

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_1220416, EPI_ISL_1220464		Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Peter W. Cook, Dakota Howard, Dhvani Batra, Ben L. Rambo-Martin, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Suxiang Tong, Duncan MacCannell
EPI_ISL_1220990, EPI_ISL_1221336, EPI_ISL_1221348, EPI_ISL_1221349, EPI_ISL_1221565, EPI_ISL_1221566, EPI_ISL_1221568, EPI_ISL_1221569, EPI_ISL_1221634, EPI_ISL_1221703, EPI_ISL_1221704, EPI_ISL_1221705, EPI_ISL_1221787, EPI_ISL_1221788, EPI_ISL_1221908, EPI_ISL_1221959, EPI_ISL_1221960	see above	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Peter W. Cook, Dakota Howard, Dhvani Batra, Ben L. Rambo-Martin, 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, Brian Krueger, 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
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EPI_ISL_1233892		Utah Public Health Laboratory	Utah Public Health Laboratory	Young,E.L., Oakeson,K.F., Gallagher,T.
EPI_ISL_1238840, EPI_ISL_1238841, EPI_ISL_1238842, EPI_ISL_1238843, EPI_ISL_1238844, EPI_ISL_1238845, EPI_ISL_1238846, EPI_ISL_1238847, EPI_ISL_1238848, EPI_ISL_1238849, EPI_ISL_1238850, EPI_ISL_1238851, EPI_ISL_1238852, EPI_ISL_1238853, EPI_ISL_1238854, EPI_ISL_1238855, EPI_ISL_1238856, EPI_ISL_1238857, EPI_ISL_1238858, EPI_ISL_1238859, EPI_ISL_1238860, EPI_ISL_1238861, EPI_ISL_1238862, EPI_ISL_1238863, EPI_ISL_1238864, EPI_ISL_1238865, EPI_ISL_1238866, EPI_ISL_1238867, EPI_ISL_1238868, EPI_ISL_1238869, EPI_ISL_1238870, EPI_ISL_1238871, EPI_ISL_1238872, EPI_ISL_1238873, EPI_ISL_1238874, EPI_ISL_1238875, EPI_ISL_1238876, EPI_ISL_1238877, EPI_ISL_1238878, EPI_ISL_1238879, EPI_ISL_1238880, EPI_ISL_1238881, EPI_ISL_1238882, EPI_ISL_1238883, EPI_ISL_1238884, EPI_ISL_1238885, EPI_ISL_1238886, EPI_ISL_1238887, EPI_ISL_1238888, EPI_ISL_1238889, EPI_ISL_1238890, EPI_ISL_1238891, EPI_ISL_1238892, EPI_ISL_1238893, EPI_ISL_1238894, EPI_ISL_1238895, EPI_ISL_1238896, EPI_ISL_1238897, EPI_ISL_1238898, EPI_ISL_1238899, EPI_ISL_1238900, EPI_ISL_1238901	see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly F. Oakeson, Tara Gallagher
EPI_ISL_1252950, EPI_ISL_1266599, EPI_ISL_1267414		Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Peter W. Cook, Dakota Howard, Dhvani Batra, Ben L. Rambo-Martin, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Suxiang Tong, Duncan MacCannell
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EPI_ISL_1291183		Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Peter W. Cook, Dakota Howard, Dhvani Batra, Ben L. Rambo-Martin, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Suxiang Tong, Duncan MacCannell
EPI_ISL_1298256, EPI_ISL_1298307		Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Peter W. Cook, Dakota Howard, Dhvani Batra, Ben L. Rambo-Martin, 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, Brian Krueger, 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
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Laboratory	Erin L. Young, Kelly F. Oakeson, Tara Gallagher
EPI_ISL_1314794		Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Peter W. Cook, Dakota Howard, Dhvani Batra, Ben L. Rambo-Martin, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Suxiang Tong, Duncan MacCannell
EPI_ISL_1318323, EPI_ISL_1318324, EPI_ISL_1318325, EPI_ISL_1318326, EPI_ISL_1318327		UT-Unified State Labs: Public Health Utah DOH	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Krista Queen, Yan Li, Ying Tao, Jing Zhang, Anna Uehara, Anna Montmayeur, Clinton R. Paden, Kristen Knipe, Matthew Schmerer, Shoshona Le, Katie Dillon, Peter W. Cook, Rachel Marine, Mili Sheth, Jasmine Padilla, Sarah Nobles, Mark Burroughs, Lori Rowe, Haibin Wang, Ben L. Rambo-Martin, Kristine Lacey, Sam Shepard, Dhvani Batra, Suxiang Tong, Justin Lee
EPI_ISL_1319696, EPI_ISL_1320108, EPI_ISL_1320166, EPI_ISL_1320167, EPI_ISL_1320168, EPI_ISL_1320169, EPI_ISL_1320170, EPI_ISL_1320175, EPI_ISL_1320178, EPI_ISL_1320183, EPI_ISL_1320201, EPI_ISL_1320212, EPI_ISL_1320262, EPI_ISL_1320263, EPI_ISL_1320264, EPI_ISL_1321341, EPI_ISL_1338919, EPI_ISL_1338969, EPI_ISL_1338982, EPI_ISL_1339002, EPI_ISL_1339040	see above	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Peter W. Cook, Dakota Howard, Dhvani Batra, Ben L. Rambo-Martin, 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, Brian Krueger, 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

			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_1340581	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Peter W. Cook, Dakota Howard, Dhwani Batra, Ben L. Rambo-Martin, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Suxiang Tong, Duncan MacCannell
EPI_ISL_1403828, EPI_ISL_1403829, EPI_ISL_1403830, EPI_ISL_1403831, EPI_ISL_1403832, EPI_ISL_1403833, EPI_ISL_1403834, EPI_ISL_1403835, EPI_ISL_1403836, EPI_ISL_1403837, EPI_ISL_1403838, EPI_ISL_1403839, EPI_ISL_1403840, EPI_ISL_1403841, EPI_ISL_1403842, EPI_ISL_1403843, EPI_ISL_1403844, EPI_ISL_1403845, EPI_ISL_1403846, EPI_ISL_1403847, EPI_ISL_1403848, EPI_ISL_1403849, EPI_ISL_1403850, EPI_ISL_1403851, EPI_ISL_1403852, EPI_ISL_1403853, EPI_ISL_1403854, EPI_ISL_1403855, EPI_ISL_1403856, EPI_ISL_1403857, EPI_ISL_1403858, EPI_ISL_1403859, EPI_ISL_1403860, EPI_ISL_1403861, EPI_ISL_1403862, EPI_ISL_1403863, EPI_ISL_1403864, EPI_ISL_1403865, EPI_ISL_1403866, EPI_ISL_1403867, EPI_ISL_1403868, EPI_ISL_1403869, EPI_ISL_1403870, EPI_ISL_1403871, EPI_ISL_1403872, EPI_ISL_1403873, EPI_ISL_1403874, EPI_ISL_1403875, EPI_ISL_1403876, EPI_ISL_1403877, EPI_ISL_1403878, EPI_ISL_1403879, EPI_ISL_1403880, EPI_ISL_1403881, EPI_ISL_1403882, EPI_ISL_1403883, EPI_ISL_1403884, EPI_ISL_1403885, EPI_ISL_1403886, EPI_ISL_1403887, EPI_ISL_1403888, EPI_ISL_1403889, EPI_ISL_1403890, EPI_ISL_1403891, EPI_ISL_1403892, EPI_ISL_1403893, EPI_ISL_1403894, EPI_ISL_1403895, EPI_ISL_1403896, EPI_ISL_1403897, EPI_ISL_1403898, EPI_ISL_1403899, EPI_ISL_1403900, EPI_ISL_1403901, EPI_ISL_1403902, EPI_ISL_1403903, EPI_ISL_1403904, EPI_ISL_1403905, EPI_ISL_1403906, EPI_ISL_1403907, EPI_ISL_1403908, EPI_ISL_1403909, EPI_ISL_1403910, EPI_ISL_1403911, EPI_ISL_1403912, EPI_ISL_1403913, EPI_ISL_1403914, EPI_ISL_1403915, EPI_ISL_1403916, EPI_ISL_1403917, EPI_ISL_1403918, EPI_ISL_1403919, EPI_ISL_1403920, EPI_ISL_1403921, EPI_ISL_1403922, EPI_ISL_1403923, EPI_ISL_1403924, EPI_ISL_1403925, EPI_ISL_1403926, EPI_ISL_1403927, EPI_ISL_1403928, EPI_ISL_1403929, EPI_ISL_1403930, EPI_ISL_1403931, EPI_ISL_1403932, EPI_ISL_1403933, EPI_ISL_1403934, EPI_ISL_1403935, EPI_ISL_1403936, EPI_ISL_1403937, EPI_ISL_1403938, EPI_ISL_1403939, EPI_ISL_1403940, EPI_ISL_1403941, EPI_ISL_1403942, EPI_ISL_1403943, EPI_ISL_1403944, EPI_ISL_1403945, EPI_ISL_1403946, EPI_ISL_1403947, EPI_ISL_1403948, EPI_ISL_1403949, EPI_ISL_1403950, EPI_ISL_1403951, EPI_ISL_1403952, EPI_ISL_1403953, EPI_ISL_1403954, EPI_ISL_1403955, EPI_ISL_1403956, EPI_ISL_1403957, EPI_ISL_1403958, EPI_ISL_1403959, EPI_ISL_1403960, EPI_ISL_1403961, EPI_ISL_1403962, EPI_ISL_1403963, EPI_ISL_1403964, EPI_ISL_1403965, EPI_ISL_1403966, EPI_ISL_1403967, EPI_ISL_1403968, EPI_ISL_1403969, EPI_ISL_1403970, EPI_ISL_1403971, EPI_ISL_1403972, EPI_ISL_1403973, EPI_ISL_1403974, EPI_ISL_1403975, EPI_ISL_1403976, EPI_ISL_1403977, EPI_ISL_1403978, EPI_ISL_1403979, EPI_ISL_1403980, EPI_ISL_1403981, EPI_ISL_1403982, EPI_ISL_1403983, EPI_ISL_1403984, EPI_ISL_1403985, EPI_ISL_1403986, EPI_ISL_1403987, EPI_ISL_1403988, EPI_ISL_1403989, EPI_ISL_1403990, EPI_ISL_1403991, EPI_ISL_1403992, EPI_ISL_1403993, EPI_ISL_1403994, EPI_ISL_1403995, EPI_ISL_1403996, EPI_ISL_1403997, EPI_ISL_1403998, EPI_ISL_1403999, EPI_ISL_1404000, EPI_ISL_1404001, EPI_ISL_1404002, EPI_ISL_1404003, EPI_ISL_1404004, EPI_ISL_1404005, EPI_ISL_1404006, EPI_ISL_1404007, EPI_ISL_1404008, EPI_ISL_1404009, EPI_ISL_1404010, EPI_ISL_1404011, EPI_ISL_1404012, EPI_ISL_1404013, EPI_ISL_1404014, EPI_ISL_1404015, EPI_ISL_1404016, EPI_ISL_1404017, EPI_ISL_1404018, EPI_ISL_1404019, EPI_ISL_1404020, EPI_ISL_1404021, EPI_ISL_1404022, EPI_ISL_1404023, EPI_ISL_1404024, EPI_ISL_1404025, EPI_ISL_1404026, EPI_ISL_1404027, EPI_ISL_1404028, EPI_ISL_1404029, EPI_ISL_1404030, EPI_ISL_1404031, EPI_ISL_1404032, EPI_ISL_1404033, EPI_ISL_1404034, EPI_ISL_1404035, EPI_ISL_1404036, EPI_ISL_1404037, EPI_ISL_1404038, EPI_ISL_1404039, EPI_ISL_1404040, EPI_ISL_1404041, EPI_ISL_1404042, EPI_ISL_1404043, EPI_ISL_1404044, EPI_ISL_1404045, EPI_ISL_1404046, EPI_ISL_1404047, EPI_ISL_1404048, EPI_ISL_1404049, EPI_ISL_1404050, EPI_ISL_1404051, EPI_ISL_1404052, EPI_ISL_1404053, EPI_ISL_1404054, EPI_ISL_1404055, EPI_ISL_1404056, EPI_ISL_1404057, EPI_ISL_1404058, EPI_ISL_1404059, EPI_ISL_1404060, EPI_ISL_1404061, EPI_ISL_1404062, EPI_ISL_1404063, EPI_ISL_1404064, EPI_ISL_1404065, EPI_ISL_1404066, EPI_ISL_1404067, EPI_ISL_1404068, EPI_ISL_1404069, EPI_ISL_1404070, EPI_ISL_1404071, EPI_ISL_1404072, EPI_ISL_1404073, EPI_ISL_1404074, EPI_ISL_1404075, EPI_ISL_1404076, EPI_ISL_1404077, EPI_ISL_1404078, EPI_ISL_1404079, EPI_ISL_1404080, EPI_ISL_1404081, EPI_ISL_1404082, EPI_ISL_1404083, EPI_ISL_1404084, EPI_ISL_1404085, EPI_ISL_1404086, EPI_ISL_1404087, EPI_ISL_1404088, EPI_ISL_1404089, EPI_ISL_1404090, EPI_ISL_1404091, EPI_ISL_1404092, EPI_ISL_1404093, EPI_ISL_1404094, EPI_ISL_1404095, EPI_ISL_1404096, EPI_ISL_1404097, EPI_ISL_1404098, EPI_ISL_1404099, EPI_ISL_1404100, EPI_ISL_1404101, EPI_ISL_1404102, EPI_ISL_1404103, EPI_ISL_1404104, EPI_ISL_1404105			
see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly F. Oakeson, Tara Gallagher
EPI_ISL_1421983, EPI_ISL_1422207	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Peter W. Cook, Dakota Howard, Dhwani Batra, Ben L. Rambo-Martin, Minoov 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, Brian Krueger, 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_1422513, EPI_ISL_1422681, EPI_ISL_1422781	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Peter W. Cook, Dakota Howard, Dhwani Batra, Ben L. Rambo-Martin, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Suxiang Tong, Duncan MacCannell
EPI_ISL_1445329, EPI_ISL_1445330, EPI_ISL_1445331, EPI_ISL_1445338, EPI_ISL_1445601, EPI_ISL_1445698, EPI_ISL_1445732, EPI_ISL_1445766, EPI_ISL_1445772, EPI_ISL_1445773, EPI_ISL_1445784, EPI_ISL_1445952, EPI_ISL_1445975, EPI_ISL_1446081, EPI_ISL_1446082, EPI_ISL_1446127, EPI_ISL_1446131, EPI_ISL_1446133, EPI_ISL_1446166			
see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nall, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1446433, EPI_ISL_1446439, EPI_ISL_1446441, EPI_ISL_1446576, EPI_ISL_1446577, EPI_ISL_1446578, EPI_ISL_1446579, EPI_ISL_1446580, EPI_ISL_1446581, EPI_ISL_1446634, EPI_ISL_1446725, EPI_ISL_1446726, EPI_ISL_1446727			
see above	UT-Unified State Labs: Public Health Utah DOH	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Mili Sheth, Sarah Nobles, Jasmine Padilla, Mark Burroughs, Shoshona Le, Katie Dillon, Peter Cook, Clinton R. Paden, Dhwani Batra, Krista Queen, Kristen Knipe, Dakota Howard, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Ben L. Rambo-Martin, Kristine Lacey, Sam Shepard, Alison Laufer Halpin, Dave Wentworth, Vivien Dugan, Suxiang Tong, Justin Lee
EPI_ISL_1461782, EPI_ISL_1461783, EPI_ISL_1461833	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Minoov 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, Brian Krueger, 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, Duncan MacCannell
EPI_ISL_1479441, EPI_ISL_1479445, EPI_ISL_1479504, EPI_ISL_1479538, EPI_ISL_1479539, EPI_ISL_1479541, EPI_ISL_1479564, EPI_ISL_1479575, EPI_ISL_1479595, EPI_ISL_1479598, EPI_ISL_1479626, EPI_ISL_1479649, EPI_ISL_1479650, EPI_ISL_1479681, EPI_ISL_1479807, EPI_ISL_1479850			
see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nall, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1482244	Fulgent Genetics	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Harry Gao, Mickey Li, John Gao, Joseph Fierro, Benafsh Sapra, Becky Tsai, Yan Meng, Doreen Ng, James Xie, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1483075, EPI_ISL_1483076, EPI_ISL_1483077, EPI_ISL_1483078, EPI_ISL_1483079, EPI_ISL_1483080, EPI_ISL_1483081, EPI_ISL_1483082, EPI_ISL_1483083, EPI_ISL_1483084, EPI_ISL_1483085, EPI_ISL_1483086, EPI_ISL_1483087, EPI_ISL_1483088, EPI_ISL_1483089, EPI_ISL_1483090, EPI_ISL_1483091, EPI_ISL_1483092, EPI_ISL_1483093, EPI_ISL_1483094, EPI_ISL_1483095, EPI_ISL_1483096, EPI_ISL_1483097, EPI_ISL_1483098, EPI_ISL_1483099, EPI_ISL_1483100, EPI_ISL_1483101, EPI_ISL_1483102, EPI_ISL_1483103, EPI_ISL_1483104, EPI_ISL_1483105, EPI_ISL_1483106, EPI_ISL_1483107, EPI_ISL_1483108, EPI_ISL_1483109, EPI_ISL_1483110, EPI_ISL_1483111, EPI_ISL_1483112, EPI_ISL_1483113, EPI_ISL_1483114, EPI_ISL_1483115, EPI_ISL_1483116, EPI_ISL_1483117, EPI_ISL_1483118, EPI_ISL_1483119, EPI_ISL_1483120, EPI_ISL_1483121, EPI_ISL_1483122, EPI_ISL_1483123, EPI_ISL_1483124, EPI_ISL_1483125, EPI_ISL_1483126, EPI_ISL_1483127, EPI_ISL_1483128, EPI_ISL_1483129, EPI_ISL_1483130, EPI_ISL_1483131, EPI_ISL_1483132, EPI_ISL_1483133, EPI_ISL_1483134, EPI_ISL_1483135, EPI_ISL_1483136, EPI_ISL_1483137, EPI_ISL_1483138, EPI_ISL_1483139, EPI_ISL_1483140, EPI_ISL_1483141, EPI_ISL_1483142, EPI_ISL_1483143, EPI_ISL_1483144, EPI_ISL_1483145, EPI_ISL_1483146, EPI_ISL_1483147, EPI_ISL_1483148, EPI_ISL_1483149, EPI_ISL_1483150, EPI_ISL_1483151, EPI_ISL_1483152, EPI_ISL_1483153, EPI_ISL_1483154, EPI_ISL_1483155, EPI_ISL_1483156, EPI_ISL_1483157, EPI_ISL_1483158, EPI_ISL_1483159, EPI_ISL_1483160, EPI_ISL_1483161, EPI_ISL_1483162, EPI_ISL_1483163, EPI_ISL_1483164, EPI_ISL_1483165, EPI_ISL_1483166, EPI_ISL_1483167, EPI_ISL_1483168, EPI_ISL_1483169, EPI_ISL_1483170, EPI_ISL_1483171, EPI_ISL_1483172, EPI_ISL_1483173, EPI_ISL_1483174, EPI_ISL_1483175, EPI_ISL_1483176, EPI_ISL_1483177, EPI_ISL_1483178, EPI_ISL_1483179, EPI_ISL_1483180, EPI_ISL_1483181, EPI_ISL_1483182, EPI_ISL_1483183, EPI_ISL_1483184, EPI_ISL_1483185, EPI_ISL_1483186, EPI_ISL_1483187, EPI_ISL_1483188, EPI_ISL_1483189, EPI_ISL_1483190, EPI_ISL_1483191, EPI_ISL_1483192, EPI_ISL_1483193, EPI_ISL_1483194, EPI_ISL_1483195, EPI_ISL_1483196, EPI_ISL_1483197, EPI_ISL_1483198, EPI_ISL_1483199, EPI_ISL_1483200, EPI_ISL_1483201, EPI_ISL_1483202, EPI_ISL_1483203, EPI_ISL_1483204, EPI_ISL_1483205, EPI_ISL_1483206			
see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly F. Oakeson, Tara Gallagher
EPI_ISL_1491850, EPI_ISL_1491851, EPI_ISL_1491852, EPI_ISL_1491886, EPI_ISL_1491914, EPI_ISL_1491921, EPI_ISL_1491949, EPI_ISL_1493504, EPI_ISL_1493531, EPI_ISL_1493537, EPI_ISL_1513173, EPI_ISL_1513174, EPI_ISL_1513346, EPI_ISL_1513420, EPI_ISL_1513577, EPI_ISL_1513630			
see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nall, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1513752, EPI_ISL_1513753, EPI_ISL_1513761, EPI_ISL_1513770, EPI_ISL_1514880, EPI_ISL_1514881, EPI_ISL_1514937, EPI_ISL_1514967, EPI_ISL_1514971, EPI_ISL_1514972, EPI_ISL_1514973, EPI_ISL_1515268, EPI_ISL_1515725			
see above	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Minoov 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, Brian Krueger, 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, Duncan MacCannell

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EPI_ISL_1550424, EPI_ISL_1550496, EPI_ISL_1551317, EPI_ISL_1551318, EPI_ISL_1551345, EPI_ISL_1551385, EPI_ISL_1551554 EPI_ISL_1551662	Aegis Sciences Corporation  Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nall, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1552520, EPI_ISL_1559469, EPI_ISL_1559494	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Duncan MacCannell
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EPI_ISL_1575651	Helix/Illumina	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Eileen de Feo, Jan Antico, Christine Tran, Matthew Tolentino, Shannon Wickline, Kim Gietzen, Brad Sickler, Jingtao Liu, Eric Allen, Phil Febbo, 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, Eflen Sandoval, Magnus Isaksson, William Lee, David Becker, Marc Laurent, James Lu, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1581987, EPI_ISL_1582018	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1588028, EPI_ISL_1588291	Infinity Biologix	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Christian Bixby, Yihe Wang, Jonathan Schultz, Chirayu Goswami, Russ Hager, Robin Grimwood, Clinton R. Paden, Duncan MacCannell
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EPI_ISL_1614955	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Duncan MacCannell
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EPI_ISL_1648680	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1648974, EPI_ISL_1648977, EPI_ISL_1649198, EPI_ISL_1649715, EPI_ISL_1649716, EPI_ISL_1649835, EPI_ISL_1649904, EPI_ISL_1649905, EPI_ISL_1649937, EPI_ISL_1650092, EPI_ISL_1650133, EPI_ISL_1650149, EPI_ISL_1650670, EPI_ISL_1650692, EPI_ISL_1650699, EPI_ISL_1667635, EPI_ISL_1667690, EPI_ISL_1668047, EPI_ISL_1668338 see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nall, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1668960	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Duncan MacCannell

EPI_ISL_1678096, EPI_ISL_1678097, EPI_ISL_1678098, EPI_ISL_1678099, EPI_ISL_1678288	UT-Unified State Labs: Public Health Utah DOH	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Mili Sheth, Sarah Nobles, Jasmine Padilla, Mark Burroughs, Shoshona Le, Katie Dillon, Peter Cook, Clinton R. Paden, Dhwani Batra, Krista Queen, Kristen Knipe, Dakota Howard, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Ben L. Rambo-Martin, Kristine Lacek, Sam Shepard, Alison Laufer Halpin, Dave Wentworth, Vivien Dugan, Suxiang Tong, Justin Lee
EPI_ISL_1684363, EPI_ISL_1684498, EPI_ISL_1684499, EPI_ISL_1684501, EPI_ISL_1684502, EPI_ISL_1684503, EPI_ISL_1684505, EPI_ISL_1684586, EPI_ISL_1684587, EPI_ISL_1684588, EPI_ISL_1684721, EPI_ISL_1684722, EPI_ISL_1684770, EPI_ISL_1684771, EPI_ISL_1684772, EPI_ISL_1684773			
see above	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Mino 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, Brian Krueger, 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, Duncan MacCannell
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see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nail, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1691972, EPI_ISL_1694075, EPI_ISL_1694223	Infinity Biologix	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Christian Bixby, Yihe Wang, Jonathan Schultz, Chirayu Goswami, Russ Hager, Robin Grimwood, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1695170, EPI_ISL_1695336, EPI_ISL_1695361, EPI_ISL_1695512	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nail, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1695825	UT-Unified State Labs: Public Health Utah DOH	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Mili Sheth, Sarah Nobles, Jasmine Padilla, Mark Burroughs, Shoshona Le, Katie Dillon, Peter Cook, Clinton R. Paden, Dhwani Batra, Krista Queen, Kristen Knipe, Dakota Howard, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Ben L. Rambo-Martin, Kristine Lacek, Sam Shepard, Alison Laufer Halpin, Dave Wentworth, Vivien Dugan, Suxiang Tong, Justin Lee
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see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly F. Oakeson, Tara Gallagher
EPI_ISL_1701897, EPI_ISL_1702854	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nail, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1734445	Fulgent Genetics	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Harry Gao, Mickey Li, John Gao, Joseph Fierro, Benafsh Sapra, Becky Tsai, Yan Meng, Doreen Ng, James Xie, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1735680, EPI_ISL_1735885, EPI_ISL_1736342, EPI_ISL_1736444, EPI_ISL_1736564, EPI_ISL_1736727, EPI_ISL_1736939, EPI_ISL_1736965, EPI_ISL_1737670, EPI_ISL_1737880	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nail, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1795593	Infinity Biologix	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Christian Bixby, Yihe Wang, Jonathan Schultz, Chirayu Goswami, Russ Hager, Robin Grimwood, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1797402	Helix/Illumina	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Eileen de Feo, Jan Antico, Christine Tran, Matthew Tolentino, Shannon Wickline, Kim Getzken, Brad Sickler, Jingtao Liu, Eric Allen, Phil Febbo, 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, Duncan MacCannell
EPI_ISL_1798484, EPI_ISL_1798540, EPI_ISL_1798565, EPI_ISL_1798614	UT-Unified State Labs: Public Health Utah DOH	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Mili Sheth, Sarah Nobles, Jasmine Padilla, Mark Burroughs, Shoshona Le, Katie Dillon, Peter Cook, Clinton R. Paden, Dhwani Batra, Krista Queen, Kristen Knipe, Dakota Howard, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Ben L. Rambo-Martin, Kristine Lacek, Sam Shepard, Alison Laufer Halpin, Dave Wentworth, Vivien Dugan, Suxiang Tong, Justin Lee
EPI_ISL_1799052, EPI_ISL_1799266, EPI_ISL_1799267	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Mino 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, Brian Krueger, 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, Duncan MacCannell
EPI_ISL_1818072, EPI_ISL_1823835, EPI_ISL_1823836, EPI_ISL_1823837, EPI_ISL_1823838, EPI_ISL_1823839, EPI_ISL_1823840	UT-Unified State Labs: Public Health Utah DOH	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Mili Sheth, Sarah Nobles, Jasmine Padilla, Mark Burroughs, Shoshona Le, Katie Dillon, Peter Cook, Clinton R. Paden, Dhwani Batra, Krista Queen, Kristen Knipe, Dakota Howard, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Ben L. Rambo-Martin, Kristine Lacek, Sam Shepard, Alison Laufer Halpin, Dave Wentworth, Vivien Dugan, Suxiang Tong, Justin Lee
EPI_ISL_1834506, EPI_ISL_1834507, EPI_ISL_1834510, EPI_ISL_1834511, EPI_ISL_1834512, EPI_ISL_1834574, EPI_ISL_1834575, EPI_ISL_1834579, EPI_ISL_1834582, EPI_ISL_1834587, EPI_ISL_1834626, EPI_ISL_1834858, EPI_ISL_1835087, EPI_ISL_1835348, EPI_ISL_1835507, EPI_ISL_1835559, EPI_ISL_1835569, EPI_ISL_1835582, EPI_ISL_1835887, EPI_ISL_1836080, EPI_ISL_1836091, EPI_ISL_1836163, EPI_ISL_1836481, EPI_ISL_1836961, EPI_ISL_1837009, EPI_ISL_1837256, EPI_ISL_1837614, EPI_ISL_1838104, EPI_ISL_1838451			
see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nail, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_1838994	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhwani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Duncan

MacCannell			
EPI_ISL_1910618, EPI_ISL_1910619, EPI_ISL_1910620, EPI_ISL_1910621, EPI_ISL_1910622, EPI_ISL_1910623, EPI_ISL_1910624, EPI_ISL_1910625, EPI_ISL_1910626, EPI_ISL_1910627, EPI_ISL_1910628, EPI_ISL_1910629, EPI_ISL_1910630, EPI_ISL_1910631, EPI_ISL_1910632, EPI_ISL_1910633, EPI_ISL_1910634, EPI_ISL_1910635, EPI_ISL_1910636, EPI_ISL_1910637, EPI_ISL_1910638, EPI_ISL_1910639, EPI_ISL_1910640, EPI_ISL_1910641, EPI_ISL_1910642, EPI_ISL_1910643, EPI_ISL_1910644, EPI_ISL_1910645, EPI_ISL_1910646, EPI_ISL_1910647, EPI_ISL_1910648, EPI_ISL_1910649, EPI_ISL_1910650, EPI_ISL_1910651, EPI_ISL_1910652, EPI_ISL_1910653, EPI_ISL_1910654, EPI_ISL_1910655, EPI_ISL_1910656, EPI_ISL_1910657, EPI_ISL_1910658, EPI_ISL_1910659, EPI_ISL_1910660, EPI_ISL_1910661, EPI_ISL_1910662, EPI_ISL_1910663, EPI_ISL_1910664, EPI_ISL_1910665, EPI_ISL_1910666, EPI_ISL_1910667, EPI_ISL_1910668, EPI_ISL_1910669, EPI_ISL_1910670, EPI_ISL_1910671, EPI_ISL_1910672, EPI_ISL_1910673, EPI_ISL_1910674, EPI_ISL_1910675, EPI_ISL_1910676, EPI_ISL_1910677, EPI_ISL_1910678, EPI_ISL_1910679, EPI_ISL_1910680, EPI_ISL_1910681, EPI_ISL_1910682, EPI_ISL_1910683, EPI_ISL_1910684, EPI_ISL_1910685, EPI_ISL_1910686, EPI_ISL_1910687, EPI_ISL_1910688, EPI_ISL_1910689, EPI_ISL_1910690, EPI_ISL_1910691, EPI_ISL_1910692, EPI_ISL_1910693, EPI_ISL_1910694, EPI_ISL_1910695, EPI_ISL_1910696, EPI_ISL_1910697, EPI_ISL_1910698, EPI_ISL_1910699, EPI_ISL_1910700, EPI_ISL_1910701, EPI_ISL_1910702, EPI_ISL_1910703, EPI_ISL_1910704, EPI_ISL_1910705, EPI_ISL_1910706, EPI_ISL_1910707, EPI_ISL_1910708, EPI_ISL_1910709, EPI_ISL_1910710, EPI_ISL_1910711, EPI_ISL_1910712, EPI_ISL_1910713, EPI_ISL_1910714, EPI_ISL_1910715, EPI_ISL_1910716, EPI_ISL_1910717, EPI_ISL_1910718, EPI_ISL_1910719, EPI_ISL_1910720, EPI_ISL_1910721, EPI_ISL_1910722, EPI_ISL_1910723, EPI_ISL_1910724, EPI_ISL_1910725, EPI_ISL_1910726, EPI_ISL_1910727, EPI_ISL_1910728, EPI_ISL_1910729, EPI_ISL_1910730, EPI_ISL_1910731, EPI_ISL_1910732, EPI_ISL_1910733, EPI_ISL_1910734, EPI_ISL_1910735, EPI_ISL_1910736, EPI_ISL_1910737, EPI_ISL_1910738, EPI_ISL_1910739, EPI_ISL_1910740, EPI_ISL_1910741, EPI_ISL_1910742, EPI_ISL_1910743, EPI_ISL_1910744, EPI_ISL_1910745, EPI_ISL_1910746, EPI_ISL_1910747, EPI_ISL_1910748, EPI_ISL_1910749, EPI_ISL_1910750, EPI_ISL_1910751, EPI_ISL_1910752, EPI_ISL_1910753, EPI_ISL_1910754	see above	Utah Public Health Laboratory	Utah Public Health Laboratory
EPI_ISL_1923065, EPI_ISL_1925340, EPI_ISL_1925368		Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery
EPI_ISL_1930761, EPI_ISL_1930762, EPI_ISL_1931019, EPI_ISL_1931022, EPI_ISL_1931115, EPI_ISL_1931116, EPI_ISL_1931293, EPI_ISL_1931309, EPI_ISL_1931734, EPI_ISL_1931737, EPI_ISL_1931999, EPI_ISL_1932000	see above	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery
EPI_ISL_1937830, EPI_ISL_1937831, EPI_ISL_1937832, EPI_ISL_1937833		UT-Unified State Labs: Public Health Utah DOH	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery
EPI_ISL_1995404, EPI_ISL_1995577, EPI_ISL_1996262, EPI_ISL_1996298, EPI_ISL_1996310, EPI_ISL_1997599, EPI_ISL_1997761, EPI_ISL_1997967, EPI_ISL_1997968, EPI_ISL_1997969, EPI_ISL_1997983, EPI_ISL_1997987, EPI_ISL_1998267, EPI_ISL_1998531, EPI_ISL_1998778, EPI_ISL_1998779, EPI_ISL_1998780, EPI_ISL_1998953, EPI_ISL_1998956, EPI_ISL_1999065, EPI_ISL_1999204, EPI_ISL_1999207, EPI_ISL_1999234, EPI_ISL_1999241, EPI_ISL_1999297, EPI_ISL_1999776, EPI_ISL_1999925, EPI_ISL_1999926, EPI_ISL_2000242, EPI_ISL_2000332, EPI_ISL_2000486	see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery
EPI_ISL_2009442		Moderna Inc.	Moderna Inc.
EPI_ISL_2010635		Helix/Illumina	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery
EPI_ISL_2018386, EPI_ISL_2018387, EPI_ISL_2018388, EPI_ISL_2018389, EPI_ISL_2018390, EPI_ISL_2018391		UT-Unified State Labs: Public Health Utah DOH	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery
EPI_ISL_2019681, EPI_ISL_2019938		Moderna Inc.	Moderna Inc.
EPI_ISL_2023218, EPI_ISL_2023219, EPI_ISL_2023220, EPI_ISL_2023221, EPI_ISL_2023222, EPI_ISL_2023223, EPI_ISL_2023224, EPI_ISL_2023225, EPI_ISL_2023226, EPI_ISL_2023227, EPI_ISL_2023228, EPI_ISL_2023229, EPI_ISL_2023230, EPI_ISL_2023231, EPI_ISL_2023232, EPI_ISL_2023233, EPI_ISL_2023234, EPI_ISL_2023235, EPI_ISL_2023236, EPI_ISL_2023237, EPI_ISL_2023238, EPI_ISL_2023239, EPI_ISL_2023240, EPI_ISL_2023241, EPI_ISL_2023242, EPI_ISL_2023243, EPI_ISL_2023244, EPI_ISL_2023245, EPI_ISL_2023246, EPI_ISL_2023247, EPI_ISL_2023248, EPI_ISL_2023249, EPI_ISL_2023250, EPI_ISL_2023251, EPI_ISL_2023252, EPI_ISL_2023253, EPI_ISL_2023254, EPI_ISL_2023255, EPI_ISL_2023256, EPI_ISL_2023257, EPI_ISL_2023258, EPI_ISL_2023259, EPI_ISL_2023260, EPI_ISL_2023261, EPI_ISL_2023262, EPI_ISL_2023263, EPI_ISL_2023264, EPI_ISL_2023265, EPI_ISL_2023266, EPI_ISL_2023267, EPI_ISL_2023268, EPI_ISL_2023269, EPI_ISL_2023270, EPI_ISL_2023271, EPI_ISL_2023272, EPI_ISL_2023273, EPI_ISL_2023274, EPI_ISL_2023275, EPI_ISL_2023276, EPI_ISL_2023277, EPI_ISL_2023278	see above	Utah Public Health Laboratory	Utah Public Health Laboratory
EPI_ISL_2031636, EPI_ISL_2031637, EPI_ISL_2031638, EPI_ISL_2031639, EPI_ISL_2031640, EPI_ISL_2031644		University of Utah, School of Medicine	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention
EPI_ISL_2035181, EPI_ISL_2035241		Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery
EPI_ISL_2035639		OHSU Lab Services Molecular Microbiology Lab	Oregon SARS-CoV-2 Genome Sequencing Center
EPI_ISL_2039038, EPI_ISL_2039039, EPI_ISL_2039434, EPI_ISL_2039552, EPI_ISL_2039914, EPI_ISL_2039918, EPI_ISL_2039948, EPI_ISL_2039949, EPI_ISL_2039950, EPI_ISL_2039980, EPI_ISL_2040141, EPI_ISL_2040152, EPI_ISL_2040154, EPI_ISL_2040156, EPI_ISL_2040301, EPI_ISL_2040803, EPI_ISL_2041049, EPI_ISL_2041188, EPI_ISL_2041326, EPI_ISL_2041329, EPI_ISL_2041330, EPI_ISL_2041414, EPI_ISL_2041427, EPI_ISL_2041430, EPI_ISL_2041474, EPI_ISL_2041475, EPI_ISL_2041549, EPI_ISL_2041570, EPI_ISL_2041577, EPI_ISL_2041578, EPI_ISL_2041639, EPI_ISL_2041896, EPI_ISL_2042050, EPI_ISL_2042052, EPI_ISL_2042069, EPI_ISL_2042223, EPI_ISL_2042333, EPI_ISL_2042515, EPI_ISL_2042523, EPI_ISL_2042646, EPI_ISL_2042654, EPI_ISL_2042655, EPI_ISL_2042686, EPI_ISL_2042774, EPI_ISL_2042833	see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery
EPI_ISL_2046066, EPI_ISL_2046067, EPI_ISL_2046068, EPI_ISL_2046069, EPI_ISL_2046346, EPI_ISL_2046347, EPI_ISL_2046348, EPI_ISL_2046349, EPI_ISL_2046350, EPI_ISL_2046351, EPI_ISL_2046352, EPI_ISL_2046554, EPI_ISL_2046555, EPI_ISL_2046704, EPI_ISL_2046731, EPI_ISL_2046732, EPI_ISL_2046758, EPI_ISL_2046785, EPI_ISL_2046786, EPI_ISL_2046787	see above	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery
EPI_ISL_2081685, EPI_ISL_2081686, EPI_ISL_2081687, EPI_ISL_2081688, EPI_ISL_2081689, EPI_ISL_2081690, EPI_ISL_2081691, EPI_ISL_2081692, EPI_ISL_2081693, EPI_ISL_2081694, EPI_ISL_2081695, EPI_ISL_2081696, EPI_ISL_2081697, EPI_ISL_2081698, EPI_ISL_2081699, EPI_ISL_2081700, EPI_ISL_2081701, EPI_ISL_2081702, EPI_ISL_2081703, EPI_ISL_2081704, EPI_ISL_2081705, EPI_ISL_2081706, EPI_ISL_2081707, EPI_ISL_2081708, EPI_ISL_2081709, EPI_ISL_2081710, EPI_ISL_2081711, EPI_ISL_2081712, EPI_ISL_2081713, EPI_ISL_2081714, EPI_ISL_2081715, EPI_ISL_2081716, EPI_ISL_2081717, EPI_ISL_2081718, EPI_ISL_2081719, EPI_ISL_2081720, EPI_ISL_2081721, EPI_ISL_2081722, EPI_ISL_2081723, EPI_ISL_2081724, EPI_ISL_2081725, EPI_ISL_2081726, EPI_ISL_2081727, EPI_ISL_2081728, EPI_ISL_2081729, EPI_ISL_2081730, EPI_ISL_2081731, EPI_ISL_2081732, EPI_ISL_2081733, EPI_ISL_2081734, EPI_ISL_2081735, EPI_ISL_2081736, EPI_ISL_2081737, EPI_ISL_2081738, EPI_ISL_2081739, EPI_ISL_2081740, EPI_ISL_2081741, EPI_ISL_2081742, EPI_ISL_2081743, EPI_ISL_2081744, EPI_ISL_2081745, EPI_ISL_2081746, EPI_ISL_2081747, EPI_ISL_2081748, EPI_ISL_2081749, EPI_ISL_2081750, EPI_ISL_2081751, EPI_ISL_2081752, EPI_ISL_2081753, EPI_ISL_2081754, EPI_ISL_2081755, EPI_ISL_2081756, EPI_ISL_2081757, EPI_ISL_2081758, EPI_ISL_2081759, EPI_ISL_2081760, EPI_ISL_2081761, EPI_ISL_2081762, EPI_ISL_2081763, EPI_ISL_2081764, EPI_ISL_2081765, EPI_ISL_2081766, EPI_ISL_2081767, EPI_ISL_2081768, EPI_ISL_2081769, EPI_ISL_2081770, EPI_ISL_2081771, EPI_ISL_2081772, EPI_ISL_2081773, EPI_ISL_2081774, EPI_ISL_2081775, EPI_ISL_2081776, EPI_ISL_2081777, EPI_ISL_2081778, EPI_ISL_2081779, EPI_ISL_2081780, EPI_ISL_2081781, EPI_ISL_2081782, EPI_ISL_2081783, EPI_ISL_2081784, EPI_ISL_2081785, EPI_ISL_2081786			

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see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly F. Oakeson, Tara Gallagher
EPI_ISL_2089722, EPI_ISL_2089813, EPI_ISL_2089814, EPI_ISL_2090089, EPI_ISL_2090104, EPI_ISL_2090129, EPI_ISL_2090293, EPI_ISL_2090337, EPI_ISL_2132565	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nall, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_2143212, EPI_ISL_2143241, EPI_ISL_2143284	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Duncan MacCannell
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see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nall, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_2159926	Helix/Illumina	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Eileen de Feo, Jan Antico, Christine Tran, Matthew Tolentino, Shannon Wickline, Kim Gietzen, Brad Sickler, Jingtao Liu, Eric Allen, Phil Febbo, 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, Duncan MacCannell
EPI_ISL_2161028	University of Utah, School of Medicine	Genomics and Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Jing Zhang, Anna Kelleher, Ying Tao, Brian Lynch, Krista Queen, Anna Uehara, Peter Cook, Han Jia Justin Ng, Rachel Marine, Clinton R. Paden, Dhvani Batra, Haibin Wang, Tara Coalter, Jasmine Padilla, Morgan Davis, Mili Sheth, Sarah Nobles, Mark Burroughs, Justin Lee, Adam Retchless, Suxiang Tong
EPI_ISL_2180482	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, S. H. Rosenthal, A. Gerasimova, R. M. Kagan, B. Anderson, M. Hua, Y. Liu, L.E. Bernstein, K.E. Livingston, A. Perez, I. A. Shlyakhter, R. V. Rolando, R. Owen, P. Tanpaiboon, F. Lacbawan, Clinton R. Paden, Duncan MacCannell
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EPI_ISL_2184961, EPI_ISL_2184962, EPI_ISL_2185003, EPI_ISL_2185004, EPI_ISL_2185005, EPI_ISL_2185192, EPI_ISL_2185197, EPI_ISL_2185237, EPI_ISL_2185417, EPI_ISL_2185436, EPI_ISL_2185437, EPI_ISL_2185504, EPI_ISL_2185505			
see above	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, 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, Brian Krueger, Truitt 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 Zwielfelhofer, Clinton R. Paden, Duncan MacCannell
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see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Dakota Howard, Dhvani Batra, Peter W. Cook, Kara Moser, Adrian Paskey, Jason Caravas, Benjamin Rambo-Martin, Shatavia Morrison, Christopher Gulvick, Scott Sammons, Yvette Unoarumhi, Darlene Wagner, Matthew Schmerer, Cyndi Clark, Patrick Campbell, Rob Case, Vikramsinha Ghorpade, Holly Houdeshell, Ola Kvalvaag, Dillon Nall, Ethan Sanders, Alec Vest, Shaun Westlund, Matthew Hardison, Clinton R. Paden, Duncan MacCannell
EPI_ISL_2254306	Respiratory Viruses Branch, Centers for Disease Control and Prevention	Respiratory Viruses Branch, Centers for Disease Control and Prevention	Howard,D., Batra,D., Cook,P.W., Moser,K., Paskey,A., Caravas,J., Rambo-Martin,B., Morrison,S., Gulvick,C., Sammons,S., Unoarumhi,Y., Wagner,D., Schmerer,M., Clark,C., Campbell,P., Case,R., Ghorpade,V., Houdeshell,H., Kvalvaag,O., Nall,D., Sanders,E., Vest,A., Westlund,S., Hardison,M., Paden,C.R., MacCannell,D.
EPI_ISL_2313623	Respiratory Viruses Branch, Centers for Disease Control and Prevention	Respiratory Viruses Branch, Centers for Disease Control and Prevention	Howard,D., Batra,D., Cook,P.W., Moser,K., Paskey,A., Caravas,J., Rambo-Martin,B., Morrison,S., Gulvick,C., Sammons,S., Unoarumhi,Y., Wagner,D., Schmerer,M., Bixby,C., Wang,Y., Schultz,J., Goswami,C., Hager,R., Grimwood,R., Paden,C.R., MacCannell,D.
EPI_ISL_415539, EPI_ISL_415541, EPI_ISL_415542, EPI_ISL_415543, EPI_ISL_415544, EPI_ISL_417026, EPI_ISL_417027, EPI_ISL_417028, EPI_ISL_417958, EPI_ISL_417959, EPI_ISL_417960, EPI_ISL_417964, EPI_ISL_417966, EPI_ISL_417970, EPI_ISL_417971, EPI_ISL_417973, EPI_ISL_417974, EPI_ISL_417976, EPI_ISL_417977, EPI_ISL_418961, EPI_ISL_418962, EPI_ISL_418963, EPI_ISL_418964, EPI_ISL_418965, EPI_ISL_418966, EPI_ISL_418967, EPI_ISL_420803, EPI_ISL_420804, EPI_ISL_420805, EPI_ISL_420806, EPI_ISL_420807, EPI_ISL_420808, EPI_ISL_420809, EPI_ISL_420810, EPI_ISL_420811, EPI_ISL_420812, EPI_ISL_420813, EPI_ISL_420814, EPI_ISL_420815, EPI_ISL_420816, EPI_ISL_420817, EPI_ISL_420818, EPI_ISL_420819, EPI_ISL_420820, EPI_ISL_420821, EPI_ISL_420822, EPI_ISL_420823, EPI_ISL_420824, EPI_ISL_420825, EPI_ISL_421560, EPI_ISL_421561, EPI_ISL_421562, EPI_ISL_421563			
see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin Young, Kelly Oakeson
EPI_ISL_424889, EPI_ISL_424890	UT-Unified State Labs: Public Health Utah DOH	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Krista Queen, Clinton R. Paden, Rachel Marine, Anna Uehara, Ying Tao, Jing Zhang, Haibin Wang, Mary S. Keckler, Alison S. Laufer Halpin, Christopher A. Elkins, Suxiang Tong
EPI_ISL_430019, EPI_ISL_430020, EPI_ISL_430021, EPI_ISL_430022, EPI_ISL_430023, EPI_ISL_430024, EPI_ISL_430025, EPI_ISL_430026, EPI_ISL_430027, EPI_ISL_430028, EPI_ISL_430029, EPI_ISL_430030, EPI_ISL_430031, EPI_ISL_430032, EPI_ISL_430033, EPI_ISL_430034, EPI_ISL_430035, EPI_ISL_430036, EPI_ISL_430037, EPI_ISL_430038, EPI_ISL_430039, EPI_ISL_430040, EPI_ISL_430041, EPI_ISL_430042, EPI_ISL_430043, EPI_ISL_430044, EPI_ISL_430045, EPI_ISL_430046, EPI_ISL_430047, EPI_ISL_430048, EPI_ISL_430049, EPI_ISL_430050, EPI_ISL_430051, EPI_ISL_430052, EPI_ISL_430053, EPI_ISL_430054, EPI_ISL_430055, EPI_ISL_430056, EPI_ISL_430057, EPI_ISL_430058, EPI_ISL_430059, EPI_ISL_430060, EPI_ISL_430061, EPI_ISL_430062, EPI_ISL_435348, EPI_ISL_435349, EPI_ISL_435350, EPI_ISL_435351, EPI_ISL_435352, EPI_ISL_435353, EPI_ISL_435354, EPI_ISL_435355, EPI_ISL_435356, EPI_ISL_435357, EPI_ISL_435358, EPI_ISL_435359, EPI_ISL_435360, EPI_ISL_435361, EPI_ISL_435362, EPI_ISL_435363, EPI_ISL_435364, EPI_ISL_435365, EPI_ISL_435366, EPI_ISL_435367, EPI_ISL_435368, EPI_ISL_435369, EPI_ISL_435370, EPI_ISL_435371, EPI_ISL_435372, EPI_ISL_435373, EPI_ISL_435374, EPI_ISL_435375, EPI_ISL_435376, EPI_ISL_435377, EPI_ISL_435378, EPI_ISL_435379, EPI_ISL_435380, EPI_ISL_435381, EPI_ISL_435382, EPI_ISL_435383, EPI_ISL_435384, EPI_ISL_435385, EPI_ISL_435386, EPI_ISL_435387, EPI_ISL_435388, EPI_ISL_435389, EPI_ISL_435390, EPI_ISL_435391, EPI_ISL_435392, EPI_ISL_435393, EPI_ISL_436901, EPI_ISL_436902, EPI_ISL_436903, EPI_ISL_436904, EPI_ISL_436905, EPI_ISL_436906, EPI_ISL_436907, EPI_ISL_436908, EPI_ISL_436909, EPI_ISL_436910, EPI_ISL_436911, EPI_ISL_436912, EPI_ISL_436913, EPI_ISL_436914, EPI_ISL_436915, EPI_ISL_436916, EPI_ISL_436917, EPI_ISL_436918, EPI_ISL_436919, EPI_ISL_436920, EPI_ISL_436921, EPI_ISL_436922, EPI_ISL_436923, EPI_ISL_436924, EPI_ISL_436925			
see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin Young, Kelly Oakeson
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see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin Young, Kelly Oakeson

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see above                      Quest Diagnostics                      Quest Diagnostics                      Anderson,B.P., Rosenthal,S.H., Gerasimova,A., Kagan,R.M. and Owen, R.

EPI\_ISL\_470541, EPI\_ISL\_470542, EPI\_ISL\_470543, EPI\_ISL\_470544, EPI\_ISL\_470545, EPI\_ISL\_470546, EPI\_ISL\_470547, EPI\_ISL\_470548, EPI\_ISL\_470549, EPI\_ISL\_470550, EPI\_ISL\_470551, EPI\_ISL\_470552, EPI\_ISL\_470553, EPI\_ISL\_470554, EPI\_ISL\_470555, EPI\_ISL\_470556, EPI\_ISL\_470557, EPI\_ISL\_470558, EPI\_ISL\_470559, EPI\_ISL\_470560, EPI\_ISL\_470561, EPI\_ISL\_470562, EPI\_ISL\_470563, EPI\_ISL\_470564, EPI\_ISL\_470565, EPI\_ISL\_470566, EPI\_ISL\_470567, EPI\_ISL\_470568, EPI\_ISL\_470569, EPI\_ISL\_470601, EPI\_ISL\_470602, EPI\_ISL\_470603, EPI\_ISL\_470604, EPI\_ISL\_470605, EPI\_ISL\_470606, EPI\_ISL\_470607, EPI\_ISL\_470608, EPI\_ISL\_470609, EPI\_ISL\_470610, EPI\_ISL\_470611, EPI\_ISL\_470612, EPI\_ISL\_470613, EPI\_ISL\_470614, EPI\_ISL\_470615, EPI\_ISL\_470616, EPI\_ISL\_470617, EPI\_ISL\_470618, EPI\_ISL\_470619, EPI\_ISL\_470620, EPI\_ISL\_470621, EPI\_ISL\_470622, EPI\_ISL\_470623, EPI\_ISL\_470624, EPI\_ISL\_470625, EPI\_ISL\_470626, EPI\_ISL\_470627, EPI\_ISL\_470628, EPI\_ISL\_470629, EPI\_ISL\_470630, EPI\_ISL\_470631, EPI\_ISL\_470632, EPI\_ISL\_470633, EPI\_ISL\_470634, EPI\_ISL\_470635, EPI\_ISL\_470636, EPI\_ISL\_470637, EPI\_ISL\_470638, EPI\_ISL\_470639, EPI\_ISL\_470640, EPI\_ISL\_470641, EPI\_ISL\_470642, EPI\_ISL\_470643, EPI\_ISL\_470644, EPI\_ISL\_470645, EPI\_ISL\_470646, EPI\_ISL\_470647, EPI\_ISL\_470648, EPI\_ISL\_470649, EPI\_ISL\_470650, EPI\_ISL\_470651, EPI\_ISL\_470652, EPI\_ISL\_470653, EPI\_ISL\_470654, EPI\_ISL\_470655, EPI\_ISL\_470656, EPI\_ISL\_470657, EPI\_ISL\_470658, EPI\_ISL\_470659, EPI\_ISL\_470660, EPI\_ISL\_470661, EPI\_ISL\_470662, EPI\_ISL\_470663, EPI\_ISL\_470664, EPI\_ISL\_470665, EPI\_ISL\_470666, EPI\_ISL\_470667, EPI\_ISL\_470668, EPI\_ISL\_470669, EPI\_ISL\_470670, EPI\_ISL\_470671, EPI\_ISL\_470672, EPI\_ISL\_470673, EPI\_ISL\_470674, EPI\_ISL\_470675, EPI\_ISL\_470676, EPI\_ISL\_470677, EPI\_ISL\_470678, EPI\_ISL\_470679, EPI\_ISL\_470680, EPI\_ISL\_470681, EPI\_ISL\_470682, EPI\_ISL\_470683, EPI\_ISL\_470684, EPI\_ISL\_470685, EPI\_ISL\_470686, EPI\_ISL\_470687, EPI\_ISL\_470688, EPI\_ISL\_470689, EPI\_ISL\_470690, EPI\_ISL\_470691, EPI\_ISL\_470692, EPI\_ISL\_470693, EPI\_ISL\_470694, EPI\_ISL\_470695, EPI\_ISL\_470696, EPI\_ISL\_470697, EPI\_ISL\_470698, EPI\_ISL\_470699, EPI\_ISL\_470700, EPI\_ISL\_470701, EPI\_ISL\_470702, EPI\_ISL\_470703, EPI\_ISL\_470704, EPI\_ISL\_470705, EPI\_ISL\_470706, EPI\_ISL\_470707, EPI\_ISL\_470708, EPI\_ISL\_470709, EPI\_ISL\_470710, EPI\_ISL\_470711, EPI\_ISL\_470712, EPI\_ISL\_470713, EPI\_ISL\_470714, EPI\_ISL\_470715, EPI\_ISL\_470716, EPI\_ISL\_470717, EPI\_ISL\_470718

see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin Young, Kelly Oakeson
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see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Heidi Butz, Erin Young, Kelly Oakeson
EPI_ISL_475725, EPI_ISL_475726, EPI_ISL_475727, EPI_ISL_475728, EPI_ISL_475729, EPI_ISL_475730, EPI_ISL_475731, EPI_ISL_475732, EPI_ISL_475733, EPI_ISL_475734, EPI_ISL_475735, EPI_ISL_475736, EPI_ISL_475737, EPI_ISL_475738, EPI_ISL_475739, EPI_ISL_475740, EPI_ISL_475741, EPI_ISL_475742, EPI_ISL_475743, EPI_ISL_475744			

[illegible]

see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Heidi Butz, Erin Young, Kelly Oakeson
EPI_ISL_508040	New Mexico Department of Health Scientific Laboratory Division	Center for Global Health, University of New Mexico Health Sciences Center	Daryl Domman, Kurt Schwalm, Twila Kunde, Joseph Hicks, Michael Edwards, Darrell Dinwiddie

EPI\_ISL\_509527, EPI\_ISL\_509528, EPI\_ISL\_509529, EPI\_ISL\_509530, EPI\_ISL\_509531, EPI\_ISL\_509532, EPI\_ISL\_509533, EPI\_ISL\_509534, EPI\_ISL\_509535, EPI\_ISL\_509536, EPI\_ISL\_509537, EPI\_ISL\_509538, EPI\_ISL\_509539, EPI\_ISL\_509540, EPI\_ISL\_509541, EPI\_ISL\_509542, EPI\_ISL\_509543, EPI\_ISL\_509544, EPI\_ISL\_509545, EPI\_ISL\_509546, EPI\_ISL\_509547, EPI\_ISL\_509548, EPI\_ISL\_509549, EPI\_ISL\_509550, EPI\_ISL\_509551, EPI\_ISL\_509552, EPI\_ISL\_509553, EPI\_ISL\_509554, EPI\_ISL\_509555, EPI\_ISL\_509556, EPI\_ISL\_509557, EPI\_ISL\_509558, EPI\_ISL\_509559, EPI\_ISL\_509560, EPI\_ISL\_509561, EPI\_ISL\_509562, EPI\_ISL\_509563, EPI\_ISL\_509567, EPI\_ISL\_509568, EPI\_ISL\_509569, EPI\_ISL\_509570, EPI\_ISL\_509571, EPI\_ISL\_509572, EPI\_ISL\_509573, EPI\_ISL\_509574, EPI\_ISL\_509575, EPI\_ISL\_509576, EPI\_ISL\_509577, EPI\_ISL\_509578, EPI\_ISL\_509579, EPI\_ISL\_509580, EPI\_ISL\_509581, EPI\_ISL\_509582, EPI\_ISL\_509583, EPI\_ISL\_509584, EPI\_ISL\_509585, EPI\_ISL\_509586, EPI\_ISL\_509587, EPI\_ISL\_509588, EPI\_ISL\_509589, EPI\_ISL\_509590, EPI\_ISL\_509591, EPI\_ISL\_509592, EPI\_ISL\_509593, EPI\_ISL\_509594, EPI\_ISL\_509595, EPI\_ISL\_509596, EPI\_ISL\_509597, EPI\_ISL\_509598, EPI\_ISL\_509599, EPI\_ISL\_509600

see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Heidi Butz, Erin Young, Kelly Oakeson
EPI_ISL_509689, EPI_ISL_509690, EPI_ISL_509691, EPI_ISL_509692, EPI_ISL_509693, EPI_ISL_509694	Utah Public Health Laboratory	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Ying Tao, Jing Zhang, Krista Queen, Anna Uehara, Yan Li, Clinton Paden, Haibin Wang, Suxiang Tong

EPI_ISL_509707, EPI_ISL_509708, EPI_ISL_509709	Utah Public Health Laboratory	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Jing Zhang, Ying Tao, Krista Queen, Anna Uehara, Yan Li, Clinton Paden, Haibin Wang, Suxiang Tong
EPI_ISL_510160	Utah Public Health Laboratory	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Mary L. Killian, Kerrie Franzen, Krista Queen, Anna Uehara, Ying Tao, Yan Li, Jing Zhang, Clinton R. Paden, Haibin Wang, Suxiang Tong

EPI_ISL_512775, EPI_ISL_512776, EPI_ISL_512777, EPI_ISL_512778,	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Butz,H.A., Young,E.L., Oakeson,K.
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EPI\_ISL\_513640, EPI\_ISL\_513641, EPI\_ISL\_513642, EPI\_ISL\_513643, EPI\_ISL\_513644, EPI\_ISL\_513645, EPI\_ISL\_513646, EPI\_ISL\_513647, EPI\_ISL\_513648, EPI\_ISL\_513649, EPI\_ISL\_513650, EPI\_ISL\_513651, EPI\_ISL\_513652, EPI\_ISL\_513653, EPI\_ISL\_513654, EPI\_ISL\_513655, EPI\_ISL\_513656, EPI\_ISL\_513657, EPI\_ISL\_513658, EPI\_ISL\_513659, EPI\_ISL\_513660, EPI\_ISL\_513661, EPI\_ISL\_513662, EPI\_ISL\_513663, EPI\_ISL\_513664, EPI\_ISL\_513665, EPI\_ISL\_513666, EPI\_ISL\_513667, EPI\_ISL\_513668, EPI\_ISL\_513669, EPI\_ISL\_513670, EPI\_ISL\_513671, EPI\_ISL\_513672, EPI\_ISL\_513673, EPI\_ISL\_513674, EPI\_ISL\_513675, EPI\_ISL\_513676, EPI\_ISL\_513677, EPI\_ISL\_513678, EPI\_ISL\_513679, EPI\_ISL\_513680, EPI\_ISL\_513681, EPI\_ISL\_513682, EPI\_ISL\_513683, EPI\_ISL\_513684, EPI\_ISL\_513685, EPI\_ISL\_513686, EPI\_ISL\_513687, EPI\_ISL\_513688, EPI\_ISL\_513689, EPI\_ISL\_513690, EPI\_ISL\_513691, EPI\_ISL\_513692, EPI\_ISL\_513693, EPI\_ISL\_513694, EPI\_ISL\_513695, EPI\_ISL\_513696, EPI\_ISL\_513697, EPI\_ISL\_513698, EPI\_ISL\_513699, EPI\_ISL\_513700, EPI\_ISL\_513701, EPI\_ISL\_513702, EPI\_ISL\_513703, EPI\_ISL\_513704, EPI\_ISL\_513705, EPI\_ISL\_513706

see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Heidi Butz, Erin Young, Kelly Oakeson
EPI_ISL_513941, EPI_ISL_513942	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Butz,H.A., Young,E.L. and Oakeson,K.

EPI\_ISL\_522254, EPI\_ISL\_522255, EPI\_ISL\_522256, EPI\_ISL\_522257, EPI\_ISL\_522258, EPI\_ISL\_522259, EPI\_ISL\_522260, EPI\_ISL\_522261, EPI\_ISL\_522262, EPI\_ISL\_522263, EPI\_ISL\_522264, EPI\_ISL\_522265, EPI\_ISL\_522266, EPI\_ISL\_522267, EPI\_ISL\_522268, EPI\_ISL\_522269, EPI\_ISL\_522270, EPI\_ISL\_522271, EPI\_ISL\_522272, EPI\_ISL\_522273, EPI\_ISL\_522274, EPI\_ISL\_522275, EPI\_ISL\_522276, EPI\_ISL\_522277, EPI\_ISL\_522278, EPI\_ISL\_522279, EPI\_ISL\_522280, EPI\_ISL\_522281, EPI\_ISL\_522282, EPI\_ISL\_522283, EPI\_ISL\_522284, EPI\_ISL\_522285, EPI\_ISL\_522286, EPI\_ISL\_522287, EPI\_ISL\_522288, EPI\_ISL\_522289, EPI\_ISL\_522290, EPI\_ISL\_522291, EPI\_ISL\_522292, EPI\_ISL\_522293, EPI\_ISL\_522294, EPI\_ISL\_522295, EPI\_ISL\_522296, EPI\_ISL\_522297, EPI\_ISL\_522298, EPI\_ISL\_522299, EPI\_ISL\_523000, EPI\_ISL\_523001, EPI\_ISL\_523002, EPI\_ISL\_523003, EPI\_ISL\_523004, EPI\_ISL\_523005, EPI\_ISL\_523006, EPI\_ISL\_523007, EPI\_ISL\_523008, EPI\_ISL\_523009, EPI\_ISL\_523010, EPI\_ISL\_523011, EPI\_ISL\_523012, EPI\_ISL\_523013, EPI\_ISL\_523014, EPI\_ISL\_523015, EPI\_ISL\_523016, EPI\_ISL\_523017, EPI\_ISL\_523018, EPI\_ISL\_523019, EPI\_ISL\_523020, EPI\_ISL\_523021, EPI\_ISL\_523022, EPI\_ISL\_523023, EPI\_ISL\_523024, EPI\_ISL\_523025, EPI\_ISL\_523026, EPI\_ISL\_523027, EPI\_ISL\_523028, EPI\_ISL\_523029, EPI\_ISL\_523030, EPI\_ISL\_523031, EPI\_ISL\_523032, EPI\_ISL\_523033, EPI\_ISL\_523034, EPI\_ISL\_523035, EPI\_ISL\_523036, EPI\_ISL\_523037, EPI\_ISL\_523038, EPI\_ISL\_523039, EPI\_ISL\_523040, EPI\_ISL\_523041, EPI\_ISL\_523042, EPI\_ISL\_523043, EPI\_ISL\_523044, EPI\_ISL\_523045, EPI\_ISL\_523046, EPI\_ISL\_523047, EPI\_ISL\_523048

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[illegible]

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see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin Young, Kelly Oakeson
EPI_ISL_602554, EPI_ISL_602555, EPI_ISL_602556, EPI_ISL_602557, EPI_ISL_602558	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Young,E.L., Oakeson,K.

EPI\_ISL\_602931, EPI\_ISL\_602932, EPI\_ISL\_602933, EPI\_ISL\_602934, EPI\_ISL\_602935, EPI\_ISL\_602936, EPI\_ISL\_602937, EPI\_ISL\_602938, EPI\_ISL\_602939, EPI\_ISL\_602940, EPI\_ISL\_602941, EPI\_ISL\_602942, EPI\_ISL\_602943, EPI\_ISL\_602944, EPI\_ISL\_602945, EPI\_ISL\_602946, EPI\_ISL\_602947, EPI\_ISL\_602948, EPI\_ISL\_602949, EPI\_ISL\_602950, EPI\_ISL\_602951, EPI\_ISL\_602952, EPI\_ISL\_602953, EPI\_ISL\_602954, EPI\_ISL\_602955

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EPI\_ISL\_603067, EPI\_ISL\_603068, EPI\_ISL\_603069, EPI\_ISL\_603070, EPI\_ISL\_603071, EPI\_ISL\_603072, EPI\_ISL\_603073, EPI\_ISL\_603074, EPI\_ISL\_603075, EPI\_ISL\_603076, EPI\_ISL\_603077, EPI\_ISL\_603078, EPI\_ISL\_603079, EPI\_ISL\_603080, EPI\_ISL\_603081

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	Young,E.L., Oakeson,K.
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[illegible][illegible]

see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly Oakeson, Tara Gallagher, Michael T. Pyne, E. Susan Slechta, Melanie A. Mallory, Jeffrey B. Stevenson, Salika M. Shakir, David R. Hillyard
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EPI_ISL_605931	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Young, E.L. and Oakeson, K.
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EPI\_ISL\_611485, EPI\_ISL\_611486, EPI\_ISL\_611487, EPI\_ISL\_611488, EPI\_ISL\_611489, EPI\_ISL\_611490, EPI\_ISL\_611491, EPI\_ISL\_611492, EPI\_ISL\_611493, EPI\_ISL\_611494, EPI\_ISL\_611495, EPI\_ISL\_611496, EPI\_ISL\_611497, EPI\_ISL\_611498, EPI\_ISL\_611499, EPI\_ISL\_61500, EPI\_ISL\_61501, EPI\_ISL\_61502,

see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin Young, Kelly Oakeson
EPI_ISL_620407, EPI_ISL_620408, EPI_ISL_620409, EPI_ISL_620410	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Young,E.L., Oakeson,K.F.

EPI\_ISL\_623170, EPI\_ISL\_623171, EPI\_ISL\_623172, EPI\_ISL\_623173, EPI\_ISL\_623174, EPI\_ISL\_623175, EPI\_ISL\_623176, EPI\_ISL\_623177, EPI\_ISL\_623178, EPI\_ISL\_623179, EPI\_ISL\_623180, EPI\_ISL\_623181, EPI\_ISL\_623182, EPI\_ISL\_623183, EPI\_ISL\_623184, EPI\_ISL\_623185, EPI\_ISL\_623186, EPI\_ISL\_623187, EPI\_ISL\_623188, EPI\_ISL\_623189, EPI\_ISL\_623190, EPI\_ISL\_623191, EPI\_ISL\_623192, EPI\_ISL\_623193, EPI\_ISL\_623194, EPI\_ISL\_623195, EPI\_ISL\_623196, EPI\_ISL\_623197, EPI\_ISL\_623198, EPI\_ISL\_623199, EPI\_ISL\_623200, EPI\_ISL\_623201, EPI\_ISL\_623202, EPI\_ISL\_623203, EPI\_ISL\_623204, EPI\_ISL\_623205, EPI\_ISL\_623206, EPI\_ISL\_623207, EPI\_ISL\_623208, EPI\_ISL\_623209, EPI\_ISL\_623210, EPI\_ISL\_628932, EPI\_ISL\_628933, EPI\_ISL\_628934, EPI\_ISL\_628935, EPI\_ISL\_628936, EPI\_ISL\_628937, EPI\_ISL\_628938, EPI\_ISL\_628939, EPI\_ISL\_628940, EPI\_ISL\_628941, EPI\_ISL\_628942, EPI\_ISL\_628943, EPI\_ISL\_628944, EPI\_ISL\_628945, EPI\_ISL\_628946, EPI\_ISL\_628947, EPI\_ISL\_628948, EPI\_ISL\_628949, EPI\_ISL\_628950, EPI\_ISL\_628951, EPI\_ISL\_628952, EPI\_ISL\_628953, EPI\_ISL\_628954, EPI\_ISL\_628955, EPI\_ISL\_628956, EPI\_ISL\_628957, EPI\_ISL\_628958, EPI\_ISL\_628959, EPI\_ISL\_628960, EPI\_ISL\_628961, EPI\_ISL\_628962, EPI\_ISL\_628963, EPI\_ISL\_628964, EPI\_ISL\_628965, EPI\_ISL\_628966, EPI\_ISL\_628967, EPI\_ISL\_628968, EPI\_ISL\_628969, EPI\_ISL\_628970, EPI\_ISL\_628971, EPI\_ISL\_628972, EPI\_ISL\_628973, EPI\_ISL\_628974, EPI\_ISL\_628975, EPI\_ISL\_628976, EPI\_ISL\_628977, EPI\_ISL\_628978, EPI\_ISL\_628979, EPI\_ISL\_628980, EPI\_ISL\_628981, EPI\_ISL\_628982, EPI\_ISL\_628983, EPI\_ISL\_628984, EPI\_ISL\_628985, EPI\_ISL\_628986, EPI\_ISL\_628987, EPI\_ISL\_628988, EPI\_ISL\_628989, EPI\_ISL\_628990, EPI\_ISL\_628991, EPI\_ISL\_628992, EPI\_ISL\_628993, EPI\_ISL\_628994, EPI\_ISL\_628995, EPI\_ISL\_628996, EPI\_ISL\_628997, EPI\_ISL\_628998, EPI\_ISL\_628999

see above Utah Public Health Laboratory Utah Public Health Laboratory Erin Young, Kelly Oakeson

EPI\_ISL\_634914, EPI\_ISL\_634915, EPI\_ISL\_634916, EPI\_ISL\_634917, EPI\_ISL\_634918, EPI\_ISL\_634919, EPI\_ISL\_634920, EPI\_ISL\_634921, EPI\_ISL\_634922, EPI\_ISL\_634923, EPI\_ISL\_634924, EPI\_ISL\_634925, EPI\_ISL\_634926, EPI\_ISL\_634927, EPI\_ISL\_634928, EPI\_ISL\_634929, EPI\_ISL\_634930, EPI\_ISL\_634931, EPI\_ISL\_634932, EPI\_ISL\_634933

see above

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Erin L. Young, Kelly F. Oakeson

ERI USL 640276 ERI USL 640277 ERI USL 640278 ERI USL 640279 ERI USL 640280 ERI USL 640281 ERI USL 640282 ERI USL 640283 ERI USL 640284 ERI USL 640285 ERI USL 640286 ERI USL 640287 ERI USL 640288 ERI USL 640289 ERI USL 640290 ERI USL 640291 ERI USL 640292 ERI USL 640293

EPI\_ISL\_640294, EPI\_ISL\_640295, EPI\_ISL\_640296, EPI\_ISL\_640297, EPI\_ISL\_640298, EPI\_ISL\_640299, EPI\_ISL\_640300  
see above

EPI_ISL_644665, EPI_ISL_644666, EPI_ISL_644667, EPI_ISL_644668, EPI_ISL_644669, EPI_ISL_644670	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Utah Public Health Laboratory, Utah Public Health Laboratory Infectious Disease submission group	Young, E.L., Oakeson, K.F.
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see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin Young, Kelly Oakeson
EPI_ISL_710485, EPI_ISL_710486	Utah Public Health Laboratory, Utah Public Health Laboratory	Utah Public Health Laboratory, Utah Public Health Laboratory	Young,E.L., Oakeson,K.F.

see above	Ginkgo Bioworks Clinical Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly Oakeson, Tara Gallagher, Michael T. Pyne, E. Susan Slechta, Melanie A. Mallory, Jeffrey B. Stevenson, Salika M. Shakir, David R. Hillyard, Malaika McKenzie-Bennett, James McGann, Jim Griffin, Keith Robison, Alex Plocik, Becky Schilling, Martha Pierson, Rebecca Littlefield, Michael Spencer, Birgitte Simen
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see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin Young, Kelly Oakeson, Tara Gallagher
EPI_ISL_747074, EPI_ISL_747075,	Respiratory Viruses Branch, Centers for Disease Control and	Respiratory Viruses Branch, Centers for Disease Control and	Queen,K., Li,Y., Tao,Y., Uehara,A., Montmayeur,A., Paden,C.R., Cook,P.W., Marine,R., Sheth,M., Wang,H., Lee,J., Tong,S.

EPI_ISL_747076, EPI_ISL_747077, EPI_ISL_747078	Prevention	Prevention	
EPI_ISL_752600	Utah Public Health Laboratory, Infectious Disease submission group	Utah Public Health Laboratory, Infectious Disease submission group	Gallagher,T., Young,E., Oakeson,K.
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see above	Utah Public Health Laboratory, Infectious Disease submission group	Utah Public Health Laboratory, Infectious Disease submission group	
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see above	Utah Public Health Laboratory	Utah Public Health Laboratory	
EPI_ISL_812134, EPI_ISL_812135, EPI_ISL_812232	UT-Unified State Labs: Public Health Utah DOH	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Ying Tao, Anna Montmayeur, Jing Zhang, Brian Lynch, Krista Queen, Anna Uehara, Rachel Marine, Peter Cook, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_812360, EPI_ISL_812361, EPI_ISL_812362, EPI_ISL_812363, EPI_ISL_812364, EPI_ISL_812365, EPI_ISL_812366, EPI_ISL_812367, EPI_ISL_812368, EPI_ISL_812369, EPI_ISL_812370, EPI_ISL_812371, EPI_ISL_812372, EPI_ISL_812373, EPI_ISL_812374, EPI_ISL_812375, EPI_ISL_812376, EPI_ISL_812377, EPI_ISL_812378, EPI_ISL_812379, EPI_ISL_812380, EPI_ISL_812381, EPI_ISL_812382, EPI_ISL_812383, EPI_ISL_812384, EPI_ISL_812385, EPI_ISL_812386, EPI_ISL_812387, EPI_ISL_812388, EPI_ISL_812389, EPI_ISL_812390, EPI_ISL_812391, EPI_ISL_812392, EPI_ISL_812393, EPI_ISL_812394, EPI_ISL_812395, EPI_ISL_812396, EPI_ISL_812397, EPI_ISL_812398, EPI_ISL_812399, EPI_ISL_812400, EPI_ISL_812401, EPI_ISL_812402, EPI_ISL_812403, EPI_ISL_812404, EPI_ISL_812405, EPI_ISL_812406, EPI_ISL_812407, EPI_ISL_812408, EPI_ISL_812409, EPI_ISL_812410, EPI_ISL_812411, EPI_ISL_812412, EPI_ISL_812413, EPI_ISL_812414, EPI_ISL_812415, EPI_ISL_812416, EPI_ISL_812417, EPI_ISL_812418, EPI_ISL_812419, EPI_ISL_812420	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly F. Oakeson, Tara Gallagher
see above	Utah Public Health Laboratory	Utah Public Health Laboratory	
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see above	Utah Public Health Laboratory, Infectious Disease submission group	Utah Public Health Laboratory, Infectious Disease submission group	
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Young, Kelly F. Oakeson, Tara Gallagher
see above	Utah Public Health Laboratory	Utah Public Health Laboratory	
EPI_ISL_851031	Helix/Illumina	Genomics and Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Peter W. Cook, Dhvani Batra, Ben L. Rambo-Martin Eileen de Feo, Jan Antico, Christine Tran, Matthew

EPI_ISL_914701	see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly F. Oakeson, Tara Gallagher
EPI_ISL_915354, EPI_ISL_915355, EPI_ISL_915356	Quest Diagnostics	Quest Diagnostics	Rosenthal,S.H., Gerasimova,A., Kagan,R.M., Anderson, B., Hua, M., Liu Y., Bernstein, L.E., Livingston, K.E., Perez, A., Shalhout, D.F., Shlyakhter, I.A., Owen, R., Tanpaiboon, P., Lacbawan, F.	
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see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly F. Oakeson, Tara Gallagher	
EPI_ISL_956333, EPI_ISL_956334, EPI_ISL_956335, EPI_ISL_956336	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.	
EPI_ISL_960398	University of Wisconsin-Madison AIDS Vaccine Research Laboratories	University of Wisconsin-Madison AIDS Vaccine Research Laboratories	Gage Moreno, Katarina Braun, et al. AIDS Vaccine Research Laboratories	
EPI_ISL_966755, EPI_ISL_966884, EPI_ISL_967075, EPI_ISL_967314, EPI_ISL_967369, EPI_ISL_967436, EPI_ISL_967609, EPI_ISL_967866, EPI_ISL_978588, EPI_ISL_978637	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 Getzlen,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,Efren Sandoval,Magnus Isaksson,William Lee,David Becker,Marc Laurent,James Lu,Clinton R. Paden,Suxiang Tong,Duncan MacCannell,	
EPI_ISL_983371, EPI_ISL_983372, EPI_ISL_983373, EPI_ISL_983374, EPI_ISL_983375, EPI_ISL_983376, EPI_ISL_983377, EPI_ISL_983378, EPI_ISL_983379, EPI_ISL_983380, EPI_ISL_983381, EPI_ISL_983382, EPI_ISL_983383, EPI_ISL_983384, EPI_ISL_983385, EPI_ISL_983386, EPI_ISL_983387, EPI_ISL_983388, EPI_ISL_983389, EPI_ISL_983390, EPI_ISL_983391, EPI_ISL_983392, EPI_ISL_983393, EPI_ISL_983394, EPI_ISL_983395, EPI_ISL_983396, EPI_ISL_983397, EPI_ISL_983398, EPI_ISL_983399, EPI_ISL_983400, EPI_ISL_983401, EPI_ISL_983402, EPI_ISL_983403, EPI_ISL_983404, EPI_ISL_983405, EPI_ISL_983406, EPI_ISL_983407, EPI_ISL_983408				
see above	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young, Kelly F. Oakeson, Tara Gallagher	