

## Tn5 Transposase

Transposase is an enzyme that binds to the end of a transposon and catalyzes its movement to another part of the genome by a cut and paste mechanism or a replicative transposition mechanism. Genes encoding transposases are widespread the most abundant in the genomes of most organisms and are the most abundant genes known.

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### Description

Transposase (Tnp) Tn5 is a member of the RNase superfamily of proteins which includes retroviral integrases. Tn5 Transposase is a hyperactive form of transposase. This enzyme can be used to randomly insert Tn5 transposon into target DNA. Robust Tn5 Transposase recognizes inside end sequences, outside end sequences and mosaic end sequences of Tn5 transposon.

### Product Information

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| <b>Cat No.</b> <a href="#">NATE-1629</a>                         | <b>Storage:</b> Store at -20°C   |
| <b>Source:</b> E.coli  | <b>Activity:</b> 1 U/ul  |
| <b>Supplied with:</b> 10X TPS buffer, 0.1ml<br>5X LM buffer, 1ml | <b>Form:</b> Tn5 Transposase is supplied in a 50% glycerol solution containing 50 mM Tris-HCl (pH 8.0 at 25°C), 100 mM NaCl, 0.1 mM EDTA, 0.1% Triton X-100. |

### Applications

- The study of Tnp Tn5 is important because of its similarities to HIV-1 and other retroviral diseases.
- By studying Tn5, much can also be discovered about other transposases and their activities.
- Tn5 is utilized in genome sequencing for fragmentation of the DNA, in the technique called ATAC-seq and also in Illumina dye sequencing.

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