

External Prediction Tools

IsoformSwitchAnalyzeR

Optional (from SpliceR)

External  
Analysis

Full length, RNA-seq derived, transcripts

Import data into R

Detect isoform  
switches

Annotate ORF  
and PTC

Export isoform  
sequences

**Isoform Switch Analysis Workflow  
Part 1:** Extract Isoform Switches and  
Their Sequences - done with:  
*isoformSwitchAnalysisPart1()*

External  
Analysis

Protein  
Domains

Coding  
Potential

Signal  
Peptides

Import external  
sequence analysis

Detect Intron  
Retentions

Predict switch  
consequences

Plot isoform  
switches

**Isoform Switch Analysis Workflow  
Part 2:** Plot All Isoform Switches and  
Their annotation - done with:  
*isoformSwitchAnalysisPart2()*

Identification and Analysis of Isoform  
Switches with Functional Consequences

Workflow