SQANTI report

Unique Genes: 11709 Unique Isoforms: 59523

Gene classification

Category	# Genes
Annotated Genes	11517
Novel Genes	192

Splice Junction Classification

Category	# SJs	Percent
Known canonical	123028	90.97
Known Non-canonical	73	0.05
Novel canonical	12133	8.97
Novel Non-canonical	1	0.00

Characterization of transcripts based on splice junctions

Category	# Isoforms
FSM	27772
ISM	5166
NIC	17808
NNC	8555
Genic	0
Genomic	0
Antisense	82
Fusion	0
Intergenic	140
Genic Intron	0

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







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

Known canonical Non-canonical Novel Non-canonical Non-canonical



Distribution of Transcripts by Splice Junctions

canonical_non_canonical

Unique junctions w/ or w/out short read coverage



Unsupported Supported

Unique junctions w/out short read coverage (percentage)







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



Mono-Exon Isoforms Multi-Exon Isoforms

Possible Intra–Priming, Coding vs Non–Coding Percent of genomic 'A's in downstream 20 bp



Coding Isoforms

Quality Controls

Incidence of RT-switching



Incidence of Non–Canonical Junctions

