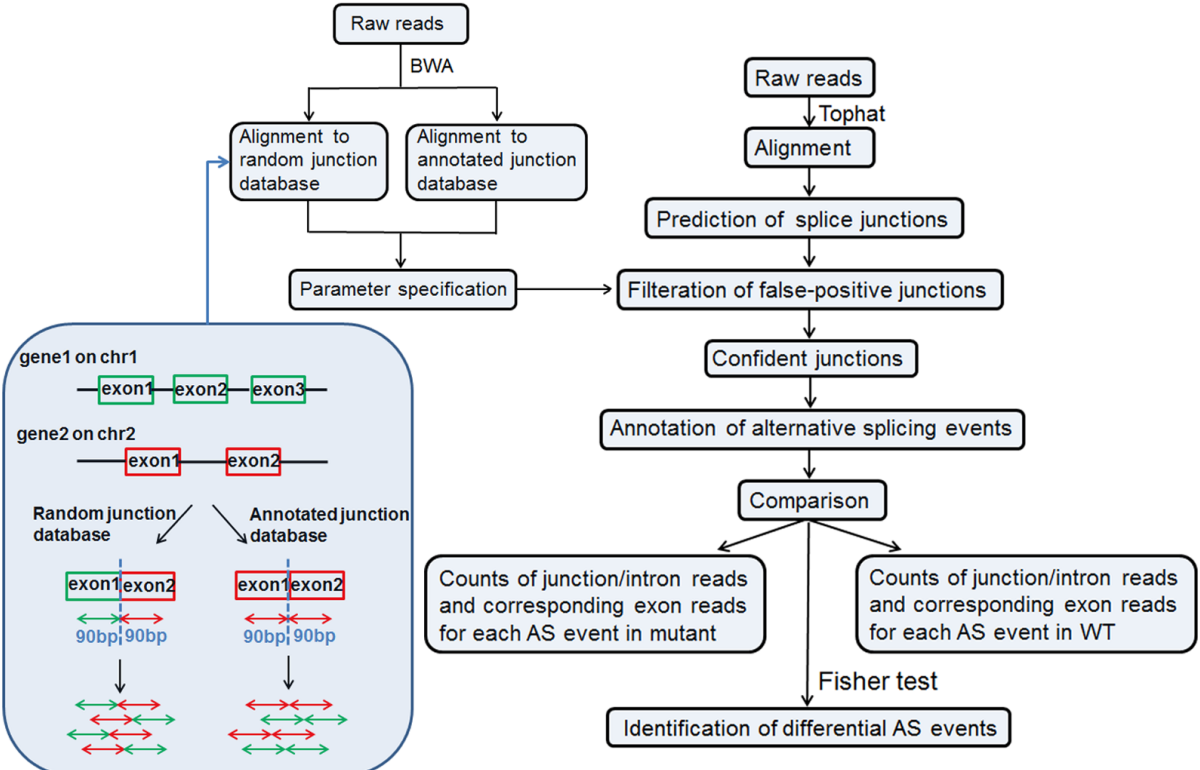
Raw reads
BWA
Alignment to random junction database
Alignment to annotated junction database
Parameter specification
Raw reads
Tophat
Alignment
Prediction of splice junctions
Filteration of false-positive junctions
Confident junctions
Annotation of alternative splicing events
Comparison
Counts of junction/intron reads and corresponding exon reads for each AS event in mutant
Counts of junction/intron reads and corresponding exon reads for each AS event in WT
Fisher test
Identification of differential AS events
gene1 on chr1
exon1
exon2
exon3
gene2 on chr2
exon1
exon2
Random junction database
Annotated junction database
exon1
exon2
90bp
90bp
exon1
exon2
90bp
90bp