

Find

Index reference:

AAAGAACCATCAGGGCGAC

Compute MS for query:

1 2 2 3 2 2 3 3 3 2 2 1 2 3 1 1 2 3

Derandomize:

0 1 2 3 1 2 3 3 3 3 -1 0 1 2 3 0 1 2 3

Translate:

X M M R R M M M M M - - M M M X M M M

Aligned segments:

AAGCCATCA

GGGTGAC

Call

Reference:

AAAGAACCATCAGGGCGAC

Query:

CAAGCCATCAATGGGTGAC

Index reference:

AAAGAACCATCAGGGCGAC

Compute MS for query:

1 2 2 3 2 2 3 3 3 2 2 1 2 3 1 1 2 3

Resolved variants:

Deletion AA at pos 5-6

Insertion AT between pos 13-14

Substitution C->T at pos 17

Map

Index query:

CAAGCCATCAATGGGTGAC

Compute MS for reference:

1 2 2 3 2 2 3 3 3 2 2 1 2 3 1 1 2 3

Derandomize:

0 1 2 3 1 2 3 3 3 3 -1 0 1 2 3 0 1 2 3

Translate:

X M M M - - M M M M R R M M X M M M

Add variants and fill gaps:

- M M M D D M M M M M I I M M C M M M

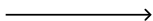
Alignment:

AAAGAACCATCAGGGCGAC

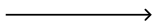
CAAGCCATCAATGGGTGAC

- AAG -- ATCAATGGGCGAC

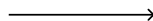
Inputs



SBWT API



kbo core



Outputs