

# Resource Summary Report

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## Finding insertion sequence mobilization events with ISCompare.

DOI:10.17504/protocols.io.bst6nere

Type: Protocol

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### Proper Citation

Ezequiel G. Mogro, Nicolas Ambrosis, Mauricio Lozano 2021. Finding insertion sequence mobilization events with ISCompare.. protocols.io  
[dx.doi.org/10.17504/protocols.io.bst6nere](https://doi.org/10.17504/protocols.io.bst6nere)

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### Protocol Information

**URL:** <https://dx.doi.org/10.17504/protocols.io.bst6nere>

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**Summary:** Insertion sequences (ISs) are small transposable elements composed only by a transposase and imperfect terminal inverted repeats, which have an important role in genome evolution and contribute to bacterial genome plasticity and adaptability. Bacterial strains from a same species usually present genome rearrangements and variation in the location of insertion sequences and other transposable elements, which might produce phenotypic variations, including antibiotic resistance and adaptation to vaccination strategies. We developed ISCompare to profile IS mobilization events in related bacterial strains. Here we present a comprehensive description on how to use ISCompare, and interpret the obtained results. Basic protocol: Automatic search of Differentially located Insertion Sequences (DLIS) Support protocol 1: Search for differentially located ISs using local files Support protocol 2: Using the shift mode to identify differentially located Group II introns

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**External URL:** <https://github.com/maurijlozano/ISCompare>

**Version:** 1

**Publication Date:** 2021

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**Record Creation Time:** 20210329T220536+0000

**Record Last Update:** 20210329T221035+0000

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## Data and Source Information

**Source:**