

CLEAN GENOME® *E. coli*, MDS™ 42*recAtrfA*

MDS42*recAtrfA*. In our Multiple Deletion Strain™ 42 Competent Cell Line, we have removed the *recA* gene for more accurate cloning. The *recA* protein is responsible for the facilitation of DNA recombination and with the removal of this protein from the cell; we have increased the overall stability of the MDS™ 42 genome and plasmids introduced into it. The *trfA* protein is responsible for the initiation of replication of plasmids containing the *oriV* origin of replication. By use of tightly regulated promoter controlling the *trfA* gene, the plasmid replication can be controlled within the cell, giving the researcher more control over plasmid copy number. Along with the removal of Insertion Sequence (IS) elements, our MDS™ 42*recAtrfA* cells increase clone stability within the cell which provides for more precise cloning. Combine these features with the only sequenced genome with nonessential genetic elements removed, along with improved transformation efficiencies, researcher can expect great results from these cells.

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