

External Prediction Tools

IsoformSwitchAnalyzeR

Optional (from SpliceR)

External  
Analysis

Full length, RNA-seq derived, transcripts

Import Data into R  
*import\*()*

Detect Isoform Switches  
*isoformSwitchTest()*  
*extractSwitchSummary()*  
*extractTopSwitches()*

Annotate ORF and PTC  
*analyzeORF()*

Export Isoform  
Sequences  
*extractSequence()*

Protein  
Domains

Coding  
Potential

Signal  
Peptides

External  
Analysis

Import External  
Sequence Analysis  
*analyzePFAM()*  
*analyzeCPAT()*  
*analyzeSignalP()*

Detect Intron Retentions  
*analyzeIntronRetention()*

Predict Switch Consequences  
*analyzeSwitchConsequences()*  
*extractConsequenceSummary()*

Plot Isoform switches  
*switchPlot()*  
*switchPlotTopSwitches()*

Identification and Analysis of Isoform  
Switches with Functional Consequences

Workflow