

Plasmid psgRNA_1target_cen, for Transfection in *Plasmodium falciparum*

Catalog No. MRA-1328

Product Description:

MRA-1328 is a centromere plasmid containing a single guide RNA (sgRNA) expression cassette, in which the expression of sgRNA is controlled by the U6 promoter. The deposited plasmid was transformed into *E. coli* TOP10™ competent cells (ThermoFisher Scientific™ C404003), grown in Luria-Bertani broth with ampicillin (50 µg/mL) for 1 day at 37°C in an aerobic atmosphere, extracted using a QIAfilter Plasmid Midi Kit (QIAGEN® 12243).

Lot: 70062576

Manufacturing Date: 10APR2023

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 9600 base pairs	9659 base pairs ¹
Genotypic Analysis ~ 9600 base pairs	≥ 99% sequence identity to depositor's sequence	99.6% sequence identity to depositor's sequence
Concentration by PicoGreen® Measurement	≥ 2 µg/mL	0.5 µg in 50 µL/vial (10 µg/mL)
Amount per Vial	Report results	0.5 µg/vial
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	2.0

¹The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The complete plasmid sequence is provided on the BEI Resources webpage.

/Sonia Bjorum Brower/
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09 MAY 2024

Technical Manager or designee, ATCC Federal Solutions

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