

Plasmodium berghei, Strain (ANKA) 507m6cl1

Catalog No. MRA-867

Product Description:

Plasmodium berghei (*P. berghei*), strain (ANKA) 507m6cl1 is a genetically modified clone of the ANKA strain following stable transfection with the pL0023 vector (BEI Resources MRA-792). This line expresses green fluorescent protein (GFP) throughout the life cycle and does not contain a drug-selectable marker. MRA-867 was produced by inoculation of seed lot into 3 ND4 Swiss Webster mice. Infection was allowed to progress for 4 days. Infected blood was collected by orbital bleeding and used to inoculate 17 ND4 Swiss Webster mice. Infection was allowed to progress until parasitemia reached > 5%. After 4 days, infected blood was collected by orbital bleeding.

Lot: 70028514

Manufacturing Date: 08NOV2019

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis¹ Sequencing Circumsporozoite Surface Protein 1 (CSP1) gene (~ 1080 base pairs)	≥ 99% sequence identity to <i>P. berghei</i> , strain ANKA (GenBank: LK023119)	99.1% sequence identity to <i>P. berghei</i> , strain ANKA (GenBank: LK023119) (Figure 1)
Functional Activity by PCR Amplification¹ CSP1 PCR amplicon analysis	~ 900-1100 base pair amplicon	~ 1100 base pair amplicon
Level of Parasitemia Pre-freeze (4 days post-infection) ² Post-freeze (5 days post-infection) ¹	Report results ≥ 1%	6.97% 5.72%
Viability (5 days post-infection)¹	Growth in inoculated mice	Growth in inoculated mice

¹Testing completed on vial, post-freeze material

²Testing completed on bulk material prior to vialing and freezing

Figure 1: MRA-867 CSP1 Sequence

```

AGTGTACCAT TTTAGTTGTA GCGTCACTTT TATTAGTTAA TTCTCTACTT CCAGGATATG GACAAAATAA AAGCATCCAA
GCCCAAAGGA ACTTAAACGA GCTATGTTAC AATGAAGGAA ATGATAATAA ATTGTATCAC GTGCTTAACT CTAAGAATGG
AAAAATATAC AATCGAAATA CAGTCAACAG ATTACTTGCC GATGCTCCCG AAGGAAAAAA AAATGAGAAA AAAAAACGAAA
AAATAGAGCG TAATAATAAA TTGAAACAAC CACCACCACC ACCAAACCCA AATGACCCAC CACCACCAA CCCAAATGAC
CCACCACCAC CAAACCCAAA TGACCCACCA CCACCAAACG CAAATGACCC ACCACCACCA AACGCAAATG ACCCAGCACC
ACCAAACGCA AATGACCCAC CACCACCAA CGCAAATGAC CCACCACCAC CAAACGCAA TGACCCASCA CCACCAAACG
CAAATGACCC ACCACCACCA AACGCAAATG ACCCAGCACC ACCAAACGCA AATGACCCAG CACCACCAA CGCAAATGAC
CCAGCACCAC CAAACGCAA TGACCCACCA CCACCAAAC CAAATGACCC AGCACCACCA AACGCAAATG ACCCACCACC
ACCAACCCCA AATGACCCAG CACCACCACA AGGAAATAAC AATCCACAAC CACAGCCACG GCCGCAGCCA CAACCACAGC
CACAGCCACA ACCACAGCCA CAGCCACAAC CACAGCCACG ACCACAGCCA CAACCACAGC CAGGTGGTAA TAACAATAAC
AAAAATAATA ATAATGACGA TTCTTATATC CCAAGCGCGG AAAAAATACT AGAATTTGTT AAACAGATCA GGGATAGTAT
CACAGAGGAA TGGTCTCAAT GTAACGTAAC ATGTGGTTCT GGTATAAGAG TTAGAAAACG AAAAGGTTCA AATAAGAAAG
CAGAAGATTT GACCTTAGAA GATATTGATA CTGAAATTTG TAAATGGAT AAATGTTCAA GTATATTTAA TATTGTAAGC
AATTCATTAG GATTTGTAAT ATTATTAGTA TTAGTATTCT TT
    
```

/Heather Couch/
Heather Couch

22 APR 2022

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.



BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898