



## b) Without Multiplexing

Strand	Sequence
Plus strand start	${\tt AATGTACTTCGTTCAGTTACGTATTGCTAAGCAGTGGTATCAACGCAGAGTACATGGG}$
Plus strand end	AAAAAAAGTACTCTGCGTTGATACCACTGCTT
Minus strand start	A A T G T A C T T C G T T T C G T A T T G C T A G C A G T G C T A C G C A G G G T G C T T T T T T T T T T T T T T
Minus strand end	CCCATGTACTCTGCGTTGATACCACTGCTT

## c) With Multiplexing

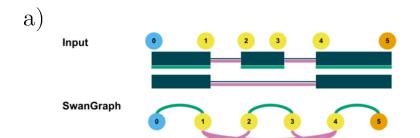
Strand	Sequence
Plus strand start	AATGTACTTCGTTCAGTTACGTATTGCTAAGCAGTGGTATCAACGCAGAGTACATGGG
Plus strand end	AAAAAAAA <barcode>GTACTCTGCGTTGATACCACTGCTT</barcode>
Minus strand start	AATGTACTTCGTTCAGTTACGTATTGCT <b><barcode></barcode></b> AAGCAGTGGTATCAACGCAGAGTACTTTTT
Minus strand end	CCCATGTACTCTGCGTTGATACCACTGCTT

	Analysis	Annotation	Expression	
1.		Reference genome	RNA-Seq reads	
2.		Iso-Seq defined transcriptome	RNA-Seq reads	
3.		Iso-Seq defined transcriptome	Iso-Seq reads	

Isoform	Associated Gene	Structural Category	Associated Transcript	Length	FL Sample 1	FL Sample 2
PB.1.1	Gene 1	FSM	ENMUST1	3000	10	10
PB.1.2	Gene 1	ISM	ENMUST1	1500	100	90
PB.1.3	Gene 1	ISM	ENMUST2	2400	20	20
PB.1.4	Gene 1	ISM	ENMUST3	2900	5	4
PB.1.5	Gene 1	ISM	ENMUST3	2190	5	2
PB.1.6	Gene 1	FSM	ENMUST4	2420	1000	1250
PB.1.7	Gene 1	FSM	ENMUST4	2560	1	4



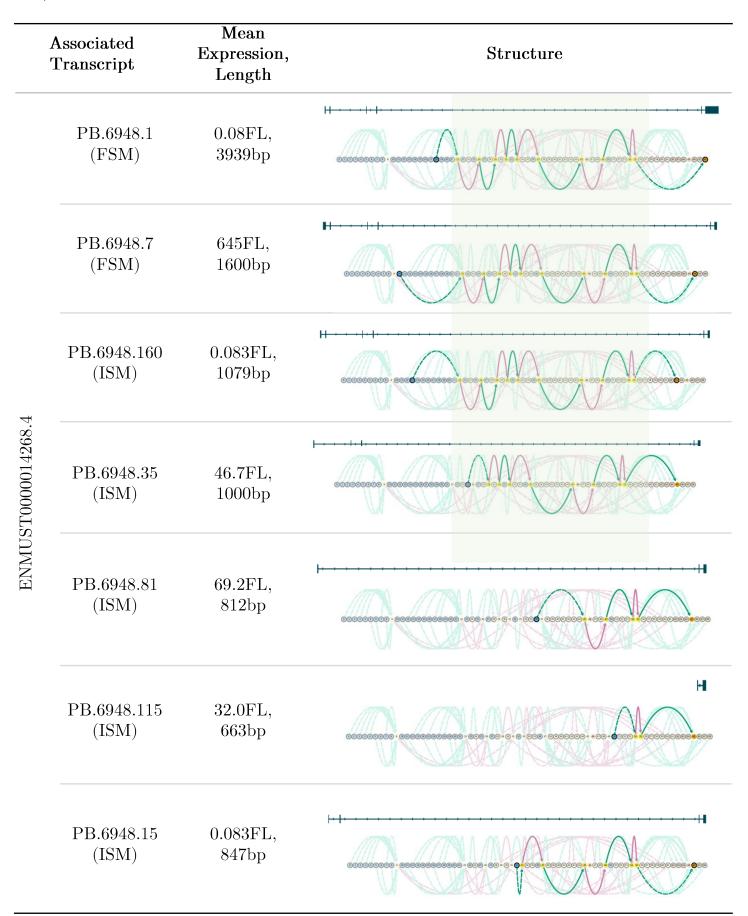
Isoform	Associated Gene	Structural Category	Associated Transcript	Length	FL Sample 1	FL Sample 2
PB.1.1	Gene 1	FSM	ENMUST1	3000	110	100
PB.1.3	Gene 1	ISM	ENMUST2	2400	20	20
PB.1.4	Gene 1	ISM	ENMUST3	2900	10	6
PB.1.7	Gene 1	FSM	ENMUST4	2560	1001	1254



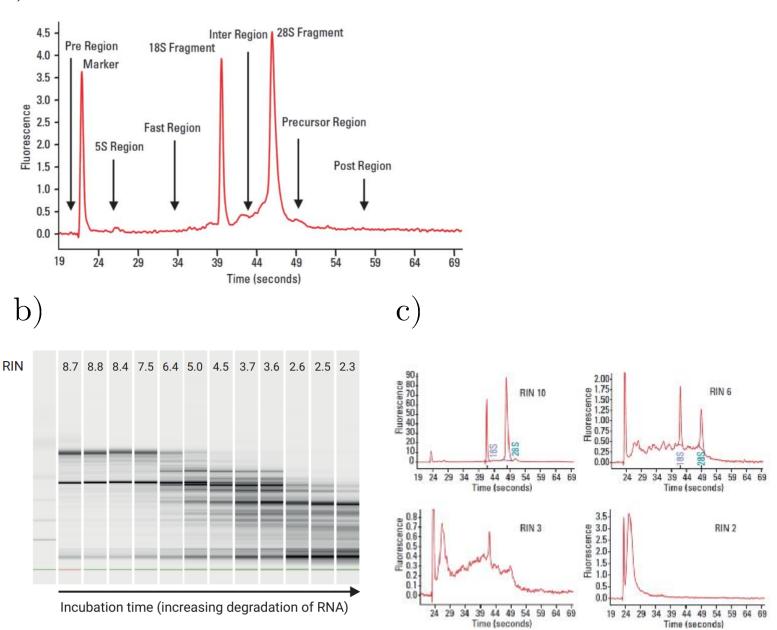
Blue Nodes: Transcription Start Sites Orange Nodes: Transcription End Sites Yellow Nodes: Internal Spice Sites

Green Edges: splice junction pair spanning exon Pink Edges: splice junction pair spanning intron

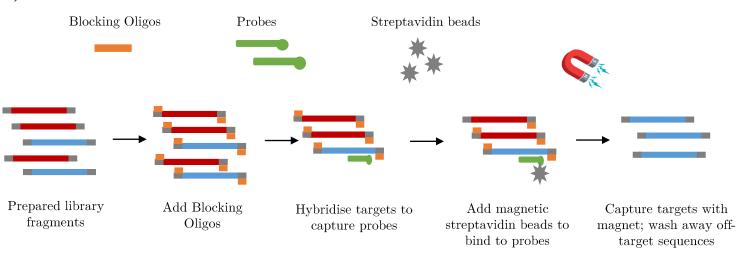
b)





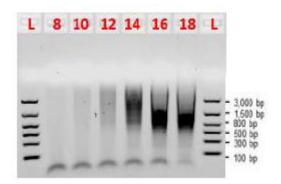


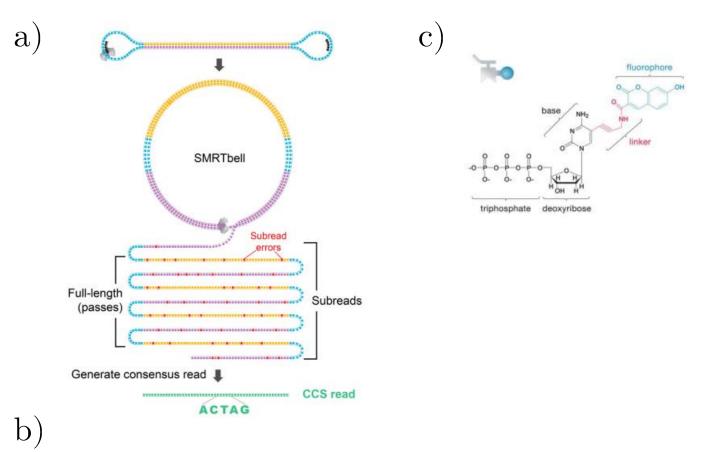


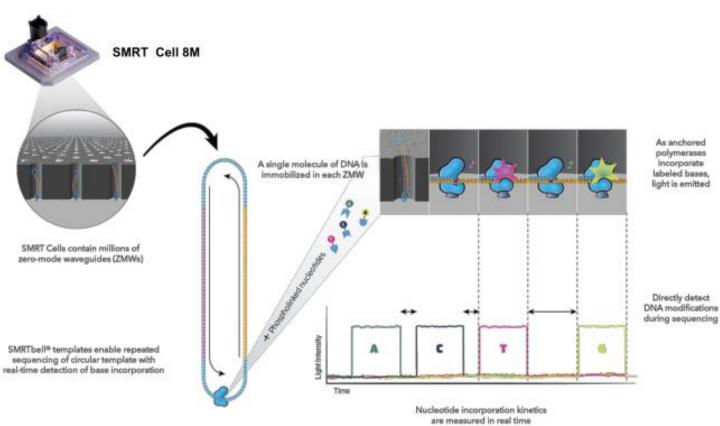


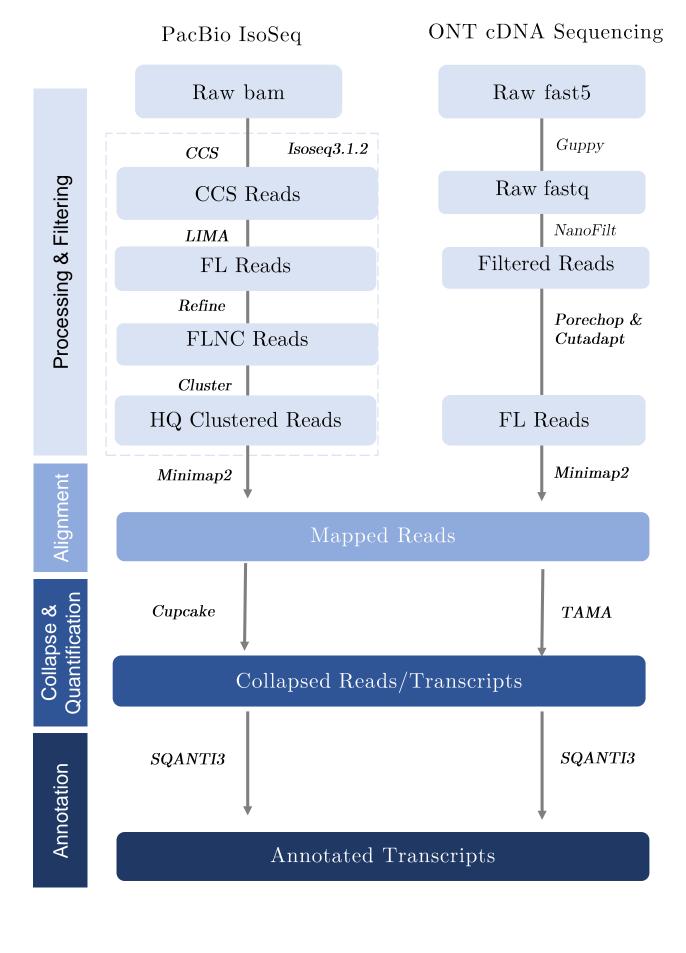
## b)

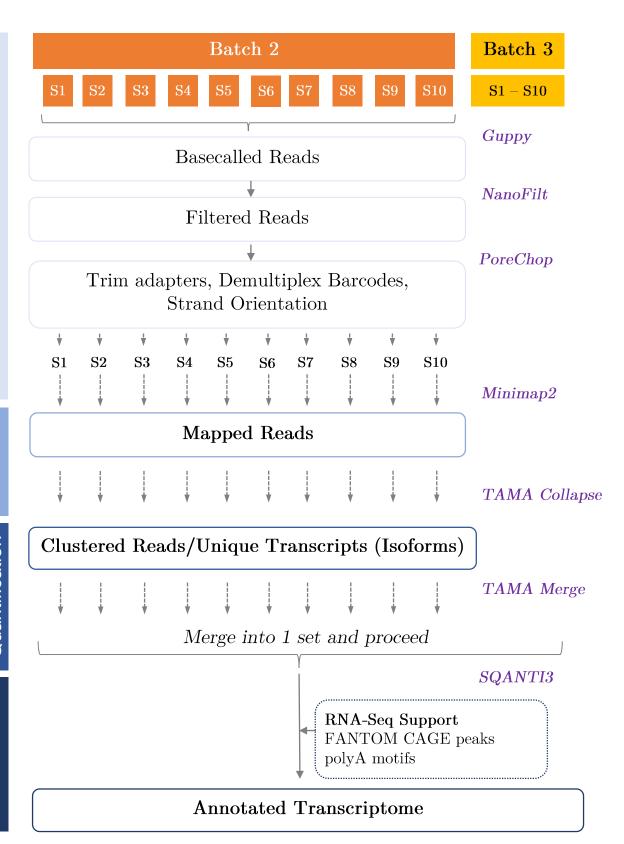


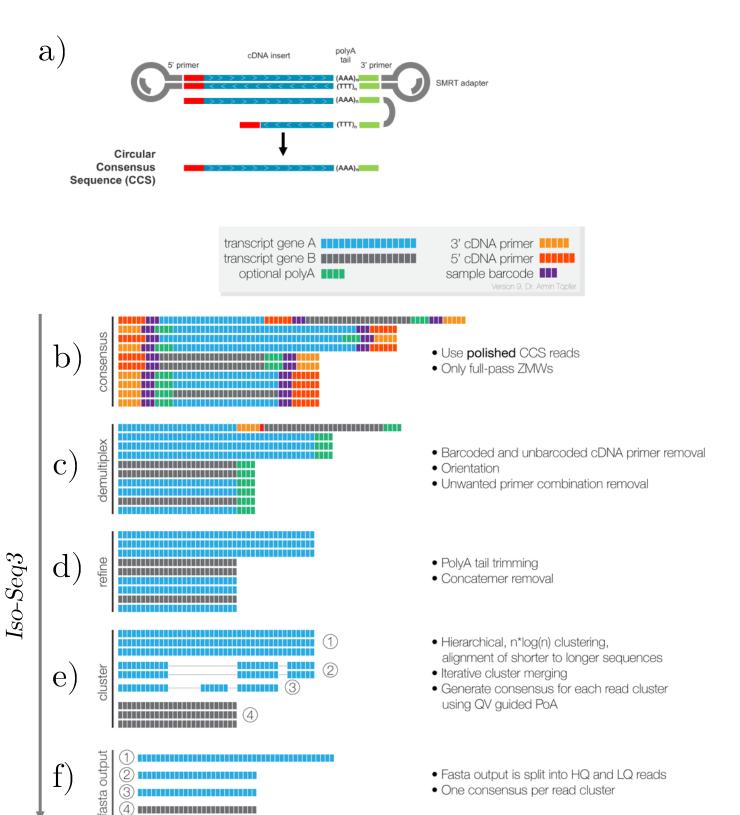












(4)

## Does the isoform have:

- >60% genomic As in 20bp window downstream of TTS &
- unknown distance of query isoform 5'end and reference TSS &
- no detected polyA motif &
- distance between query isoform 3' end and reference TTS >50bp

