# Align to Reference Element

Align input sequences (e.g. Sanger reads) to the reference sequence.

## Parameters in GUI

| Parameter | Description | Default value |
| --- | --- | --- |
| **Reference URL** | A URL to the file with a reference sequence. | |

## Parameters in Workflow File

**Type:** align-to-reference

| Parameter | Parameter in the GUI | Type |
|---|---|---|
| **reference** | **Reference URL** | *string* |

## 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 |
|---|---|---|
| **Sequence** | sequence | *sequence* |

And 1 *output port*:

**Name in GUI:** Aligned data

**Name in Workflow File:** out

**Slots:**

| Slot In GUI | Slot in Workflow File | Type |
|---|---|---|
| **Set of annotations** | annotations | *ann_table* |
| **MSA** | msa | *malignment* |
| **Sequence** | sequence | *sequence* |