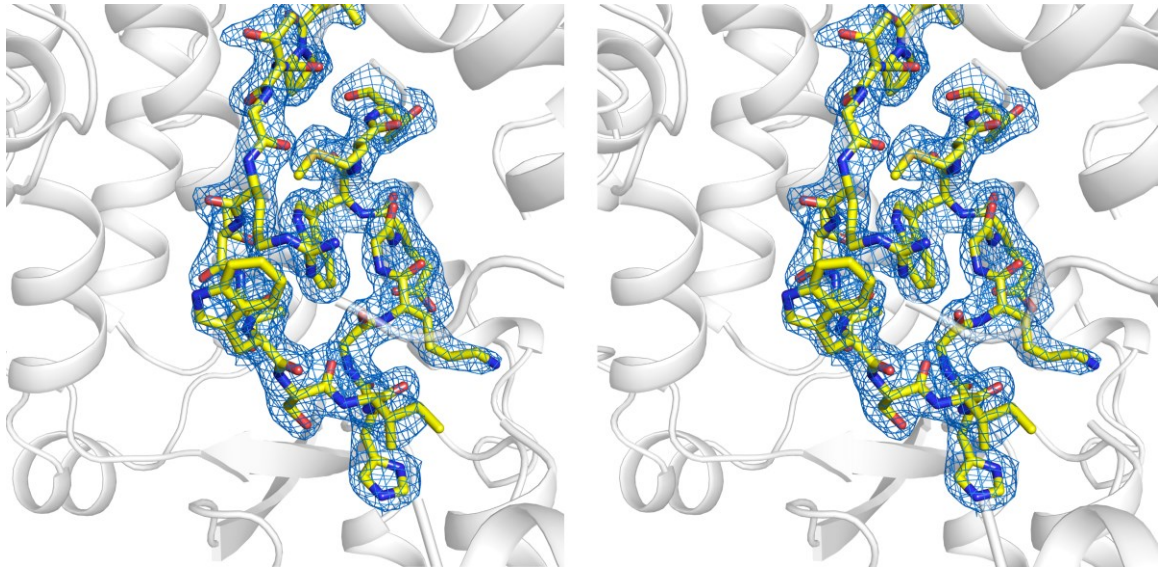


**Supplementary Note 1**

**Codon optimized sequence of ZIKV RdRp**

TACCATGGGAGCTACGAAGCCCCACGCAAGGATCAGCGTCTTCCCTCGTGA  
ACGGGGTTGTAGACTCCTGTCAAAGCCTTGGGACGTGGTGACTGGAGTTAC  
AGGAATAGCCATGACTGACACCACACCATACGGCCAACAAAGAGTCTTCAA  
GAAAAAGTGGACACCAGGGTGCCAGATCCCCAAGAAGGCACTCGCCAGGTA  
ATGAACATAGTCTCTTCCCTGGCTGTGGAAGGAGCTGGGGAAACGCAAGCGG  
CACGCGTCTGCACCAAAGAAGAGTTTATCAACAAGGTGCGCAGCAATGCAGC  
ACTGGGAGCAATATTTGAAGAGGAAAAAGAATGGAAGACGGCTGTGGAAGC  
TGTGAATGATCCAAGTTTTGGGCCCTAGTGGATAGGGAGAGAGAACCAC  
CTGAGAGGAGAGTGTACAGCTGTGTGTACAACATGATGGGAAAAAGAGAA  
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ATGTGGTTGGGAGCCAGATTCTTGGAGTTTGAAGCCCTTGGATTCTTGAACGA  
GGACCATTGGATGGGAAGAGAAAACCTCAGGAGGTGGAGTCGAAGGGTTAGG  
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AAGATGTACGCAGATGACTGCTGGCTGGGACACCCGCATTAGTAAGTTTG  
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CTCTGGCGTTGGCCGTGATTAATAACACATACCAAACAAAGTGGTGAAGGT  
TCTCAGACCAGCTGAAGGAGGAAAAACAGTTATGGACATCATTTCAAGACAA  
GACCAGAGAGGGAGTGGACAAGTTGTCACTTATGCTCTCAACACATTCACCA  
ACTTGGTGGTGCAGCTTATCCGGAACATGGAAGCTGAGGAAGTGTTAGAGAT  
GCAAGACTTATGGTTGTTGAGGAAGCCAGAGAAAGTGACCAGATGGTTGCAG  
AGCAATGGATGGGATAGACTCAAACGAATGGCGGTTCAGTGGAGATGACTGC  
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CATGGGAAAAGTTAGGAAAGACACACAGGAGTGGAAACCCTCGACTGGATG  
GAGCAATTGGGAAGAAGTCCCGTTCTGCTCCCACCACTTCAACAAGCTGTAC  
CTCAAGGATGGGAGATCCATTGTGGTCCCTTGCCGCCACCAAGATGAACTGA  
TTGGCCGAGCTCGCGTCTCACCAAGGGGCAGGATGGAGCATCCGGGAGACTGC  
CTGTCTTGCAAAATCATATGCGCAGATGTGGCAGCTCCTTTATTTCCACAGAA  
GAGACCTTCGACTGATGGCTAATGCCATTTGCTCGGCTGTGCCAGTTGACTGG  
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ACCATATGGAGGACAAGACTCCTGTAACAAAATGGACAGACATTCCTATCT  
AGGAAAAGGGAGGACTTATGGTGTGGATCCCTTATAGGGCACAGACCCCGC  
ACCACTTGGGCTGAAAACATCAAAGACACAGTCAACATGGTGCAGGATCA  
TAGGTGATGAAGAAAAGTACATGGACTATCTATCCACCAAGTCCGCTACTT  
GGGTGAGGAAGGGTCCACACCCGGAGTGTTG



**Supplementary Figure 1:** Stereo view of the priming loop electron density map ( $2F_o - F_c$ ) of ZIKV NS5 RdRp, with 1.0 sigma.