

## New Transposon vector based sequencing service

**Description:**

Transposon based DNA sequencing is an efficient way to sequence large DNA fragment where transposable elements are employed to generate priming sites within a target DNA sequence. The customized transposons are used as mobile priming sites, which are integrated into the interior of a DNA insert, using in-vitro transposition reaction. Integration of unique priming sites to a known sequence are introduced adjacent to previously uncharacterized sequences, allowing the recovery of sequence information from these regions. The bi-directional sequencing of selected clones generate a sequence called minicontig. Overlapping minicontigs will align the sequence of entire large fragment using bioinformatic tools.

**Ordering Information:**

Product	Size	Cat #
Transposon Vector based Sequencing Service	Per clone	117779

*Service Tax as applicable will be charged extra*

**Features:**

- The method can be applied for target plasmid DNA, BAC, PAC or linear DNA
- Method is fastest for preparing templates compare to contemporary sequencing methods and shortens the time and the cost.
- This technique eliminates primer walking and fragment-by-fragment sub-cloning for sequencing of large size DNA.

**Deliverables:**

1. Complete aligned sequence
2. Electropherograms

**Note:** Please Contact [geneiservice@sanmargroup.com](mailto:geneiservice@sanmargroup.com)