SQANTI3 report

Unique Genes: 10451 Unique Isoforms: 40676

Transcript Classification

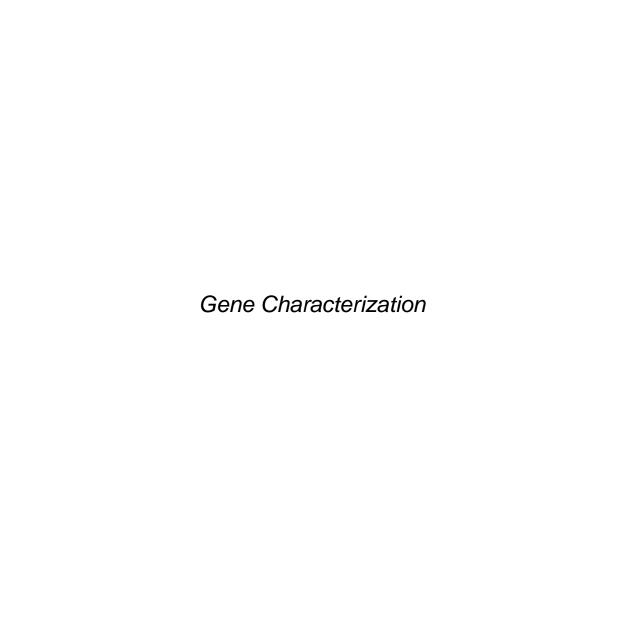
Gene Classification

Category	Genes, count
Annotated Genes	10417
Novel Genes	34

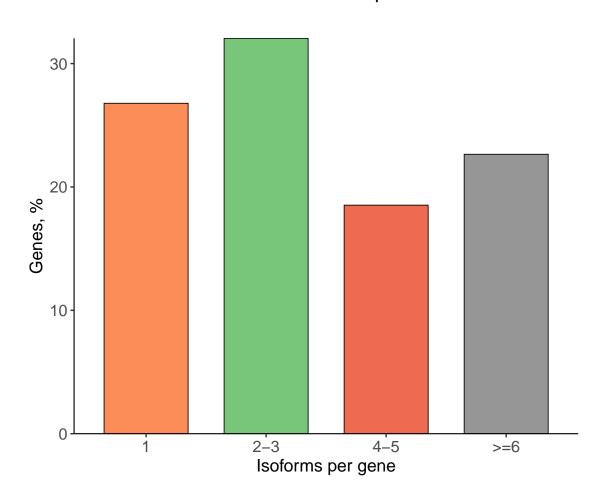
Category	Isoforms, count
FSM	27661
ISM	6905
NIC	5116
NNC	885
Genic Genomic	26
Antisense	18
Fusion	48
Intergenic	17
Genic Intron	0

Splice Junction Classification

Category	SJs, count	Percent
Known canonical	83702	98.19
Known Non-canonical	43	0.05
Novel canonical	1499	1.76
Novel Non-canonical	0	0.00

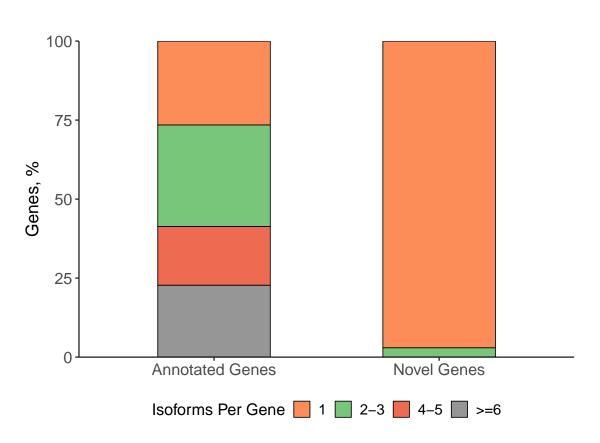


Number of Isoforms per Gene

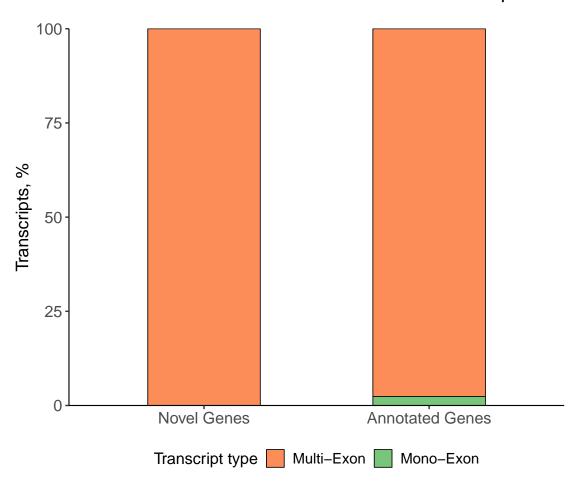


Number of Isoforms per Gene

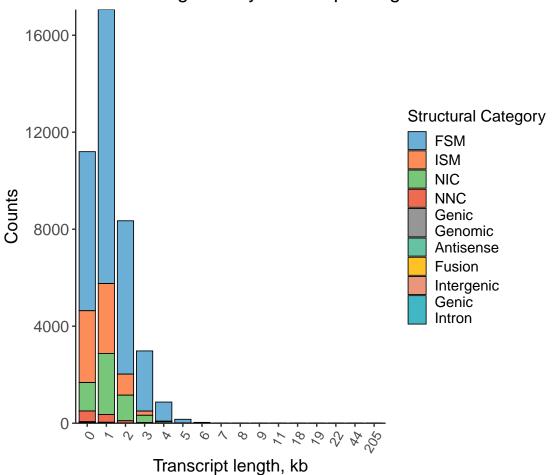
Known vs Novel Genes



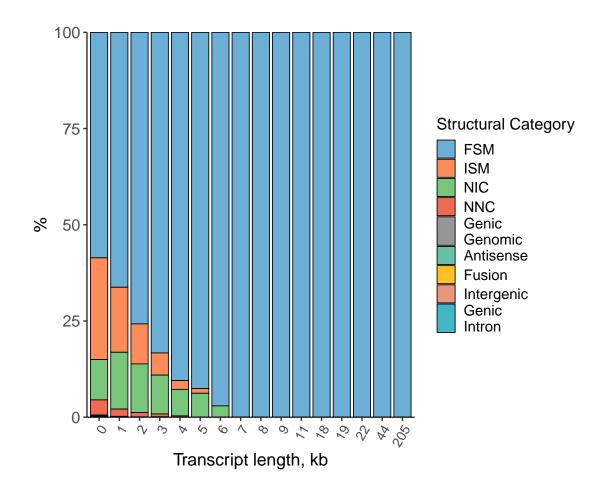
Distribution of Mono- vs Multi-Exon Transcripts

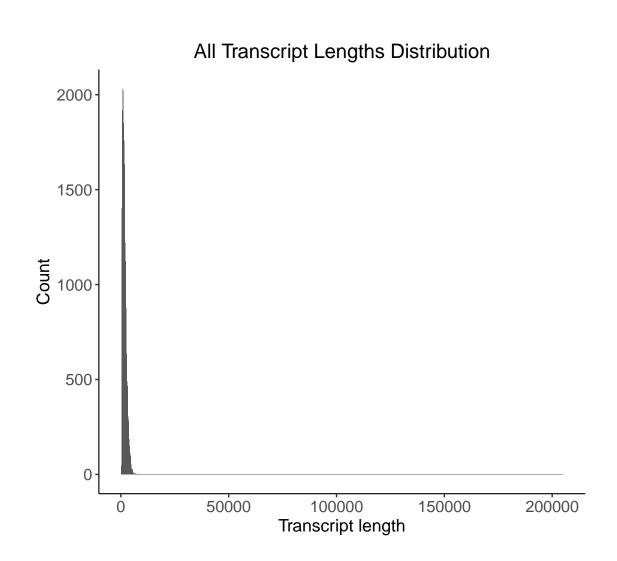


Structural Categories by Transcript Length

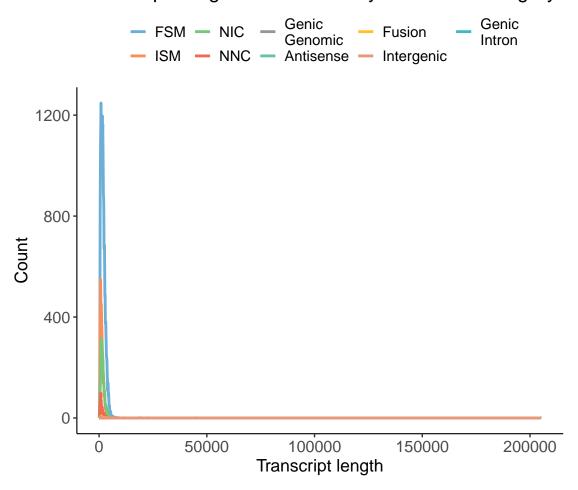


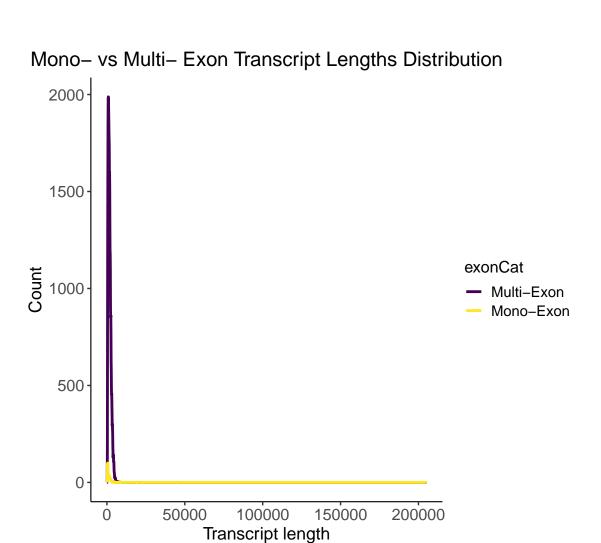
Structural Categories by Transcript Length

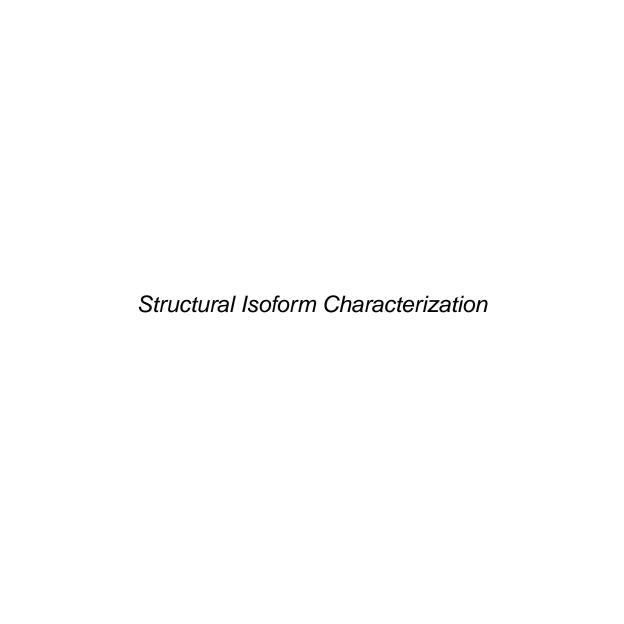




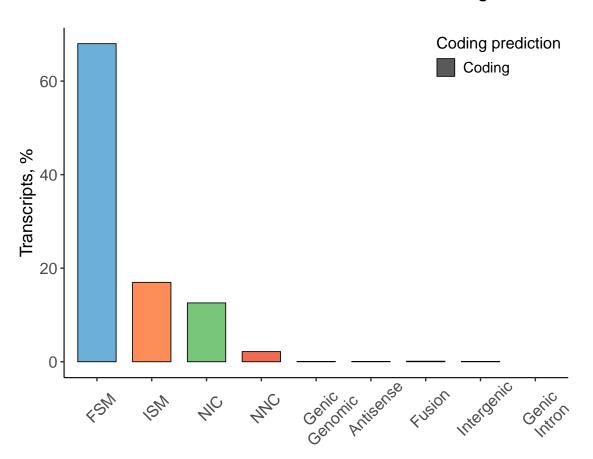
Transcript Lengths Distribution by Structural Category



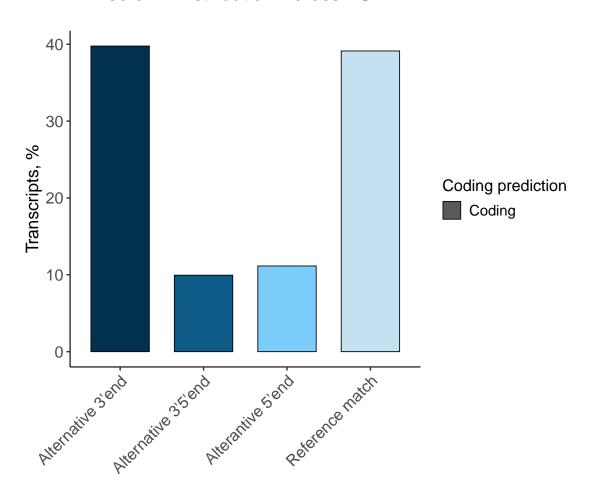




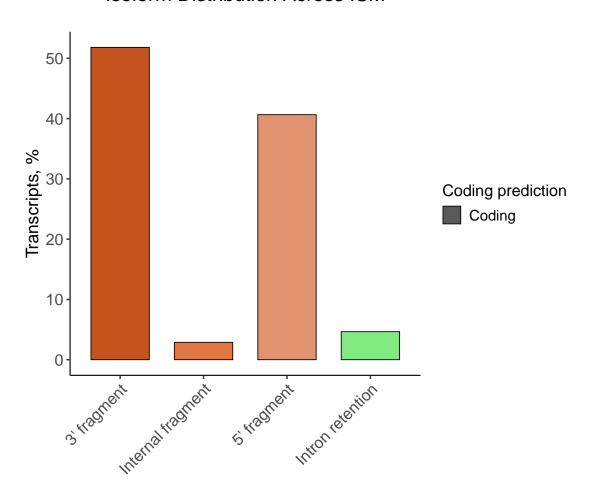
Isoform Distribution Across Structural Categories



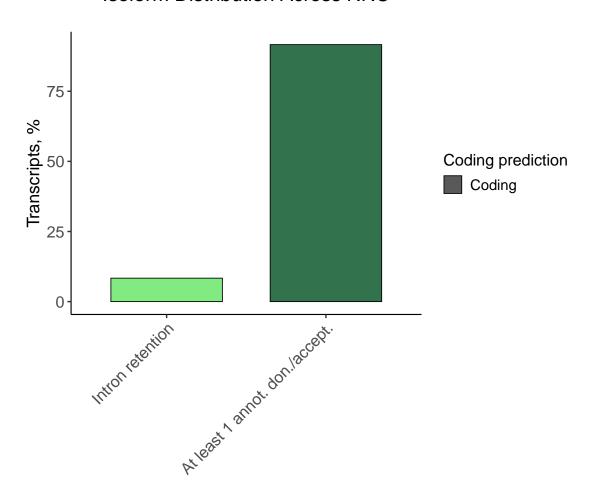
Isoform Distribution Across FSM



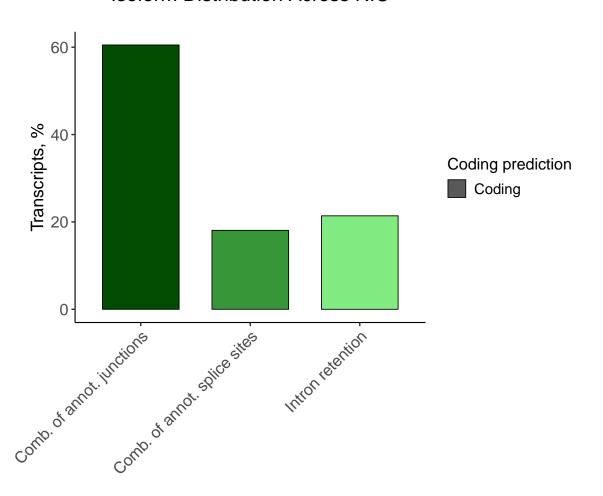
Isoform Distribution Across ISM



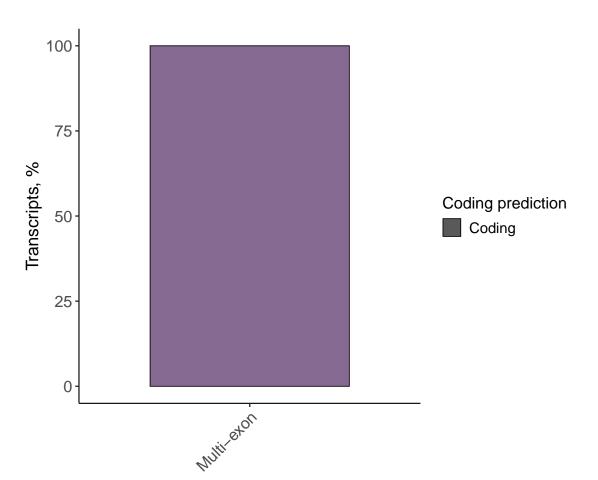
Isoform Distribution Across NNC



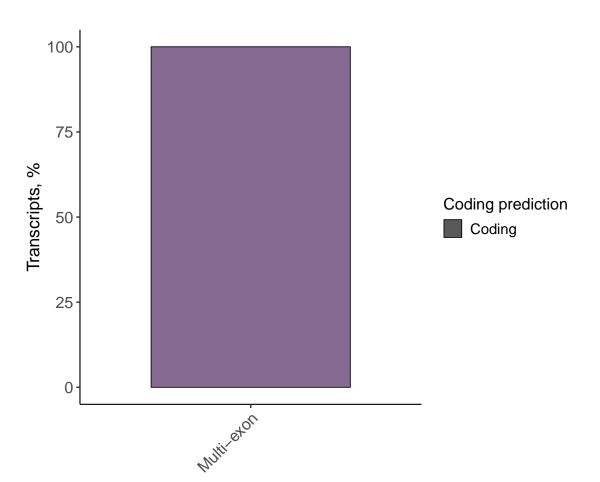
Isoform Distribution Across NIC



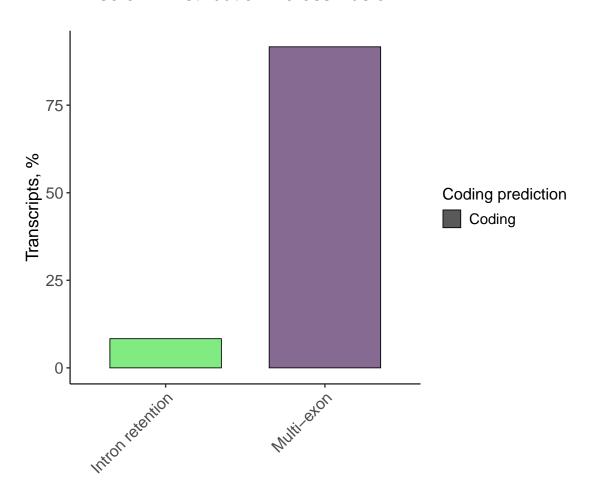
Isoform Distribution Across Genic Genomic



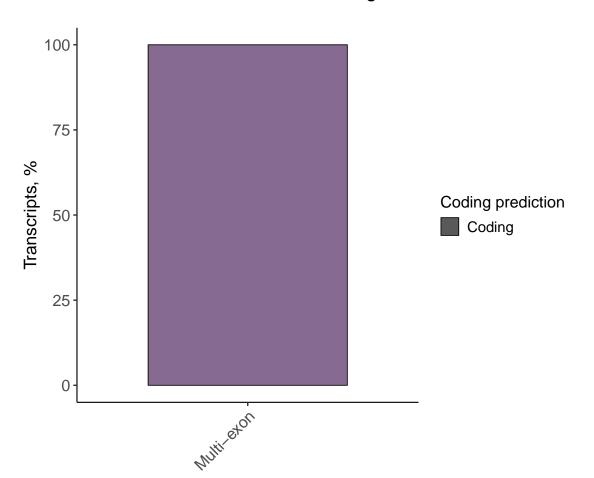
Isoform Distribution Across Antisense



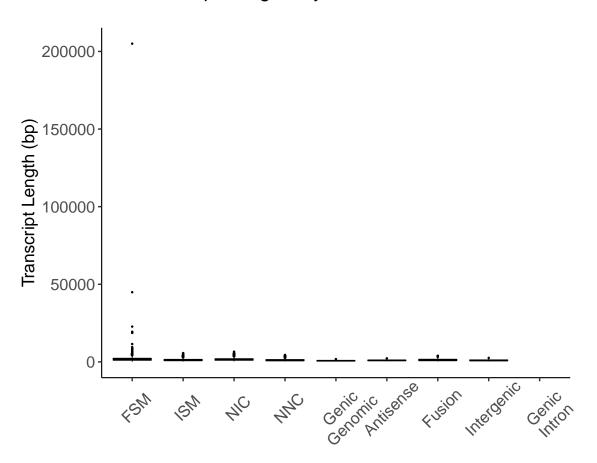
Isoform Distribution Across Fusion



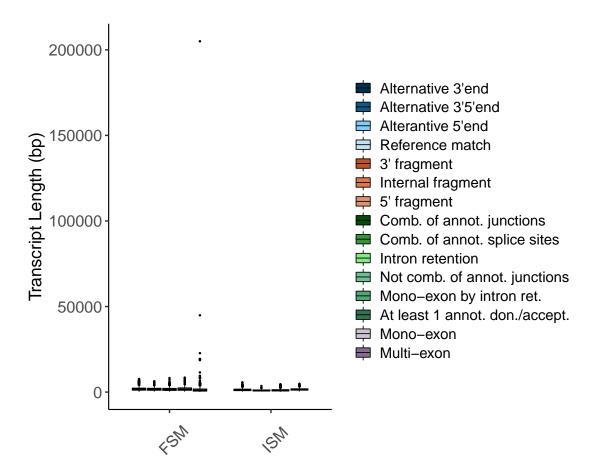
Isoform Distribution Across Intergenic



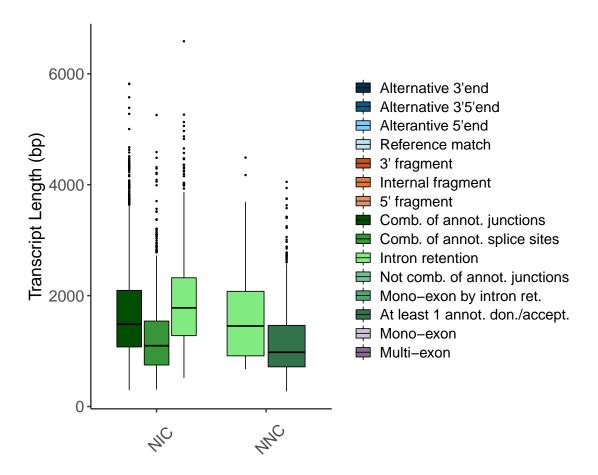
Transcript Lengths by Structural Classification



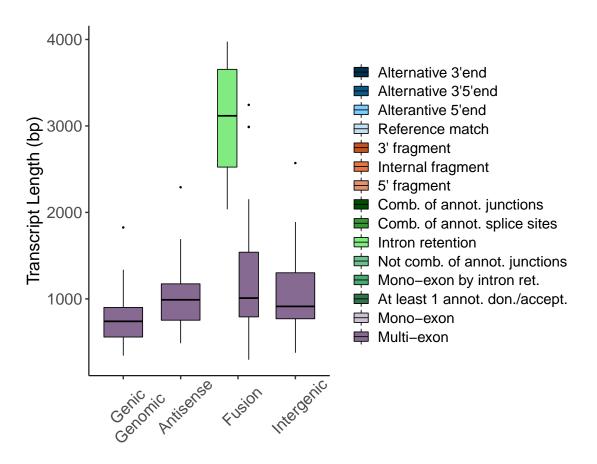
Transcript Lengths by Subcategory



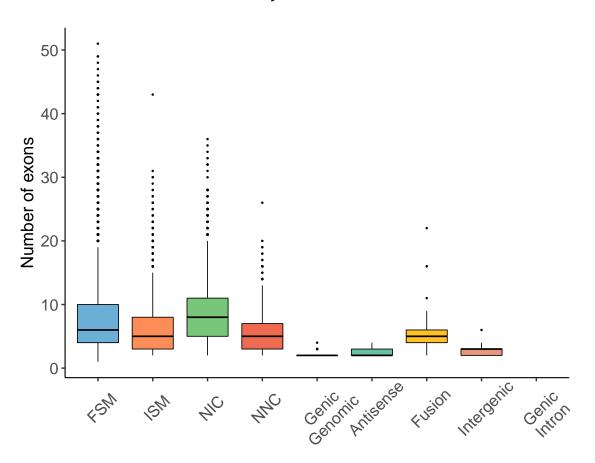
Transcript Lengths by Subcategory



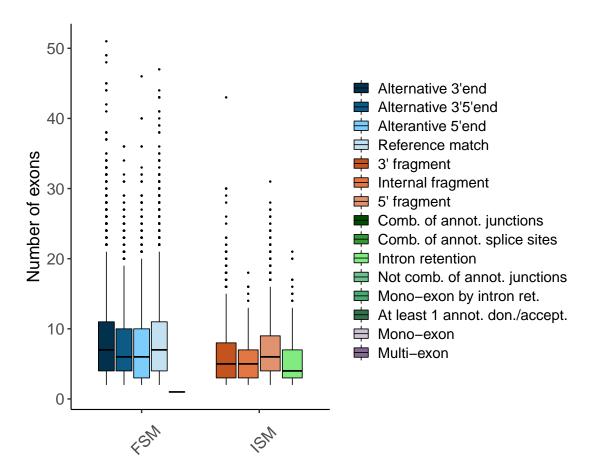
Transcript Lengths by Subcategory



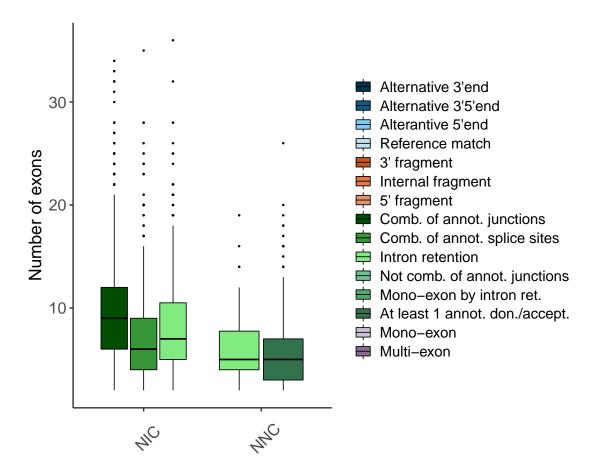
Exon Counts by Structural Classification



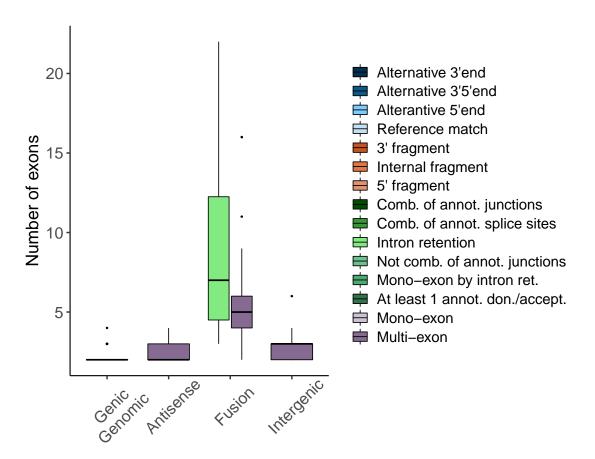
Exon Counts by Subcategory



Exon Counts by Subcategory

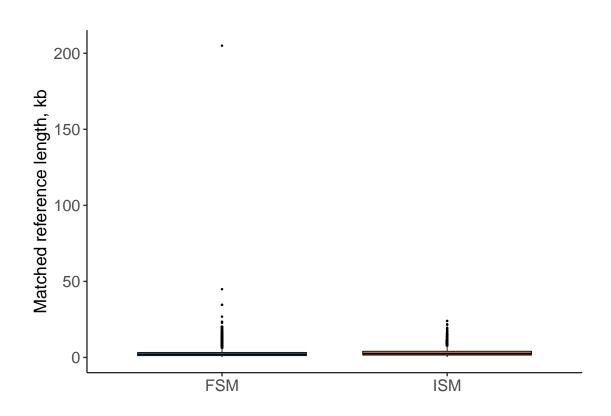


Exon Counts by Subcategory



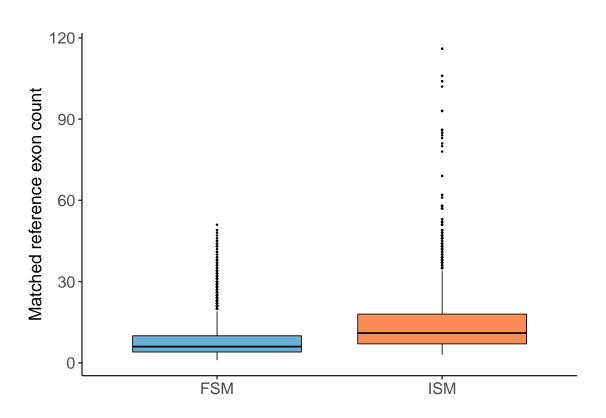
Length Distribution of Matched Reference Transcripts

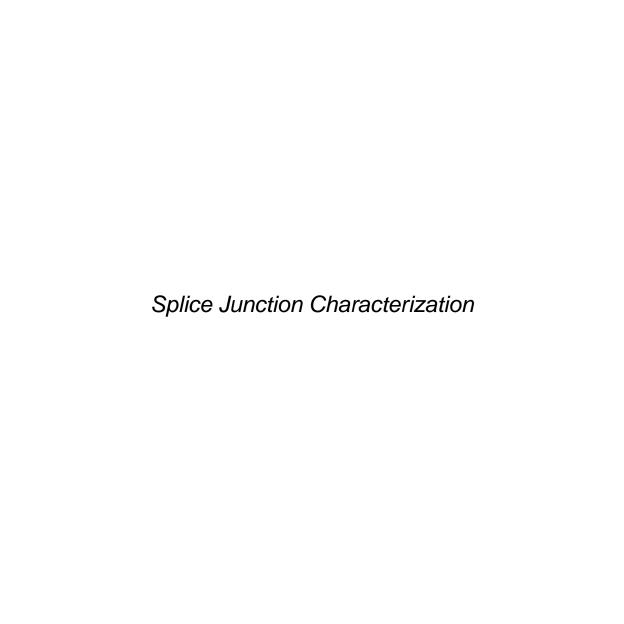
Applicable Only to FSM and ISM Categories



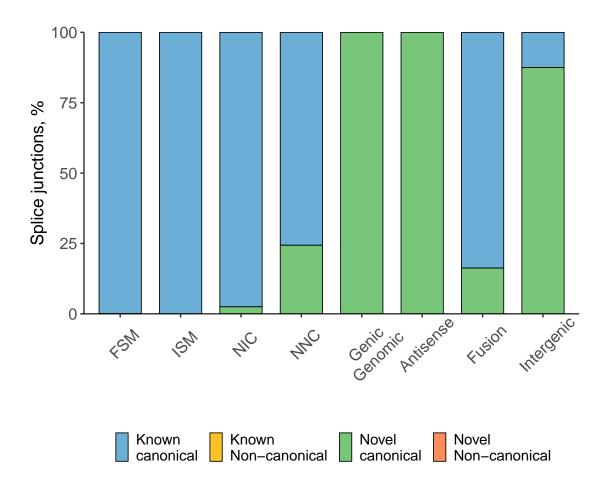
Exon Count Distribution of Matched Reference Transcripts

Applicable Only to FSM and ISM Categories

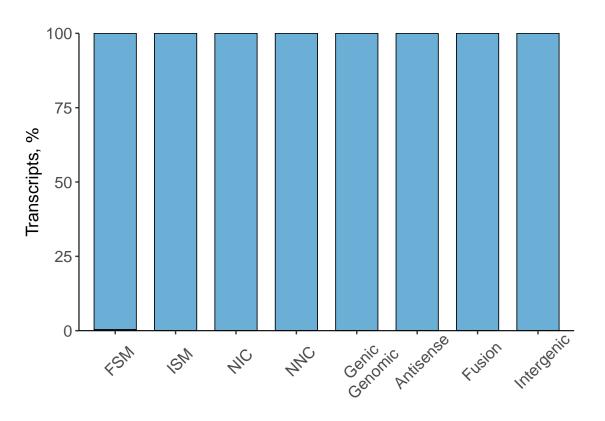




Distribution of Splice Junctions by Structural Classification

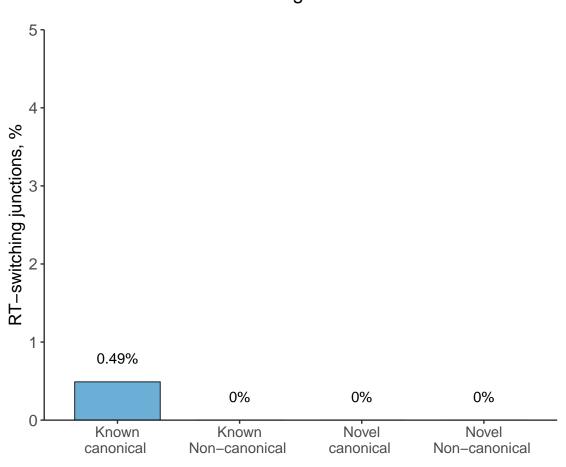


Distribution of Transcripts by Splice Junctions

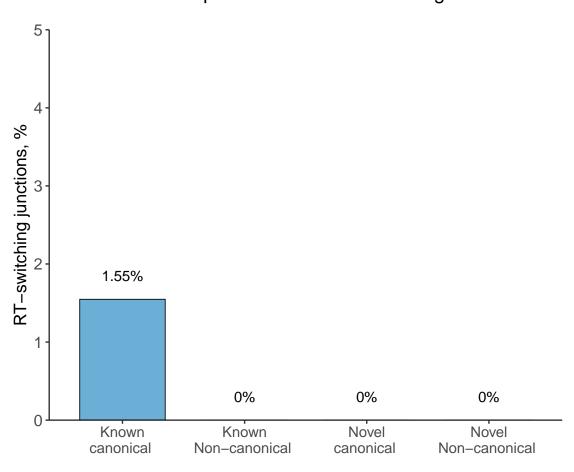


■ Canonical ■ Non-canonical

RT-Switching All Junctions



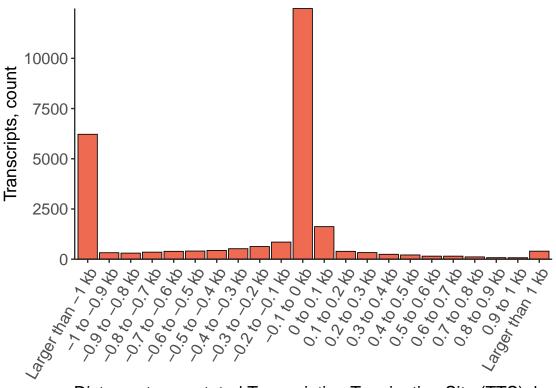
Unique Junctions RT-switching





Distance to annotated Transcription Termination Site (TTS) FSM

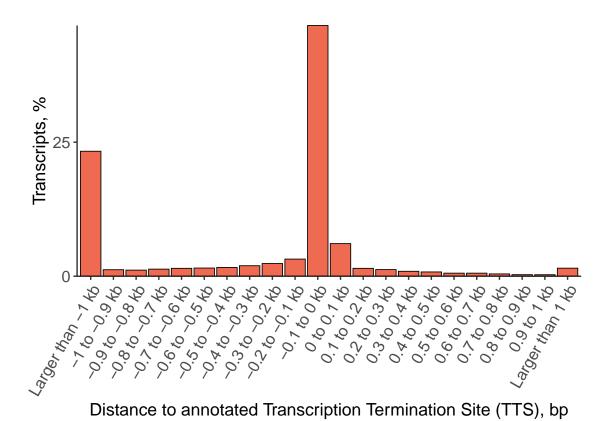
Negative values indicate upstream of annotated termination site



Distance to annotated Transcription Termination Site (TTS), bp

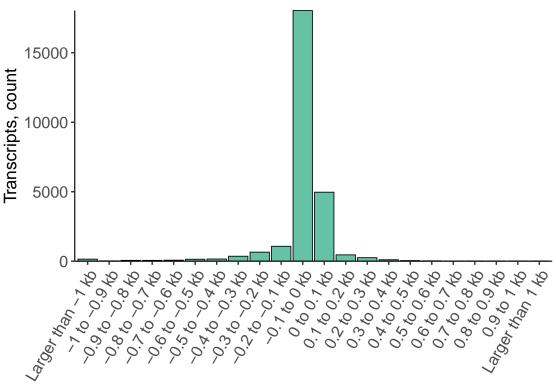
Distance to annotated Transcription Termination Site (TTS) FSM

Negative values indicate upstream of annotated termination site



Distance to Annotated Transcription Start Site for FSM

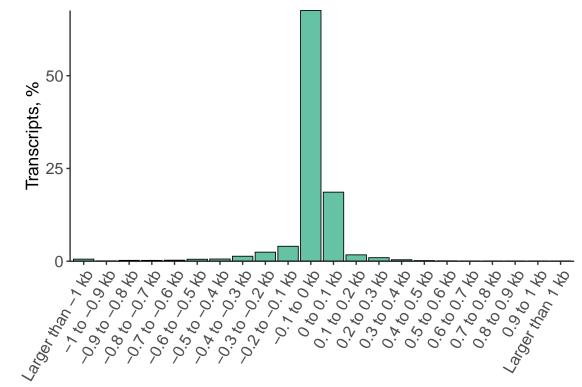
Negative values indicate downstream of annotated TSS



Distance to annotated Transcription Start Site (TSS), bp

Distance to Annotated Transcription Start Site for FSM

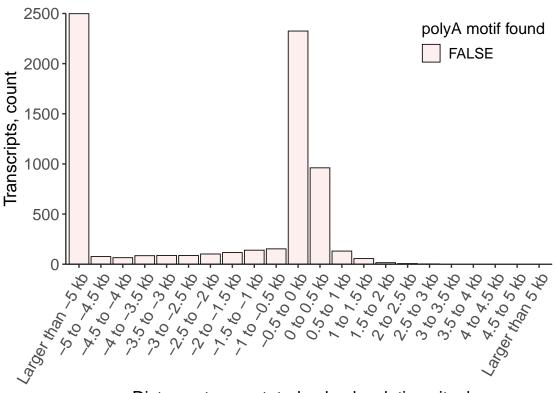
Negative values indicate downstream of annotated TSS



Distance to annotated Transcription Start Site (TSS), bp

Distance to Annotated Polyadenylation Site for ISM

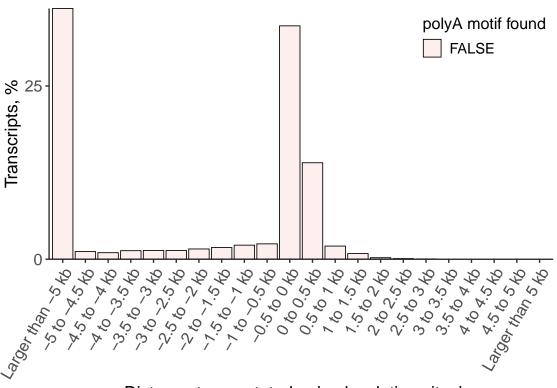
Negative values indicate upstream of annotated polyA site



Distance to annotated polyadenylation site, bp

Distance to Annotated Polyadenylation Site for ISM

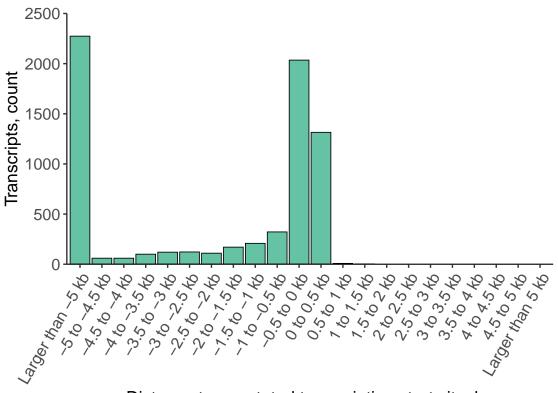
Negative values indicate upstream of annotated polyA site



Distance to annotated polyadenylation site, bp

Distance to Annotated Transcription Start Site for ISM

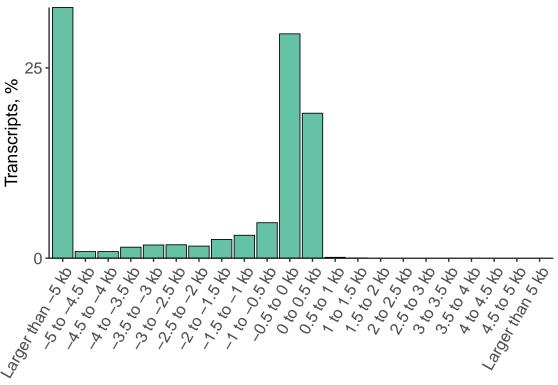
Negative values indicate downstream of annotated TSS



Distance to annotated transcription start site, bp

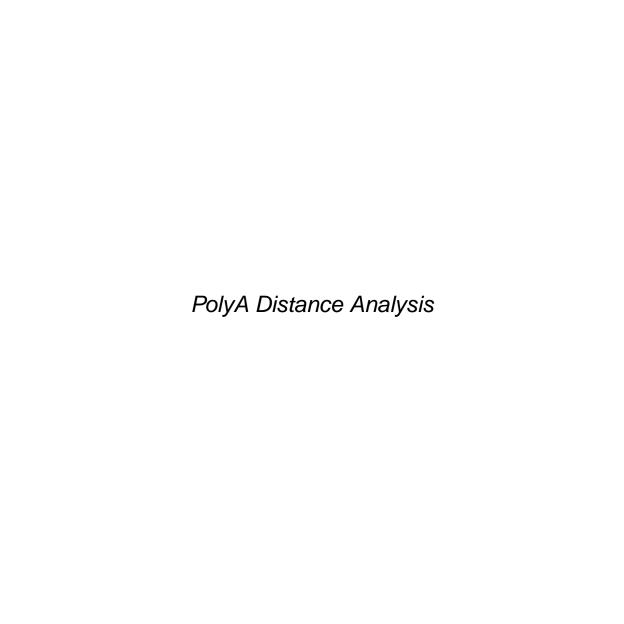
Distance to Annotated Transcription Start Site for ISM

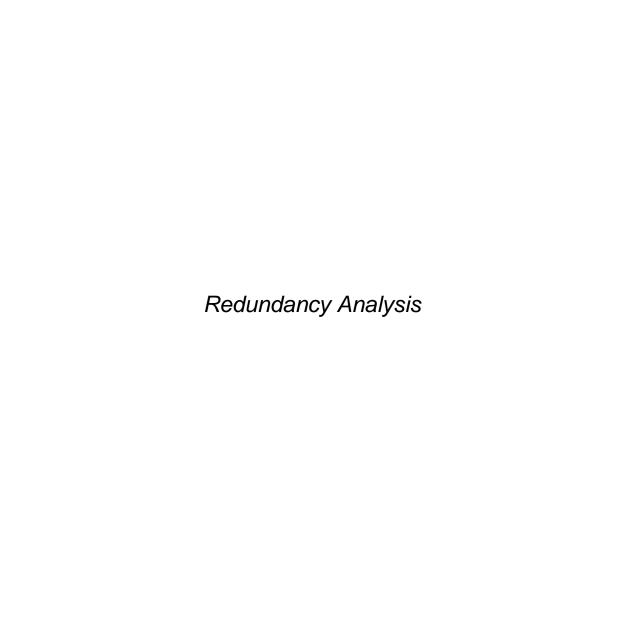
Negative values indicate downstream of annotated TSS

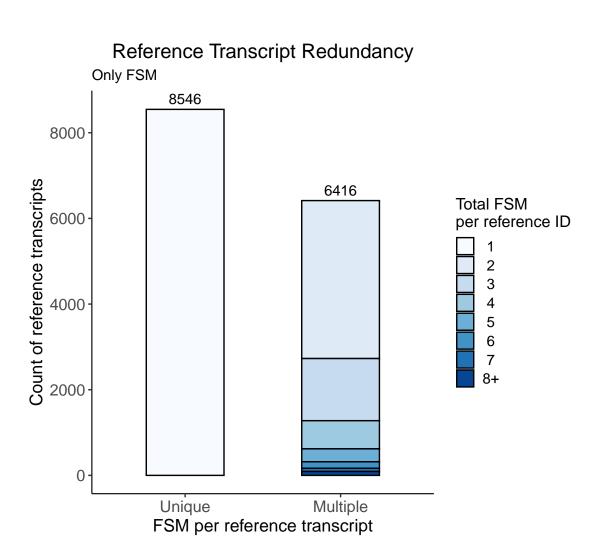


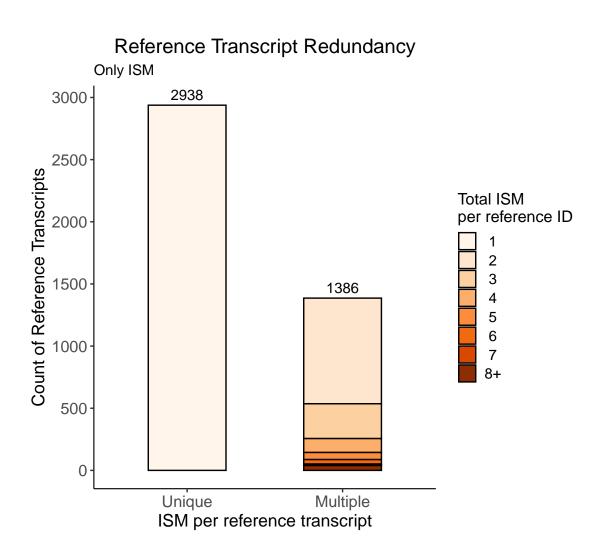
Distance to annotated transcription start site, bp

Comparison With Annotated TSS and TTS by Subcategories

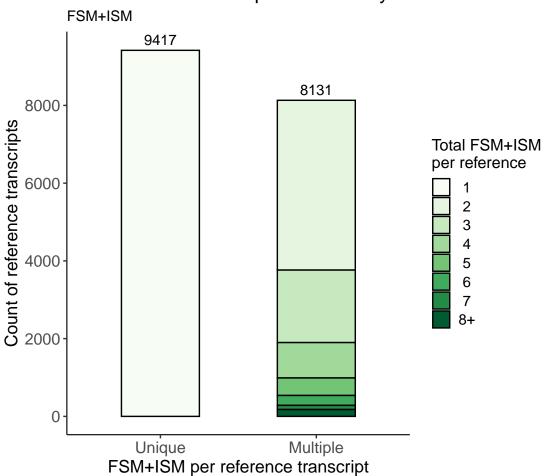






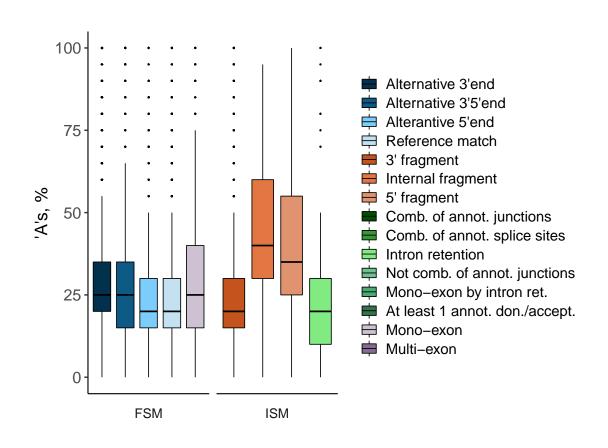


Reference Transcript Redundancy

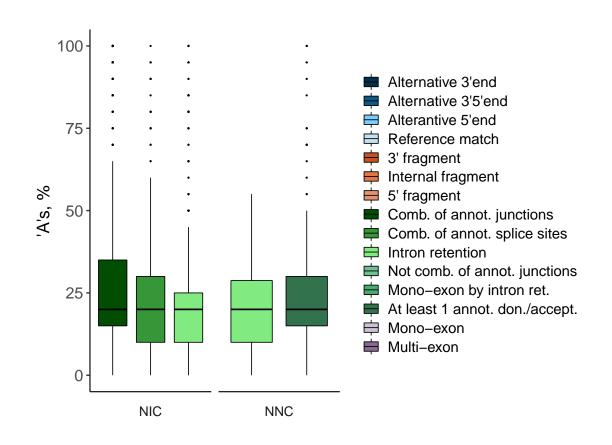




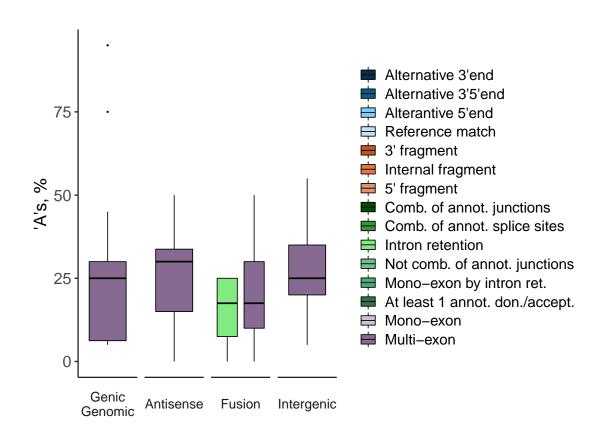
Possible Intra-Priming by Structural Category



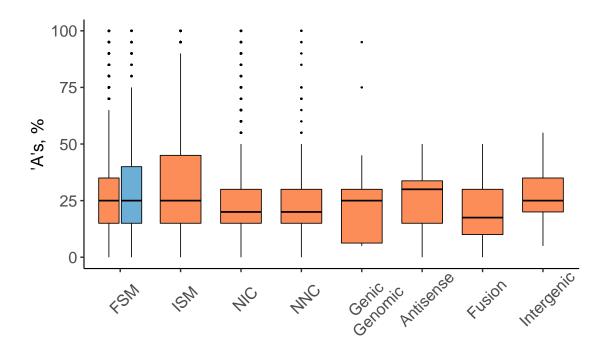
Possible Intra-Priming by Structural Category



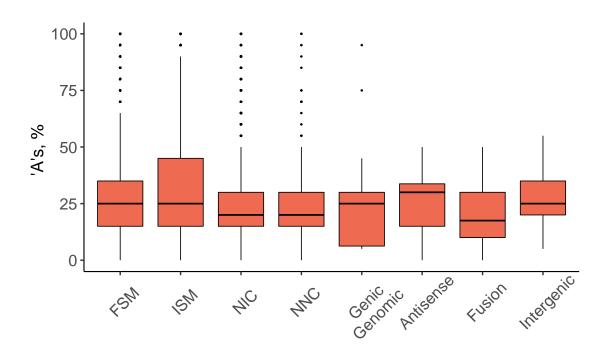
Possible Intra-Priming by Structural Category



Mono- vs Multi-Exon Possible Intra-Priming

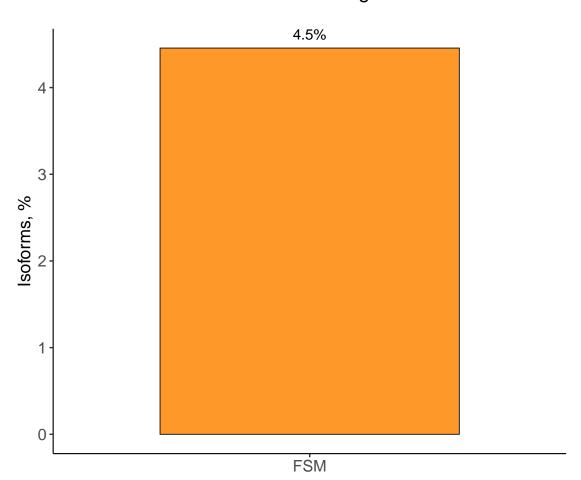


Coding vs Non-Coding Possible Intra-Priming

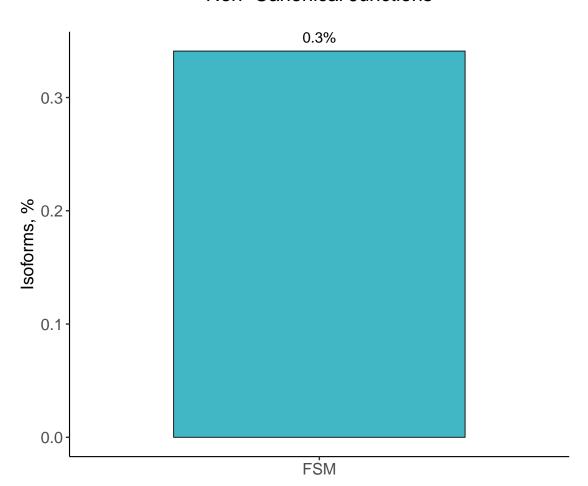




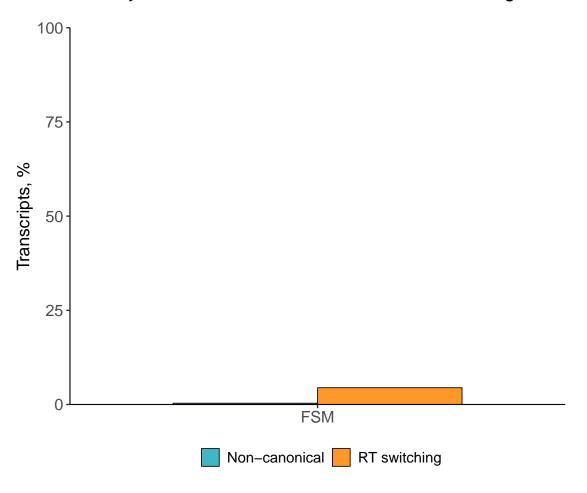
RT-switching



Non-Canonical Junctions

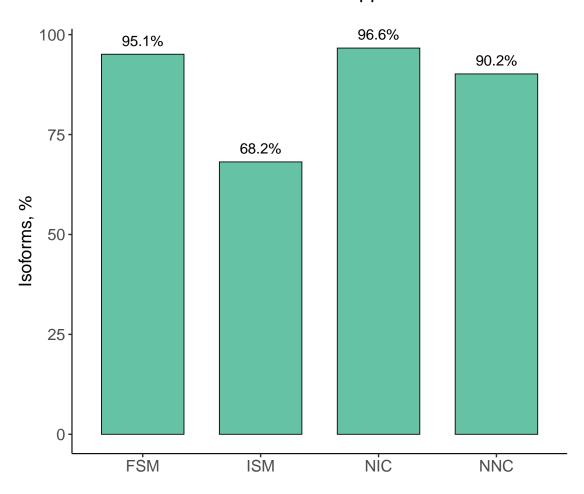


Quality Control Attributes Across Structural Categories

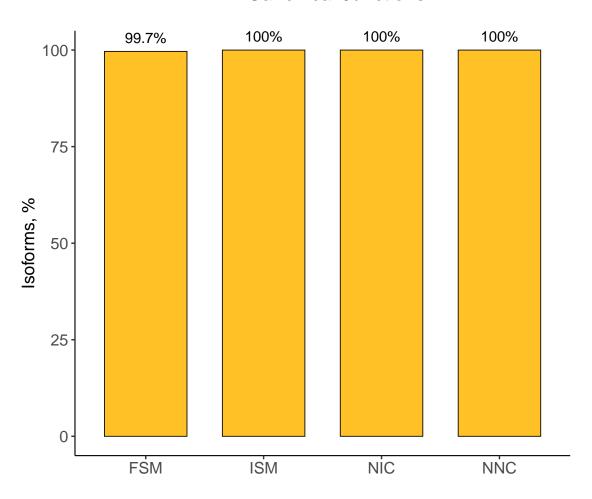




Annotation Support



All Canonical Junctions



Good Quality Control Attributes Across Structural Categories

