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_779761

EPI_ISL_796049, EPI_ISL_796061

EPI_ISL_792108

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EPI_ISL_811151, EPI_ISL_811159, EPI_ISL_811169, EPI_ISL_811171, EPI_ISL_811186	Dharwad	CSIR Institute of Genomics and Integrative Biology	Abhinav Jain; Bani Jolly; Disha Sharma; Dr. Amit Ugargol; Dr. Rgavendra B Nayak; Dr. Shivarudrapp B Bhairappanavar; Dr. Suresh B Arakera; Dr. Vijay A Yenagi; Gyan Ranjan; Mohammed Imran; Mohit Divakar; Paras Sehgal; Rahul Bhoyar; Sridhar Sivasubbu; Vinod Scaria			
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	91, EPI_ISL_790695, EPI_ISL_790752, EPI_ISL_79	90815, EPI_ISL_790915, EPI_ISL_790944, EPI_ISL_790951, EPI_ISL_790981, EI	PI ISL_791025, EPI ISL_804387, EPI ISL_804399, EPI ISL_804401			
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EPI_ISL_778929, EPI_ISL_778963, EPI_ISL_778975, EPI_ISL_779060, EPI_ISL_779097, EPI_ISL_779103	LSUHS Emerging Viral Threat Laboratory	Microbial Genome Sequencing Center	Andrew D. Yurochko; Camille F. Abshire; Christopher G. Kevil; Daniel J. Snyder; Jennifer L. Carroll; Jeremy P. Kamil; John A. Vanchiere; Maarten Van Diest; Martin J. Sapp; Rona S. Scott; Vaughn S. Cooper					
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EPI_ISL_801387, EPI_ISL_801395	Laboratorio de Ecologia de Doencas Transmissiveis na Amazonia, Instituto Leonidas e Maria Deane - Fiocruz Amazonia	Leonidas e Maria Deane - Fiocruz Amazonia	André Corado; Debora Duarte; Felipe Naveca on behalf of the Fiocruz COVID-19 Genomic Surveillance Network; Fernanda Nascimento; George Silva; Luciana Gonçalves; Maria Júlia Brandão; Michele Jesus; Valdinete Nascimento; Victor Souza; Ágatha Costa					
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EPI_ISL_801552, EPI_ISL_801		01580, EPI_ISL_801713, EPI_ISL_801717, EPI_ISL_801723, EPI_ISL_801738, EI	P_ISL_801758, EPL_ISL_801764, EPL_ISL_801780, EPL_ISL_801781, EPL_ISL_801792, EPL_ISL_801802, EPL_ISL_801807, EPL_ISL_801820, EPL_ISL_801856					
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		92577, EPI_ISL_792594, EPI_ISL_792596, EPI_ISL_792602, EPI_ISL_792610, EI						
see above	Laboratório Central de Saúde Pública do Estado da Paraíba (LACEN-PB)	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Ana Carolina Mendonca; Anna Carolina Paixao; Dalane Loudal Florentino Teixeira; Fernando Motta; João Felipe Bezerra; Luciana Appolinario; Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network; Paola Resende; Romero Henrique Teixeira de Vasconcelos; Thiago Franco de Oliveira Carneiro					
EPI_ISL_792644	Laboratório Central de Saúde Pública do Estado de Alagoas (LACEN-AL)	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Ana Carolina Mendonca; Anderson Brandao Leite; Anna Carolina Paixao; Fernando Motta; Luciana Appolinario; Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network; Paola Resende					
EPI_ISL_801397	Laboratório Central de Saúde Pública do Estado do Amazonas (LACEN-AM)	Laboratorio de Ecologia de Doencas Transmissiveis na Amazonia, Instituto Leonidas e Maria Deane - Fiocruz Amazonia	André Corado; Debora Duarte; Felipe Naveca on behalf of the Fiocruz COVID-19 Genomic Surveillance Network; Fernanda Nascimento; George Silva; Luciana Gonçalves; Maria Júlia Brandão; Michele Jesus; Valdinete Nascimento; Victor Souza; Ágatha Costa					
EPI_ISL_812258, EPI_ISL_812260, EPI_ISL_812267, EPI_ISL_812275, EPI_ISL_812278, EPI_ISL_812282	Landstuhl Regional Medical Center	United States Air Force School of Aerospace Medicine	Amanda Javorina; Anthony Fries; Clarise Starr; Cole Anderson; Elizabeth Macias; Fritz Castillo; Jennifer Meyer; Sarah Purves; William Gruner					
EPI_ISL_798517, EPI_ISL_798719, EPI_ISL_799948, EPI_ISL_800518, EPI_ISL_800558	Lighthouse Lab in Alderley Park	Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) Consortium	Cordelia Langford; David K. Jackson; Dominic Kwiatkowski; Ewan Harrison; lan Johnston; Jacquelyn Wynn; John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Mairead Hyland; Roberto Amato; Sonia Goncalves; The Lighthouse Lab in Alderley Park and Alex Alderton					
EPI_ISL_781604, EPI_ISL_800172,	Lighthouse Lab in Cambridge	Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) Consortium	Cordelia Langford; David K. Jackson; Dominic Kwiatkowski; Ewan Harrison; Ian Johnston; John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Rob Howes; Roberto Amato; Sonia Goncalves; The Lighthouse Lab in Cambridge and Alex Alderton					

EPI_ISL_800256							
EPI_ISL_782308, EPI_ISL_797780, EPI_ISL_798067, EPI_ISL_799112,	Lighthouse Lab in Glasgow	Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) Consortium	Anna Dominiczak and Alex Alderton; Carol Clugston; Cordelia Langford; David Gray; David K. Jackson; Dominic Kwiatkowski; Ewan Harrison; Harper VanSteenhouse; Ian Johnston; John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Roberto Amato; Sonia Goncalves; Yumi Kasai				
EPI_ISL_800694, EPI_ISL_800728							
EPI_ISL_778418, EPI_ISL_783243, EPI_ISL_798412	Lighthouse Lab in Milton Keynes	Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) Consortium	Cordelia Langford; David K. Jackson; Dominic Kwiatkowski; Ewan Harrison; lan Johnston; John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Roberto Amato; Sonia Goncalves; The Lighthouse Lab in Milton Keynes & Alex Alderton				
	492, EPI_ISL_804496, EPI_ISL_804499, EPI_ISL_80	4504, EPI_ISL_804556, EPI_ISL_804566, EPI_ISL_804570					
see above	MEPHI, Aix Marseille University	MEPHI, Aix Marseille University	Anthony LEVASSEUR				
EPI_ISL_801939, EPI_ISL_801939, EPI_ISL_801999, EPI_ISL_802047, EPI_ISL_802047, EPI_ISL_802171, EPI_ISL_802171, EPI_ISL_80234, EPI_ISL_802337, EPI_ISL_802423 see above MSHS Clinical Microbiology Laboratories MSHS Pathogen Surveillance Program Adolfo García-Sastre; Adriana van de Guchte; Ajay Obla; Alberto Paniz-Mondolfi; Ana S. Gonzalez-Reiche; Andrew Kasarskis; Angela Amoako; Ashley S. Salimbangon; Betsaida Salom Melo; Bremy Alburquerque; Brianne Ciferri; Charles Gleason; Di							
see above	is is a limited increasing, case at the		R. Altman; Denise Jurczyszak; Elena Hirsch; Emilia Mia Sordillo; Emily Ferreri; Gintaras Deikus; Giulio Kleiner; Gopi Patel; Hala Alshammany; Harm van Bakel; Irina Oussenko; Jayeeta Dutta; Juan Soto; Katherine Beach; Kathryn Twyman; Kayla Russo; Komal Srivastava; Levy Sominsky; Mahmoud Awawda; Marta Luksza; Matthew M. Hernandez; Melissa Gitman; Michael D. Nowak; Mitchell J. Sullivan; Nancy Francoeur; Rachel Chernet; Robert Sebra; Sarah Schaefer; Shelcie Fabre; Shwetha Hara Sridhar; Viviana Simon; Ying-Chi Wang; Zenab Khan				
EPI_ISL_778917, EPI_ISL_804592	Maryland Public Health Laboratory	Maryland Public Health Laboratory	Maryland Department of Health Laboratories Administration				
EPI_ISL_791736, EPI_ISL_791787, EPI_ISL_791945	Massachusetts General Hospital	Infectious Disease Program, Broad Institute of Harvard and MIT	A.E.; Adams, G.; Anahtar, M.; B.L.; B.W.; Bauer, M.; Birren; Branda, J.; Carter, A.; Cerrato, F.; Chaluvadi, S.; Chapman; Cusick, C.; D.J.; DeRuff, K.; E. and Sabeti; Flowers, K.; Gallagher, G.; Gladden-Young, A.; Gnirke, A.; Harris, J.; J.E.; K.J.; LaRocqu Lagerborg, K.; Lemieux; Lin; Loreth, C.; MacInnis; Neumann, A.; Normandin, E.; P.C.; Park; Pierce, V.; Reilly, S.; Rosenberg; Rudy, M.; Ryan, E.; S.B.; Shaw, B.; Siddle; Slater, D.; Smole, S.; Tomkins-Tinch, C.; Turbett, S.				
EPI_ISL_791574, EPI_ISL_791612, EPI_ISL_791613, EPI_ISL_791701	Massachusetts State Public Health Laboratory	Infectious Disease Program, Broad Institute of Harvard and MIT	A.E.; Adams, G.; Anahtar, M.; B.L.; B.W.; Bauer, M.; Birren; Branda, J.; Carter, A.; Cerrato, F.; Chaluvadi, S.; Chapman; Cusick, C.; D.J.; DeRuff, K.; E. and Sabeti; Flowers, K.; Gallagher, G.; Gladden-Young, A.; Gnirke, A.; Harris, J.; J.E.; K.J.; LaRocque, R.; Lagerborg, K.; Lemieux; Lin; Loreth, C.; MacInnis; Neumann, A.; Normandin, E.; P.C.; Park; Pierce, V.; Reilly, S.; Rosenberg; Rudy, M.; Ryan, E.; S.B.; Shaw, B.; Siddle; Slater, D.; Smole, S.; Tomkins-Tinch, C.; Turbett, S.				
	604, EPI_ISL_804627, EPI_ISL_804707, EPI_ISL_80	14718, EPI_ISL_804748, EPI_ISL_804766, EPI_ISL_804785, EPI_ISL_804800					
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; Soehnlen MK				
EPI_ISL_812777, EPI_ISL_812779	Ministry of Health Turkey	Ministry of Health Turkey	Ayşe Başak Altaş; Fatma Bayrakdar; Gülay Korukluoğlu; Süleyman Yalcin; Yasemin Coşgun				
EPI_ISL_794154	NORTHWELL HEALTH LABORATORIES	Wadsworth Center, New York State Department.of Health	Alexis Russel; Daryl M. Lamson; Erasmus Schneider; Erica Lasek-Nesselquist; John Kelly; Jonathan Plitnick; Kirsten St. George; Matthew Shudt; Melissa A Leisner; Navjot Singh; Sara Griesemer				
EPI_ISL_803850	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	A. K. M. Shamsuzzaman; Abu Sayeed Mohammad Mahmud; Asish Kumar Ghosh; Barna Goswami; Bayzid Bin Monir; Eshrar Osman; Iffat Jahan; Mahmuda Yeasmin; Md. Ahasan Habib; Md. Maruf Ahmed Molla; Md. Masum Hossain Arif; Md. Murshed Hasan Sarkar; Md. Saddam Hossain; Md. Salim Khan; Mohammad Samir Uzzaman; Monira Parveen; Shahina Akter; Tanjina Akhter Banu; Tasnim Nafisa				
EPI_ISL_812240	North Dakota Department of Health, Public Health Laboratory	North Dakota Department of Health, Public Health Laboratory	Lisa Wingerter				
EPI_ISL_789104	Ohio Department of Health Laboratory	Ohio Department of Health Laboratory	Caitlin McDonnell; Eric Brandt; Erica Leasure; Glen McGillivary; Heather Blankenship; Holmes; Jennifer; Kelsey Florek; Keoni Omura; Kirtana Ramadugu; Quanta Brown; and Tammy Bannerman				
EPI_ISL_788948, EPI_ISL_788963, EPI_ISL_788969, EPI_ISL_788974	Ospedale "Di Venere"	Beaconlab (Bioinformatics, Evolution and Comparative Genomics lab), Dept of Biosciences, University on Milan	Chiara M; lacobellis M; Manzari C; Parisi A; Pesole G; Piluscio R; d'Avenia M				
EPI_ISL_794707	PathWest Laboratory Medicine WA	PathWest Laboratory Medicine WA Microbial Surveillance Unit	PathWest Laboratory Medicine WA Microbial Surveillance Unit				
EPI_ISL_803063 EPI_ISL_803876	Quest Diagnostics RSUD Tarakan Kalimantan Utara	Quest Diagnostics National Institute of Health Research and Development	Anderson, B.; D.F.; Gerasimova, A.; Hua, M.; K.E.; Kagan; Lacbawan, F.; Liu Y.; Livingston; Owen, R.; R.M.; Rosenthal; S.H.; Shalhout AA; HA; HD; Ikawati; K; KD; KNA; N; Nugraha; Pangesti; Pawestri; Puspa; Puspandari; R; Setiawaty; Sindunata; Soekarso; Sriwedari; Subangkit; T; V				
EPI_ISL_791989	RSUD Waluyo Jati Kota Kraksaan, Jawa	National Institute of Health Research and Development	AA; HA; HD; I; Ikawati; KD; KNA; Muhashonah; N; Nugraha; Pangesti; Pawestri; Puspa; Puspandari; Setiawaty; Soekarso; Subangkit; T; V				
EPI_ISL_791982	Timur RSUP DR KARIADI Semarang	National Institute of Health Research and Development	AA; HA; HD; I; Ikawati; KD; KNA; N; Nugraha; Pangesti; Pawestri; Puspa; Puspandari; Puspitasari; Setiawaty; Soekarso; Subangkit; T; V				
EPI_ISL_811078	Respiratory Virus Unit, National Infection Service, Public Health England	COVID-19 Genomics UK (COG-UK) Consortium	AA, riA; nJ; r, ikawat; kJ; kiva; ik wugiana; Pangest; Pawesti; Puspa; Puspandar; Puspitasar; Seuawaty; Soekarso; Subangkit; 1; v PHE Covid Sequencing Team				
EPI_ISL_803106	Respiratory Viruses Branch, Centers for Disease Control and Prevention	Respiratory Viruses Branch, Centers for Disease Control and Prevention	C.R.; Cook; Lee, J.; Li, Y.; Marine, R.; Montmayeur, A.; P.W.; Paden; Queen, K.; Sheth, M.; Tao, Y.; Tong, S.; Uehara, A.; Wang, H.				
EPI_ISL_794746	SISP ASL BA AREA SUD	Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata	Bianco A.; Capozzi L.; Cipolletta D.; Del Sambro L.; Galante D.; Manzulli V; Pace L.; Parisi A.; Rondinone V.				
EPI_ISL_796779	SYNLAB	Instituto Nacional de Saude (INSA)	Borges et al				
EPI_ISL_778843	Servicio Virosis Respiratorias-Departamento Virología-INEI	Instituto Nacional Enfermedades Infecciosas C.G.Malbran	Avaro M.; Baumeister E.; Benedetti E.; Campos J.; Cisterna D.; Dattero ME; Lorenzo F.; Molina V.; Perandones C.; Poklepovich T.; Pontoriero A.; Russo M.; Tuduri E.				
EPI_ISL_779858, EPI_ISL_779909	Servicio de Microbiología, Hospital Universitario Son Espases	SeqCOVID-SPAIN consortium/IBV(CSIC)	Antonio Oliver and SeqCOVID-SPAIN consortium; Carla López-Causapé; Jordi Reina				
EPI_ISL_796068, EPI_ISL_796112, EPI_ISL_796155	Servicio de Microbiología. Hospital General Universitario de Castellón	SeqCOVID-SPAIN consortium/IBV(CSIC)	María Dolores Tirado Balaguer and SeqCOVID-SPAIN consortium; Rosario Moreno Muñoz				
EPI_ISL_792084	Toronto Invasive Bacterial Diseases Network	McMaster University	Ahmed Draia; Allison McGeer; Andrew G. McArthur; Angel Li; Emily Panousis; Hooman Derakhshani; Jalees Nasir; Kuganya Nirmalarajah; Michael Surette; Patryk Aftanas; Samira Mubareka				
EPI_ISL_776706, EPI_ISL_776707	UW Virology Lab	UW Virology Lab	Alexander Greninger; Hong Xie; Keith R Jerome; Lasata Shrestha; Meei-Li Huang; Pavitra Roychoudhury				
EPI_ISL_812537, EPI_ISL_812546, EPI_ISL_812573, EPI_ISL_812587	United States Air Force School of Aerospace Medicine	United States Air Force School of Aerospace Medicine	Amanda Javorina; Anthony Fries; Clarise Starr; Elizabeth Macias; Jennifer Meyer; Sarah Purves; William Gruner				
EPI_ISL_775725, EPI_ISL_775			FP_ISL_776038, EPI_ISL_776047, EPI_ISL_776068, EPI_ISL_776087, EPI_ISL_776125, EPI_ISL_776134, EPI_ISL_776171, EPI_ISL_776180, EPI_ISL_776195, EPI_ISL_776208, EPI_ISL_776211, EPI_ISL_776214, EPI_ISL_776227, EPI_ISL_776238, EPI_ISL_776255,				
EPI_ISL_776276, EPI_ISL_776 see above	University Medical Center Hamburg	(6450, EPI_ISL_776474, EPI_ISL_776508, EPI_ISL_776520, EPI_ISL_776560 Heinrich Pette Institute, Leibniz Institute for Experimental Virology	Adam Grundhoff; Alexis Robitaille; Johannes Knobloch; Martin Aepfelbacher; Nicole Fischer; Thomas Günther				
EPI_ISL_791175	Eppendorf University of Wisconsin-Madison AIDS	University of Wisconsin-Madison AIDS Vaccine Research Laboratories	Gage Moreno; Katarina Braun; et al. AIDS Vaccine Research Laboratories				
EPI_ISL_802876,	Vaccine Research Laboratories Utah Public Health Laboratory	Utah Public Health Laboratory	Erin Young; Kelly Oakeson; Tara Gallagher				
EPI_ISL_802885, EPI_ISL_802935, EPI_ISL_802983, EPI_ISL_802987	dan autendan Eustrach,	Can't date redail capacitally	Elin Garg, Kely Gakeson, Gild Guinegrei.				
EPI_ISL_802577	Vault Health	Minnesota Department of Health, Public Health Laboratory	Alexandra Lorentz; Jacob Garfin; Matt Plumb; and Xiong Wang				
EPI_ISL_796630	Viollier AG	Department of Biosystems Science and Engineering, ETH Zürich	Andrea Patrignani; Andreia Cabral de Gouvea; Catharine Aquino; Chaoran Chen; Christiane Beckmann; Christoph Noppen; David Dreifuss; Doris Popovic; Griffin White; Ivan Topolsky; Jay Tracy; Katharina Jahn; Lara Fuhrmann; Laura Neff; Lennart Opitz; Maria Domenica Moccia; Maurice Redondo; Niko Beerenwinkel; Noemie Santamaria de Souza; Olivier Kobel; Philipp Jablonski; Ralph Schlapbach; Sarah Nadeau; Simon Grüter; Sophie Seidel; Tanja Stadler; Timothy Sykes				
EPI_ISL_794038, EPI_ISL_794080	Wadsworth Center, New York State Department.of Health	Wadsworth Center, New York State Department.of Health	Alexis Russel; Daryl M. Lamson; Erasmus Schneider; Erica Lasek-Nesselquist; John Kelly; Jonathan Plitnick; Kirsten St. George; Matthew Shudt; Melissa A Leisner; Navjot Singh; Sara Griesemer				
EPI_ISL_806873, EPI_ISL_806		06951, EPI_ISL_806993, EPI_ISL_807012, EPI_ISL_807034, EPI_ISL_807044, E					
see above Washington State Department of Health Seattle Flu Study Amanda Adler, Barry R. Lutz, Benjamin Pelle; Brian Hiatt; Caitlin R. Wolf; Chris D. Frazar, Deborah A. Nickerson; Elisabeth Brandstetter, Geoff Melly; Helen Y. Chu; Janet A. Englund; Jay Shendure; Jover Lee; Kairsten Fay; Kirsten Lacombe; Lea M. Starita, Mark J. Rieder; Matthew Richardson; Melissa Truong; Michael Boeckh; Michael Famulare; Misja Ilcisin; Peter D. Han; Philip Dykema; Romesh Gautom; Scott Lindquist; Thomas R. Sibley; Trevor Bedford EPI ISL 803274, EPI ISL 803360, EPI ISL 803365, EPI ISL 803367, EPI ISL 803367, EPI ISL 803469, EPI ISL 803469, EPI ISL 803471, EPI ISL 803617, EPI ISL 803637, EPI ISL 803674, EPI ISL 803586, EPI ISL 803846							