

# Get Sequences by Annotations Element

Extracts annotated regions from the input sequence.

**Element type:** extract-annotated-sequence

## Parameters

| Parameter           | Description  | Default value | Parameter in Workflow File      | Type           |
|---------------------|--|---------------|---------------------------------|----------------|
| <b>Translate</b>    | Translates the annotated regions if the corresponding annotation marks a protein subsequence.          | False         | <b>translate</b>                | <i>boolean</i> |
| <b>Complement</b>   | Complements the annotated regions if the corresponding annotation is located on the complement strand. | False         | <b>complement</b>               | <i>boolean</i> |
| <b>Split joined</b> | Split joined annotations to single region annotations.   | False         | <b>split-joined-annotations</b> | <i>boolean</i> |
| <b>Extend left</b>  | Extends the resulted regions to left.  | 0             | <b>extend-left</b>              | <i>numeric</i> |
| <b>Extend right</b> | Extends the resulted regions to right.   | 0             | <b>extend-right</b>             | <i>numeric</i> |
| <b>Gap length</b>   | Inserts a gap of a specified length between the merged locations of the annotation.                    | 0             | <b>merge-gap-length</b>         | <i>numeric</i> |

## Input/Output Ports

The element has 1 *input port*:

**Name in GUI:** *Input sequence*

**Name in Workflow File:** in-sequence

**Slots:**

| Slot In GUI               | Slot in Workflow File | Type                    |
|---------------------------|-----------------------|-------------------------|
| <b>Sequence</b>           | <b>sequence</b>       | <i>sequence</i>         |
| <b>Set of annotations</b> | <b>annotations</b>    | <i>annotation-table</i> |

And 1 *output port*:

**Name in GUI:** *Annotated regions*

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

**Slots:**

| Slot In GUI     | Slot in Workflow File | Type            |
|-----------------|-----------------------|-----------------|
| <b>Sequence</b> | <b>sequence</b>       | <i>sequence</i> |