

Plasmid pL0019, for Transfection in *Plasmodium berghei*

Catalog No. MRA-788

Product Description:

MRA-788 is a *Plasmodium berghei* transformation plasmid, pDEFhDexpGFPM3, used for insertion (single crossover) with the human dihydrofolate reductase (*hdhfr*) selectable marker. Plasmid pL0019 contains a *pbeef1aa*-promoter-driven *gfp mutant3* expression cassette. The targeted integration locus is *c-* and *d-ssu-rna*. Lot 64527540 was produced from a preparation of MR-MRA-788 lot 4734024, extracted using a QIAprep® Spin Miniprep Kit (QIAGEN® 27104) and vialied in EB buffer (10 mM Tris-HCl, pH 8.5).

Lot: 64527540

Manufacturing Date: 27SEP2016

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing MRA-788 (~ 8130 base pairs); Figure 1	Report results	Aligns to depositor's sequence <sup>1</sup>
Concentration by PicoGreen® Measurement <sup>2</sup>	Report results	0.7 µg in 50 µL per vial (14 µg/mL)
Amount	Report results	~ 700 ng per vial
OD <sub>260</sub> /OD <sub>280</sub> Ratio <sup>2</sup>	1.7 to 2.1	1.9

<sup>1</sup>Illumina® MiSeq® sequence was analyzed with CLC Genomics Workbench and assembled using the depositor's predicted sequence as the reference sequence. When aligned to the depositor's predicted sequence, two 3-bp insertions (positions 6280 and 8083) mapped completely outside of all coding regions and should not have an effect on plasmid utility.

<sup>2</sup>Testing completed on material prior to vialing and freezing.

Figure 1: Complete Plasmid Sequence of MRA-788

>MRA-788 lot 64527540 complete plasmid sequence

TATGCTTGTCTCAAAGATTAAGCCATGCAAGTGAAGTATATGCACATTTATTGCAGAACTGCGAACGGCTCATTAAAACAGTTATAATCTACTTG  
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