

## Supplementary information

### **Colorimetric Loop-mediated Isothermal Amplification (LAMP) for cost-effective and quantitative detection of SARS-CoV-2: The change in color in LAMP-based assays quantitatively correlates with viral copy number**

Everardo González-González, Itzel Montserrat Lara-Mayorga, Iram Pablo Rodríguez-Sánchez, Yu Shrike Zhang, Sergio O. Martínez-Chapa, Grissel Trujillo-de Santiago and Mario Moisés Alvarez\*

*Centro de Biotecnología-FEMSA, Tecnológico de Monterrey, CP 64849, Monterrey, NL, México.*

*Departamento de Bioingeniería, Tecnológico de Monterrey, CP 64849, Monterrey, NL, México.*

*Departamento de Ingeniería Mecatrónica y Eléctrica, Tecnológico de Monterrey, CP 64849, Monterrey, NL, México*

*Universidad Autónoma de Nuevo León, Facultad de Ciencias Biológicas, Laboratorio de Fisiología Molecular y Estructural. 66455, San Nicolás de los Garza, NL, México*

*Alfa Medical Center, Guadalupe, CP 67100, NL, México*

*Division of Engineering in Medicine, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, Cambridge 02139, MA, USA*

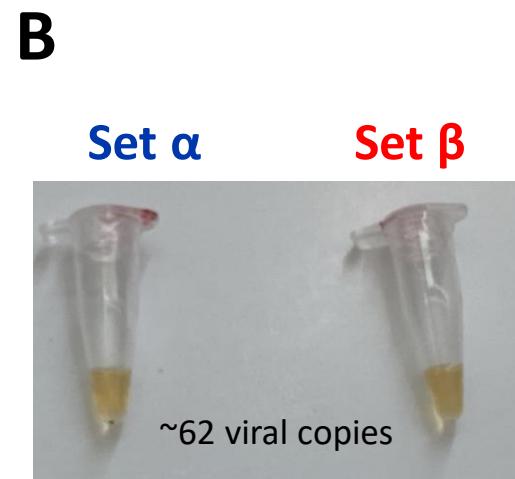
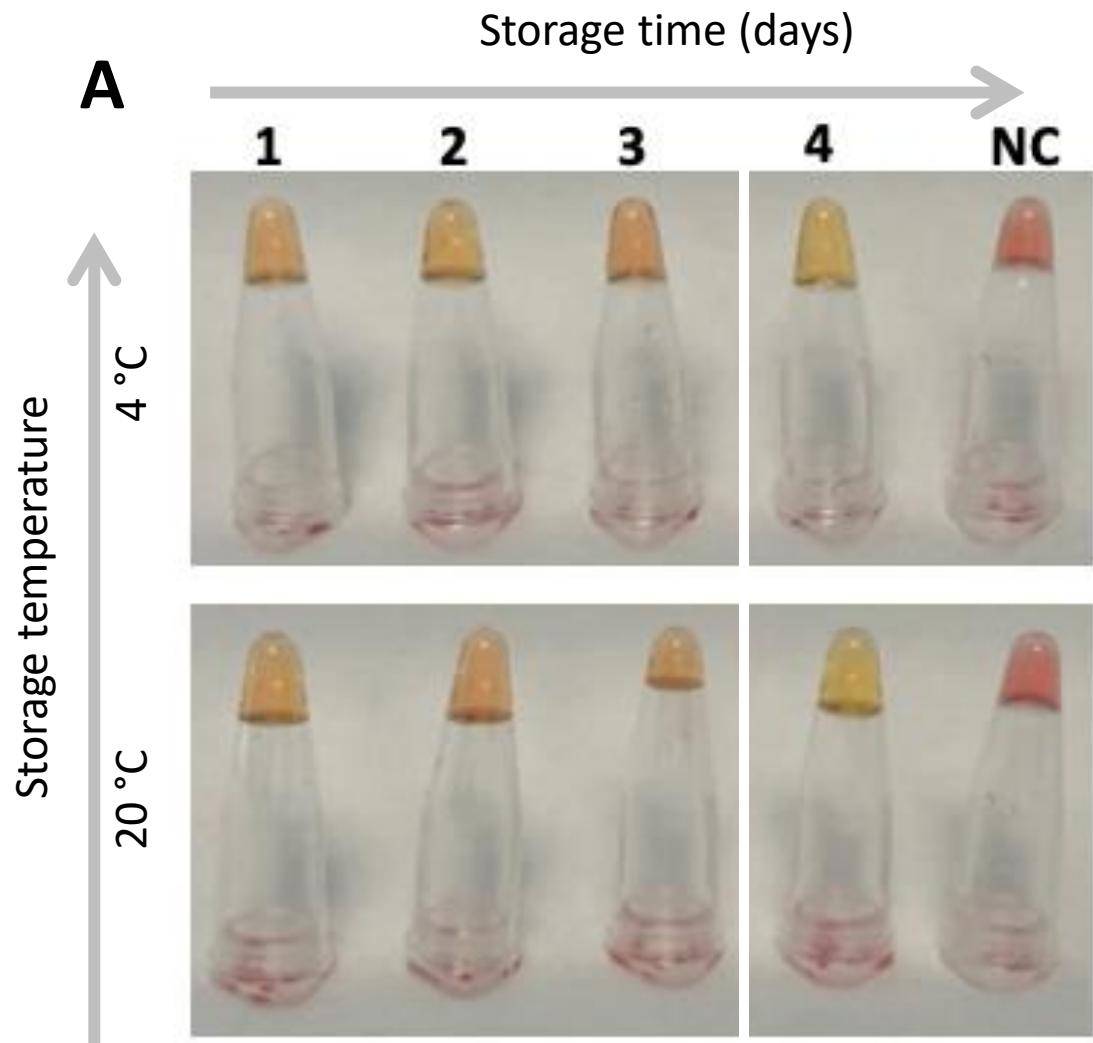
*Laboratorio de Inmunobiología y Genética, Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas, Cd. de México, México*

*Unidad de Biología Molecular, Instituto Nacional de Enfermedades Respiratorias Ismael Cosío Villegas, Cd. de México, México*

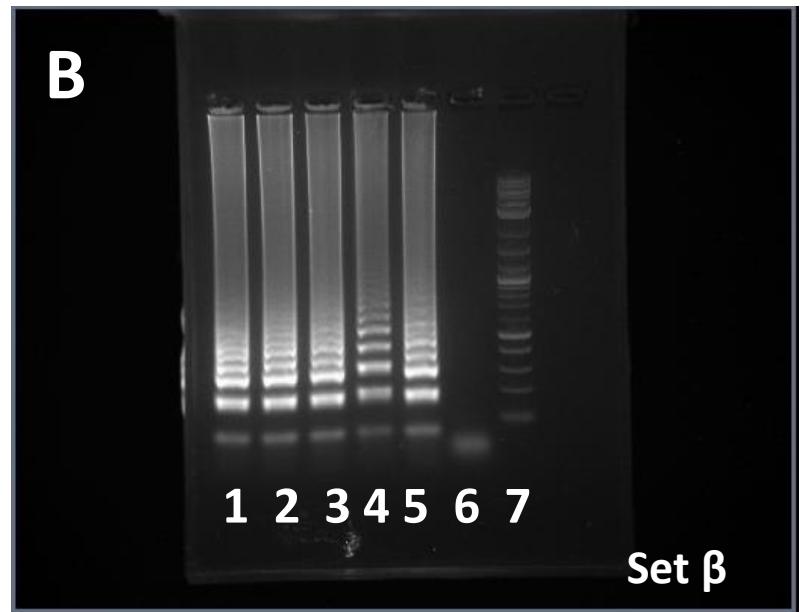
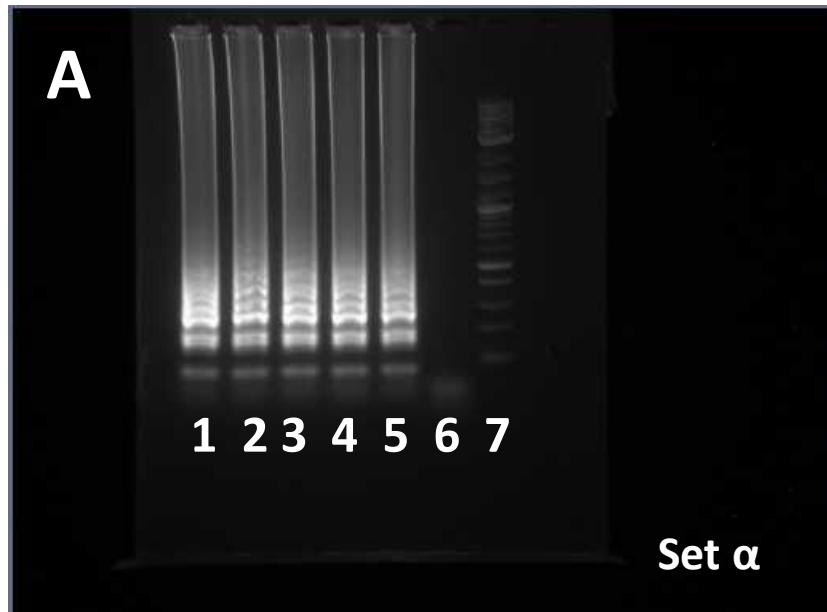
*Escuela de Medicina y Ciencias de la Salud, Tecnológico de Monterrey, CP 14380, Cd. de México, México*

\* Corresponding author

Electronic Supplementary Information (ESI) available: [details of any supplementary information available should be included here]. See DOI: 10.1039/x0xx00000x



**Figure S1**



**Figure S2**

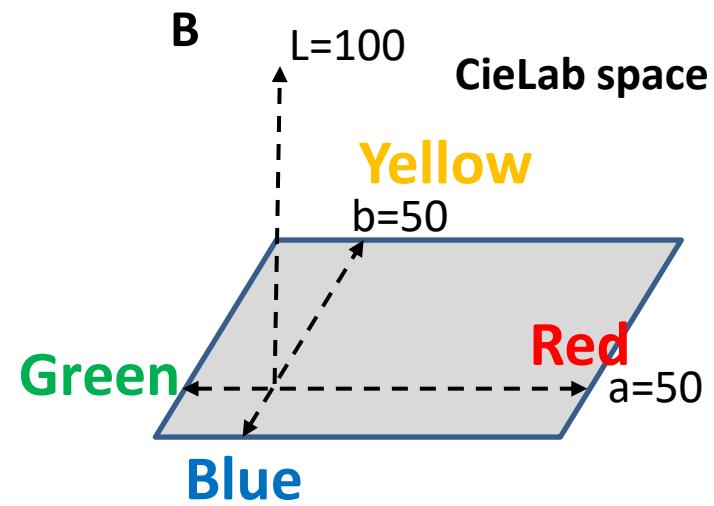
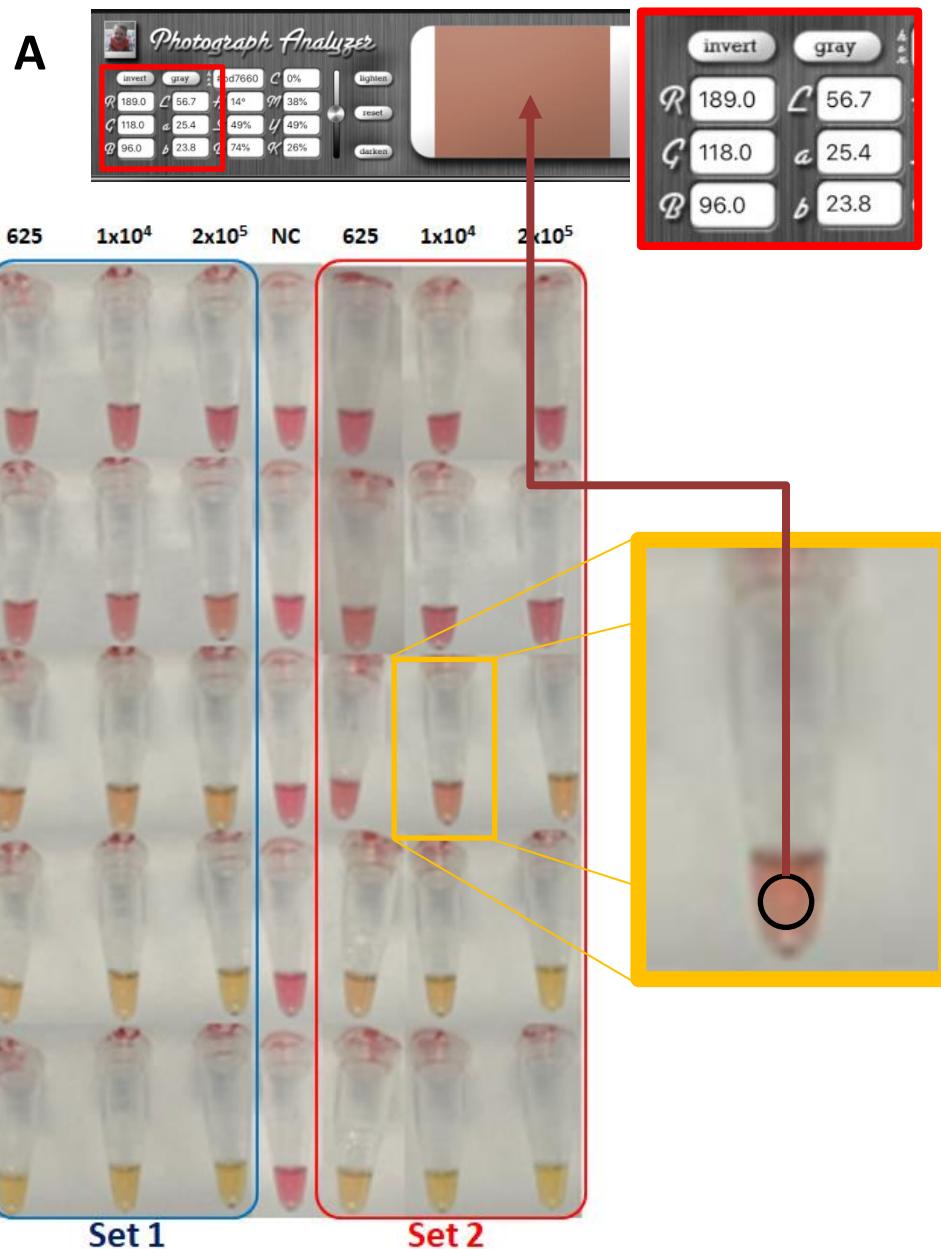
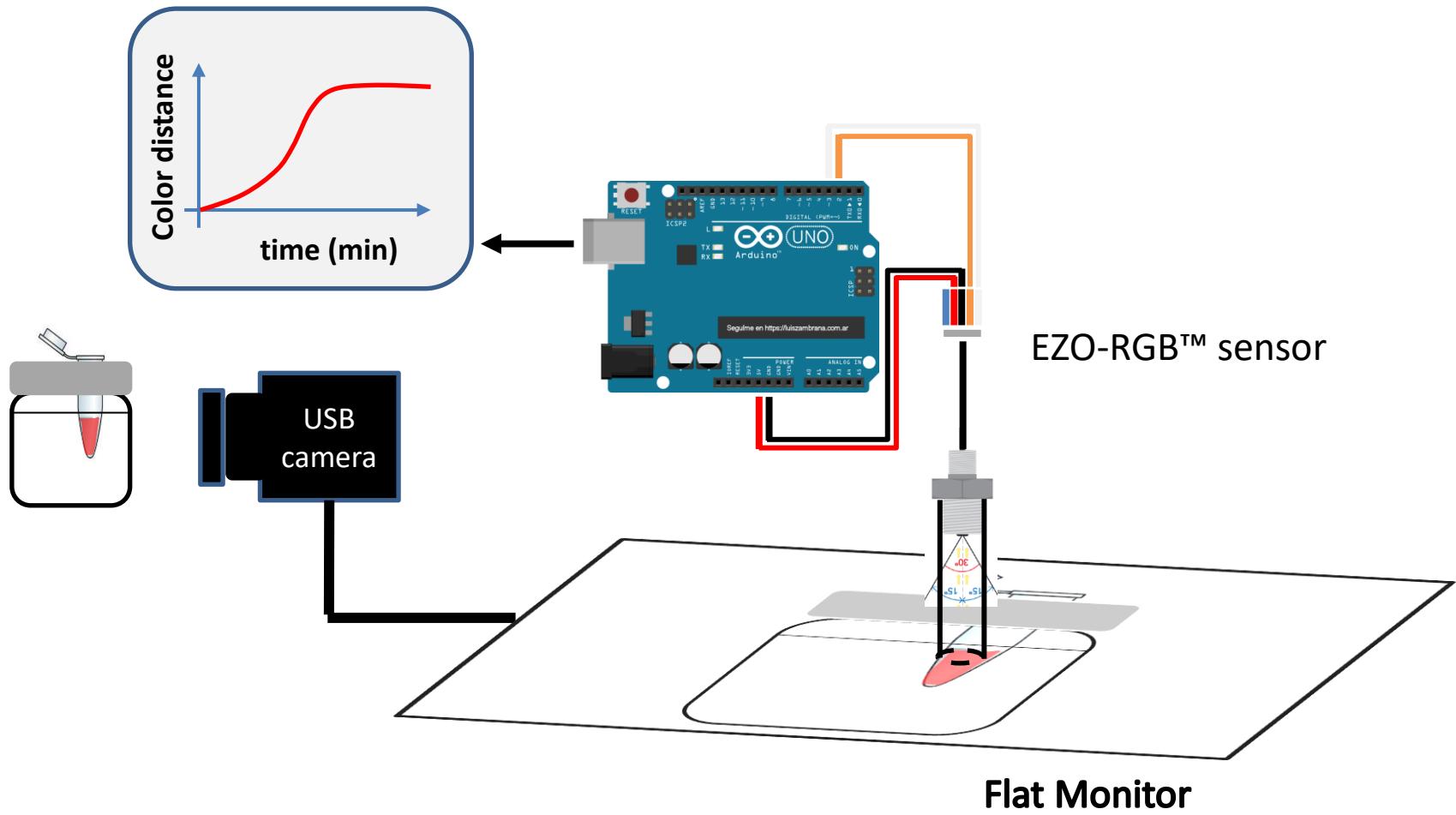
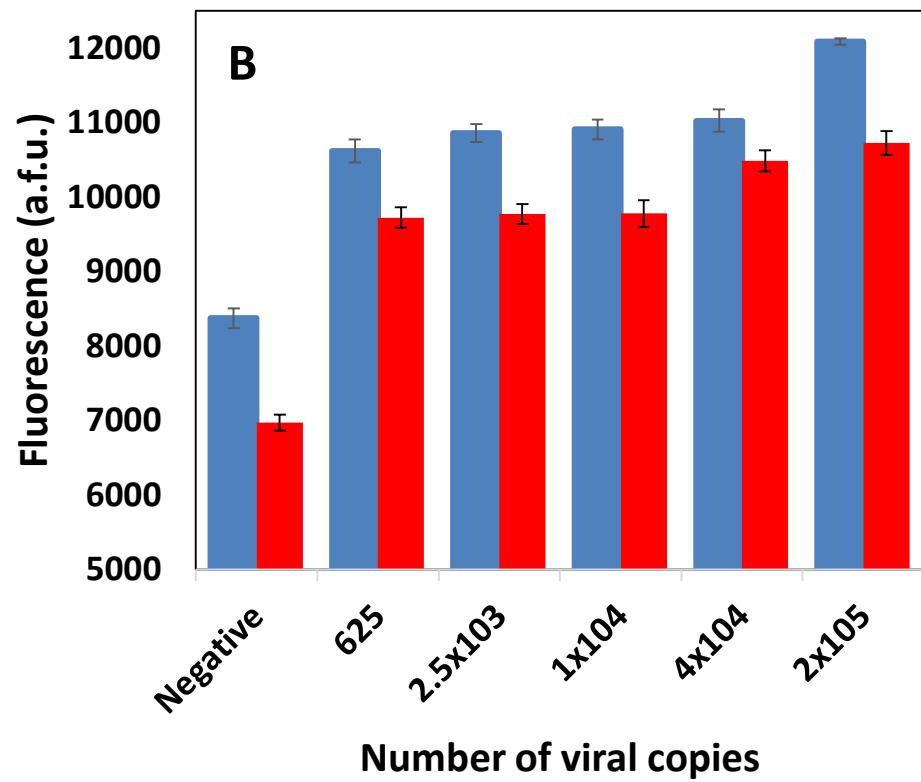


Figure S3



**Figure S4**



**Figure S5**

1 2 3 4 5 6 7 8 9

S1 S2 S3 S4 S6 S8

S5 S7

300 ng/ $\mu$ L

1 2 3 4 5 6 7 8 9

S1 S2 S3 S4 S6 S8

S5 S7

30 ng/ $\mu$ L

**Figure S6**

# Positive Control: 2019-nCoV\_N

Created with SnapGene®

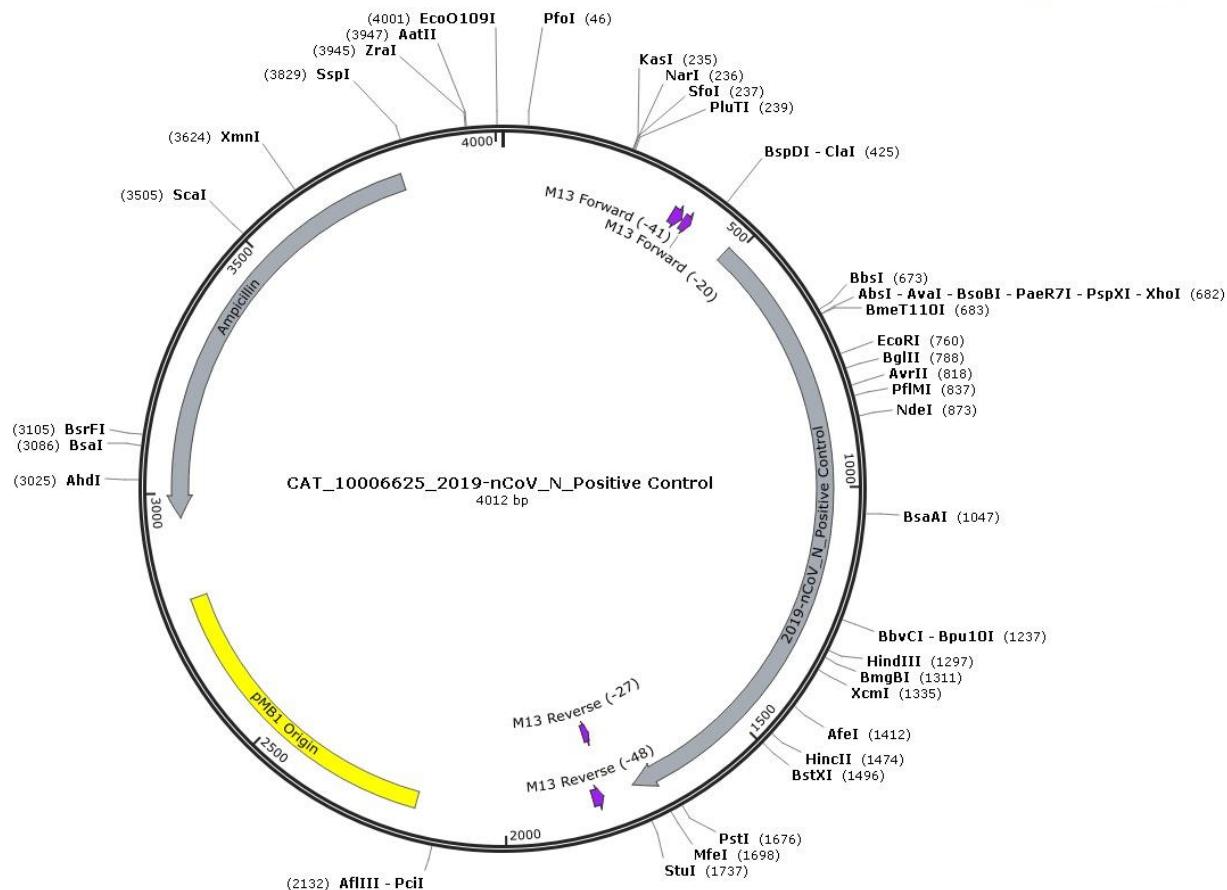


Figure S7