

# Merge Assemblies with Cuffmerge Element

Cuffmerge merges together several assemblies. It also handles running Cuffcompare for you and automatically filters a number of transfrags that are probably artifacts. If you have a reference file available, you can provide it to Cuffmerge in order to gracefully merge input (e.g. novel) isoforms and known isoforms and maximize overall assembly quality.

**Element type:** cuffmerge

## Parameters

| Parameter                       | Description   | Default value | Parameter in Workflow File   | Type           |
|---------------------------------|---|---------------|------------------------------|----------------|
| <b>Output directory</b>         | Directory to save MACS output files.  |               | <b>out-dir</b>               | <i>string</i>  |
| <b>Reference annotation</b>     | Merge the input assemblies together with this reference annotation.   |               | <b>ref-annotation</b>        | <i>string</i>  |
| <b>Reference sequence</b>       | The genomic DNA sequences for the reference. It is used to assist in classifying transfrags and excluding artifacts (e.g. repeats). For example, transcripts consisting mostly of lower-case bases are classified as repeats. |               | <b>ref-seq</b>               | <i>string</i>  |
| <b>Minimum isoform fraction</b> | Discard isoforms with abundance below this.   | 0.05          | <b>min-isoform-fraction</b>  | <i>numeric</i> |
| <b>Cuffcompare tool path</b>    | The path to the Cuffcompare external tool in UGENE.   | default       | <b>cuffcompare-tool-path</b> | <i>string</i>  |
| <b>Cuffmerge tool path</b>      | The path to the Cuffmerge external tool in UGENE.   | default       | <b>path</b>                  | <i>string</i>  |
| <b>Temporary directory</b>      | The directory for temporary files.  | default       | <b>tmp-dir</b>               | <i>string</i>  |

## Input/Output Ports

The element has 1 *input port*:

**Name in GUI:** Set of annotations

**Name in Workflow File:** in-assembly

**Slots:**

| Slot In GUI        | Slot in Workflow File | Type             |
|--------------------|-----------------------|------------------|
| Set of annotations | in-annotations        | <i>ann_table</i> |

And 1 *output port*:

**Name in GUI:** Set of annotations

**Name in Workflow File:** out-assembly

**Slots:**

| Slot In GUI        | Slot in Workflow File | Type             |
|--------------------|-----------------------|------------------|
| Set of annotations | out-annotations       | <i>ann_table</i> |