



Mutated Tn5 Transposase Proteins and Their Uses

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WARF: P03381US

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The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing Tn5 transposase mutants with high transposase activity.

Overview

The low mobility of bacterial transposons, such as Tn5, makes it difficult for researchers to detail the molecular transposition process and to exploit transposition for uses such as the development of new diagnostic and therapeutic resources.

The Invention

UW-Madison researchers have developed Tn5 transposase (Tnp) mutants with higher transposase activities than either wild-type Tnp or hyperactive Tnp mutants previously developed by the inventors. These new mutants are modified at several amino acids so that they have greater affinity for Tn5 end sequences than does wild-type Tnp.

Applications

- A variety of *in vitro* and *in vivo* transposition applications

Key Benefits

- Show higher transposition rates than either wild-type transposase or a previous hyperactive mutant transposase

Additional Information

Related Technologies

- [See WARF Reference Number P02358US for the hyperactive Tnp mutants previously developed by the inventors.](#)

Tech Fields

- [Research Tools : DNA & RNA tools](#)

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854