

***Staphylococcus aureus* subsp. *aureus*, Strain JE2, Transposon Mutant NE829 (SAUSA300_2174)**

Catalog No. NR-47372

Product Description:

Staphylococcus aureus (*S. aureus*) subsp. *aureus*, transposon mutant NE829 was derived from *S. aureus* subsp. *aureus*, strain JE2. Mutagenesis occurred through the use of the *mariner*-based transposon *bursa aurealis* resulting in an erythromycin-resistant deletion strain of JE2. *S. aureus* subsp. *aureus*, transposon mutant NE829 was created by disruption of SAUSA300_2174, which encodes for the energy-coupling factor transporter protein, EcT. NR-47372 was produced by inoculation of the deposited material into Tryptic Soy broth with 5 µg/mL erythromycin and incubated for 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to a Tryptic Soy agar with 5 µg/mL erythromycin kolle, which was grown for 1 day at 37°C in an aerobic atmosphere. Quality control testing was completed under propagation conditions unless otherwise noted.

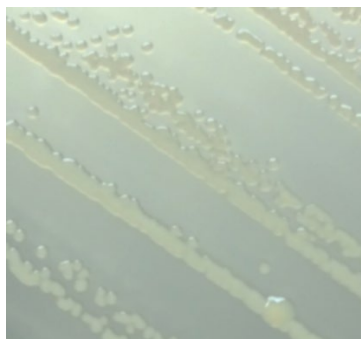
Note: Prior to initiating work, it is recommended that the presence and location of the transposon is confirmed. Gene specific primers should be paired with either the “Upstream” primer (5'-CTCGATTCTATTAACAAGGG-3') for transposons in the “plus” orientation or the “Buster” primer (5'-GCTTTTTCTAAATGTTTTTAAGTAAATCAAGTAC-3') for transposons in the “minus” orientation. For additional information, refer to Fey, P. D., et al. “A Genetic Resource for Rapid and Comprehensive Phenotype Screening of Nonessential *Staphylococcus aureus* Genes.” *mBio* 4 (2013): e00537-12. PubMed: 23404398.

Lot: 70064169

Manufacturing Date: 27OCT2023

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology Motility (wet mount)	Gram-positive cocci Report results Report results	Gram-positive cocci Circular, low convex, entire, smooth and cream (Figure 1) Non-motile
Confirmation of Transposon Insertion	Resistant to erythromycin	Resistant to erythromycin
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5% CO ₂ on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

Figure 1: Colony Morphology



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