

***Borrelia burgdorferi*, Signature-Tagged Mutagenesis Library Clone T06TC166 (Gene BB_0431)**

Catalog No. NR-23736

Product Description: *Borrelia burgdorferi* (*B. burgdorferi*), strain B31 5A18NP1 STM library clone T06TC166 was produced by signature-tagged mutagenesis (STM) of the BB_0431 gene.

Lot¹: 62782865

Manufacturing Date: 29JUL2014

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology ² Motility (wet mount)	Spirochete Motile	Spirochete Motile
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1420 base pairs)	Consistent with <i>B. burgdorferi</i>	Consistent with <i>B. burgdorferi</i> ³
Confirmation of BBE02 Disruption²	Growth in the presence of kanamycin	Growth in the presence of kanamycin
Confirmation of STM²	Growth in the presence of gentamicin	Growth in the presence of gentamicin
Purity (post-freeze)⁴	No growth observed	No growth observed
Viability (post-freeze) Visual observation LIVE/DEAD [®] BacLight [™] Bacterial Viability ⁵	Growth Green fluorescence visible	Growth ² Green fluorescence visible (Figure 1) ⁵

¹NR-23736 was produced by inoculation of the deposited material into Revised Barbour-Stoener-Kelly medium supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin and grown 20 days at 32°C in an aerobic atmosphere. The material from the initial growth was passaged once in Barbour-Stoener-Kelly medium supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin for 20 days at 32°C in an aerobic atmosphere to produce this lot.

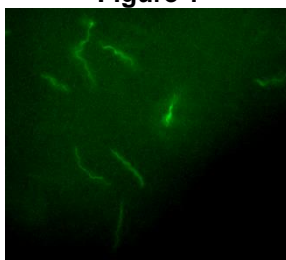
²6 days at 32°C in an aerobic atmosphere Revised Barbour-Stoener-Kelly medium supplemented with 200 µg/mL kanamycin and 40 µg/mL gentamicin

³>99.9% identical to GenBank: AE000783 (*B. burgdorferi*, strain B31)

⁴7 days at 37°C and 5% CO₂ on Tryptic Soy agar with 5% defibrinated sheep blood

⁵Determined after 6 days incubation under cultivation conditions with LIVE/DEAD[®] BacLight[™] Bacterial Viability Kit, 100x magnification (Invitrogen[™] L34856). Cells with a compromised membrane that are dead or dying will stain red, while cells with an intact membrane will stain green.

Figure 1



Date: 26 SEP 2014

Signature:

Title: Technical Manager, BEI Authentication or designee

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