

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 16

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:
AAAGAACCATCA GGGCGAC
CAAG CCATCAATGGGTGAC

Inputs → SBWT API → kbo core → Outputs