A. Main Home page

RNA-TVcurve

Job ID... 🔍

← **Retrieve results by Job ID**

Home

- 🏠 Home
- 📄 Intro
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- ℹ️ About

📊 TVCurve

Please choose one of following functions below: (Note: Only first sequence will be calculated on first two method)

| TVCurve | RNA Mutation | RNA Multiple | RNA Pairwise |
| **1** | **2** | **3** | **4** |

⬇

Four functional modules

ℹ️ Instruction

Step 1: Input one or more RNA sequences or Choose File and click Upload

Step 2: Click One of the methods Please note that only first sequence will be calculated on first two method

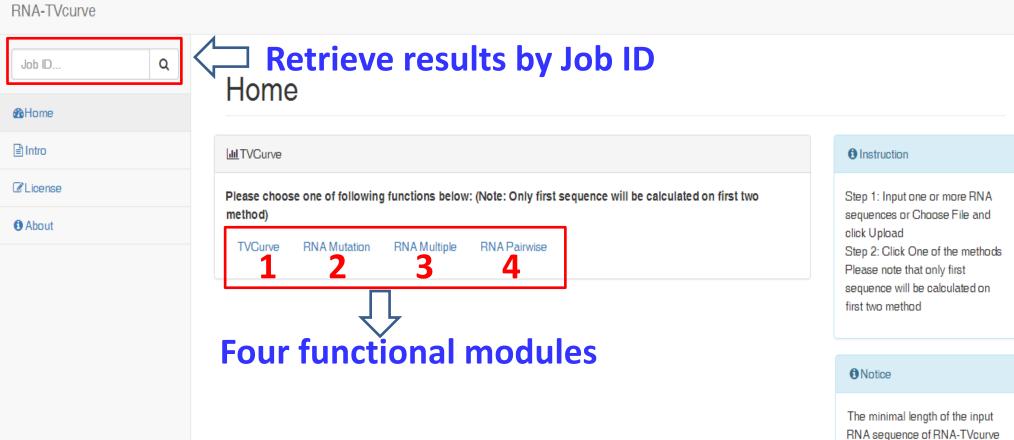### ℹ️ Notice

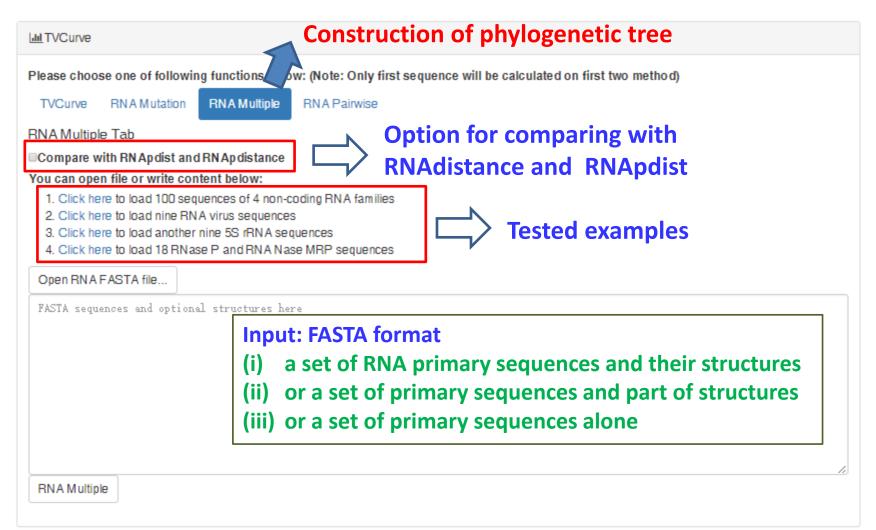The minimal length of the input RNA sequence of RNA-TVcurve should be 10.

B. Functional module 1: TVCurve

Home

TVCurve

Please choose one of following functions below: (Note: Only first sequence will be calculated on first two method)

| **TVCurve** | RNA Mutation | RNA Multiple | RNA Pairwise |

TVCurve Tab → **Visualization of RNA secondary structure**

You can open file or write content below:

1. Click here to load the RNA sequence and structure of *Hepatitis C virus* sample
2. Click here to load the sequence of *Leptomonas collosoma* sample
3. Click here to load nine RNA virus sequences

→ **Tested examples**

Open RNA FASTA file... ⇐ **upload local files**

FASTA sequences and optional structures here

or submit in this text box

Input: FASTA format
(i)   a single RNA primary sequence and its secondary structure
(ii) or a set of RNA primary sequences and their structures
(iii) or primary sequences and part of structures
(iv) or primary sequences alone

TVCurve

Execution button

C. Functional module 2: RNA Mutation

Detection of single-point mutation based on RNA secondary structure

Option for comparing with RNAdistance and RNApdist

Input: FASTA format
(i) a single RNA primary sequence and its secondary structure
(ii) or primary sequences alone

D. *Functional module 3:* RNA Multiple

Construction of phylogenetic tree

📊 TVCurve

Please choose one of following functions ‌ow: (Note: Only first sequence will be calculated on first two method)

TVCurve   RNA Mutation   **RNA Multiple**   RNA Pairwise

RNA Multiple Tab

☐ Compare with RNApdist and RNApdistance

➡ **Option for comparing with RNAdistance and RNApdist**

You can open file or write content below:

1. Click here to load 100 sequences of 4 non-coding RNA families
2. Click here to load nine RNA virus sequences
3. Click here to load another nine 5S rRNA sequences
4. Click here to load 18 RNase P and RNANase MRP sequences

➡ **Tested examples**

Open RNA FASTA file...

FASTA sequences and optional structures here

Input: FASTA format
(i) **a set of RNA primary sequences and their structures**
(ii) **or a set of primary sequences and part of structures**
(iii) **or a set of primary sequences alone**

RNA Multiple

E. Functional module 4: RNA Pairwise

📊 TVCurve

Please choose one of following functions below: (Note: Only first sequence will be calculated on first two method)

TVCurve   RNA Mutation   RNA Multiple   **RNA Pairwise**

RNA Pairwise Tab

You can open file or write content below:

Open RNA FASTA file...

FASTA sequences and optional structures here

One to one structure comparison between target input and query input

Query input

Open RNA FASTA file...

FASTA sequences and optional structures here

Target input

FASTA format
(i) a single RNA primary sequence and its secondary structure
(ii) or a set of RNA primary sequences and their structures
(iii) or primary sequences and part of structures
(iv) or primary sequences alone

Same number of RNAs in query input and target input

RNA Pairwise