

## Electronic Supplementary Material

### Development of a Novel Reverse Transcription Loop-Mediated Isothermal Amplification Method for Rapid Detection of SARS-CoV-2

Renfei Lu<sup>1#</sup>, Xiuming Wu<sup>2#</sup>, Zhenzhou Wan<sup>3</sup>, Yingxue Li<sup>2</sup>, Lulu Zuo<sup>2</sup>, Jianru Qin<sup>2,4</sup>, Xia Jin<sup>5</sup>, Chiyu Zhang<sup>2✉</sup>

1. Clinical Laboratory, Nantong Third Hospital Affiliated to Nantong University, Nantong 226006, China
2. Pathogen Discovery and Evolution Unit, Institut Pasteur of Shanghai, Chinese Academy of Sciences, Shanghai 200031, China
3. Medical Laboratory of Taizhou Fourth People's Hospital, Taizhou 225300 China
4. College of Life Sciences, Henan Normal University, Xinxiang 453007, China
5. Shanghai Public Health Clinical Center, Fudan University, Jinshan District, Shanghai 201508, China

# These authors contributed equally to this work.

Supporting information to DOI: 10.1007/s12250-020-00218-1

**Supplementary Table S1.** SARS-CoV2 detection in 24 clinical samples by the novel RT-LAMP assay and a commercial RT-qPCR assay.

Clinical diagnosis	Sample No.	The RT-qPCR assay (Liferiver) (82 mins)		The novel RT-LAMP assay (40 mins)
		CT value	Result	
COVID-19	20002088	31.8	+	+
COVID-19	20002374	33.7	+	+
COVID-19	20001949	33	+	+
COVID-19	20002596	31	+	+
COVID-19	20002245	38	+	+
COVID-19	20002007	38	+	+
COVID-19	20002123	40	+	+
COVID-19	20002617	28.8	+	+
COVID-19	20002807	32.3	+	+
COVID-19	20002123	34	+	+
COVID-19	20002428	30.3	+	+
COVID-19	20002403	33	+	+
COVID-19	20002522	38	+	+
COVID-19	20002441	36	+	+
COVID-19	20002156	35	+	+
COVID-19	20002575	32	+	+
COVID-19	20002907	34	+	+
Non-COVID-19	20002750	None	-	-
Non-COVID-19	20002802	None	-	-
Non-COVID-19	20002804	None	-	-
Non-COVID-19	20002806	None	-	-
Non-COVID-19	20002731	None	-	-
Non-COVID-19	20002436	None	-	-
Non-COVID-19	20002708	None	-	-

CT, threshold cycle; “+”, positive for SARS-CoV2; “-“, negative for SARS-CoV2.