

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_925309, EPI_ISL_925310, EPI_ISL_925311, EPI_ISL_925312, EPI_ISL_925313, EPI_ISL_925314, EPI_ISL_925315, EPI_ISL_925316, EPI_ISL_925317, EPI_ISL_925318, EPI_ISL_925319, EPI_ISL_925320, EPI_ISL_925321, EPI_ISL_925322, EPI_ISL_925323, EPI_ISL_925324, EPI_ISL_925325, EPI_ISL_925326, EPI_ISL_925327, EPI_ISL_925328, EPI_ISL_925329, EPI_ISL_925330, EPI_ISL_925331, EPI_ISL_925332, EPI_ISL_925333, EPI_ISL_925334, EPI_ISL_925335, EPI_ISL_925336, EPI_ISL_925337, EPI_ISL_925338, EPI_ISL_925339, EPI_ISL_925340, EPI_ISL_925341, EPI_ISL_925342, EPI_ISL_925343, EPI_ISL_925344, EPI_ISL_925345, EPI_ISL_925346, EPI_ISL_925347, EPI_ISL_925348, EPI_ISL_925349, EPI_ISL_925350, EPI_ISL_925351, EPI_ISL_925352, EPI_ISL_925353, EPI_ISL_925354, EPI_ISL_925355, EPI_ISL_925356, EPI_ISL_925357, EPI_ISL_925358, EPI_ISL_925359, EPI_ISL_925360	Michigan Department of Agriculture and Rural Development	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Anna Uehara; Anna montmayeur; Brian Lynch; Clinton R. Paden; Haibin Wang; Jing Zhang; Krista Queen; Peter Cook; Rachel Marine; Suxiang Tong; Yan Li; Ying Tao
EPI_ISL_2834696, EPI_ISL_2834697	Michigan State University Veterinary Diagnostic Laboratory	Diagnostic Virology Laboratory, National Veterinary Services Laboratories, USDA1920 Dayton Avenue, Ames, IA 50010, USA	Emily R. Love; Kerrie M. Franzen; Mary L. Killian; Mia Torchetti; Suelee Robbe-Austerman; Tod P. Stuber
EPI_ISL_851055, EPI_ISL_851056, EPI_ISL_851057, EPI_ISL_851058, EPI_ISL_851059, EPI_ISL_851060, EPI_ISL_851061	National Food and Veterinary Risk Assessment Institute	Lithuanian University of Health Sciences, Molecular cardiology lab.	Aigirdas Malakauskas; Arnoldas Pautienius; Arunas Stankevicius; Astra Vitkauskiene; Dovydas Gecys; Ingrida Olendraitė; Kamile Tamauskaite; Laura Pareikaite; Lukas Zemaitis; Vaiva Lesauskaitė
see above			
EPI_ISL_1527630, EPI_ISL_1527631, EPI_ISL_1527632, EPI_ISL_1527633	Oregon Department of Agriculture	Diagnostic Virology Laboratory, National Veterinary Services Laboratories, USDA1920 Dayton Avenue, Ames, IA 50010, USA	Emily R. Love; Kerrie M. Franzen; Mary L. Killian; Mia Torchetti; Suelee Robbe-Austerman; Tod P. Stuber
EPI_ISL_626340, EPI_ISL_626341, EPI_ISL_626342, EPI_ISL_626343, EPI_ISL_626344, EPI_ISL_626345, EPI_ISL_626346, EPI_ISL_626347, EPI_ISL_626348, EPI_ISL_626349, EPI_ISL_626350, EPI_ISL_626351	Statens Serum Institute	Statens Serum Institute	A.S.; Afaro-Nunez, A.; Belsham, C.S.; Fonager, J.; Foomsgaard, A.; G.J.; Molenaar, J.; Hammer, Jorgensen, Lohse, L.; M.L.; M.W.; Mundbjerg, K.; Quaade; Rasmussen, M.; Rosenstjerne; Strandbygaard, B.; T.B.
EPI_ISL_2467943	The Laboratory of Biosafety with Pathogens Collection The Republican Research and Practical Center for Epidemiology and Microbiology (RRPECM)	Laboratory for HIV and opportunistic infections diagnosis The Republican Research and Practical Center for Epidemiology and Microbiology (RRPECM)	Anatoli Krasko; Artur Akhremchuk; Elena Gasic; Ilarion Kupryjnov; Inryna Subotsina; Kirill Bulda; Larysa Radzienava; Leonid Valentovich; Olga Klimovich; Olga Saleuska; Sergei Semenov
EPI_ISL_2834689, EPI_ISL_2834690, EPI_ISL_2834691, EPI_ISL_2834692, EPI_ISL_2834693, EPI_ISL_2834694, EPI_ISL_2834695, EPI_ISL_2834937, EPI_ISL_2834938, EPI_ISL_2834939, EPI_ISL_2834940, EPI_ISL_2834941, EPI_ISL_2834942, EPI_ISL_2834943, EPI_ISL_2834944, EPI_ISL_2834945, EPI_ISL_2896207, EPI_ISL_2896208, EPI_ISL_2896209, EPI_ISL_2896210, EPI_ISL_2896211, EPI_ISL_2896212, EPI_ISL_2896213	Utah Veterinary Diagnostic Laboratory	Diagnostic Virology Laboratory, National Veterinary Services Laboratories, USDA1920 Dayton Avenue, Ames, IA 50010, USA	Emily R. Love; Kerrie M. Franzen; Mary L. Killian; Mia Torchetti; Suelee Robbe-Austerman; Tod P. Stuber
see above			
EPI_ISL_431778, EPI_ISL_447626, EPI_ISL_447627, EPI_ISL_447628, EPI_ISL_447629, EPI_ISL_447630, EPI_ISL_447631, EPI_ISL_447632, EPI_ISL_447634	Virology, Wageningen Bioveterinary Research	Virology, Wageningen Bioveterinary Research	A. and van der Poel; Bouwstra, R.; Engelsma; Gerhards, N.; Hakze van der Honing; Harders, F.; Hissink, H.; M.Y.; Molenaar; Oreshkova, N.; R., J.; R.W.; Smit, L.; Stegeman; Stegeman, A.; Tacken, M.; Vreman, S.; W.H.M.; Weesendorp, E.; van der Poel; van der Poel, W.
see above			
EPI_ISL_2896203, EPI_ISL_2896204, EPI_ISL_2896205, EPI_ISL_2896206	Washington Animal Disease Diagnostic Laboratory	Diagnostic Virology Laboratory, National Veterinary Services Laboratories, USDA1920 Dayton Avenue, Ames, IA 50010, USA	Emily R. Love; Kerrie M. Franzen; Mary L. Killian; Mia Torchetti; Suelee Robbe-Austerman; Tod P. Stuber
EPI_ISL_1014949, EPI_ISL_1014950, EPI_ISL_1014951, EPI_ISL_1014952, EPI_ISL_1014953, EPI_ISL_1014954, EPI_ISL_1014955, EPI_ISL_1014956, EPI_ISL_1014957, EPI_ISL_1014958, EPI_ISL_1014959, EPI_ISL_1014960, EPI_ISL_1014961, EPI_ISL_1014962, EPI_ISL_1014963, EPI_ISL_1014964, EPI_ISL_1014965, EPI_ISL_1014966, EPI_ISL_1014967, EPI_ISL_1014968, EPI_ISL_1014969, EPI_ISL_1014970, EPI_ISL_1014971, EPI_ISL_1014972, EPI_ISL_1014973, EPI_ISL_1014974, EPI_ISL_1014975, EPI_ISL_1014976, EPI_ISL_1014977, EPI_ISL_1014978, EPI_ISL_1014979, EPI_ISL_1014980, EPI_ISL_1014981, EPI_ISL_1014982, EPI_ISL_1014983, EPI_ISL_1014984, EPI_ISL_1014985, EPI_ISL_1014986, EPI_ISL_1014987	Wisconsin Department of Agriculture, Trade, and Consumer	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Anna Montmayeur; Anna Uehara; Brian

EPI_ISL_2834698, EPI_ISL_2834699,
EPI_ISL_2834700, EPI_ISL_2834701,
EPI_ISL_2834702

Protection

Wisconsin Veterinary Diagnostic Laboratory

Control and Prevention

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