We gratefully acknowledge the following Authors from the Originating laboratories responsible for obtaining the specimens, as well as the Submitting laboratories where the genome data were generated and shared via GISAID, on which this research is based.

All Submitters of data may be contacted directly via www.gisaid.org

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Wesley Long, Randall J. Olsen, Paul A. Christensen, David W. Bernard, James J. Davis, Maulik Shukla, Marcus Nguyen, Matthew Oieda Saavedra, see above Houston Methodist Hospital Houston Methodist Hospital

Prasanti Yerramilli, Layne Pruitt, Sishir Subedi, Heather Hendrickson, and James M. Musser

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790560, EPI ISL 790560 EPI ISL 790563, EPI ISL 790564, EPI ISL 790565, EPI ISL 790566

see above Houston Methodist Hospital Houston Methodist Hospital

S. Wesley Long, Randall J. Olsen, Paul A. Christensen, David W. Bernard, James J. Davis, Maulik Shukla, Marcus Nguyen, Matthew Ojeda Saavedra, Prasanti Yerramilli, Lavne Pruitt, Sishir Subedi, Heather Hendrickson, and James M. Musser

EPI\_ISL\_790567, EPI\_ISL\_790568, EPI\_ISL\_790569

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EPI_ISL_791334	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	C. Paul Morris, Chun Huai Luo, Heba H. Mostafa
EPI_ISL_791335	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	C. Paul Morris, Chun Huai Luo, Adannaya Amadi, Nicholas Gallagher, Heba H. Mostafa
EPI_ISL_791336	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	C. Paul Morris, Chun Huai Luo, Heba H. Mostafa
EPI_ISL_791337	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	C. Paul Morris, Chun Huai Luo, Adannaya Amadi, Nicholas Gallagher, Heba H. Mostafa
EPI_ISL_791338	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	C. Paul Morris, Chun Huai Luo, Heba H. Mostafa
EPI_ISL_791339, EPI_ISL_791340	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	C. Paul Morris, Chun Huai Luo, Adannaya Amadi, Nicholas Gallagher, Heba H. Mostafa
EPI_ISL_791341, EPI_ISL_791342, EPI_ISL_791343	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	C. Paul Morris, Chun Huai Luo, Heba H. Mostafa
EPI_ISL_791344	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	C. Paul Morris, Chun Huai Luo, Adannaya Amadi, Nicholas Gallagher, Heba H. Mostafa
EPI_ISL_791345	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	C. Paul Morris, Chun Huai Luo, Heba H. Mostafa
EPI_ISL_791346	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	C. Paul Morris, Chun Huai Luo, Adannaya Amadi, Nicholas Gallagher, Heba H. Mostafa

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Infectious Disease Program, Broad Institute of Harvard and Lemieux, J.E., Siddle, K.J., Shaw, B., Adams, G., Pierce, V., Turbett, S., Anahtar, M., Branda, J., Slater, D., Harris, J., Lin, A.E., Gladden-Young, A., Lagerborg, K., Rudy, M., DeRuff, K., Carter, A., Normandin, E., Bauer, M., Reilly, S., Tomkins-Tinch, C., Loreth, C., Chaluvadi, S., Neumann, A., Cusick, C., Chapman, S.B., Gnirke, A., Flowers, K., Cerrato, F., Birren, B.W., Gallagher, G., Smole, S., Park, D.J., MacInnis, B.L., Ryan, E., LaRocque, R., Rosenberg, E. and Sabeti, P.C.

EPI ISL 792092, EPI ISL 792093. UW Virology Lab UW Virology Lab Pavitra Roychoudhury, Hong Xie, Lasata Shrestha, Meei-Li Huang, Keith R Jerome, Alexander Greninger

EPI ISL 792094, EPI ISL 792095. EPI ISL 792096, EPI ISL 792097. EPI ISL 792098, EPI ISL 792099. EPI ISL 792100

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EPI ISL 792557 Connecticut State Department of Public Health Grubaugh Lab - Yale School of Public Health Joseph Fauver, Tara Alpert, Chantal Vogels, Anderson Brito, Nagariuna Cheemarla, Ellen Foxman, Anthony Muyombwe, Jafar Razeg, Nathan Grubaugh EPI\_ISL\_792558, EPI\_ISL\_792559 Grubaugh Lab - Yale School of Public Health Grubaugh Lab - Yale School of Public Health Joseph Fauver, Tara Alpert, Anderson Brito, Nathan Grubaugh

EPI ISL 792655, EPI ISL 792656, EPI ISL 792656, EPI ISL 792656, EPI ISL 792656, EPI ISL 792666, EPI ISL 792666, EPI ISL 792667, EPI ISL 792668, EPI ISL 792669, EPI ISL 792669 EPI\_ISL\_792673, EPI\_ISL\_792674, EPI\_ISL\_792675, EPI\_ISL\_792676, EPI\_ISL\_792677, EPI\_ISL\_792678

see ahove Los Angeles County PHL Los Angeles County PHL P. Hemarajata et al. EPI ISL 792679 Olive View Medical Center Los Angeles County PHL P. Hemarajata et al.

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Kirsten St. George, Daryl M. Lamson, Alexis Russel, Matthew Shudt, Melissa A Leisner, Jonathan Plitnick, Naviot Singh, John Kelly, Sara Griesemer, see above Wadsworth Center, New York State Department of Health Wadsworth Center, New York State Department of Health Frasmus Schneider, Frica Lasek-Nesselquist

EPI ISL 794083, EPI ISL 794084, EPI ISL 794084, EPI ISL 794086, EPI ISL 794086, EPI ISL 794088, EPI ISL 794090, EPI ISL 794099, EPI ISL 794099, EPI ISL 794099, EPI ISL 794099, EPI ISL 794098, EPI ISL 794099, EPI ISL 794099 EPI ISL 794101, EPI ISL 794102, EPI ISL 794103, EPI ISL 794104, EPI ISL 794105, EPI ISL 794106

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EPI ISL 794107, EPI ISL 794108, EPI ISL 794109, EPI ISL 794109, EPI ISL 794110, EPI ISL 794111, EPI ISL 794112, EPI ISL 794113, EPI ISL 794114, EPI ISL 794115, EPI ISL 794116, EPI ISL 794117, EPI ISL 794118

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EPI\_ISL\_794182, EPI\_ISL\_794183, EPI\_ISL\_794183, EPI\_ISL\_794184, EPI\_ISL\_794185, EPI\_ISL\_794186, EPI\_ISL\_794186, EPI\_ISL\_794196, EPI\_ISL\_794197, EPI\_ISL\_794199, EPI\_ISL\_794199, EPI\_ISL\_794197, EPI\_ISL\_794197, EPI\_ISL\_794197, EPI\_ISL\_794197, EPI\_ISL\_794198, EPI\_ISL\_794197, EPI\_ISL\_794197 EPI\_ISL\_794200, EPI\_ISL\_794201, EPI\_ISL\_794202, EPI\_ISL\_794203, EPI\_ISL\_794204, EPI\_ISL\_794205

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EPI\_ISL\_794303, EPI\_ISL\_794303, EPI\_ISL\_794303, EPI\_ISL\_794305, EPI\_ISL\_794306, EPI\_ISL\_794307

see above Columbia University Irving Medical Center Wadsworth Center, New York State Department of Health Kirsten St. George, Daryl M. Lamson, Alexis Russel, Matthew Shudt, Melissa A Leisner, Jonathan Plitnick, Navjot Singh, John Kelly, Sara Griesemer,

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see above Wadsworth Center, New York State Department.of Health Wadsworth Center, New York State Department.of Health Kirsten St. George, Daryl M. Lamson, Alexis Russel, Matthew Shudt, Melissa A Leisner, Jonathan Plitnick, Navjot Singh, John Kelly, Sara Griesemer, Erasmus Schneider. Erica Lasek-Nesselouist

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