Supplemental Table 1: SynDNA Vaccine Construct Sequences

| Construct name | DNA Sequence |
|----------------|--------------|
| **3D7**        | GGATCCGCGG | CCACCATGGG | TTGGACATGG | ATTCTGTTTC | TGTCGCTGCG | CGCCACACAGG |
|                | GTGCATAGCC | TGTTTCAGGA | GTATCAGTGC | TACGGGTCTT | CCTCAAACAC | CAGGTTGCTG |
|                | AACGAGCTGA | ATIGACGATAA | CCACCAGACA | AAATCGTATA | ACGAGCTGGA | GATGAACTAC |
|                | TATGCCAAGC | AGGAGAATGC | GTATCCTGCT | AAGAGAAACT | CTAGAGGACT | GGGCGAGAAC |
|                | GACGGATGAG | ACAATGAGGA | AGGAGGAAGA | AATAATCGAT | CTAAGCAAGA | GAGGCTGAAG |
|                | CAGCTCTGCG | AGCGCAACCC | GCATCTAAC | GCAATCTCCT | ACGTGAGACC | AAAATGCAAAC |
|                | CCAACGCTGA | AATCCGCGA | AGCAGAAGAC | CCATCCGATC | TGACCTTACCC | AGAGCTAAC |
|                | CAACTACCTA | ACCGAGCTA | AATGCCAAC | AATAATCGCA | GCAATGCCA | AAAGCTAAAC |
|                | CCTAATGCAA | ATCCAGGCA | AGCCGAGAAT | ATCCATTTAT | GTTCCTGCTG | CCTTCTGTTC |
|                | CTAATGCAA | ATCCAGGCA | AGCCGAGAAT | ATCCATTTAT | GTTCCTGCTG | CCTTCTGTTC |
| **GP1**        | GGATCCGCGG | CCACCATGGG | TTGGACATGG | ATTCTGTTTC | TGTCGCTGCG | CGCCACACAGG |
|                | GTGCATAGCC | TGTTTCAGGA | GTATCAGTGC | TACGGGTCTT | CCTCAAACAC | CAGGTTGCTG |
|                | AACGAGCTGA | ATIGACGATAA | CCACCAGACA | AAATCGTATA | ACGAGCTGGA | GATGAACTAC |
|                | TATGCCAAGC | AGGAGAATGC | GTATCCTGCT | AAGAGAAACT | CTAGAGGACT | GGGCGAGAAC |
|                | GACGGATGAG | ACAATGAGGA | AGGAGGAAGA | AATAATCGAT | CTAAGCAAGA | GAGGCTGAAG |
|                | CAGCTCTGCG | AGCGCAACCC | GCATCTAAC | GCAATCTCCT | ACGTGAGACC | AAAATGCAAAC |
|                | CCAACGCTGA | AATCCGCGA | AGCAGAAGAC | CCATCCGATC | TGACCTTACCC | AGAGCTAAC |
|                | CAACTACCTA | ACCGAGCTA | AATGCCAAC | AATAATCGCA | GCAATGCCA | AAAGCTAAAC |
|                | CCTAATGCAA | ATCCAGGCA | AGCCGAGAAT | ATCCATTTAT | GTTCCTGCTG | CCTTCTGTTC |
|                | CTAATGCAA | ATCCAGGCA | AGCCGAGAAT | ATCCATTTAT | GTTCCTGCTG | CCTTCTGTTC |
| **dGP1**       | GGATCCGCGG | CCACCATGGG | TTGGACATGG | ATTCGTTTTC | TGTCGCTGCG | AGCAACTAGA |
|                | GTGCATAGCC | TGTTTCAGGA | GTATCAGTGC | TACGGGTCTT | CATCTAAACAC | CAGGTTGCTG |
|                | AACGAGCTGA | ATIGACGATAA | CCACCAGACA | AAATCGTATA | ACGAGCTGGA | GATGAACTAC |
|                | TATGCCAAGC | AGGAGAATGC | GTATCCTGCT | AAGAGAAACT | CTAGAGGACT | GGGCGAGAAC |
|                | GACGGATGAG | ACAATGAGGA | AGGAGGAAGA | AATAATCGAT | CTAAGCAAGA | GAGGCTGAAG |
|                | CAGCTCTGCG | AGCGCAACCC | GCATCTAAC | GCAATCTCCT | ACGTGAGACC | AAAATGCAAAC |
|                | CCAACGCTGA | AATCCGCGA | AGCAGAAGAC | CCATCCGATC | TGACCTTACCC | AGAGCTAAC |
|                | CAACTACCTA | ACCGAGCTA | AATGCCAAC | AATAATCGCA | GCAATGCCA | AAAGCTAAAC |
|                | CCTAATGCAA | ATCCAGGCA | AGCCGAGAAT | ATCCATTTAT | GTTCCTGCTG | CCTTCTGTTC |
|                | CTAATGCAA | ATCCAGGCA | AGCCGAGAAT | ATCCATTTAT | GTTCCTGCTG | CCTTCTGTTC |
CCAAACGTGG ACCCCAACGC TAATCCTAAC GCCAATCCAA ACGCCAATCC CAACGCCAAC
CCTAACGCTA ACCCTAACGC TAACCCCAA GCCAATCCTA ACGCTAACCC AAATGCTAAT
CCCAATGCTA ACCCAAATGC AAACCCTAAC GCTAATCCAA ATGCTAACCC AAATGCCAAC
CCTAACGCTA ATCCCAATGC TAATCCCAAT GCAAACCCTA ACGCCAATCC CAACAAGAAC
AATCAGGGCA ACGGCCAGGG CCACAATATG CCAAACGACC CCAATCGGAA CGTGGATGAG
AATGCCAACG CCAATAGC GC GTGAAGAAC AATAACAATG AGGAGCCATC CGATAAGCAC
ATCAAGGAGT ATCTGAATAA GATCCAGAAC TCTCTGAGCA CCGAGTGGTC CCCTTGCTCT
GTGACATGTC GCAACGCGCT ATCAAGCCTG CTCGGCGCCA CAAACCCAAAG
GACGAATTG ACTACGCGCA TGGATATTATC AGGATTACGA TGGTAATTCGG TCCTTTCTCT
GGATACCGAG
TM
GGATCCGCCG CCACCATGGA TTGGACCTGG ATCTGTTCCT TGGTCGCCGC CGCTACACGA
GTGCATTCTC TGTTTCAGGA CTGGAGAAGC TATGCCAACCC TAATGGCAATCT CAAACCGAAC
AACACATGTA AACGCAGAGC AATGCAGAGC TCCCTCTGGA CCGGCGGCTG TTGCTGTGCC
CTGGTCATTA CCAAGGCAAG TGGATCCGCCG CGCTACACGA
DA2
GGATCCGCCG CCACCATGGA TTGGACCTGG ATCTGTTCCT TGGTCGCCGC CGCTACACGA
GTGCATTCTC TGTTTCAGGA CTGGAGAAGC TATGCCAACCC TAATGGCAATCT CAAACCGAAC
AACACATGTA AACGCAGAGC AATGCAGAGC TCCCTCTGGA CCGGCGGCTG TTGCTGTGCC
CTGGTCATTA CCAAGGCAAG TGGATCCGCCG CGCTACACGA
RTS
GGATCCGCCG CCACCATGGA TTGGACCTGG ATCTGTTCCT TGGTCGCCGC CGCTACACGA
GTGCATTCTC TGTTTCAGGA CTGGAGAAGC TATGCCAACCC TAATGGCAATCT CAAACCGAAC
AACACATGTA AACGCAGAGC AATGCAGAGC TCCCTCTGGA CCGGCGGCTG TTGCTGTGCC
CTGGTCATTA CCAAGGCAAG TGGATCCGCCG CGCTACACGA
