

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.

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EPI_ISL_1025990, EPI_ISL_1026001, EPI_ISL_1027675, EPI_ISL_1027699, EPI_ISL_1027700, EPI_ISL_1027704, EPI_ISL_1027710, EPI_ISL_1027741, EPI_ISL_1027743, EPI_ISL_1027744, EPI_ISL_1027748, EPI_ISL_1027760, EPI_ISL_1027792, EPI_ISL_1027798, EPI_ISL_1027799, EPI_ISL_1027815, EPI_ISL_1027816, EPI_ISL_1027873, EPI_ISL_1027880, EPI_ISL_1027883, EPI_ISL_1029071, EPI_ISL_1029073, EPI_ISL_1029275, EPI_ISL_1029276, EPI_ISL_1029334, EPI_ISL_1029352, EPI_ISL_1029353, EPI_ISL_1029354, EPI_ISL_1029356, EPI_ISL_1029357, EPI_ISL_1029358, EPI_ISL_1029359, EPI_ISL_1029360, EPI_ISL_1029361, EPI_ISL_1029362, EPI_ISL_1029363, EPI_ISL_1029364, EPI_ISL_1029365, EPI_ISL_1029366, EPI_ISL_1029367, EPI_ISL_1029368, EPI_ISL_1029369, EPI_ISL_1029370, EPI_ISL_1029371, EPI_ISL_1029372, EPI_ISL_1029373, EPI_ISL_1029374, EPI_ISL_1029375, EPI_ISL_1029376, EPI_ISL_1029377, EPI_ISL_1029378, EPI_ISL_1029379, EPI_ISL_1029380, EPI_ISL_1029381, EPI_ISL_1029382, EPI_ISL_1029383, EPI_ISL_1029384, EPI_ISL_1029385, EPI_ISL_1029386, EPI_ISL_1029387, EPI_ISL_1029388, EPI_ISL_1029389, EPI_ISL_1029390, EPI_ISL_1029391, EPI_ISL_1029392, EPI_ISL_1029393, EPI_ISL_1029394, EPI_ISL_1029395, EPI_ISL_1029400, EPI_ISL_1029427, EPI_ISL_1029428, EPI_ISL_1029445, EPI_ISL_1029446, EPI_ISL_1029447, EPI_ISL_1029448, EPI_ISL_1029449, EPI_ISL_1029450, EPI_ISL_1029451, EPI_ISL_1029452, EPI_ISL_1029453, EPI_ISL_1029454, EPI_ISL_1029455, EPI_ISL_1029456, EPI_ISL_1029457, EPI_ISL_1029458, EPI_ISL_1029459, EPI_ISL_1029460, EPI_ISL_1029461, EPI_ISL_1029462, EPI_ISL_1029463, EPI_ISL_1029464, EPI_ISL_1029465, EPI_ISL_1029597, EPI_ISL_1029598, EPI_ISL_1029599, EPI_ISL_1029600, EPI_ISL_1029601, EPI_ISL_1029602, EPI_ISL_1029605, EPI_ISL_1029695, EPI_ISL_1029696, EPI_ISL_1029697, EPI_ISL_1029698, EPI_ISL_1029699, EPI_ISL_1029700, EPI_ISL_1029701, EPI_ISL_1029702, EPI_ISL_1029703, EPI_ISL_1029704, EPI_ISL_1029705, EPI_ISL_1029706, EPI_ISL_1029707, EPI_ISL_1029708, EPI_ISL_1029709, EPI_ISL_1029710, EPI_ISL_1029711, EPI_ISL_1029713, EPI_ISL_1029714, EPI_ISL_1029715, EPI_ISL_1029716, EPI_ISL_1029717, EPI_ISL_1029718, EPI_ISL_1029719, EPI_ISL_1029742, EPI_ISL_1029929, EPI_ISL_1029930, EPI_ISL_1029931, EPI_ISL_1029932, EPI_ISL_1029933	see above	Laboratory Corporation of America	Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Peter W. Cook, Dakota Howard, Dhwani Batra, Ben L. Rambo-Martin, Clinton R. Paden, Suxiang Tong, Duncan MacCannell
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EPI_ISL_1503921, EPI_ISL_1503923, EPI_ISL_1503924, EPI_ISL_1503925, EPI_ISL_1503926, EPI_ISL_1503927, EPI_ISL_1503928, EPI_ISL_1503929, EPI_ISL_1503930, EPI_ISL_1503931, EPI_ISL_1503932, EPI_ISL_1503933, EPI_ISL_1503934, EPI_ISL_1503935, EPI_ISL_1503936, EPI_ISL_1503937, EPI_ISL_1503939, EPI_ISL_1503940, EPI_ISL_1503941, EPI_ISL_1503942, EPI_ISL_1503943, EPI_ISL_1503944, EPI_ISL_1503945, EPI_ISL_1503946, EPI_ISL_1503947, EPI_ISL_1503948, EPI_ISL_1503949, EPI_ISL_1503950, EPI_ISL_1503951, EPI_ISL_1503952, EPI_ISL_1503953, EPI_ISL_1503954	see above	Grady Memorial Hospital, Clinical Microbiology Laboratory	Piantadosi Lab, Emory Department of Pathology	Yun F (Wayne) Wang, Anne Piantadosi
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EPI_ISL_886213, EPI_ISL_886251, EPI_ISL_886288, EPI_ISL_886306, EPI_ISL_886397, EPI_ISL_886398, EPI_ISL_886413, EPI_ISL_886523, EPI_ISL_886690, EPI_ISL_886803, EPI_ISL_886891, EPI_ISL_886973, EPI_ISL_887592, EPI_ISL_887610, EPI_ISL_887625, EPI_ISL_887627, EPI_ISL_887635, EPI_ISL_887636, EPI_ISL_887640, EPI_ISL_887642, EPI_ISL_887643, EPI_ISL_887659, EPI_ISL_887673, EPI_ISL_887683, EPI_ISL_887684, EPI_ISL_887693, EPI_ISL_887708, EPI_ISL_887709, EPI_ISL_887720, EPI_ISL_887721, EPI_ISL_887892, EPI_ISL_887898, EPI_ISL_887899, EPI_ISL_887924, EPI_ISL_887927, EPI_ISL_887929, EPI_ISL_887932, EPI_ISL_887938, EPI_ISL_887956, EPI_ISL_887964, EPI_ISL_887979, EPI_ISL_888002, EPI_ISL_888003, EPI_ISL_888008, EPI_ISL_888010, EPI_ISL_888013, EPI_ISL_888105, EPI_ISL_888106, EPI_ISL_888110, EPI_ISL_888124, EPI_ISL_888126, EPI_ISL_888130, EPI_ISL_888131, EPI_ISL_888132, EPI_ISL_888143, EPI_ISL_888148, EPI_ISL_888158, EPI_ISL_888165, EPI_ISL_888170, EPI_ISL_888179, EPI_ISL_888182, EPI_ISL_888184, EPI_ISL_888185, EPI_ISL_888194, EPI_ISL_888195, EPI_ISL_888200, EPI_ISL_888201, EPI_ISL_888202, EPI_ISL_888208, EPI_ISL_888218, EPI_ISL_888247, EPI_ISL_888253, EPI_ISL_888260, EPI_ISL_888262, EPI_ISL_888266, EPI_ISL_888270, EPI_ISL_888275, EPI_ISL_888282, EPI_ISL_888313, EPI_ISL_888327, EPI_ISL_888329, EPI_ISL_888337, EPI_ISL_888360, EPI_ISL_888384, EPI_ISL_888385, EPI_ISL_888386, EPI_ISL_888387, EPI_ISL_888389, EPI_ISL_888394, EPI_ISL_888406, EPI_ISL_888408, EPI_ISL_888410, EPI_ISL_888412, EPI_ISL_888417, EPI_ISL_888421, EPI_ISL_888431, EPI_ISL_888466, EPI_ISL_888510, EPI_ISL_888528, EPI_ISL_888574	see above	Labcorp	Genomics and Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Peter W. Cook, Dhwani Batra, Ben L. Rambo-Martin, Summer Galloway, Brian Krueger, Minoo Agarwal, Eyad Almasri, Debbie Boles, Ayla Burns, Nuthawin Charoensri, Oren Cohen, Susan Countryman, Mary Ann Cristobal, Bobbi Croy, Suzanne Dale, Hrushikesh Deshmukh, Amanda Douglas, Vincent Drouillon, Marcia Eisenberg, Howard Engler, Rama Ghatti, Prashant Gupta, Susan Hicks, Jake Humphrey, Lax Iyer, Manoj Jain, Mohan Kolli, Tim Kuphal, Stanley Letovsky, Michael Levandoski, Craig Lukasik, Jonathan Meltzer, Brian Norvell, Mindy Nye, Scott Parker, Christos Petropoulos, John Pruitt, Steven Ragan, Scott Ryan, Mike Sapeta, Jana Schroth, Suresh Babu Selvaraju, Goran Stevovic, Amanda Suchanek, Andrea Throop, Lyndon Tilson, Thomas Urban, Joe Voshell, Kimberly Wagner, Jonathan Williams, Mary Williamson, Qian Zeng, Tricia Zwiefelhofer, Clinton R. Paden, Suxiang Tong, Duncan MacCannell,
EPI_ISL_903670, EPI_ISL_903685	GA Department of Public Health Laboratory	Genomics and Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Krista Queen, Yan Li, Ying Tao, Jing Zhang, Anna Uehara, Anna Montmayeur, Clinton R. Paden, Peter W. Cook, Rachel Marine, Mili Sheth, Jasmine Padilla, Sarah Nobles, Mark Burroughs, Lori Rowe, Haibin Wang, Ben L. Rambo-Martin, Dhwani Batra, Justin Lee, Suxiang Tong	
EPI_ISL_914000, EPI_ISL_914001, EPI_ISL_914002	Quest Diagnostics Tucker GA	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Ying Tao, Yan Li, Jing Zhang, Krista Queen, Anna Uehara, Peter Cook, Clinton R. Paden, Haibin Wang, Suxiang Tong	
EPI_ISL_955277, EPI_ISL_955329, EPI_ISL_955330, EPI_ISL_955334, EPI_ISL_955335	GA Department of Public Health Laboratory	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Ying Tao, Jing Zhang, Yan Li, Krista Queen, Anna Uehara, Peter Cook, Clinton R. Paden, Haibin Wang, Suxiang Tong	
EPI_ISL_965841, EPI_ISL_965842, EPI_ISL_965843, EPI_ISL_965844, EPI_ISL_965845, EPI_ISL_965846, EPI_ISL_965853, EPI_ISL_965854	GA Department of Public Health	GA Department of Public Health	Stacy Reeves, Jonathan Edwards, Cynthia Dixey, Tonia Parrott	
EPI_ISL_966544, EPI_ISL_966546, EPI_ISL_967262, EPI_ISL_967265, EPI_ISL_967283, EPI_ISL_967289, EPI_ISL_967292, EPI_ISL_978627, EPI_ISL_978668, EPI_ISL_978681, EPI_ISL_978744, EPI_ISL_978756, EPI_ISL_978759, EPI_ISL_978770, EPI_ISL_978772, EPI_ISL_978786	see above	Helix/Illumina	Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Peter W. Cook, Dakota Howard, Dhwani Batra, Ben L. Rambo-Martin, Eileen de Feo, Jan Antico, Christine Tran, Matthew Tolentino, Shannon Wickline, Kim Gietzen, Brad Sickler, Jingtao Liu, Eric Allen, Phil Febbo, Summer Galloway, Nicole L. Washington, Simon White, Geraint Levan, Kelly Schiabor Barrett, Elizabeth Cirulli, Alexandre Bolze, Ary Ascencio, Charlotte Rivera-Garcia, Ryan Cho, Jason Nguyen, Sherry Wang, Jimmy Ramirez, Tyler Cassens, Efrén Sandoval, Magnus Isaksson, William Lee, David Becker, Marc Laurent, James Lu, Clinton R. Paden, Suxiang Tong, Duncan MacCannell,
EPI_ISL_982527, EPI_ISL_982556, EPI_ISL_982565, EPI_ISL_982568, EPI_ISL_982572, EPI_ISL_982577, EPI_ISL_982638, EPI_ISL_982639, EPI_ISL_982640, EPI_ISL_982641, EPI_ISL_982642, EPI_ISL_982681, EPI_ISL_982682, EPI_ISL_982742, EPI_ISL_982750, EPI_ISL_982751, EPI_ISL_982752, EPI_ISL_982753	see above	US Air Force School of Aerospace Medicine	US Air Force School of Aerospace Medicine	Anthony Fries, Jennifer Meyer, William Gruner, William Buggele, Amanda Javorina, Sarah Purves, Clarise Starr, Elizabeth Macias