Analysis of a Tn*5* Insertion Library in MG1655

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Transposition is a recombination event mediated by transposable DNA elements such as the Tn*5* transposon and can lead to inversions, insertions, deletions and duplications in a genome. Here we report the generation of a Tn*5* insertion library (~10^5 single insertion events) in the *E. coli* strain MG1655 and subsequent analysis for *in vivo* transposition activity. Mutants that displayed an aberrant activity level (either hyper- or hypoactive) were selected for further analysis and sequencing. The goal of this work is to identify host genes that affect Tn*5* transposition.