**Product Information Sheet for NR-51164**

**Staphylococcus aureus Fluorescent Reporter Plasmid pSRFPS1, Recombinant in Staphylococcus aureus**

**Catalog No. NR-51164**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**
NR-51164 is a glycerol stock of *Staphylococcus aureus* (S. aureus), strain RN4220 containing the DsRed.T3(DNT) red fluorescent protein (RFP) reporter plasmid pSRFPS1, a derivative of the *Escherichia coli* (E. coli) - staphylococcal shuttle vector pKK30.1,2

Plasmid pKK30 is a member of a set of shuttle vectors that retain stability over a number of generations in vitro and in vivo in *Staphylococcus* species without antibiotic selection, making them a powerful genetic tool. pKK30 contains the P<sub>parA</sub>·dfrA trimethoprim resistance cassette, a blaZ transcriptional terminator (blaZTT), a plasmid single stranded origin (sso) required for plasmid replication, a double stranded origin (dso) required for plasmid maintenance in the absence of antibiotic selection, a repF gene encoding for the *S. aureus* Rep protein and the *E. coli* R6Kγ replication origin. pKK30 lacks the four predicted USA300-specific open reading frames allowing for use of pKK30 in non-USA300 isolates.3

The complete sequence and vector map of pSRFPS1 are available on the Certificate for NR-51164 lot 70010750 and the vector sequence of pSRFPS1 is available from GenBank: [MF769791](https://www.ncbi.nlm.nih.gov/nuccore/MF769791).

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth containing 10 µg/mL trimethoprim supplemented with 25% glycerol.

**Packaging/Storage:**
NR-51164 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

**Media:**
- Tryptic Soy broth containing 10 µg/mL trimethoprim
- Tryptic Soy agar containing 10 µg/mL trimethoprim

**Incubation:**
- Temperature: 37°C
- Atmosphere: Aerobic

**Propagation:**
1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 37°C for 1 day.

**Citation:**
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: *Staphylococcus aureus* Fluorescent Reporter Plasmid pSRFPS1, Recombinant in *Staphylococcus aureus*, NR-51164.”

**Biosafety Level: 2**

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References:

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