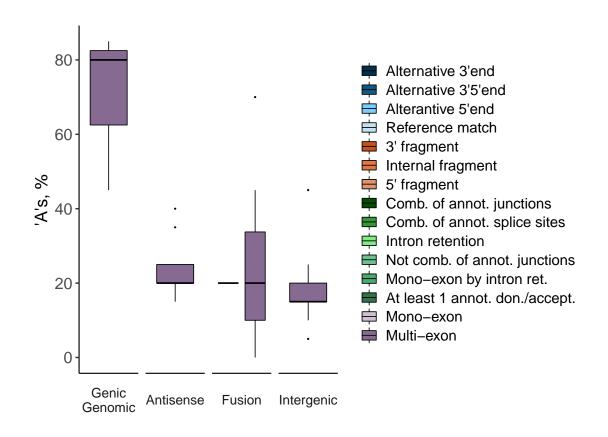
Possible Intra-Priming by Structural Category



Possible Intra-Priming by Structural Category

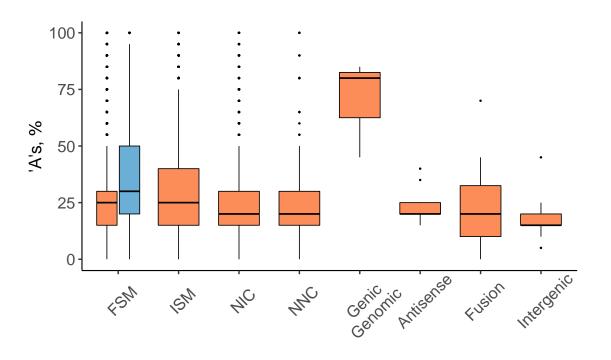


Possible Intra-Priming by Structural Category



Mono- vs Multi-Exon Possible Intra-Priming

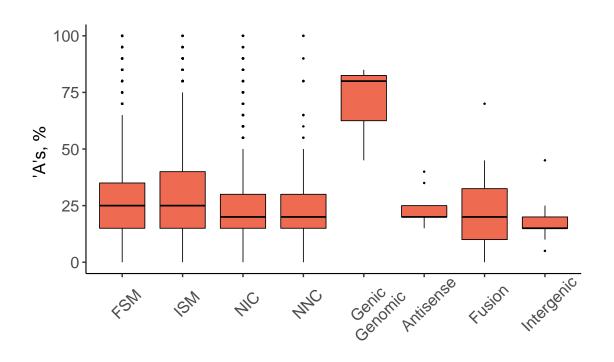
Percent of genomic 'A's in downstream 20 bp



 □ Mono-Exon Isoforms

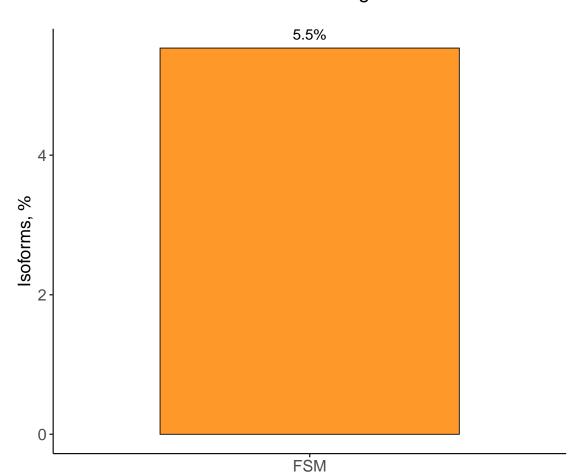
 □ Multi-Exon Isoforms

Coding vs Non-Coding Possible Intra-Priming

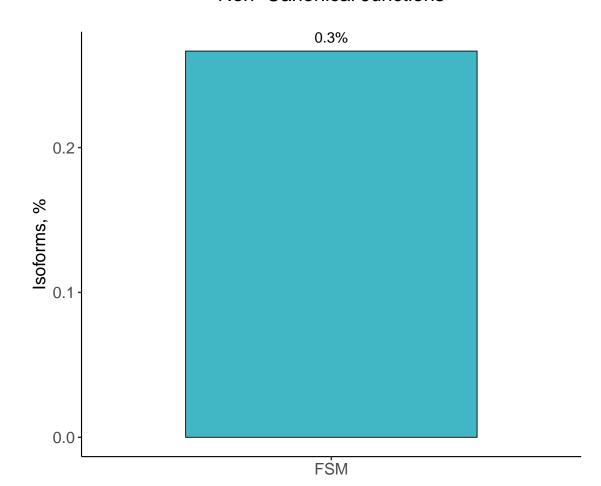




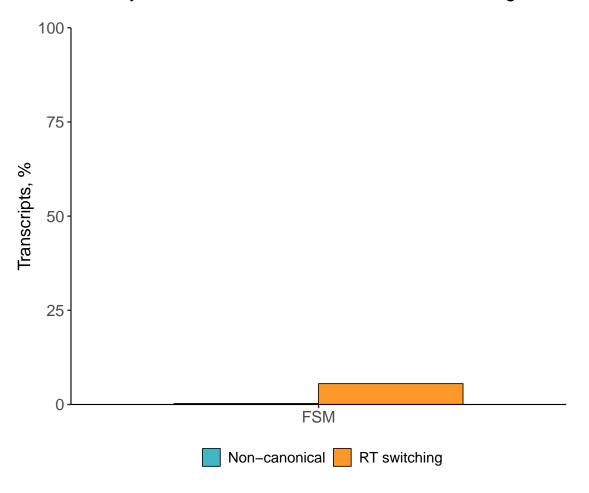




Non-Canonical Junctions

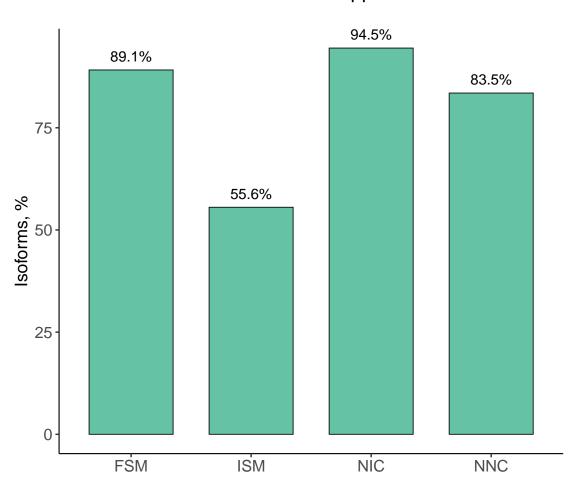


Quality Control Attributes Across Structural Categories

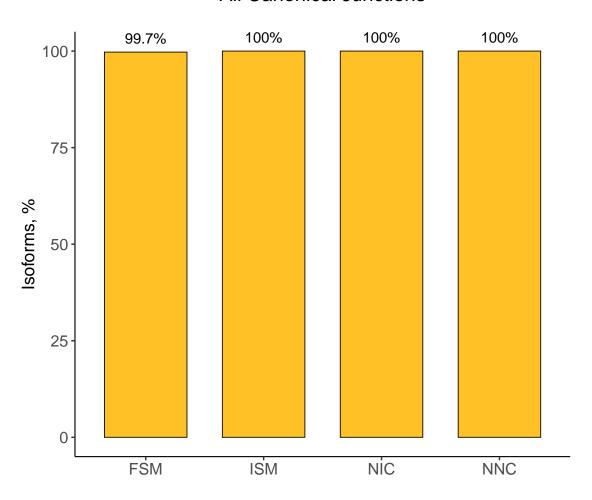




Annotation Support



All Canonical Junctions



Good Quality Control Attributes Across Structural Categories

