

# Map 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	<i>string</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
Sequence	sequence	<i>sequence</i>

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	<i>ann_table</i>
MSA	msa	<i>malignment</i>
Sequence	sequence	<i>sequence</i>