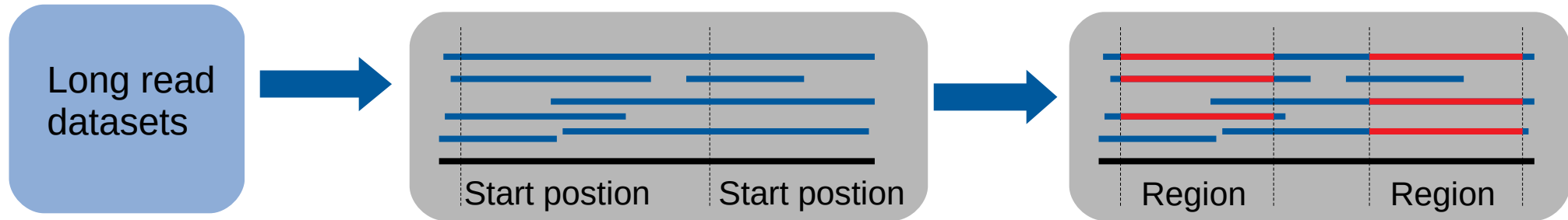


Alignment on reference with Minimap2



Launch of MSA

MUSCLE
CLUSTAL OMEGA
T-COFFEE

MAFFT
KALIGN2
KALIGN3

POA
SPOA
ABPOA

New reads set

Region size : 100 – 10000 pb
Depth : 10 - 200

Consensus Sequences

MSA

```
TTGTGTCGTGCGT
ATGTGTCGTGCG -
ATGAGTCCTGCG -
ATGAGTCCTCCG -
ATGWGTCSTGCG
```

Alignment with the reference

```
ATGWGTCSTGCG-
ATGAGTCCTCCGT
```

Evaluation
of the
consensus
sequences

Consensus
sequences
MSA

```
ATGWGTCSTCCGT
ATGWGTCSTGCG-
ATGAGTCCTCCGT
ATGAGTCCTCCGT
```

Meta
consensus

Alignment with the reference

```
ATGAGTCCTCCGT
ATGAGTCCTCCGT
```

Evaluation
of the meta
consensus