

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](http://www.gisaid.org)

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EPI_ISL_765574, EPI_ISL_765575, EPI_ISL_765576, EPI_ISL_765577, EPI_ISL_765578, EPI_ISL_765579, EPI_ISL_765580, EPI_ISL_765581, EPI_ISL_765582	Colorado Mesa University	Infectious Disease Program, Broad Institute of Harvard and MIT	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.
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see above	Brigham and Womens Hospital	Infectious Disease Program, Broad Institute of Harvard and MIT	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.
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see above	Massachusetts General Hospital	Infectious Disease Program, Broad Institute of Harvard and MIT	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_765818, EPI_ISL_765819, EPI_ISL_765820, EPI_ISL_765821, EPI_ISL_765822, EPI_ISL_765823	North Shore Medical Center	Infectious Disease Program, Broad Institute of Harvard and MIT	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.
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see above	Massachusetts General Hospital	Infectious Disease Program, Broad Institute of Harvard and MIT	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.
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see above	TXDSHS	TXDSHS	Rashmi Tuladhar, Bonnie Oh, Jenny Zhang, Maliha Rahman, Anita Pokharel, Myong Koag, Chung Wang, Rachel Lee, Grace Kubin, Mayela Pedrueza, James Daniel Bonser
EPI_ISL_765942, EPI_ISL_765943, EPI_ISL_765944, EPI_ISL_765945, EPI_ISL_765946, EPI_ISL_765947, EPI_ISL_765948, EPI_ISL_765949, EPI_ISL_765950, EPI_ISL_765951, EPI_ISL_765952, EPI_ISL_765953, EPI_ISL_765954, EPI_ISL_765955, EPI_ISL_765956, EPI_ISL_765957, EPI_ISL_765958, EPI_ISL_765959			
see above	Worobey Lab, Department of Ecology and Evolutionary Biology, University of Arizona	Worobey Lab, Department of Ecology and Evolutionary Biology, University of Arizona	Brendan Larsen, Grace Quirk, Thomas Watts, David Baltrus, Michael Worobey
EPI_ISL_765960, EPI_ISL_765961, EPI_ISL_765962, EPI_ISL_765963, EPI_ISL_765964, EPI_ISL_765965, EPI_ISL_765966, EPI_ISL_765967, EPI_ISL_765968, EPI_ISL_765969, EPI_ISL_765970, EPI_ISL_765971, EPI_ISL_765972, EPI_ISL_765973, EPI_ISL_765974, EPI_ISL_765975, EPI_ISL_765976, EPI_ISL_765977, EPI_ISL_765978, EPI_ISL_765979, EPI_ISL_765980, EPI_ISL_765981, EPI_ISL_765982, EPI_ISL_765983, EPI_ISL_765984, EPI_ISL_765985, EPI_ISL_765986, EPI_ISL_765987, EPI_ISL_765988, EPI_ISL_765989, EPI_ISL_765990, EPI_ISL_765991, EPI_ISL_765992, EPI_ISL_765993, EPI_ISL_765994, EPI_ISL_765995, EPI_ISL_765996, EPI_ISL_765997, EPI_ISL_765998, EPI_ISL_765999			

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see above	Wyoming Public Health Laboratory	Wyoming Public Health Laboratory	Noah Hull, Taylor Fearing, Channing Weber, Ashley Norberg, Bailey Bowcutt, and Wanda Manley
EPI_ISL_765986	Massachusetts General Hospital	Infectious Disease Program, Broad Institute of Harvard and MIT	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.
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EPI_ISL_765994, EPI_ISL_765995, EPI_ISL_765996, EPI_ISL_765997	USC Clinical Lab	Los Angeles County PHL	P. Hemarajata et al.
EPI_ISL_765998, EPI_ISL_765999, EPI_ISL_766000, EPI_ISL_766001, EPI_ISL_766002, EPI_ISL_766003, EPI_ISL_766004, EPI_ISL_766005, EPI_ISL_766006, EPI_ISL_766007, EPI_ISL_766008, EPI_ISL_766009, EPI_ISL_766010, EPI_ISL_766011, EPI_ISL_766012, EPI_ISL_766013, EPI_ISL_766014			
see above	Los Angeles County PHL	Los Angeles County PHL	P. Hemarajata et al.
EPI_ISL_766015	USC Clinical Lab	Los Angeles County PHL	P. Hemarajata et al.
EPI_ISL_766646, EPI_ISL_766647, EPI_ISL_766648, EPI_ISL_766649, EPI_ISL_766650, EPI_ISL_766651, EPI_ISL_766652, EPI_ISL_766653, EPI_ISL_766654, EPI_ISL_766655, EPI_ISL_766656, EPI_ISL_766657, EPI_ISL_766658, EPI_ISL_766659, EPI_ISL_766660, EPI_ISL_766661, EPI_ISL_766662, EPI_ISL_766663, EPI_ISL_766664, EPI_ISL_766665, EPI_ISL_766666, EPI_ISL_766667, EPI_ISL_766668, EPI_ISL_766669, EPI_ISL_766670, EPI_ISL_766671, EPI_ISL_766672, EPI_ISL_766673, EPI_ISL_766674, EPI_ISL_766675, EPI_ISL_766676, EPI_ISL_766677, EPI_ISL_766678, EPI_ISL_766679, EPI_ISL_766680, EPI_ISL_766681, EPI_ISL_766682, EPI_ISL_766683, EPI_ISL_766684, EPI_ISL_766685, EPI_ISL_766686, EPI_ISL_766687, EPI_ISL_766688, EPI_ISL_766689, EPI_ISL_766690, EPI_ISL_766691, EPI_ISL_766692, EPI_ISL_766693, EPI_ISL_766694, EPI_ISL_766695, EPI_ISL_766696, EPI_ISL_766697, EPI_ISL_766698, EPI_ISL_766699, EPI_ISL_766700, EPI_ISL_766701, EPI_ISL_766702, EPI_ISL_766703, EPI_ISL_766704, EPI_ISL_766705, EPI_ISL_766706, EPI_ISL_766707, EPI_ISL_766708, EPI_ISL_766709, EPI_ISL_766710, EPI_ISL_766711, EPI_ISL_766712, EPI_ISL_766713, EPI_ISL_766714, EPI_ISL_766715, EPI_ISL_766716, EPI_ISL_766717, EPI_ISL_766718, EPI_ISL_766719, EPI_ISL_766720, EPI_ISL_766721, EPI_ISL_766722, EPI_ISL_766723, EPI_ISL_766724, EPI_ISL_766725, EPI_ISL_766726, EPI_ISL_766727, EPI_ISL_766728, EPI_ISL_766729, EPI_ISL_766730, EPI_ISL_766731, EPI_ISL_766732, EPI_ISL_766733, EPI_ISL_766734, EPI_ISL_766735, EPI_ISL_766736, EPI_ISL_766737, EPI_ISL_766738, EPI_ISL_766739, EPI_ISL_766740, EPI_ISL_766741, EPI_ISL_766742, EPI_ISL_766743, EPI_ISL_766744, EPI_ISL_766745, EPI_ISL_766746, EPI_ISL_766747, EPI_ISL_766748, EPI_ISL_766749, EPI_ISL_766750, EPI_ISL_766751, EPI_ISL_766752, EPI_ISL_766753, EPI_ISL_766754, EPI_ISL_766755, EPI_ISL_766756, EPI_ISL_766757, EPI_ISL_766758, EPI_ISL_766759, EPI_ISL_766760, EPI_ISL_766761, EPI_ISL_766762, EPI_ISL_766763, EPI_ISL_766764, EPI_ISL_766765, EPI_ISL_766766, EPI_ISL_766767, EPI_ISL_766768, EPI_ISL_766769, EPI_ISL_766770, EPI_ISL_766771, EPI_ISL_766772, EPI_ISL_766773			
see above	Texas Department of State Health Services	Texas Department of State Health Services	Rashmi Tuladhar, Bonnie Oh, Jenny Zhang, Maliha Rahman, Anita Pokharel, Myong Koag, Chung Wang, Rachel Lee, Grace Kubin, Mayela Pedrueza, James Daniel Bonser
EPI_ISL_766775, EPI_ISL_766776, EPI_ISL_766777, EPI_ISL_766778, EPI_ISL_766779, EPI_ISL_766780, EPI_ISL_766781, EPI_ISL_766782, EPI_ISL_766783, EPI_ISL_766784, EPI_ISL_766785, EPI_ISL_766786, EPI_ISL_766787, EPI_ISL_766788, EPI_ISL_766789, EPI_ISL_766790			
see above	Wyoming Public Health Laboratory	Wyoming Public Health Laboratory	Noah Hull, Taylor Fearing, Channing Weber, Ashley Norberg, Bailey Bowcutt, and Wanda Manley
EPI_ISL_766877, EPI_ISL_766878, EPI_ISL_766879, EPI_ISL_766880, EPI_ISL_766881, EPI_ISL_766882	Wyoming Public Health Laboratory	Wyoming Public Health Laboratory	Noah Hull, Taylor Fearing, Lynette Gumbleton, Channing Weber, Ashley Norberg, Bailey Bowcutt, and Wanda Manley
EPI_ISL_766883, EPI_ISL_766884, EPI_ISL_766885, EPI_ISL_766886, EPI_ISL_766887, EPI_ISL_766888, EPI_ISL_766889, EPI_ISL_766890, EPI_ISL_766891, EPI_ISL_766892, EPI_ISL_766893, EPI_ISL_766894, EPI_ISL_766895, EPI_ISL_766896, EPI_ISL_766897, EPI_ISL_766898, EPI_ISL_766899, EPI_ISL_766900, EPI_ISL_766901, EPI_ISL_766902, EPI_ISL_766903, EPI_ISL_766904, EPI_ISL_766905, EPI_ISL_766906, EPI_ISL_766907, EPI_ISL_766908, EPI_ISL_766909, EPI_ISL_766910, EPI_ISL_766911, EPI_ISL_766912, EPI_ISL_766913, EPI_ISL_766914, EPI_ISL_766915, EPI_ISL_766916, EPI_ISL_766917, EPI_ISL_766918, EPI_ISL_766919, EPI_ISL_766920, EPI_ISL_766921, EPI_ISL_766922, EPI_ISL_766923			
see above	New Mexico Department of Health Scientific Laboratory	New Mexico Department of Health Scientific Laboratory	D'eldra Malone, Ellie Johnson, Anastacia Griego-Fisher
EPI_ISL_766938	Nevada State Health Lab	Nevada State Health Lab	Andrew Gorzalski
EPI_ISL_766971, EPI_ISL_766972, EPI_ISL_766973, EPI_ISL_766974, EPI_ISL_766975, EPI_ISL_766976, EPI_ISL_766977, EPI_ISL_766978, EPI_ISL_766979, EPI_ISL_766980, EPI_ISL_766981, EPI_ISL_766982, EPI_ISL_766983, EPI_ISL_766984, EPI_ISL_766985, EPI_ISL_766986, EPI_ISL_766987, EPI_ISL_766988, EPI_ISL_766989, EPI_ISL_766990, EPI_ISL_766991, EPI_ISL_766992, EPI_ISL_766993, EPI_ISL_766994, EPI_ISL_766995, EPI_ISL_766996, EPI_ISL_766997, EPI_ISL_766998, EPI_ISL_766999, EPI_ISL_767000, EPI_ISL_767001, EPI_ISL_767002, EPI_ISL_767003, EPI_ISL_767004, EPI_ISL_767005, EPI_ISL_767006, EPI_ISL_767007, EPI_ISL_767008, EPI_ISL_767009, EPI_ISL_767010, EPI_ISL_767011, EPI_ISL_767012			
see above	Delaware Public Health Laboratory	Delaware Public Health Laboratory	Gregory Hovan
EPI_ISL_767044, EPI_ISL_767045, EPI_ISL_767046, EPI_ISL_767047, EPI_ISL_767048, EPI_ISL_767049, EPI_ISL_767050, EPI_ISL_767051, EPI_ISL_767052, EPI_ISL_767053, EPI_ISL_767054, EPI_ISL_767055, EPI_ISL_767056, EPI_ISL_767057, EPI_ISL_767058, EPI_ISL_767059, EPI_ISL_767060, EPI_ISL_767061, EPI_ISL_767062, EPI_ISL_767063, EPI_ISL_767064, EPI_ISL_767065, EPI_ISL_767066, EPI_ISL_767067, EPI_ISL_767068, EPI_ISL_767069, EPI_ISL_767070, EPI_ISL_767071, EPI_ISL_767072, EPI_ISL_767073, EPI_ISL_767074, EPI_ISL_767075, EPI_ISL_767076, EPI_ISL_767077, EPI_ISL_767078, EPI_ISL_767079, EPI_ISL_767080, EPI_ISL_767081, EPI_ISL_767082, EPI_ISL_767083, EPI_ISL_767084, EPI_ISL_767085, EPI_ISL_767086, EPI_ISL_767087, EPI_ISL_767088			
see above	New Mexico Department of Health Scientific Laboratory	New Mexico Department of Health Scientific Laboratory	D'eldra Malone, Ellie Johnson, Anastacia Griego-Fisher
EPI_ISL_767344, EPI_ISL_767345, EPI_ISL_767346, EPI_ISL_767347, EPI_ISL_767348, EPI_ISL_767349, EPI_ISL_767350, EPI_ISL_767351, EPI_ISL_767352, EPI_ISL_767353, EPI_ISL_767354, EPI_ISL_767355, EPI_ISL_767356, EPI_ISL_767357, EPI_ISL_767358, EPI_ISL_767359, EPI_ISL_767360, EPI_ISL_767361			
see above	Michigan Department of Health and Human Services, Bureau of Laboratories	Michigan Department of Health and Human Services, Bureau of Laboratories	Blankenship HM, Riner D, Soehnlenn MK
EPI_ISL_767404, EPI_ISL_767405, EPI_ISL_767407, EPI_ISL_767408	Ochsner Health	BiolInfo Experts, LLC	Rebecca Rose, Amy Feehan, David J. Nolan, Sissy Cross, David Moraga Amador, Tong Yang, Luke Caruso, Wayra Navia, Lydia Von Borstel, Xiao Hui Zhou, Julia-Garcia-Diaz, Susanna L. Lamers
EPI_ISL_767416	Florida Bureau of Public Health Laboratories	Florida Bureau of Public Health Laboratories	Sarah Schmedes, Jason Blanton
EPI_ISL_767417	URMC LABS	Wadsworth Center, New York State Department.of Health	Kirsten St. George, Daryl M. Lamson, Alexis Russel, Matthew Shudt, Melissa A Leisner, Jonathan Pitnick, Navjot Singh, John Kelly, Sara Griesemer, Erasmus Schneider, Erica Lasek-Nesselquist
EPI_ISL_767418	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 Pitnick, Navjot Singh, John Kelly, Sara Griesemer, Erasmus Schneider, Erica Lasek-Nesselquist
EPI_ISL_767419	URMC LABS	Wadsworth Center, New York State Department.of Health	Kirsten St. George, Daryl M. Lamson, Alexis Russel, Matthew Shudt, Melissa A Leisner, Jonathan Pitnick, Navjot Singh, John Kelly, Sara Griesemer, Erasmus Schneider, Erica Lasek-Nesselquist
EPI_ISL_767420, EPI_ISL_767421, EPI_ISL_767422	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 Pitnick, Navjot Singh, John Kelly, Sara Griesemer, Erasmus Schneider, Erica Lasek-Nesselquist
EPI_ISL_767423, EPI_ISL_767424	URMC LABS	Wadsworth Center, New York State Department.of Health	Kirsten St. George, Daryl M. Lamson, Alexis Russel, Matthew Shudt, Melissa A Leisner, Jonathan Pitnick, Navjot Singh, John Kelly, Sara Griesemer, Erasmus Schneider, Erica Lasek-Nesselquist
EPI_ISL_767425, EPI_ISL_767426, EPI_ISL_767427, EPI_ISL_767428, EPI_ISL_767429, EPI_ISL_767430, EPI_ISL_767431, EPI_ISL_767432, EPI_ISL_767433, EPI_ISL_767434, EPI_ISL_767435, EPI_ISL_767436, EPI_ISL_767437, EPI_ISL_767438, EPI_ISL_767439, EPI_ISL_767440, EPI_ISL_767441, EPI_ISL_767442, EPI_ISL_767443, EPI_ISL_767444, EPI_ISL_767445, EPI_ISL_767446, EPI_ISL_767447, EPI_ISL_767448, EPI_ISL_767449, EPI_ISL_767450, EPI_ISL_767451, EPI_ISL_767452, EPI_ISL_767453, EPI_ISL_767454, EPI_ISL_767455, EPI_ISL_767456, EPI_ISL_767457, EPI_ISL_767458, EPI_ISL_767459, EPI_ISL_767460, EPI_ISL_767461, EPI_ISL_767462, EPI_ISL_767463, EPI_ISL_767464, EPI_ISL_767465, EPI_ISL_767466, EPI_ISL_767467, EPI_ISL_767468, EPI_ISL_767469, EPI_ISL_767470, EPI_ISL_767471, EPI_ISL_767472, EPI_ISL_767473, EPI_ISL_767474, EPI_ISL_767475, EPI_ISL_767476, EPI_ISL_767477, EPI_ISL_767478, EPI_ISL_767479, EPI_ISL_767480, EPI_ISL_767481, EPI_ISL_767482, EPI_ISL_767483, EPI_ISL_767484, EPI_ISL_767485, EPI_ISL_767486, EPI_ISL_767487, EPI_ISL_767488, EPI_ISL_767489, EPI_ISL_767490, EPI_ISL_767491, EPI_ISL_767492, EPI_ISL_767493, EPI_ISL_767494, EPI_ISL_767495, EPI_ISL_767496, EPI_ISL_767497, EPI_ISL_767498, EPI_ISL_767499, EPI_ISL_767500, EPI_ISL_767501, EPI_ISL_767502, EPI_ISL_767503, EPI_ISL_767504, EPI_ISL_767505, EPI_ISL_767506, EPI_ISL_767507, EPI_ISL_767508, EPI_ISL_767509, EPI_ISL_767510, EPI_ISL_767511, EPI_ISL_767512, EPI_ISL_767513, EPI_ISL_767514, EPI_ISL_767515, EPI_ISL_767516, EPI_ISL_767517, EPI_ISL_767518, EPI_ISL_767519, EPI_ISL_767520, EPI_ISL_767521, EPI_ISL_767522, EPI_ISL_767523, EPI_ISL_767524, EPI_ISL_767525, EPI_ISL_767526, EPI_ISL_767527, EPI_ISL_767528, EPI_ISL_767529, EPI_ISL_767530, EPI_ISL_767531, EPI_ISL_767532, EPI_ISL_767533, EPI_ISL_767534, EPI_ISL_767535, EPI_ISL_767536, EPI_ISL_767537			
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 Pitnick, Navjot Singh, John Kelly, Sara Griesemer, Erasmus Schneider, Erica Lasek-Nesselquist
EPI_ISL_767538, EPI_ISL_767539, EPI_ISL_767540, EPI_ISL_767541, EPI_ISL_767542, EPI_ISL_767543, EPI_ISL_767544, EPI_ISL_767545, EPI_ISL_767546, EPI_ISL_767547, EPI_ISL_767548, EPI_ISL_767549, EPI_ISL_767550, EPI_ISL_767551, EPI_ISL_767552, EPI_ISL_767553, EPI_ISL_767554, EPI_ISL_767555, EPI_ISL_767556, EPI_ISL_767557, EPI_ISL_767558, EPI_ISL_767559, EPI_ISL_767560, EPI_ISL_767561, EPI_ISL_767562, EPI_ISL_767563, EPI_ISL_767564, EPI_ISL_767565, EPI_ISL_767566, EPI_ISL_767567, EPI_ISL_767568, EPI_ISL_767569, EPI_ISL_767570, EPI_ISL_767571, EPI_ISL_767572, EPI_ISL_767573, EPI_ISL_767574, EPI_ISL_767575, EPI_ISL_767576, EPI_ISL_767577			
see above	URMC LABS	Wadsworth Center, New York State Department.of Health	Kirsten St. George, Daryl M. Lamson, Alexis Russel, Matthew Shudt, Melissa A Leisner, Jonathan Pitnick, Navjot Singh, John Kelly, Sara Griesemer, Erasmus Schneider, Erica Lasek-Nesselquist
EPI_ISL_767578	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 Pitnick, Navjot Singh, John Kelly, Sara Griesemer, Erasmus Schneider, Erica Lasek-Nesselquist

[illegible]

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see above		Wyoming Public Health Laboratory	Wyoming Public Health Laboratory	Noah Hull, Taylor Fearing, Lynette Gumbleton, Channing Weber, Ashley Norberg, Bailey Bowcutt, and Wanda Manley
EPI_ISL_769916, EPI_ISL_769917, EPI_ISL_769918, EPI_ISL_769919, EPI_ISL_769920, EPI_ISL_769921, EPI_ISL_769922, EPI_ISL_769923, EPI_ISL_769924, EPI_ISL_769925, EPI_ISL_769926, EPI_ISL_769927, EPI_ISL_769928, EPI_ISL_769929, EPI_ISL_769930, EPI_ISL_769931, EPI_ISL_769932, EPI_ISL_769933, EPI_ISL_769934, EPI_ISL_769935, EPI_ISL_769936, EPI_ISL_769937, EPI_ISL_769938, EPI_ISL_769939, EPI_ISL_769940, EPI_ISL_769941, EPI_ISL_769942, EPI_ISL_769943, EPI_ISL_769944, EPI_ISL_769945, EPI_ISL_769946, EPI_ISL_769947, EPI_ISL_769948, EPI_ISL_769949, EPI_ISL_769950, EPI_ISL_769951, EPI_ISL_769952, EPI_ISL_769953, EPI_ISL_769954, EPI_ISL_769955, EPI_ISL_769956, EPI_ISL_769957, EPI_ISL_769958, EPI_ISL_769959, EPI_ISL_769960, EPI_ISL_769961, EPI_ISL_769962, EPI_ISL_769963, EPI_ISL_769964, EPI_ISL_769965, EPI_ISL_769966, EPI_ISL_769967, EPI_ISL_769968, EPI_ISL_769969, EPI_ISL_769970, EPI_ISL_769971, EPI_ISL_769972, EPI_ISL_769973, EPI_ISL_769974, EPI_ISL_769975, EPI_ISL_769976, EPI_ISL_769977, EPI_ISL_769978, EPI_ISL_769979, EPI_ISL_769980, EPI_ISL_769981, EPI_ISL_769982, EPI_ISL_769983, EPI_ISL_769984, EPI_ISL_769985				
see above	Albany Medical Center Hospital Clinical Laboratories		Wadsworth Center, New York State Department of Health	Kirsten St. George, Daryl M. Lamson, Alexis Russel, Matthew Shudt, Melissa A Leisner, Jonathan Pitnick, Navjot Singh, John Kelly, Sara Griesemer, Erasmus Schneider, Erica Lasek-Nesselquist
EPI_ISL_770063, EPI_ISL_770064, EPI_ISL_770065, EPI_ISL_770066, EPI_ISL_770067, EPI_ISL_770068, EPI_ISL_770069, EPI_ISL_770070, EPI_ISL_770071, EPI_ISL_770072, EPI_ISL_770073, EPI_ISL_770074, EPI_ISL_770075, EPI_ISL_770076, EPI_ISL_770077, EPI_ISL_770078, EPI_ISL_770079, EPI_ISL_770080, EPI_ISL_770081, EPI_ISL_770082, EPI_ISL_770083, EPI_ISL_770084, EPI_ISL_770085, EPI_ISL_770086, EPI_ISL_770087, EPI_ISL_770088, EPI_ISL_770089, EPI_ISL_770090, EPI_ISL_770091, EPI_ISL_770092, EPI_ISL_770093, EPI_ISL_770094, EPI_ISL_770095, EPI_ISL_770096, EPI_ISL_770097, EPI_ISL_770098, EPI_ISL_770099, EPI_ISL_770100, EPI_ISL_770101, EPI_ISL_770102, EPI_ISL_770103, EPI_ISL_770104, EPI_ISL_770105, EPI_ISL_770106, EPI_ISL_770107, EPI_ISL_770108, EPI_ISL_770109, EPI_ISL_770110, EPI_ISL_770111, EPI_ISL_770112, EPI_ISL_770113, EPI_ISL_770114, EPI_ISL_770115, EPI_ISL_770116, EPI_ISL_770117, EPI_ISL_770118, EPI_ISL_770119, EPI_ISL_770120, EPI_ISL_770121, EPI_ISL_770122, EPI_ISL_770123, EPI_ISL_770124, EPI_ISL_770125, EPI_ISL_770126, EPI_ISL_770127, EPI_ISL_770128, EPI_ISL_770129, EPI_ISL_770130, EPI_ISL_770131, EPI_ISL_770132, EPI_ISL_770133, EPI_ISL_770134, EPI_ISL_770135, EPI_ISL_770136, EPI_ISL_770137, EPI_ISL_770138, EPI_ISL_770139, EPI_ISL_770140, EPI_ISL_770141, EPI_ISL_770142, EPI_ISL_770143, EPI_ISL_770144, EPI_ISL_770145, EPI_ISL_770146, EPI_ISL_770147, EPI_ISL_770148, EPI_ISL_770149, EPI_ISL_770150, EPI_ISL_770151, EPI_ISL_770152, EPI_ISL_770153, EPI_ISL_770154, EPI_ISL_770155, EPI_ISL_770156, EPI_ISL_770157, EPI_ISL_770158, EPI_ISL_770159, EPI_ISL_770160, EPI_ISL_770161, EPI_ISL_770162, EPI_ISL_770163, EPI_ISL_770164, EPI_ISL_770165, EPI_ISL_770166, EPI_ISL_770167, EPI_ISL_770168, EPI_ISL_770169, EPI_ISL_770170, EPI_ISL_770171, EPI_ISL_770172, EPI_ISL_770173, EPI_ISL_770174, EPI_ISL_770175, EPI_ISL_770176, EPI_ISL_770177, EPI_ISL_770178, EPI_ISL_770179, EPI_ISL_770180, EPI_ISL_770181, EPI_ISL_770182, EPI_ISL_770183, EPI_ISL_770184, EPI_ISL_770185, EPI_ISL_770186, EPI_ISL_770187, EPI_ISL_770188, EPI_ISL_770189, EPI_ISL_770190, EPI_ISL_770191, EPI_ISL_770192, EPI_ISL_770193, EPI_ISL_770194, EPI_ISL_770195, EPI_ISL_770196, EPI_ISL_770197, EPI_ISL_770198, EPI_ISL_770199, EPI_ISL_770200, EPI_ISL_770201, EPI_ISL_770202, EPI_ISL_770203, EPI_ISL_770204, EPI_ISL_770205, EPI_ISL_770206, EPI_ISL_770207, EPI_ISL_770208, EPI_ISL_770209, EPI_ISL_770210, EPI_ISL_770211, EPI_ISL_770212, EPI_ISL_770213, EPI_ISL_770214, EPI_ISL_770215, EPI_ISL_770216, EPI_ISL_770217, EPI_ISL_770218, EPI_ISL_770219, EPI_ISL_770220, EPI_ISL_770221, EPI_ISL_770222, EPI_ISL_770223, EPI_ISL_770224, EPI_ISL_770225, EPI_ISL_770226, EPI_ISL_770227, EPI_ISL_770228, EPI_ISL_770229, EPI_ISL_770230, EPI_ISL_770231, EPI_ISL_770232, EPI_ISL_770233, EPI_ISL_770234, EPI_ISL_770235, EPI_ISL_770236, EPI_ISL_770237, EPI_ISL_770238, EPI_ISL_770239, EPI_ISL_770240, EPI_ISL_770241, EPI_ISL_770242, EPI_ISL_770243, EPI_ISL_770244, EPI_ISL_770245, EPI_ISL_770246, EPI_ISL_770247, EPI_ISL_770248, EPI_ISL_770249, EPI_ISL_770250, EPI_ISL_770251, EPI_ISL_770252, EPI_ISL_770253, EPI_ISL_770254, EPI_ISL_770255, EPI_ISL_770256, EPI_ISL_770257, EPI_ISL_770258, EPI_ISL_770259, EPI_ISL_770260, EPI_ISL_770261, EPI_ISL_770262, EPI_ISL_770263, EPI_ISL_770264, EPI_ISL_770265, EPI_ISL_770266, EPI_ISL_770267, EPI_ISL_770268, EPI_ISL_770269, EPI_ISL_770270, EPI_ISL_770271, EPI_ISL_770272, EPI_ISL_770273, EPI_ISL_770274, EPI_ISL_770275, EPI_ISL_770276, EPI_ISL_770277, EPI_ISL_770278, EPI_ISL_770279, EPI_ISL_770280, EPI_ISL_770281, EPI_ISL_770282, EPI_ISL_770283, EPI_ISL_770284, EPI_ISL_770285, EPI_ISL_770286, EPI_ISL_770287, EPI_ISL_770288, EPI_ISL_770289, EPI_ISL_770290, EPI_ISL_770291, EPI_ISL_770292, EPI_ISL_770293, EPI_ISL_770294, EPI_ISL_770295, EPI_ISL_770296, EPI_ISL_770297, EPI_ISL_770298, EPI_ISL_770299, EPI_ISL_770300, EPI_ISL_770301, EPI_ISL_770302, EPI_ISL_770303, EPI_ISL_770304, EPI_ISL_770305, EPI_ISL_770306, EPI_ISL_770307, EPI_ISL_770308, EPI_ISL_770309, EPI_ISL_770310, EPI_ISL_770311, EPI_ISL_770312, EPI_ISL_770313, EPI_ISL_770314, EPI_ISL_770315, EPI_ISL_770316, EPI_ISL_770317, EPI_IS				

EPI_ISL_778865, EPI_ISL_778866	Clinical Pathology Labs	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Ying Tao Yan Li Jing Zhang Krista Queen Anna Uehara Peter Cook Clinton R. Paden Haibin Wang Suxiang Tong	
EPI_ISL_778867	Synergy Laboratories	Synergy Laboratories	Megan Cornwell	
EPI_ISL_778871, EPI_ISL_778872, EPI_ISL_778873, EPI_ISL_778874, EPI_ISL_778875, EPI_ISL_778876, EPI_ISL_778877, EPI_ISL_778878, EPI_ISL_778879, EPI_ISL_778880, EPI_ISL_778881, EPI_ISL_778882, EPI_ISL_778883, EPI_ISL_778884, EPI_ISL_778885, EPI_ISL_778886, EPI_ISL_778887, EPI_ISL_778888, EPI_ISL_778889, EPI_ISL_778890, EPI_ISL_778891, EPI_ISL_778892, EPI_ISL_778893, EPI_ISL_778894, EPI_ISL_778895, EPI_ISL_778896, EPI_ISL_778897, EPI_ISL_778898, EPI_ISL_778899, EPI_ISL_778900, EPI_ISL_778901, EPI_ISL_778902, EPI_ISL_778903, EPI_ISL_778904, EPI_ISL_778905, EPI_ISL_778906, EPI_ISL_778907, EPI_ISL_778908, EPI_ISL_778909, EPI_ISL_778910, EPI_ISL_778911, EPI_ISL_778912, EPI_ISL_778913, EPI_ISL_778914, EPI_ISL_778915, EPI_ISL_778916, EPI_ISL_778917	Maryland Public Health Laboratory	Maryland Public Health Laboratory	Maryland Department of Health Laboratories Administration	
see above	Maryland Public Health Laboratory	Maryland Public Health Laboratory	Maryland Department of Health Laboratories Administration	
EPI_ISL_778918, EPI_ISL_778919, EPI_ISL_778920, EPI_ISL_778921, EPI_ISL_778922, EPI_ISL_778923, EPI_ISL_778924, EPI_ISL_778925, EPI_ISL_778926, EPI_ISL_778927, EPI_ISL_778928, EPI_ISL_778929, EPI_ISL_778930, EPI_ISL_778931, EPI_ISL_778932, EPI_ISL_778933, EPI_ISL_778934, EPI_ISL_778935, EPI_ISL_778936, EPI_ISL_778937, EPI_ISL_778938, EPI_ISL_778939, EPI_ISL_778940, EPI_ISL_778941, EPI_ISL_778942, EPI_ISL_778943, EPI_ISL_778944, EPI_ISL_778945, EPI_ISL_778946, EPI_ISL_778947, EPI_ISL_778948, EPI_ISL_778949, EPI_ISL_778950, EPI_ISL_778951, EPI_ISL_778952, EPI_ISL_778953, EPI_ISL_778954, EPI_ISL_778955, EPI_ISL_778956, EPI_ISL_778957, EPI_ISL_778958, EPI_ISL_778959, EPI_ISL_778960, EPI_ISL_778961, EPI_ISL_778962, EPI_ISL_778963, EPI_ISL_778964, EPI_ISL_778965, EPI_ISL_778966, EPI_ISL_778967, EPI_ISL_778968, EPI_ISL_778969, EPI_ISL_778970, EPI_ISL_778971, EPI_ISL_778972, EPI_ISL_778973, EPI_ISL_778974, EPI_ISL_778975, EPI_ISL_778976, EPI_ISL_778977, EPI_ISL_778978, EPI_ISL_778979, EPI_ISL_778980, EPI_ISL_778981, EPI_ISL_778982, EPI_ISL_778983, EPI_ISL_778984, EPI_ISL_778985, EPI_ISL_778986, EPI_ISL_778987, EPI_ISL_778988, EPI_ISL_778989, EPI_ISL_778990, EPI_ISL_778991, EPI_ISL_778992, EPI_ISL_778993, EPI_ISL_778994, EPI_ISL_778995, EPI_ISL_778996, EPI_ISL_778997, EPI_ISL_778998, EPI_ISL_779000, EPI_ISL_779009, EPI_ISL_779010, EPI_ISL_779011, EPI_ISL_779012, EPI_ISL_779013, EPI_ISL_779014, EPI_ISL_779015, EPI_ISL_779016, EPI_ISL_779017, EPI_ISL_779018, EPI_ISL_779019, EPI_ISL_779020, EPI_ISL_779021, EPI_ISL_779022, EPI_ISL_779023, EPI_ISL_779024, EPI_ISL_779025, EPI_ISL_779026, EPI_ISL_779027, EPI_ISL_779028, EPI_ISL_779029, EPI_ISL_779030, EPI_ISL_779031, EPI_ISL_779032, EPI_ISL_779033, EPI_ISL_779034, EPI_ISL_779035, EPI_ISL_779036, EPI_ISL_779037, EPI_ISL_779038, EPI_ISL_779039, EPI_ISL_779040, EPI_ISL_779041, EPI_ISL_779042, EPI_ISL_779043, EPI_ISL_779044, EPI_ISL_779045, EPI_ISL_779046, EPI_ISL_779047, EPI_ISL_779048, EPI_ISL_779049, EPI_ISL_779050, EPI_ISL_779051, EPI_ISL_779052, EPI_ISL_779053, EPI_ISL_779054, EPI_ISL_779055, EPI_ISL_779056, EPI_ISL_779057, EPI_ISL_779058, EPI_ISL_779059, EPI_ISL_779060, EPI_ISL_779061, EPI_ISL_779062, EPI_ISL_779063, EPI_ISL_779064, EPI_ISL_779065, EPI_ISL_779066, EPI_ISL_779067, EPI_ISL_779068, EPI_ISL_779069, EPI_ISL_779070, EPI_ISL_779071, EPI_ISL_779072, EPI_ISL_779073, EPI_ISL_779074, EPI_ISL_779075, EPI_ISL_779076, EPI_ISL_779077, EPI_ISL_779078, EPI_ISL_779079, EPI_ISL_779080, EPI_ISL_779081, EPI_ISL_779082, EPI_ISL_779083, EPI_ISL_779084, EPI_ISL_779085, EPI_ISL_779086, EPI_ISL_779087, EPI_ISL_779088, EPI_ISL_779089, EPI_ISL_779090, EPI_ISL_779091, EPI_ISL_779092, EPI_ISL_779093, EPI_ISL_779094, EPI_ISL_779095, EPI_ISL_779096, EPI_ISL_779097, EPI_ISL_779098, EPI_ISL_779099, EPI_ISL_779100, EPI_ISL_779101, EPI_ISL_779102, EPI_ISL_779103, EPI_ISL_779104	see above	LSUHS Emerging Viral Threat Laboratory	Microbial Genome Sequencing Center	Jeremy P. Kamil, Jennifer L. Carroll, Camille F. Abshire, Maarten Van Diest, Andrew D. Yurochko, Martin J. Sapp, Rona S. Scott, Christopher G. Kevil, Daniel J. Snyder, Vaughn S. Cooper, John A. Vanchiere
EPI_ISL_779105, EPI_ISL_779106, EPI_ISL_779107, EPI_ISL_779108, EPI_ISL_779109, EPI_ISL_779110, EPI_ISL_779111, EPI_ISL_779112, EPI_ISL_779113, EPI_ISL_779114, EPI_ISL_779115, EPI_ISL_779116	see above	LSUHS Emerging Viral Threat Laboratory	Microbial Genome Sequencing Center	Jennifer L. Carroll, Jeremy P. Kamil, Camille F. Abshire, Maarten Van Diest, Andrew D. Yurochko, Martin J. Sapp, Rona S. Scott, Christopher G. Kevil, Daniel J. Snyder, Vaughn S. Cooper, John A. Vanchiere
EPI_ISL_779117, EPI_ISL_779118, EPI_ISL_779119, EPI_ISL_779120, EPI_ISL_779121, EPI_ISL_779122, EPI_ISL_779123, EPI_ISL_779124, EPI_ISL_779125, EPI_ISL_779126, EPI_ISL_779127, EPI_ISL_779128	see above	LSUHS Emerging Viral Threat Laboratory	Microbial Genome Sequencing Center	Maarten Van Diest, Jeremy P. Kamil, Jennifer L. Carroll, Camille F. Abshire, Andrew D. Yurochko, Martin J. Sapp, Rona S. Scott, Christopher G. Kevil, Daniel J. Snyder, Vaughn S. Cooper, John A. Vanchiere
EPI_ISL_779131, EPI_ISL_779132, EPI_ISL_779133, EPI_ISL_779134, EPI_ISL_779135, EPI_ISL_779136	Wyoming Public Health Laboratory	Wyoming Public Health Laboratory	Noah Hull, Taylor Fearing, Lynette Gumbleton, Channing Weber, Ashley Norberg, Bailey Bowcutt, and Wanda Manley	
EPI_ISL_779137, EPI_ISL_779138, EPI_ISL_779139, EPI_ISL_779140, EPI_ISL_779141, EPI_ISL_779142, EPI_ISL_779143, EPI_ISL_779144, EPI_ISL_779145, EPI_ISL_779146, EPI_ISL_779147, EPI_ISL_779148, EPI_ISL_779149, EPI_ISL_779150, EPI_ISL_779151, EPI_ISL_779152	see above	Yale Clinical Virology Laboratory	Grubaugh Lab - Yale School of Public Health	Tara Alpert, Joseph Fauver, Anderson Brito, Mallery Breban, Anne Wyllie, Chantal Vogels, Mary Petrone, Chaney Kalinich, Isabel Ott, Arnau Casanovas, Catherine Muenker, Adam Moore, Alice Lu, Maria Tokuyama, Patrick Wong, Peiwen Lu, Saad Omer, Richard Martinello, Allison Nelson, Shelli Farhadian, Akiko Iwasaki, Charlese Dela Cruz, Albert Ko, Nathan Grubaugh
EPI_ISL_779153, EPI_ISL_779154	Yale Pathology Lab	Grubaugh Lab - Yale School of Public Health	Tara Alpert, Joseph Fauver, Chen Liu, Pei Hui, Jianhui Wang, Susan Bell and Han Zhou, Anderson Brito, Mallery Breban, Anne Wyllie, Chantal Vogels, Mary Petrone, Chaney Kalinich, Isabel Ott, Arnau Casanovas, Catherine Muenker, Adam Moore, Alice Lu, Maria Tokuyama, Patrick Wong, Peiwen Lu, Saad Omer, Richard Martinello, Allison Nelson, Shelli Farhadian, Akiko Iwasaki, Charlese Dela Cruz, Albert Ko, Nathan Grubaugh	
EPI_ISL_779291, EPI_ISL_779292, EPI_ISL_779293, EPI_ISL_779294, EPI_ISL_779295, EPI_ISL_779296, EPI_ISL_779297, EPI_ISL_779298, EPI_ISL_779299, EPI_ISL_779300, EPI_ISL_779301, EPI_ISL_779302, EPI_ISL_779303, EPI_ISL_779304, EPI_ISL_779305, EPI_ISL_779306, EPI_ISL_779307, EPI_ISL_779308, EPI_ISL_779309, EPI_ISL_779310, EPI_ISL_779311, EPI_ISL_779312, EPI_ISL_779313, EPI_ISL_779314, EPI_ISL_779315, EPI_ISL_779316, EPI_ISL_779317, EPI_ISL_779318	see above	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Gallagher,T., Young,E.L., Oakeson,K.F.