

Supplementary materials

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 - polymerase basic 2 protein gene - PB2
 - polymerase basic 1 protein gene - PB1
 - polymerase acidic protein gene - PA
 - haemagglutinin gene – HA
 - nucleoprotein – NP
 - neuraminidase gene - NA
 - matrix protein gene - MP
 - non-structural protein gene – NS

^alist of the sequences used for above analyses

- S5. Nucleotide differences among the sequences of the H5N1 viruses collected from the nineteen cats in Poland.

S1. List of strains identified in birds (wild and poultry) submitted to the GISAID database

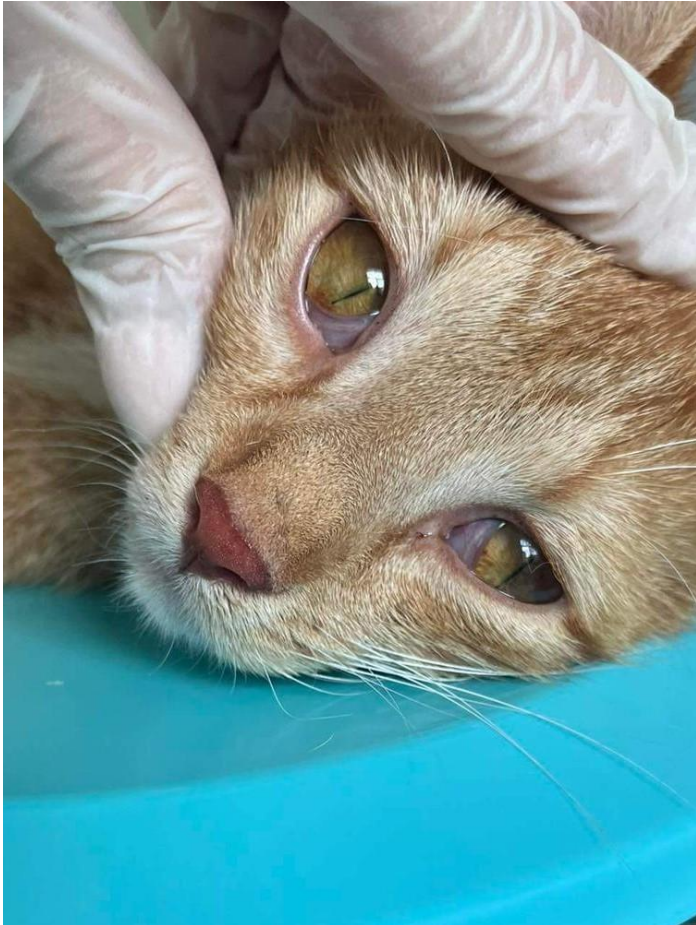
No	Isolate	Collection date	GISAID Isolate ID	Genotype
1	A/turkey/Poland/H427/2022(H5N1)	14-12-2022	EPI_ISL_18033134	CH
2	A/domestic_duck/Poland/H429/2022(H5N1)	15-12-2022	EPI_ISL_18032446	CH
3	A/domestic_duck/Poland/H433/2022(H5N1)	16-12-2022	EPI_ISL_18033137	CH
4	A/domestic_goose/Poland/H440/2022(H5N1)	17-12-2022	EPI_ISL_18032447	CH
5	A/domestic_duck/Poland/H439/2022(H5N1)	19-12-2022	EPI_ISL_18033139	CH
6	A/laying_hen/Poland/H443/2022(H5N1)	19-12-2022	EPI_ISL_18033140	CH
7	A/domestic_duck/Poland/H452-T/22(H5N1)	22-12-2022	EPI_ISL_18033152	CH
8	A/domestic_duck/Poland/H473-T/22(H5N1)	22-12-2022	EPI_ISL_18033157	CH
9	A/domestic_duck/Poland/H447/2022(H5N1)	22-12-2022	EPI_ISL_18033142	CH
10	A/domestic_goose/Poland/H458-T/22(H5N1)	23-12-2022	EPI_ISL_18033156	CH
11	A/mute_swan/Poland/MB268-TKL/2022(H5N1)	25-12-2022	EPI_ISL_18033161	CH
12	A/turkey/Poland/H463-T/22(H5N1)	26-12-2022	EPI_ISL_18033154	CH
13	A/domestic_duck/Poland/H460-T/22(H5N1)	26-12-2022	EPI_ISL_18033149	CH
14	A/domestic_duck/Poland/H470-K2T/22(H5N1)	27-12-2022	EPI_ISL_18033153	CH
15	A/buzzard/Poland/MB275-TKL/2022(H5N1)	28-12-2022	EPI_ISL_18033160	CH
16	A/domestic_duck/Poland/H487-T/22(H5N1)	28-12-2022	EPI_ISL_18033404	CH
17	A/domestic_duck/Poland/H477-T/22(H5N1)	28-12-2022	EPI_ISL_18033405	CH
18	A/domestic_duck/Poland/H482-T/22(H5N1)	29-12-2022	EPI_ISL_18033151	CH
19	A/domestic_duck/Poland/H485-N/22(H5N1)	29-12-2022	EPI_ISL_18033402	CH
20	A/domestic_duck/Poland/H09-T/23(H5N1)	30-12-2022	EPI_ISL_18033150	CH
21	A/turkey/Poland/H03-T/2023(H5N1)	2-1-2023	EPI_ISL_18033155	CH
22	A/turkey/Poland/H23-K2T/23(H5N1)	4-1-2023	EPI_ISL_18033399	CH
23	A/mute_swan/Poland/MB007-M1/23(H5N1)	4-1-2023	EPI_ISL_18033162	CH
24	A/mute_swan/Poland/MB012-M1/23(H5N1)	5-1-2023	EPI_ISL_18033163	CH
25	A/turkey/Poland/H26-T/23(H5N1)	7-1-2023	EPI_ISL_18033403	CH
26	A/laying_hen/Poland/H30-T/23(H5N1)	8-1-2023	EPI_ISL_18033401	CH

27	A/domestic_duck/Poland/H31-T/23(H5N1)	9-1-2023	EPI_ISL_18033400	CH
28	A/mute_swan/Poland/MB015/2023(H5N1)	10-1-2023	EPI_ISL_18032171	CH
29	A/mute_swan/Poland/MB014/2023(H5N1)	10-1-2023	EPI_ISL_18032166	CH
30	A/domestic_duck/Poland/H75-K1T1/2023(H5N1)	16-1-2023	EPI_ISL_18032444	CH
31	A/domestic_duck/Poland/H73-T1/2023(H5N1)	16-1-2023	EPI_ISL_18033168	CH
32	A/domestic_duck/Poland/H74-T1/2023(H5N1)	16-1-2023	EPI_ISL_18033170	CH
33	A/domestic_duck/Poland/H70-T1/2023(H5N1)	16-1-2023	EPI_ISL_18033169	CH
34	A/domestic_duck/Poland/H72-T1/2023(H5N1)	16-1-2023	EPI_ISL_18032204	CH
35	A/mute_swan/Poland/MB029/2023(H5N1)	16-1-2023	EPI_ISL_18033167	CH
36	A/domestic_duck/Poland/H77-T1/2023(H5N1)	17-1-2023	EPI_ISL_18033171	CH
37	A/domestic_duck/Poland/H78-K2T1/2023(H5N1)	17-1-2023	EPI_ISL_18033172	CH
38	A/domestic_duck/Poland/H84-T1/2023(H5N1)	18-1-2023	EPI_ISL_18033174	CH
39	A/turkey/Poland/H82-T1/2023(H5N1)	18-1-2023	EPI_ISL_18033173	CH
40	A/domestic_duck/Poland/H86-T1/2023(H5N1)	18-1-2023	EPI_ISL_18033175	CH
41	A/domestic_duck/Poland/H93-T1/2023(H5N1)	19-1-2023	EPI_ISL_18033406	CH
42	A/domestic_duck/Poland/H89-T1/2023(H5N1)	20-1-2023	EPI_ISL_18033407	CH
43	A/turkey/Poland/H90-K4T4/2023(H5N1)	21-1-2023	EPI_ISL_18033176	CH
44	A/raven/Poland/MB035/2023(H5N1)	22-1-2023	EPI_ISL_18033177	CH
45	A/domestic_duck/Poland/H96-T6/2023(H5N1)	23-1-2023	EPI_ISL_18033178	CH
46	A/mute_swan/Poland/MB037/2023(H5N1)	23-1-2023	EPI_ISL_18033179	CH
47	A/mute_swan/Poland/MB033/2023(H5N1)	24-1-2023	EPI_ISL_18033180	CH
48	A/mute_swan/Poland/MB113/2023(H5N1)	10-2-2023	EPI_ISL_18033192	CH
49	A/mute_swan/Poland/MB095-L1M/2023(H5N1)	14-2-2023	EPI_ISL_18032445	CH
50	A/chicken/Poland/H130-T/2023(H5N1)	20-2-2023	EPI_ISL_18033197	CH
51	A/mute_swan/Poland/MB107/2023(H5N1)	23-2-2023	EPI_ISL_18033198	CH
52	A/white_stork/Poland/MB244/2023(H5N1)	4-6-2023	EPI_ISL_17978700	CH
53	A/black-headed_gull/Poland/MB081/2023(H5N1)	7-2-2023	EPI_ISL_18033185	BB
54	A/black-headed_gull/Poland/MB121-M/2023(H5N1)	13-3-2023	EPI_ISL_18033200	BB
55	A/black-headed_gull/Poland/MB129-NJ/2023(H5N1)	22-3-2023	EPI_ISL_18033203	BB

56	A/black-headed_gull/Poland/MB131-J/2023(H5N1)	23-3-2023	EPI_ISL_18033204	BB
57	A/black-headed_gull/Poland/MB141-T/2023(H5N1)	20-4-2023	EPI_ISL_18033205	BB
58	A/black-headed_gull/Poland/MB209-NJ/2023(H5N1)	1-5-2023	EPI_ISL_18033232	BB
59	A/black-headed_gull/Poland/MB166/2023(H5N1)	5-5-2023	EPI_ISL_18033219	BB
60	A/black-headed_gull/Poland/MB168-M2/2023(H5N1)	5-5-2023	EPI_ISL_18033221	BB
61	A/black-headed_gull/Poland/MB176-M6/2023(H5N1)	5-5-2023	EPI_ISL_18033222	BB
62	A/Mediterranean_gull/Poland/MB204/2023(H5N1)	8-5-2023	EPI_ISL_18033231	BB
63	A/black-headed_gull/Poland/MB180-NMJ/2023(H5N1)	9-5-2023	EPI_ISL_18033223	BB
64	A/common_tern/Poland/MB182-NJ/2023(H5N1)	10-5-2023	EPI_ISL_18033226	BB
65	A/black-headed_gull/Poland/MB185-NJ/2023(H5N1)	10-5-2023	EPI_ISL_18033227	BB
66	A/black-headed_gull/Poland/MB198-NJ/2023(H5N1)	11-5-2023	EPI_ISL_18033229	BB
67	A/mute_swan/Poland/MB203-NJ/2023(H5N1)	11-5-2023	EPI_ISL_18033230	BB
68	A/black-headed_gull/Poland/MB211/2023(H5N1)	14-5-2023	EPI_ISL_18033234	BB
69	A/black-headed_gull/Poland/MB210/2023(H5N1)	16-5-2023	EPI_ISL_18033233	BB
70	A/mute_swan/Poland/MB045/2023(H5N1)	31-1-2023	EPI_ISL_18033181	AB
71	A/domestic_duck/Poland/H101-T2/2023(H5N1)	3-2-2023	EPI_ISL_18033182	AB
72	A/turkey/Poland/H103-T4/2023(H5N1)	3-2-2023	EPI_ISL_18033183	AB
73	A/turkey/Poland/H105-T4/2023(H5N1)	6-2-2023	EPI_ISL_18033184	AB
74	A/domestic_duck/Poland/H108-K3T1/2023(H5N1)	8-2-2023	EPI_ISL_18033186	AB
75	A/turkey/Poland/H110-T/2023(H5N1)	9-2-2023	EPI_ISL_18033187	AB
76	A/turkey/Poland/H111-T3/2023(H5N1)	10-2-2023	EPI_ISL_18033188	AB
77	A/turkey/Poland/H115-T/2023(H5N1)	10-2-2023	EPI_ISL_18033189	AB
78	A/turkey/Poland/H116-T/2023(H5N1)	10-2-2023	EPI_ISL_18033190	AB
79	A/turkey/Poland/H117-T2/2023(H5N1)	12-2-2023	EPI_ISL_18033193	AB
80	A/domestic_duck/Poland/H118-T4/2023(H5N1)	12-2-2023	EPI_ISL_18033194	AB
81	A/laying_hen/Poland/H126-KL2/2023(H5N1)	15-2-2023	EPI_ISL_18033195	AB
82	A/mallard/Poland/MB105/2023(H5N1)	1-3-2023	EPI_ISL_18033199	AB
83	A/domestic_duck/Poland/H148-T1/2023(H5N1)	21-3-2023	EPI_ISL_18033201	AB
84	A/domestic_duck/Poland/H149-NM/2023(H5N1)	21-3-2023	EPI_ISL_18033202	AB

S2. Photo's of diseased/necropsied cats.

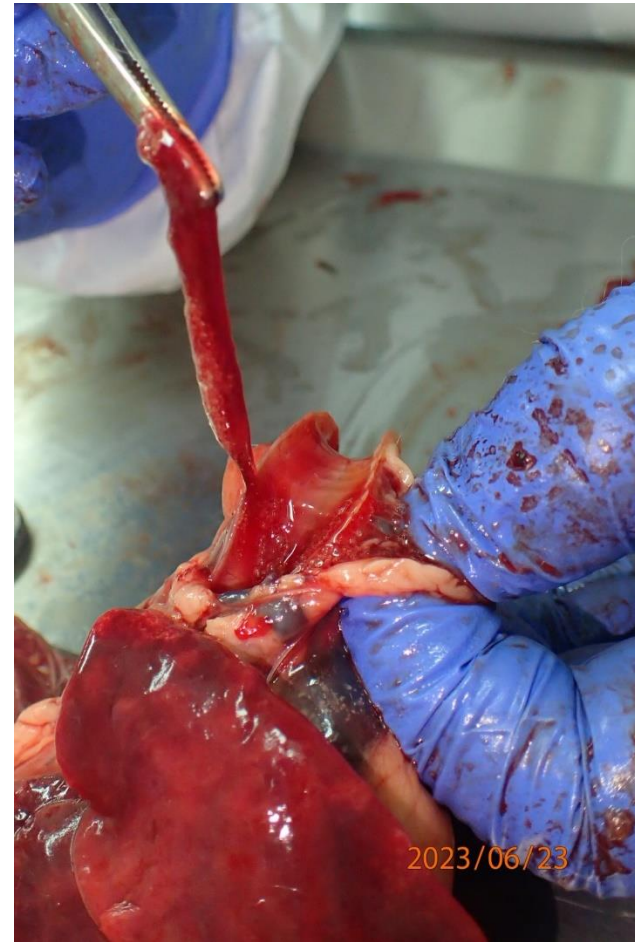
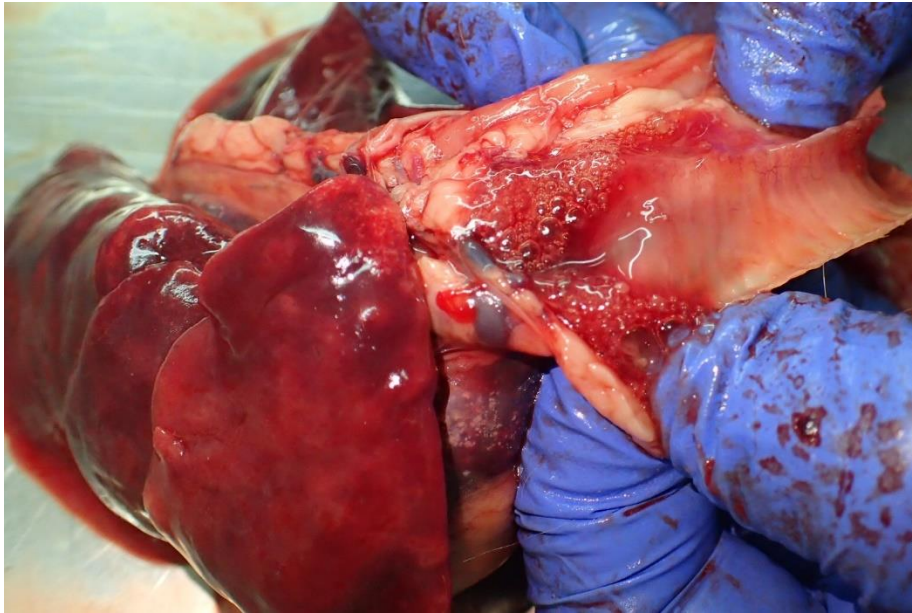
Constricted pupils of a cat unresponsive to light (*by Ł. Adaszek*).



S3. Detailed description of post-mortem lesions observed during examination of 11.

Post-mortem examination in 11 cats revealed the presence of lesions in every organ showed the presence of lesions in each organ, which were congested, sometimes swollen with the presence of bloody fluid (a detailed description of the postmortem lesions is included in the supplementary material).: red nasal cavity mucosa, covered with bloody fluid; presence of serum admixed with blood, thick, turbid fluid in the respiratory part of the pharynx (an example below); laryngeal and tracheal mucosa creamy red, locally dark red, with features of congestion. In addition, the presence of bloody, foamy, sometimes turbid and thick fluid was observed in the trachea; the lungs showed features of congestion, inflammation, shock, alveolar haemorrhages, with lighter foci of emphysema and darker foci of atelectasis, and had a cushion-like consistency; bloody fluid was observed in the pericardial sac, the spleen was enlarged, the pancreas was pink and at times locally red. Further, we noted the presence of white diffuse lesions with congestive features, kidneys with features of congestion, oedema and shock, with heterogeneous, uneven surface, clearly marked superficial vessels; the liver was brown, locally light brown or dark pink, with firm consistency, locally friable, with features of congestion, clearly marked lobular structure, presence of scattered interstitial lesions of infiltrative or hypertrophic character; the wall of the small and large intestine was locally thickened, the mucosa creamy-green; bloody fluid was present in the cranial cavity and subdurally; the superficial vessels of the brain were congested; brain tissue was in a partially decomposed state.

Recurrent mucous , clumped "pus" in the trachea that significantly impeded cats breathing (*by A. Świątalska*).



S4. Maximum likelihood phylogenetic trees of all segments of highly pathogenic avian influenza H5N1 viruses from cats (n = 19) and avian species (n = 84) in Poland as well as H5 sequences collected from different European countries (n = 161)^a

(cat sequences in red, bird sequences identified in Poland - blue)

The subsequent pages show the phylogenetic trees for the following segments:

polymerase basic 2 protein gene - PB2

polymerase basic 1 protein gene - PB1

polymerase acidic protein gene - PA

haemagglutinin gene – HA

nucleoprotein gene – NP

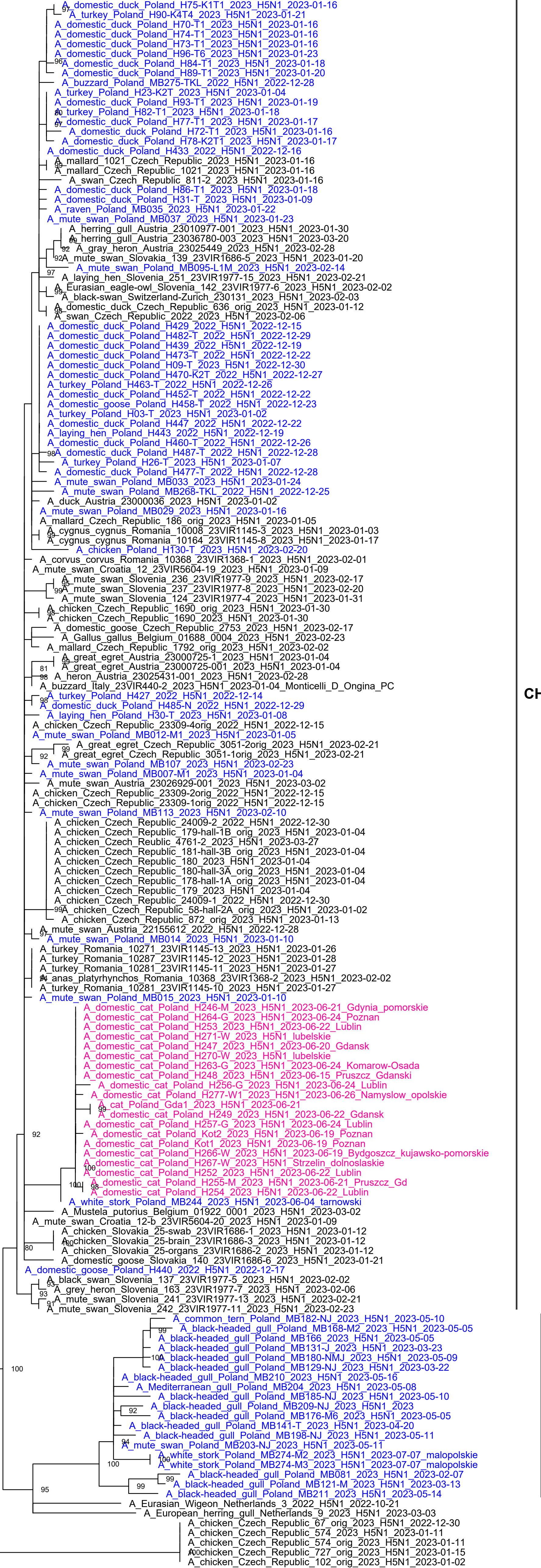
neuraminidase gene - NA

matrix protein gene - MP

non-structural protein gene – NS

^alist of the sequences used for the analyses. We gratefully acknowledge the authors, laboratories initiating and submitting sequences from the EpiFlu™ GISAID database on which this study is partly based.

PB2



CH

BB



PA



HA

A_domestic_cat_Poland_H246-M_2023_H5N1_2023-06-21_Gdynia_pomorskie
A_domestic_duck_Poland_H429_2022_H5N1_2022-12-15
A_domestic_duck_Poland_H70-T1_2023_H5N1_2023-01-16
A_domestic_duck_Poland_H447_2022_H5N1_2022-12-22
A_domestic_cat_Poland_H247_2023_H5N1_2023-06-20_Gdansk
A_chicken_Czech_Reublic_4761-2_2023_H5N1_2023-03-27
A_mute_swan_Slovakia_139_23VIR1686-5_2023_H5N1_2023-01-20
A_mallard_1021_Czech_Republic_2023_H5N1_2023-01-16
A_chicken_Czech_Republic_179_2023_H5N1_2023-01-04
A_mallard_Czech_Republic_1021_2023_H5N1_2023-01-16
A_domestic_cat_Poland_H264-G_2023_H5N1_2023-06-24_Poznan
A_domestic_cat_Poland_H254_2023_H5N1_2023-06-22_Lublin
A_chicken_Czech_Republic_178-hall-1A_orig_2023_H5N1_2023-01-04
A_white_stork_Poland_MB244_2023_H5N1_2023-05-04_Iarnowski
A_great_egret_Austria_23000725-1_2023_H5N1_2023-01-04
A_domestic_duck_Poland_H89-T1_2023_H5N1_2023-01-20
A_domestic_cat_Poland_H248_2023_H5N1_2023-06-15_Pruszcz_Gdansk
A_great_egret_Austria_23000725-001_2023_H5N1_2023-01-04
A_domestic_cat_Poland_H252_2023_H5N1_2023-06-22_Lublin
A_herring_gull_Austria_23010977-001_2023_H5N1_2023-01-30
A_domestic_duck_Poland_H74-T1_2023_H5N1_2023-01-16
A_domestic_cat_Poland_Kot2_2023_H5N1_2023-06-19_Poznan
A_domestic_duck_Poland_H09-T_2023_H5N1_2022-12-30
A_domestic_cat_Poland_H266-W_2023_H5N1_2023-06-19_Bydgoszcz_kujawsko-pomorskie
A_swan_Czech_Republic_811-2_2023_H5N1_2023-01-16
A_domestic_cat_Poland_Kot1_2023_H5N1_2023-06-19_Poznan
A_chicken_Czech_Republic_58-hall-2A_orig_2023_H5N1_2023-01-02
A_turkey_Poland_H427_2022_H5N1_2022-12-14
A_raven_Poland_MB035_2023_H5N1_2023-01-22
A_domestic_duck_Poland_H452-T_2022_H5N1_2022-12-22
A_mute_swan_Poland_MB037_2023_H5N1_2023-01-23
A_chicken_Czech_Republic_24009-1_2022_H5N1_2022-12-30
A_swan_Czech_Republic_2022_2023_H5N1_2023-02-06
A_turkey_Poland_H463-T_2022_H5N1_2022-12-26
A_gray_heron_Austria_23025449_2023_H5N1_2023-02-28
A_chicken_Czech_Republic_179-hall-1B_orig_2023_H5N1_2023-01-04
A_mallard_Czech_Republic_186_orig_2023_H5N1_2023-01-05
A_mute_swan_Poland_MB007-M1_2023_H5N1_2023-01-04
A_chicken_Czech_Republic_24009-2_2022_H5N1_2022-12-30
A_buzzard_Poland_MB275-TKL_2022_H5N1_2022-12-28
A_domestic_cat_Poland_H263-G_2023_H5N1_2023-06-24_Komarow-Osada
A_domestic_cat_Poland_H270-W_2023_H5N1_lubelskie
A_domestic_duck_Poland_H477-T_2022_H5N1_2022-12-28
A_domestic_duck_Poland_H86-T1_2023_H5N1_2023-01-18

A_cat_Poland_Gda1_2023_H5N1_2023-06-21
A_domestic_duck_Poland_H31-T_2023_H5N1_2023-01-09
A_domestic_cat_Poland_H257-G_2023_H5N1_2023-06-24_Lublin
A_domestic_duck_Poland_H73-T1_2023_H5N1_2023-01-16
A_domestic_duck_Poland_H96-T6_2023_H5N1_2023-01-23
A_cat_Poland_Gda1_2023_H5N1_2023-06-21
A_domestic_cat_Poland_H249_2023_H5N1_2023-06-22_Gdansk
A_duck_Austria_23000036_2023_H5N1_2023-01-02
A_domestic_cat_Poland_H255-M_2023_H5N1_2023-06-21_Pruszcz_Gd
A_domestic_cat_Poland_H267-W_2023_H5N1_Strzelin_dolnoslaskie
A_domestic_goose_Poland_H440_2022_H5N1_2022-12-17
A_mute_swan_Poland_MB268-TKL_2022_H5N1_2022-12-25
A_laying_hen_Slovenia_251_23VIR1977-15_2023_H5N1_2023-02-21
A_herring_gull_Austria_23036780-003_2023_H5N1_2023-03-20
A_domestic_duck_Poland_H433_2022_H5N1_2022-12-16
A_cygnus_cygnus_Romania_10008_23VIR1145-3_2023_H5N1_2023-01-03
A_cygnus_cygnus_Romania_10164_23VIR1145-8_2023_H5N1_2023-01-17
A_chicken_Czech_Republic_1690_orig_2023_H5N1_2023-01-30
A_chicken_Czech_Republic_1690_2023_H5N1_2023-01-30
A_mute_swan_Poland_MB033_2023_H5N1_2023-01-24
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A_mute_swan_Poland_MB015_2023_H5N1_2023-01-10
A_domestic_duck_Poland_H439_2022_H5N1_2022-12-19
A_chicken_Slovakia_25-swab_23VIR1686-1_2023_H5N1_2023-01-12
A_chicken_Slovakia_25-brain_23VIR1686-3_2023_H5N1_2023-01-12
A_chicken_Slovakia_25-organs_23VIR1686-2_2023_H5N1_2023-01-12
A_domestic_duck_Poland_H75-K1T1_2023_H5N1_2023-01-16
A_turkey_Poland_H90-K4T4_2023_H5N1_2023-01-21
A_domestic_cat_Poland_H271-W_2023_H5N1_lubelskie
A_domestic_duck_Poland_H473-T_2022_H5N1_2022-12-22
A_domestic_goose_Poland_H458-T_2022_H5N1_2022-12-23
A_chicken_Czech_Republic_180_2023_H5N1_2023-01-04
A_turkey_Poland_H03-T_2023_H5N1_2023-01-02
A_black_swan_Slovenia_137_23VIR1977-5_2023_H5N1_2023-02-02
A_grey_heron_Slovenia_163_23VIR1977-7_2023_H5N1_2023-02-06
A_mute_swan_Slovenia_241_23VIR1977-13_2023_H5N1_2023-02-21
A_mute_swan_Slovenia_242_23VIR1977-11_2023_H5N1_2023-02-23
A_domestic_cat_Poland_H253_2023_H5N1_2023-06-22_Lublin
A_mute_swan_Poland_MB012-M1_2023_H5N1_2023-01-05
A_domestic_duck_Poland_H72-T1_2023_H5N1_2023-01-16
A_domestic_duck_Poland_H78-K2T1_2023_H5N1_2023-01-17
A_domestic_duck_Poland_H77-T1_2023_H5N1_2023-01-17
A_turkey_Poland_H82-T1_2023_H5N1_2023-01-18
A_domestic_duck_Poland_H93-T1_2023_H5N1_2023-01-19
A_turkey_Poland_H23-K2T_2023_H5N1_2023-01-04
A_chicken_Czech_Republic_180-hall-3A_orig_2023_H5N1_2023-01-04
A_domestic_duck_Poland_H84-T1_2023_H5N1_2023-01-18
A_domestic_duck_Poland_H460-T_2022_H5N1_2022-12-26
A_turkey_Poland_H26-T_2023_H5N1_2023-01-07
A_laying_hen_Poland_H443_2022_H5N1_2022-12-19
A_domestic_duck_Poland_H487-T_2022_H5N1_2022-12-28
A_Eurasian_eagle-owl_Slovenia_142_23VIR1977-6_2023_H5N1_2023-02-02
A_black-swan_Switzerland-Zurich_230131_2023_H5N1_2023-02-03
A_domestic_duck_Poland_H482-T_2022_H5N1_2022-12-29

A_turkey_Romania_10271_23VIR1145-13_2023_H5N1_2023-01-26
A_corvus_corvus_Romania_10368_23VIR1368-1_2023_H5N1_2023-02-01
A_turkey_Romania_10281_23VIR1145-11_2023_H5N1_2023-01-27
A_turkey_Romania_10281_23VIR1145-10_2023_H5N1_2023-01-27
A_anas_platyrhynchos_Romania_10368_23VIR1368-2_2023_H5N1_2023-02-02
A_turkey_Romania_10287_23VIR1145-12_2023_H5N1_2023-01-28
A_great_egret_Czech_Republic_3051-2orig_2023_H5N1_2023-02-21
A_great_egret_Czech_Republic_3051-1orig_2023_H5N1_2023-02-21
A_mute_swan_Poland_MB107_2023_H5N1_2023-02-23
A_domestic_goose_Czech_Republic_2753_2023_H5N1_2023-02-17
A_domestic_goose_Czech_Republic_2753_2023_H5N1_2023-02-17_2_
A_mute_swan_Poland_MB113_2023_H5N1_2023-02-10
A_mute_swan_Austria_22155612_2022_H5N1_2022-12-28
A_mallard_Czech_Republic_1792_orig_2023_H5N1_2023-02-02
A_mute_swan_Poland_MB014_2023_H5N1_2023-01-10
A_domestic_goose_Slovakia_140_23VIR1686-6_2023_H5N1_2023-01-21
A_Gallus_gallus_Belgium_01688_0004_2023_H5N1_2023-02-23
A_Mustela_putorius_Belgium_01922_0001_2023_H5N1_2023-03-02
A_mute_swan_Croatia_12_23VIR5604-19_2023_H5N1_2023-01-09
A_mute_swan_Croatia_12-b_23VIR5604-20_2023_H5N1_2023-01-09
A_chicken_Poland_H130-T_2023_H5N1_2023-01-08
A_laying_hen_Poland_H30-T_2023_H5N1_2023-01-08
A_chicken_Czech_Republic_872_orig_2023_H5N1_2023-01-13
A_domestic_duck_Poland_H470-K2T_2022_H5N1_2022-12-27
A_mute_swan_Poland_MB029_2023_H5N1_2023-01-16
A_mute_swan_Austria_23026929-001_2023_H5N1_2023-03-02
A_domestic_cat_Poland_H277-W1_2023_H5N1_2023-06-26_Namyslow_opolskie
A_mute_swan_Poland_MB095-L1M_2023_H5N1_2023-02-14
A_heron_Austria_23025431-001_2023_H5N1_2023-02-28
A_chicken_Czech_Republic_181-hall-3B_orig_2023_H5N1_2023-01-04
A_domestic_duck_Czech_Republic_636_orig_2023_H5N1_2023-01-12
A_mute_swan_Slovenia_236_23VIR1977-9_2023_H5N1_2023-02-17
A_mute_swan_Slovenia_237_23VIR1977-8_2023_H5N1_2023-02-20
A_mute_swan_Slovenia_124_23VIR1977-4_2023_H5N1_2023-01-31

A_black-headed_gull_Poland_MB209-NJ_2023_H5N1_2023
A_black-headed_gull_Poland_MB176-M6_2023_H5N1_2023-05-05
A_black-headed_gull_Poland_MB185-NJ_2023_H5N1_2023-05-10
A_white_stork_Poland_MB274-M2_2023_H5N1_2023-07-07_malopolskie
A_white_stork_Poland_MB274-M3_2023_H5N1_2023-07-07_malopolskie
A_Mediterranean_gull_Poland_MB204_2023_H5N1_2023-05-08
A_black-headed_gull_Poland_MB210_2023_H5N1_2023-05-16
A_black-headed_gull_Poland_MB129-NJ_2023_H5N1_2023-03-22
A_black-headed_gull_Poland_MB131-J_2023_H5N1_2023-03-23
A_black-headed_gull_Poland_MB180-NMJ_2023_H5N1_2023-05-09
A_black-headed_gull_Poland_MB168-M2_2023_H5N1_2023-05-05
A_common_tern_Poland_MB182-NJ_2023_H5N1_2023-05-10
A_black-headed_gull_Poland_MB166_2023_H5N1_2023-05-05
A_black-headed_gull_Poland_MB141-T_2023_H5N1_2023-04-20
A_mute_swan_Poland_MB203-NJ_2023_H5N1_2023-05-11
A_black-headed_gull_Poland_MB198-NJ_2023_H5N1_2023-05-11
A_black-headed_gull_Poland_MB081_2023_H5N1_2023-02-07
A_black-headed_gull_Poland_MB121-M_2023_H5N1_2023-03-13
A_black-headed_gull_Poland_MB211_2023_H5N1_2023-05-14
A_chicken_Czech_Republic_67_orig_2023_H5N1_2022-12-30
A_chicken_Czech_Republic_102_orig_2023_H5N1_2023-01-02
A_chicken_Czech_Republic_574_2023_H5N1_2023-01-11
A_chicken_Czech_Republic_574_orig_2023_H5N1_2023-01-11
A_chicken_Czech_Republic_727_orig_2023_H5N1_2023-01-15
A_Eurasian_Wigeon_Netherlands_3_2022_H5N1_2022-10-21
A_European_herring_gull_Netherlands_9_2023_H5N1_2023-03-03
A_Tufted_duck_Denmark_11740-LWPL_2016_H5N8
A_Mulard_Duck_Hungary_59163_2016_H5N8
A_turkey_Israel_1045_2016_H5N8

A_chicken_Egypt_M14081D_2017_H5N8
A_Turkey_Egypt_AR550_2018_H5N8

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- A_turkey_Poland_H427_2022_H5N1_2022-12-14
- A_domestic_duck_Poland_H439_2022_H5N1_2022-12-19
- A_chicken_Czech_Republic_179_2023_H5N1_2023-01-04
- A_domestic_goose_Poland_H440_2022_H5N1_2022-12-17
- A_laying_hen_Poland_H30-T_2023_H5N1_2023-01-08
- A_mute_swan_Poland_MB014_2023_H5N1_2023-01-10
- A_turkey_Poland_H463-T_2022_H5N1_2022-12-26
- A_domestic_goose_Slovakia_140_23VIR1686-6_2023_H5N1_2023-01-21
- A_mute_swan_Poland_MB007-M1_2023_H5N1_2023-01-04
- A_heron_Austria_23025431-001_2023_H5N1_2023-02-28
- A_buzzard_Italy_23VIR440-2_2023_H5N1_2023-01-04_Monticelli_D_Ongina_PC
- A_mute_swan_Poland_MB268-TKL_2022_H5N1_2022-12-25
- A_mute_swan_Poland_MB033_2023_H5N1_2023-01-24
- A_turkey_Poland_H03-T_2023_H5N1_2023-01-02
- A_great_egret_Austria_23000725-001_2023_H5N1_2023-01-04
- A_domestic_duck_Poland_H31-T_2023_H5N1_2023-01-09
- A_domestic_duck_Poland_H477-T_2022_H5N1_2022-12-28
- A_chicken_Czech_Republic_23309-4orig_2022_H5N1_2022-12-15
- A_laying_hen_Poland_H443_2022_H5N1_2022-12-19
- A_chicken_Czech_Republic_178-hall-1A_orig_2023_H5N1_2023-01-04
- A_chicken_Czech_Republic_181-hall-3B_orig_2023_H5N1_2023-01-04
- A_chicken_Czech_Republic_23309-2orig_2022_H5N1_2022-12-15
- A_mute_swan_Slovenia_236_23VIR1977-9_2023_H5N1_2023-02-17
- A_chicken_Poland_H130-T_2023_H5N1_2023-02-20
- A_swan_Czech_Republic_2022_2023_H5N1_2023-02-06
- A_mute_swan_Slovenia_237_23VIR1977-8_2023_H5N1_2023-02-20
- A_mute_swan_Poland_MB095-L1M_2023_H5N1_2023-02-14
- A_great_egret_Austria_23000725-1_2023_H5N1_2023-01-04
- A_chicken_Czech_Republic_872_orig_2023_H5N1_2023-01-13
- A_chicken_Czech_Republic_180-hall-3A_orig_2023_H5N1_2023-01-04
- A_turkey_Poland_H26-T_2023_H5N1_2023-01-07
- A_mallard_Czech_Republic_1792_orig_2023_H5N1_2023-02-02
- A_chicken_Czech_Republic_180_2023_H5N1_2023-01-04
- A_mute_swan_Slovenia_124_23VIR1977-4_2023_H5N1_2023-01-31
- A_domestic_duck_Poland_H452-T_2022_H5N1_2022-12-22
- A_domestic_goose_Poland_H458-T_2022_H5N1_2022-12-23
- A_domestic_duck_Poland_H473-T_2022_H5N1_2022-12-22
- A_domestic_duck_Poland_H487-T_2022_H5N1_2022-12-28
- A_mute_swan_Poland_MB012-M1_2023_H5N1_2023-01-05
- A_duck_Austria_23000036_2023_H5N1_2023-01-02
- A_black-swan_Switzerland-Zurich_230131_2023_H5N1_2023-02-03
- A_chicken_Czech_Republic_179-hall-1B_orig_2023_H5N1_2023-01-04
- A_chicken_Czech_Republic_24009-2_2022_H5N1_2022-12-30
- A_chicken_Czech_Reublic_4761-2_2023_H5N1_2023-03-27
- A_chicken_Czech_Republic_58-hall-2A_orig_2023_H5N1_2023-01-02
- A_chicken_Czech_Republic_24009-1_2022_H5N1_2022-T2-30
- A_cygnus_cygnus_Romania_10008_23VIR1145-3_2023_H5N1_2023-01-03
- A_cygnus_cygnus_Romania_10164_23VIR1145-8_2023_H5N1_2023-01-17
- A_domestic_duck_Poland_H460-T_2022_H5N1_2022-12-26
- A_mute_swan_Austria_23026929-001_2023_H5N1_2023-03-02
- A_domestic_duck_Poland_H482-T_2022_H5N1_2022-12-29
- A_domestic_duck_Poland_H09-T_2023_H5N1_2022-12-30
- A_mute_swan_Poland_MB037_2023_H5N1_2023-01-23
- A_herring_gull_Austria_23010977-001_2023_H5N1_2023-01-30
- A_herring_gull_Austria_23036780-003_2023_H5N1_2023-03-20
- A_gray_heron_Austria_23025449_2023_H5N1_2023-02-28
- A_mallard_1021_Czech_Republic_2023_H5N1_2023-01-16
- A_mallard_Czech_Republic_1021_2023_H5N1_2023-01-16
- A_laying_hen_Slovenia_251_23VIR1977-15_2023_H5N1_2023-02-21
- A_mute_swan_Poland_MB029_2023_H5N1_2023-01-16
- A_mute_swan_Slovakia_139_23VIR1686-5_2023_H5N1_2023-01-20
- A_turkey_Poland_H23-K2T_2023_H5N1_2023-01-04
- A_turkey_Poland_H82-T1_2023_H5N1_2023-01-18
- A_domestic_duck_Poland_H78-K2T1_2023_H5N1_2023-01-17
- A_domestic_duck_Poland_H72-T1_2023_H5N1_2023-01-16
- A_domestic_duck_Poland_H93-T1_2023_H5N1_2023-01-19
- A_domestic_duck_Poland_H77-T1_2023_H5N1_2023-01-17
- A_Mustela_putorius_Belgium_01922_0001_2023_H5N1_2023-03-02
- A_domestic_goose_Czech_Republic_2753_2023_H5N1_2023-02-17
- A_domestic_goose_Czech_Republic_2753_2023_H5N1_2023-02-17_2_
- A_mute_swan_Poland_MB015_2023_H5N1_2023-01-10
- A_domestic_duck_Poland_H447_2022_H5N1_2022-12-22
- A_domestic_cat_Poland_H246-M_2023_H5N1_2023-06-21_Gdynia_pomorskie
- A_domestic_cat_Poland_H254_2023_H5N1_2023-06-22_Lublin
- A_domestic_cat_Poland_H257-G_2023_H5N1_2023-06-24_Lublin
- A_domestic_cat_Poland_H264-G_2023_H5N1_2023-06-24_Poznan
- A_domestic_cat_Poland_H270-W_2023_H5N1_lubelskie
- A_domestic_cat_Poland_Kot1_2023_H5N1_2023-06-19_Poznan
- A_domestic_cat_Poland_H277-W1_2023_H5N1_2023-06-26_Namyslow_opolskie
- A_white_stork_Poland_MB244_2023_H5N1_2023-06-04_tarnowski
- A_domestic_cat_Poland_H271-W_2023_H5N1_lubelskie
- A_domestic_cat_Poland_Kot2_2023_H5N1_2023-06-19_Poznan
- A_domestic_cat_Poland_H256-G_2023_H5N1_2023-06-24_Lublin
- A_domestic_cat_Poland_H266-W_2023_H5N1_2023-06-19_Bydgoszcz_kujawsko-pomorskie
- A_domestic_cat_Poland_H249_2023_H5N1_2023-06-22_Gdansk
- A_domestic_cat_Poland_H263-G_2023_H5N1_2023-06-24_Komarow-Osada
- A_domestic_cat_Poland_H248_2023_H5N1_2023-06-15_Pruszcz_Gdanski
- A_domestic_cat_Poland_H253_2023_H5N1_2023-06-22_Lublin
- A_domestic_cat_Poland_H247_2023_H5N1_2023-06-20_Gdansk
- A_cat_Poland_Gda1_2023_H5N1_2023-06-21
- A_domestic_cat_Poland_H255-M_2023_H5N1_2023-06-21_Pruszcz_Gd
- A_domestic_cat_Poland_H252_2023_H5N1_2023-06-22_Lublin
- A_domestic_cat_Poland_H267-W_2023_H5N1_Strzelin_dolnoslaskie
- A_mute_swan_Poland_MB107_2023_H5N1_2023-02-23
- A_chicken_Slovakia_25-swab_23VIR1686-1_2023_H5N1_2023-01-12
- A_chicken_Slovakia_25-brain_23VIR1686-3_2023_H5N1_2023-01-12
- A_chicken_Slovakia_25-organs_23VIR1686-2_2023_H5N1_2023-01-12
- A_swan_Czech_Republic_811-2_2023_H5N1_2023-01-16
- A_domestic_duck_Poland_H429_2022_H5N1_2022-12-15
- A_domestic_duck_Poland_H75-K1TT_2023_H5N1_2023-01-16
- A_domestic_duck_Poland_H96-T6_2023_H5N1_2023-01-23
- A_domestic_duck_Poland_H84-T1_2023_H5N1_2023-01-18
- A_domestic_duck_Poland_H89-T1_2023_H5N1_2023-01-20
- A_turkey_Poland_H90-K4T4_2023_H5N1_2023-01-21
- A_domestic_duck_Poland_H70-T1_2023_H5N1_2023-01-16
- A_domestic_duck_Poland_H73-T1_2023_H5N1_2023-01-16
- A_domestic_duck_Poland_H74-T1_2023_H5N1_2023-01-16
- A_domestic_duck_Poland_H86-T1_2023_H5N1_2023-01-18
- A_domestic_duck_Czech_Republic_636_orig_2023_H5N1_2023-01-12
- A_great_egret_Czech_Republic_3051-2orig_2023_H5N1_2023-02-21
- A_great_egret_Czech_Republic_3051-1orig_2023_H5N1_2023-02-21
- A_chicken_Czech_Republic_1690_orig_2023_H5N1_2023-01-30
- A_chicken_Czech_Republic_1690_2023_H5N1_2023-01-30
- A_domestic_duck_Poland_H485-N_2022_H5N1_2022-12-29
- A_mute_swan_Austria_22155612_2022_H5N1_2022-12-28
- A_chicken_Czech_Republic_23309-1orig_2022_H5N1_2022-12-15
- A_mute_swan_Poland_MB113_2023_H5N1_2023-02-10
- A_mallard_Czech_Republic_186_orig_2023_H5N1_2023-01-05
- A_turkey_Romania_10281_23VIR1145-10_2023_H5N1_2023-01-27
- A_corvus_corvus_Romania_10368_23VIR1368-1_2023_H5N1_2023-02-01
- A_turkey_Romania_10287_23VIR1145-12_2023_H5N1_2023-01-28
- A_turkey_Romania_10281_23VIR1145-11_2023_H5N1_2023-01-27
- A_anas_platyrhynchos_Romania_10368_23VIR1368-2_2023_H5N1_2023-02-02
- A_turkey_Romania_10271_23VIR1145-13_2023_H5N1_2023-01-26
- A_mute_swan_Croatia_12_23VIR5604-19_2023_H5N1_2023-01-09
- A_mute_swan_Croatia_12_23VIR5604-19_2023_H5N1_2023-01-09_2
- A_mute_swan_Croatia_12-b_23VIR5604-20_2023_H5N1_2023-01-09_2
- A_mute_swan_Croatia_12-b_23VIR5604-20_2023_H5N1_2023-01-09
- A_black_swan_Slovenia_137_23VIR1977-5_2023_H5N1_2023-02-02
- A_grey_heron_Slovenia_163_23VIR1977-7_2023_H5N1_2023-02-06
- A_mute_swan_Slovenia_241_23VIR1977-13_2023_H5N1_2023-02-21
- A_mute_swan_Slovenia_242_23VIR1977-11_2023_H5N1_2023-02-23
- A_domestic_duck_Poland_H433_2022_H5N1_2022-12-16
- A_raven_Poland_MB035_2023_H5N1_2023-01-22
- A_buzzard_Poland_MB275-TKL_2022_H5N1_2022-12-28
- A_Eurasian_eagle-owl_Slovenia_142_23VIR1977-6_2023_H5N1_2023-02-02
- A_domestic_duck_Poland_H470-K2T_2022_H5N1_2022-12-27
- A_Gallus_gallus_Belgium_01688_0004_2023_H5N1_2023-02-23

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- A_chicken_Czech_Republic_67_orig_2023_H5N1_2022-12-30
- A_chicken_Czech_Republic_102_orig_2023_H5N1_2023-01-02
- A_chicken_Czech_Republic_574_2023_H5N1_2023-01-11
- A_chicken_Czech_Republic_574_orig_2023_H5N1_2023-01-11
- A_chicken_Czech_Republic_727_orig_2023_H5N1_2023-01-15
- A_European_herring_gull_Netherlands_9_2023_H5N1_2023-03-03
- A_Eurasian_Wigeon_Netherlands_3_2022_H5N1_2022-10-21
- A_common_tern_Poland_MB182-NJ_2023_H5N1_2023-05-10
- A_black-headed_gull_Poland_MB166_2023_H5N1_2023-05-05
- A_black-headed_gull_Poland_MB180-NMJ_2023_H5N1_2023-05-09
- A_black-headed_gull_Poland_MB129-NJ_2023_H5N1_2023-03-22
- A_black-headed_gull_Poland_MB131-J_2023_H5N1_2023-03-23
- A_black-headed_gull_Poland_MB168-M2_2023_H5N1_2023-05-05
- A_black-headed_gull_Poland_MB210_2023_H5N1_2023-05-16
- A_Mediterranean_gull_Poland_MB204_2023_H5N1_2023-05-08
- A_black-headed_gull_Poland_MB185-NJ_2023_H5N1_2023-05-10
- A_black-headed_gull_Poland_MB209-NJ_2023_H5N1_2023
- A_black-headed_gull_Poland_MB176-M6_2023_H5N1_2023-05-05
- A_white_stork_Poland_MB274-M2_2023_H5N1_2023-07-07_malopolskie
- A_white_stork_Poland_MB274-M3_2023_H5N1_2023-07-07_malopolskie
- A_mute_swan_Poland_MB203-NJ_2023_H5N1_2023-05-11
- A_black-headed_gull_Poland_MB141-T_2023_H5N1_2023-04-20
- A_black-headed_gull_Poland_MB198-NJ_2023_H5N1_2023-05-11
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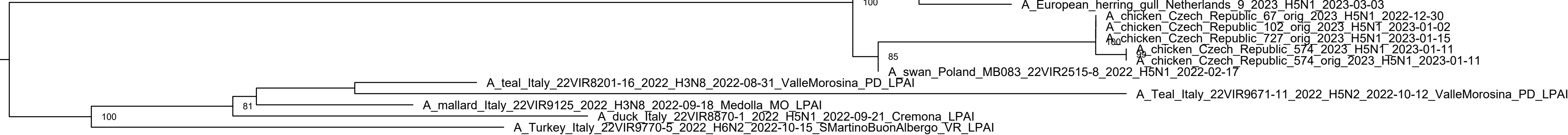
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A_swan_Czech_Republic_2022_2023_H5N1_2023-02-06
A_chicken_Czech_Republic_23309-1orig_2022_H5N1_2022-12-15
A_chicken_Czech_Republic_181-hall-3B_orig_2023_H5N1_2023-01-04
A_chicken_Czech_Republic_23309-2orig_2022_H5N1_2022-12-15
A_mute_swan_Poland_MB007-M1_2023_H5N1_2023-01-04
A_Taven_Poland_MB035_2023_H5N1_2023-01-22
A_buzzard_Poland_MB275-TKL_2022_H5N1_2022-12-28
A_turkey_Poland_H427_2022_H5N1_2022-12-14
A_mute_swan_Poland_MB014_2023_H5N1_2023-01-10
A_domestic_duck_Poland_H31-T_2023_H5N1_2023-01-09
A_great_egret_Czech_Republic_3051-2orig_2023_H5N1_2023-02-21
A_black_swan_Slovenia_137_23VIR1977-5_2023_H5NT_2023-02-02
A_grey_heron_Slovenia_163_23VIR1977-7_2023_H5N1_2023-02-06
A_domestic_duck_Poland_H429_2022_H5N1_2022-12-15
A_domestic_duck_Poland_H477-T_2022_H5N1_2022-12-28
A_domestic_duck_Poland_H460-T_2022_H5N1_2022-12-26
A_domestic_duck_Poland_H452-T_2022_H5N1_2022-12-22
A_turkey_Poland_H463-T_2022_H5N1_2022-12-26
A_domestic_duck_Poland_H470-K2T_2022_H5N1_2022-12-27
A_domestic_duck_Poland_H487-T_2022_H5N1_2022-12-28
A_domestic_duck_Poland_H447_2022_H5N1_2022-12-22
A_turkey_Poland_H26-T_2023_H5N1_2023-01-07
A_domestic_goose_Poland_H458-T_2022_H5N1_2022-12-23
A_turkey_Poland_H03-T_2023_H5N1_2023-01-02
A_domestic_duck_Poland_H482-T_2022_H5N1_2022-12-29
A_domestic_duck_Poland_H09-T_2023_H5N1_2022-12-30
A_laying_hen_Poland_H443_2022_H5N1_2022-12-19
A_domestic_duck_Poland_H473-T_2022_H5N1_2022-12-22
A_domestic_duck_Poland_H439_2022_H5N1_2022-12-19
A_domestic_goose_Poland_H440_2022_H5N1_2022-12-17
A_black-swan_Switzerland-Zurich_230131_2023_H5N1_2023-02-03
A_cygnus_cygnus_Romania_10164_23VIR1145-8_2023_H5N1_2023-01-17
A_cygnus_cygnus_Romania_10008_23VIR1145-3_2023_H5N1_2023-01-03
A_anas_platyrhynchos_Romania_10368_23VIR1368-2_2023_H5N1_2023-02-02
A_corvus_corvus_Romania_10368_23VIR1368-1_2023_H5N1_2023-02-01
A_turkey_Romania_10271_23VIR1145-13_2023_H5N1_2023-01-26
A_heron_Austria_23025431-001_2023_H5N1_2023-02-28
A_turkey_Romania_10281_23VIR1145-10_2023_H5N1_2023-01-27
A_turkey_Romania_10281_23VIR1145-11_2023_H5N1_2023-01-27
A_turkey_Romania_10287_23VIR1145-12_2023_H5N1_2023-01-28
A_domestic_cat_Poland_H246-M_2023_H5N1_2023-06-21_Gdynia_pomorskie
A_white_stork_Poland_MB244_2023_H5N1_2023-06-04_tarnowski
A_domestic_cat_Poland_H248_2023_H5N1_2023-06-15_Pruszcz_Gdanski
A_cat_Poland_Gda1_2023_H5N1_2023-06-21
A_domestic_cat_Poland_H257-G_2023_H5N1_2023-06-24_Lublin
A_domestic_cat_Poland_H277-W1_2023_H5N1_2023-06-26_Namyslow_opolskie
A_domestic_cat_Poland_H252_2023_H5N1_2023-06-22_Lublin
A_domestic_cat_Poland_H267-W_2023_H5N1_Strzelin_dolnoslaskie
A_domestic_cat_Poland_H249_2023_H5N1_2023-06-22_Gdansk
A_domestic_cat_Poland_H247_2023_H5N1_2023-06-20_Gdansk
A_domestic_cat_Poland_H254_2023_H5N1_2023-06-22_Lublin
A_domestic_cat_Poland_H263-G_2023_H5N1_2023-06-24_Komarow-Osada
A_domestic_cat_Poland_H266-W_2023_H5N1_2023-06-19_Bydgoszcz_kujawsko-pomorskie
A_domestic_cat_Poland_H270-W_2023_H5N1_lubelskie
A_domestic_cat_Poland_H253_2023_H5N1_2023-06-22_Lublin
A_domestic_cat_Poland_H264-G_2023_H5N1_2023-06-24_Poznan
A_domestic_cat_Poland_Kot1_2023_H5N1_2023-06-19_Poznan
A_domestic_cat_Poland_H265-M_2023_H5N1_2023-06-21_Pruszcz_Gd
A_domestic_cat_Poland_H256-G_2023_H5N1_2023-06-24_Lublin
A_domestic_cat_Poland_H271-W_2023_H5N1_lubelskie
A_domestic_cat_Poland_Kot2_2023_H5N1_2023-06-19_Poznan
A_mute_swan_Austria_23026929-001_2023_H5N1_2023-03-02
A_mute_swan_Croatia_12_23VIR5604-19_2023_H5N1_2023-01-09
A_mute_swan_Croatia_12-b_23VIR5604-20_2023_H5N1_2023-01-09
A_black-headed_gull_Poland_MB129-NJ_2023_H5N1_2023-03-22
A_black-headed_gull_Poland_MB131-J_2023_H5N1_2023-03-23
A_mute_swan_Poland_MB203-NJ_2023_H5N1_2023-05-11
A_black-headed_gull_Poland_MB198-NJ_2023_H5N1_2023-05-11
A_black-headed_gull_Poland_MB081_2023_H5N1_2023-02-07
A_black-headed_gull_Poland_MB209-NJ_2023_H5N1_2023
A_Mediterranean_gull_Poland_MB204_2023_H5N1_2023-05-08
A_black-headed_gull_Poland_MB176-M6_2023_H5N1_2023-05-05
A_black-headed_gull_Poland_MB185-NJ_2023_H5N1_2023-05-10
A_white_stork_Poland_MB274-M2_2023_H5N1_2023-07-07_malopolskie
A_white_stork_Poland_MB274-M3_2023_H5N1_2023-07-07_malopolskie
A_black-headed_gull_Poland_MB121-M_2023_H5N1_2023-03-13
A_black-headed_gull_Poland_MB211_2023_H5N1_2023-05-14
A_black-headed_gull_Poland_MB180-NMJ_2023_H5N1_2023-05-09
A_black-headed_gull_Poland_MB141-T_2023_H5N1_2023-04-20
A_black-headed_gull_Poland_MB168-M2_2023_H5N1_2023-05-05
A_black-headed_gull_Poland_MB166_2023_H5N1_2023-05-05
A_common_tern_Poland_MB182-NJ_2023_H5N1_2023-05-10
A_black-headed_gull_Poland_MB210_2023_H5N1_2023-05-16
A_Eurasian_Wigeon_Netherlands_3_2022_H5N1_2022-10-21
A_European_herring_gull_Netherlands_9_2023_H5N1_2023-03-03
A_chicken_Czech_Republic_67_orig_2023_H5N1_2022-12-30
A_chicken_Czech_Republic_102_orig_2023_H5N1_2023-01-02
A_chicken_Czech_Republic_727_orig_2023_H5N1_2023-01-15
A_chicken_Czech_Republic_574_2023_H5N1_2023-01-11
A_chicken_Czech_Republic_574_orig_2023_H5N1_2023-01-11

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A_domestic_duck_Poland_H433_2022_H5N1_2022-12-16
A_anas_platyrhynchos_Romania_10368_23VIR1368-2_2023_H5N1_2023-02-02
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A_corvus_corvus_Romania_10368_23VIR1368-1_2023_H5N1_2023-02-01
A_mute_swan_Slovakia_139_23VIR1686-5_2023_H5N1_2023-01-20
A_herring_gull_Austria_23010977-001_2023_H5N1_2023-01-30
A_herring_gull_Austria_23036780-003_2023_H5N1_2023-03-20
A_duck_Austria_23000036_2023_H5N1_2023-01-02
A_mute_swan_Slovenia_241_23VIR1977-13_2023_H5N1_2023-02-21
A_mute_swan_Poland_MB107_2023_H5N1_2023-02-23
A_chicken_Slovakia_25-organs_23VIR1686-2_2023_H5N1_2023-01-12
A_black_swan_Slovenia_137_23VIR1977-5_2023_H5N1_2023-02-02
A_chicken_Poland_H130-T_2023_H5N1_2023-02-20
A_turkey_Romania_10271_23VIR1145-13_2023_H5N1_2023-01-26
A_grey_heron_Slovenia_163_23VIR1977-7_2023_H5N1_2023-02-06
A_raven_Poland_MB035_2023_H5N1_2023-01-22
A_turkey_Romania_10287_23VIR1145-12_2023_H5N1_2023-01-28
A_turkey_Poland_H23-K2T_2023_H5N1_2023-01-04
A_domestic_duck_Poland_H78-K2T1_2023_H5N1_2023-01-17
A_domestic_duck_Czech_Republic_636_orig_2023_H5N1_2023-01-12
A_mute_swan_Slovenia_242_23VIR1977-11_2023_H5N1_2023-02-23
A_chicken_Slovakia_25-brain_23VIR1686-3_2023_H5N1_2023-01-12
A_gray_heron_Austria_23025449_2023_H5N1_2023-02-28
A_domestic_duck_Poland_H72-T1_2023_H5N1_2023-01-16
A_swan_Czech_Republic_811-2_2023_H5N1_2023-01-16
A_mute_swan_Poland_MB113_2023_H5N1_2023-02-10
A_chicken_Slovakia_25-swab_23VIR1686-1_2023_H5N1_2023-01-12
A_swan_Czech_Republic_2022_2023_H5N1_2023-02-06
A_turkey_Poland_H82-T1_2023_H5N1_2023-01-18
A_domestic_duck_Poland_H93-T1_2023_H5N1_2023-01-19
A_mallard_1021_Czech_Republic_2023_H5N1_2023-01-16
A_domestic_duck_Poland_H86-T1_2023_H5N1_2023-01-18
A_domestic_duck_Poland_H74-T1_2023_H5N1_2023-01-16
A_domestic_duck_Poland_H96-T6_2023_H5N1_2023-01-23
A_domestic_duck_Poland_H75-K1T1_2023_H5N1_2023-01-16
A_domestic_duck_Poland_H73-T1_2023_H5N1_2023-01-16
A_domestic_duck_Poland_H84-T1_2023_H5N1_2023-01-18
A_domestic_duck_Poland_H70-T1_2023_H5N1_2023-01-16
A_mallard_Czech_Republic_1021_2023_H5N1_2023-01-16
A_turkey_Poland_H90-K4T4_2023_H5N1_2023-01-21
A_mute_swan_Poland_MB095-L1M_2023_H5N1_2023-02-14
A_domestic_duck_Poland_H89-T1_2023_H5N1_2023-01-20
A_mute_swan_Poland_MB268-TKL_2022_H5N1_2022-12-25
A_great_egret_Austria_23000725-1_2023_H5N1_2023-01-04
A_great_egret_Austria_23000725-001_2023_H5N1_2023-01-04
A_buzzard_Italy_23VIR440-2_2023_H5N1_2023-01-04_Monticelli_D_Ongina_PC
A_heron_Austria_23025431-001_2023_H5N1_2023-02-28
A_turkey_Poland_H427_2022_H5N1_2022-12-14
A_domestic_duck_Poland_H485-N_2022_H5N1_2022-12-29
A_chicken_Czech_Republic_23309-4orig_2022_H5N1_2022-12-15
A_chicken_Czech_Republic_23309-1orig_2022_H5N1_2022-12-15
A_chicken_Czech_Republic_23309-2orig_2022_H5N1_2022-12-15
A_mute_swan_Croatia_12_23VIR5604-19_2023_H5N1_2023-01-09
A_mute_swan_Croatia_12-b_23VIR5604-20_2023_H5N1_2023-01-09
A_laying_hen_Poland_H30-T_2023_H5N1_2023-01-08
A_mute_swan_Poland_MB033_2023_H5N1_2023-01-24
A_chicken_Czech_Republic_24009-2_2022_H5N1_2022-12-30
A_chicken_Czech_Republic_181-hall-3B_orig_2023_H5N1_2023-01-04
A_chicken_Czech_Republic_872_orig_2023_H5N1_2023-01-13
A_chicken_Czech_Republic_178-hall-1A_orig_2023_H5N1_2023-01-04
A_chicken_Czech_Republic_179-hall-1B_orig_2023_H5N1_2023-01-04
A_chicken_Czech_Republic_179_2023_H5N1_2023-01-04
A_chicken_Czech_Reublic_4761-2_2023_H5N1_2023-03-27
A_chicken_Czech_Republic_58-hall-2A_orig_2023_H5N1_2023-01-02
A_chicken_Czech_Republic_24009-1_2022_H5N1_2022-12-30
A_chicken_Czech_Republic_180-hall-3A_orig_2023_H5N1_2023-01-04
A_chicken_Czech_Republic_180_2023_H5N1_2023-01-04
A_chicken_Czech_Republic_1690_orig_2023_H5N1_2023-01-30
A_chicken_Czech_Republic_1690_2023_H5N1_2023-01-30
A_domestic_duck_Poland_H31-T_2023_H5N1_2023-01-09
A_mute_swan_Poland_MB037_2023_H5N1_2023-01-23
A_cygnus_cygnus_Romania_10008_23VIR1145-3_2023_H5N1_2023-01-03
A_cygnus_cygnus_Romania_10164_23VIR1145-8_2023_H5N1_2023-01-17
A_buzzard_Poland_MB275-TKL_2022_H5N1_2022-12-28
A_turkey_Romania_10281_23VIR1145-10_2023_H5N1_2023-01-27
A_Eurasian_Wigeon_Netherlands_3_2022_H5N1_2022-10-21
A_Mustela_putorius_Belgium_01922_0001_2023_H5N1_2023-03-02
A_mute_swan_Poland_MB012-M1_2023_H5N1_2023-01-05
A_mallard_Czech_Republic_186_orig_2023_H5N1_2023-01-05
A_domestic_duck_Poland_H77-T1_2023_H5N1_2023-01-17
A_black-swan_Switzerland-Zurich_230131_2023_H5N1_2023-02-03
A_laying_hen_Slovenia_251_23VIR1977-15_2023_H5N1_2023-02-21
A_domestic_goose_Czech_Republic_2753_2023_H5N1_2023-02-17
A_domestic_goose_Czech_Republic_2753_2023_H5N1_2023-02-17_2_
A_Gallus_gallus_Belgium_01688_0004_2023_H5N1_2023-02-23
A_mallard_Czech_Republic_1792_orig_2023_H5N1_2023-02-02
A_mute_swan_Poland_MB015_2023_H5N1_2023-01-10
A_great_egret_Czech_Republic_3051-2orig_2023_H5N1_2023-02-21
A_great_egret_Czech_Republic_3051-1orig_2023_H5N1_2023-02-21
A_mute_swan_Slovenia_236_23VIR1977-9_2023_H5N1_2023-02-17
A_mute_swan_Slovenia_237_23VIR1977-8_2023_H5N1_2023-02-20
A_mute_swan_Slovenia_124_23VIR1977-4_2023_H5N1_2023-01-31
A_Eurasian_eagle-owl_Slovenia_142_23VIR1977-6_2023_H5N1_2023-02-02
A_mute_swan_Poland_MB007-M1_2023_H5N1_2023-01-04
A_mute_swan_Austria_23026929-001_2023_H5N1_2023-03-02
A_domestic_duck_Poland_H429_2022_H5N1_2022-12-15
A_domestic_duck_Poland_H487-T_2022_H5N1_2022-12-28
A_turkey_Poland_H03-T_2023_H5N1_2023-01-02
A_domestic_duck_Poland_H482-T_2022_H5N1_2022-12-29
A_mute_swan_Poland_MB029_2023_H5N1_2023-01-16
A_domestic_duck_Poland_H460-T_2022_H5N1_2022-12-26
A_domestic_duck_Poland_H09-T_2023_H5N1_2022-12-30
A_domestic_duck_Poland_H447_2022_H5N1_2022-12-22
A_turkey_Poland_H463-T_2022_H5N1_2022-12-26
A_domestic_duck_Poland_H473-T_2022_H5N1_2022-12-22
A_domestic_duck_Poland_H452-T_2022_H5N1_2022-12-22
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A_domestic_goose_Poland_H458-T_2022_H5N1_2022-12-23
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A_domestic_duck_Poland_H470-K2T_2022_H5N1_2022-12-27
A_domestic_duck_Poland_H477-T_2022_H5N1_2022-12-28
A_domestic_goose_Poland_H440_2022_H5N1_2022-12-17
A_mute_swan_Austria_22155612_2022_H5N1_2022-12-28
A_mute_swan_Poland_MB014_2023_H5N1_2023-01-10
A_domestic_goose_Slovakia_140_23VIR1686-6_2023_H5N1_2023-01-21
A_domestic_cat_Poland_H246-M_2023_H5N1_2023-06-21_Gdynia_pomorskie
A_domestic_cat_Poland_H257-G_2023_H5N1_2023-06-24_Lublin
A_domestic_cat_Poland_H277-W1_2023_H5N1_2023-06-26_Namyslow_opolskie
A_domestic_cat_Poland_H247_2023_H5N1_2023-06-20_Gdansk
A_domestic_cat_Poland_H271-W_2023_H5N1_lubelskie
A_domestic_cat_Poland_H264-G_2023_H5N1_2023-06-24_Poznan
A_domestic_cat_Poland_H253_2023_H5N1_2023-06-22_Lublin
A_domestic_cat_Poland_H263-G_2023_H5N1_2023-06-24_Komarow-Osada
A_domestic_cat_Poland_H267-W_2023_H5N1_Strzelin_dolnoslaskie
A_domestic_cat_Poland_H266-W_2023_H5N1_2023-06-19_Bydgoszcz_kujawsko-pomorskie
A_domestic_cat_Poland_H249_2023_H5N1_2023-06-22_Gdansk
A_domestic_cat_Poland_H270-W_2023_H5N1_lubelskie
A_cat_Poland_Gda1_2023_H5N1_2023-06-21
A_domestic_cat_Poland_Kot2_2023_H5N1_2023-06-19_Poznan
A_domestic_cat_Poland_H248_2023_H5N1_2023-06-15_Pruszcz_Gdanski
A_domestic_cat_Poland_H252_2023_H5N1_2023-06-22_Lublin
A_domestic_cat_Poland_H254_2023_H5N1_2023-06-22_Lublin
A_domestic_cat_Poland_Kot1_2023_H5N1_2023-06-19_Poznan
A_domestic_cat_Poland_H256-G_2023_H5N1_2023-06-24_Lublin
A_domestic_cat_Poland_H255-M_2023_H5N1_2023-06-21_Pruszcz_Gd
A_white_stork_Poland_MB244_2023_H5N1_2023-06-04_tarnowski

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A_black-headed_gull_Poland_MB131-J_2023_H5N1_2023-03-23
A_black-headed_gull_Poland_MB180-NMJ_2023_H5N1_2023-05-09
A_black-headed_gull_Poland_MB168-M2_2023_H5N1_2023-05-05
A_common_tern_Poland_MB182-NJ_2023_H5N1_2023-05-10
A_black-headed_gull_Poland_MB166_2023_H5N1_2023-05-05
A_black-headed_gull_Poland_MB129-NJ_2023_H5N1_2023-03-22
A_black-headed_gull_Poland_MB210_2023_H5N1_2023-05-16
A_Mediterranean_gull_Poland_MB204_2023_H5N1_2023-05-08
A_black-headed_gull_Poland_MB176-M6_2023_H5N1_2023-05-05
A_black-headed_gull_Poland_MB185-NJ_2023_H5N1_2023-05-10
A_white_stork_Poland_MB274-M2_2023_H5N1_2023-07-07_malopolskie
A_white_stork_Poland_MB274-M3_2023_H5N1_2023-07-07_malopolskie
A_black-headed_gull_Poland_MB209-NJ_2023_H5N1_2023
A_mute_swan_Poland_MB203-NJ_2023_H5N1_2023-05-11
A_black-headed_gull_Poland_MB198-NJ_2023_H5N1_2023-05-11
A_black-headed_gull_Poland_MB081_2023_H5N1_2023-02-07
A_black-headed_gull_Poland_MB121-M_2023_H5N1_2023-03-13
A_black-headed_gull_Poland_MB211_2023_H5N1_2023-05-14
A_black-headed_gull_Poland_MB141-T_2023_H5N1_2023-04-20
A_chicken_Czech_Republic_67_orig_2023_H5N1_2022-12-30
A_chicken_Czech_Republic_727_orig_2023_H5N1_2023-01-15
A_chicken_Czech_Republic_574_2023_H5N1_2023-01-11
A_chicken_Czech_Republic_574_orig_2023_H5N1_2023-01-11
A_chicken_Czech_Republic_102_orig_2023_H5N1_2023-01-02

^alist of the sequences used for above analyses.

We gratefully acknowledge the authors, originating and submitting laboratories of the sequences from GISAID's EpiFlu™ Database on which this research is based in part. The list is detailed below.

All submitters of data may be contacted directly via www.gisaid.org

Isolate-ID	Country	Collection date	Isolatename	Originating Lab	Submitting Lab	Authors
EPI_ISL_17514173	Austria	2023-Jan-30	A/black-headedgull/Austria/23010977-001/2023	Institute for Veterinary Disease Control Moedling, Austrian Agency for Health and Food Safety	Austrian Agency for Health and Food Safety (AGES)	n.a.
EPI_ISL_17514178	Austria	2023-Mar-20	A/black-headed_gull/Austria/23036780-003/2023	Institute for Veterinary Disease Control Moedling, Austrian Agency for Health and Food Safety	Austrian Agency for Health and Food Safety (AGES)	n.a.
EPI_ISL_17512128	Austria	2022-Dec-28	A/mute_swan/Austria/22155612/2022	Institute for Veterinary Disease Control Moedling, Austrian Agency for Health and Food Safety	Austrian Agency for Health and Food Safety (AGES)	n.a.
EPI_ISL_17716087	Austria	2023-Mar-02	A/mute_swan/Austria/23026929-001/2023	Austrian Agency for Health and Food Safety (AGES)	Austrian Agency for Health and Food Safety (AGES)	n.a.
EPI_ISL_17514169	Austria	2023-Feb-28	A/gray_heron/Austria/23025449/2023	Institute for Veterinary Disease Control Moedling, Austrian Agency for Health and Food Safety	Austrian Agency for Health and Food Safety (AGES)	n.a.
EPI_ISL_17514127	Austria	2023-Jan-04	A/great_egret/Austria/23000725-001/2023	Institute for Veterinary Disease Control Moedling, Austrian Agency for Health and Food Safety	Austrian Agency for Health and Food Safety (AGES)	n.a.
EPI_ISL_17716086	Austria	2023-Feb-28	A/heron/Austria/23025431-001/2023	Austrian Agency for Health and Food Safety (AGES)	Austrian Agency for Health and Food Safety (AGES)	n.a.
EPI_ISL_17511728	Austria	2023-Jan-02	A/duck/Austria/23000036/2023	NRL for avian influenza Moedling	Austrian Agency for Health and Food Safety (AGES)	'Institute_for_Veterinary_Disease_Control_Moedling, Institute_for_Medical_Microbiology_and_Hygiene_Vien na'
EPI_ISL_17514127	Austria	2023-Jan-04	A/great_egret/Austria/23000725-001/2023	Institute for Veterinary Disease Control Moedling, Austrian Agency for Health and Food Safety	Austrian Agency for Health and Food Safety (AGES)	n.a.
EPI_ISL_17514173	Austria	2023-Jan-30	A/black-headed gull/Austria/23010977-001/2023	Institute for Veterinary Disease Control Moedling, Austrian Agency for Health and Food Safety	Austrian Agency for Health and Food Safety (AGES)	n.a.
EPI_ISL_17246921	Belgium	2023-Mar-02	A/Mustela_putorius/Belgium/01922_0001/2023	Sciensano - Animal Infectious Diseases	Sciensano, Department of Animal Infectious Diseases	Van Borm, Steven; Roupie, Virginie; Hostyn, Pierre; Mathijs, Elisabeth; Lambrecht, Benedicte; Steensels, Mieke
EPI_ISL_17245142	Belgium	2023-Feb-23	A/Gallus_gallus/Belgium/01688_0004/2023	Sciensano - Animal Infectious Diseases	Sciensano, Department of Animal Infectious Diseases	Van Borm, Steven; Roupie, Virginie; Hostyn, Pierre; Mathijs, Elisabeth; Lambrecht, Benedicte; Steensels, Mieke
EPI_ISL_17015365	Czech Republic	2023-Feb-17	A/domestic_goose/Czech_Republic/2753/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara

EPI_ISL_1 6997759	Czech Republic	2023-Feb-06	A/mute_swan/Czech_Rep blic/2022/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6937306	Czech Republic	2023-Jan-16	A/swan/Czech_Republic/8 11-2/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 7584808	Czech Republic	2023-Mar-27	A/chicken/Czech_Reublic/4 761-2/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 7164988	Czech Republic	2022-Dec-15	A/chicken/Czech_Republic/ 23309-4orig/2022	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 7164987	Czech Republic	2022-Dec-15	A/chicken/Czech_Republic/ 23309-2orig/2022	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 7164986	Czech Republic	2022-Dec-15	A/chicken/Czech_Republic/ 23309-1orig/2022	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6997753	Czech Republic	2023-Jan-30	A/chicken/Czech_Republic/ 1690_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6997752	Czech Republic	2023-Jan-30	A/chicken/Czech_Republic/ 1690/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6939160	Czech Republic	2023-Jan-13	A/chicken/Czech_Republic/ 872_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cern?kova;Martina,Stara
EPI_ISL_1 6937305	Czech Republic	2023-Jan-15	A/chicken/Czech_Republic/ 727_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6937297	Czech Republic	2022-Dec-30	A/chicken/Czech_Republic/ 24009-2/2022	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6937296	Czech Republic	2022-Dec-30	A/chicken/Czech_Republic/ 24009-1/2022	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6937294	Czech Republic	2023-Jan-11	A/chicken/Czech_Republic/ 574_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6937293	Czech Republic	2023-Jan-04	A/chicken/Czech_Republic/ 180/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6937292	Czech Republic	2023-Jan-04	A/chicken/Czech_Republic/ 179/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6638696	Czech Republic	2023-Jan-11	A/chicken/Czech_Republic/ 574/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6613712	Czech Republic	2023-Jan-02	A/chicken/Czech_Republic/ 102_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6613711	Czech Republic	2022-Dec-30	A/chicken/Czech_Republic/ 67_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6937295	Czech Republic	2023-Jan-12	A/domestic_duck/Czech_R epublic/636_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 7164994	Czech Republic	2023-Feb-21	A/great_egret/Czech_Rep blic/3051-2orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 7164993	Czech Republic	2023-Feb-21	A/great_egret/Czech_Rep blic/3051-1orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6997758	Czech Republic	2023-Feb-02	A/mallard/Czech_Republic/ 1792_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6937308	Czech Republic	2023-Jan-16	A/mallard/Czech_Republic/ 1021/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6613717	Czech Republic	2023-Jan-05	A/mallard/Czech_Republic/ 186_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara

EPI_ISL_1 6613713	Czech Republic	2023-Jan-04	A/chicken/Czech_Republic/ 178_shed-1A_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6613714	Czech Republic	2023-Jan-04	A/chicken/Czech_Republic/ 179_shed-1B_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6937293	Czech Republic	2023-Jan-04	A/chicken/Czech_Republic/ 180/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 7164983	Czech Republic	2023-Jan-04	A/chicken/Czech_Republic/ 181_shed-3B_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 7164991	Czech Republic	2023-Jan-02	A/chicken/Czech_Republic/ 58_shed-2A_orig/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6937308	Czech Republic	2023-Jan-16	A/mallard/Czech_Republic/ 1021/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 6997759	Czech Republic	2023-Feb-06	A/mute_swan/Czech_Rep ublic/2022/2023	State Veterinary Institute Prague	State Veterinary Institute Prague	Alexander,Nagy;Lenka,Cernikova;Martina,Stara
EPI_ISL_1 7767223	Denmar k	2016-Nov-07	A/Tuftedduck/Denmark/11 740-LWPL/2016	Southeast Poultry Research Laboratory (USDA-ARS)	Import from public-domain	Leyson,C.; Youk,S.S.; Smith,D.; Dimitrov,K.; Lee,D.H.; Larsen,L.E.; Swayne,D.E.; Pantin-Jackwood,M.J.
EPI_ISL_3 99767	Denmar k	2016-Nov-07	A/tuftedduck/Denmark/11 740-LWPL/2016	n.a.	Import from public-domain	Leyson,C.; Youk,S.S.; Smith,D.; Dimitrov,K.; Lee,D.H.; Larsen,L.E.; Swayne,D.E.; Pantin-Jackwood,M.J.; Lee,D.-h.
EPI_ISL_3 99767	Denmar k	2016-Nov-07	A/tufted duck/Denmark/11740- LWPL/2016	n.a.	Import from public-domain	Leyson,C.; Youk,S.S.; Smith,D.; Dimitrov,K.; Lee,D.H.; Larsen,L.E.; Swayne,D.E.; Pantin-Jackwood,M.J.; Lee,D.-h.
EPI_ISL_3 44539	Egypt	2018-Mar-28	A/Turkey/Egypt/AR550/20 18	Poultry Diseases Department ,Faculty of Veterinary Medicine, Beni-Suef University	Friedrich-Loeffler-Institut	Hassan ,KE; King,J ; El-Kady, MF; Abohamra ,S; Pohlmann, A ; Harder, TC
EPI_ISL_3 89751	Egypt	2017-May-10	A/chicken/Egypt/M14081D /2017	n.a.	Import from public-domain	Kandeil,A.; Webby,R.; McKenzie,P.; Kayali,G.; Ali,M.A.
EPI_ISL_2 71714	Hungary	2016-Nov-24	A/Mulard_duck/Hungary/5 9163/2016	National Food Chain Safety Office Veterinary Diagnostic Directorate Laboratory for Molecular Biology	Danam.Vet.Molbiol	Adam, Dan
EPI_ISL_3 78256	Hungary	2016-Nov-24	A/MulardDuck/Hungary/59 163/2016	n.a.	Import from public-domain	Tatar-Kis,T.; Dan,A.; Felfoldi,B.; Balint,A.; Ronai,Z.; Dauphin,G.; Penzes,Z.; El-Attrache,J.; Gardin,Y.; Palya,V.
EPI_ISL_2 98640	Israel	2016-Dec-20	A/turkey/Israel/1045/2016	n.a.	Import from public-domain	Shkoda,I.; Lapin,K.; Simanov,L.; Lublin,A.
EPI_ISL_1 6979816	Italy	2023-Jan-04	A/buzzard/Italy/23VIR440- 2/2023	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	n.a.
EPI_ISL_1 8010932	Netherla nds	2023-Jun-24	A/SandwichTern/Netherlan ds/9/2023	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 7821075	Netherla nds	2023-Jun-02	A/CommonTern/Netherlan ds/9/2023	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 7626174	Netherla nds	2023-Apr-04	A/Peregrinefalcon/Netherla nds/9/2023	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 7267157	Netherla nds	2023-Mar-03	A/Europeanherringgull/Net herlands/9/2023	Erasmus Medical Center	Erasmus Medical Center	n.a.

EPI_ISL_1 7208165	Netherla nds	2023-Feb-19	A/Black- headedgull/Netherlands/9/ 2023	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 6056569	Netherla nds	2022-Nov-15	A/Gadwall/Netherlands/3/ 2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 5925882	Netherla nds	2022-Oct-21	A/EurasianWigeon/Netherl ands/3/2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 5759949	Netherla nds	2022-Oct-22	A/CommonTeal/Netherlan ds/3/2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 5267024	Netherla nds	2022-Jul-10	A/NorthernGannet/Netherl ands/3/2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 5088306	Netherla nds	2022-Aug-18	A/Mallard/Netherlands/3/2 022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 5088303	Netherla nds	2022-Aug-29	A/LesserBlack- backedGull/Netherlands/3/ 2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 4233919	Netherla nds	2022-Jul-24	A/EurasianSpoonbill/Nethe rlands/3/2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 3613230	Netherla nds	2022-Jun-13	A/CommonTern/Netherlan ds/3/2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 3429297	Netherla nds	2022-Jun-03	A/SandwichTern/Netherlan ds/3/2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 2514681	Netherla nds	2022-Apr-14	A/EuropeanHerringGull/Ne therlands/3/2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 2514483	Netherla nds	2022-Apr-14	A/CaspianGull/Netherlands /3/2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 2514425	Netherla nds	2022-Apr-14	A/Black- headedgull/Netherlands/3/ 2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 1560325	Netherla nds	2022-Mar-15	A/Greatblack- backedGull/Netherlands/3/ 2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_9 261745	Netherla nds	2022-Jan-11	A/Barnaclegoose/Netherla nds/3/2022	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 7267157	Netherla nds	2023-Mar-03	A/European_herring_gull/ Netherlands/9/2023	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 5925882	Netherla nds	2022-Oct-21	A/Eurasian Wigeon/Netherlands/3/202 2	Erasmus Medical Center	Erasmus Medical Center	n.a.
EPI_ISL_1 8032447	Poland	2022-Dec-17	A/domestic_goose/Poland/ H440/2022	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton,Edyta;Tarasiuk,Karolina;Wyrostek,Krzysztof;K ozak,Edyta;Stys-Fijol,Natalia;Smietanka,Krzysztof
EPI_ISL_1 8032445	Poland	2023-Feb-14	A/mute_swan/Poland/MB0 95-L1M/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton,Edyta;Tarasiuk,Karolina;Wyrostek,Krzysztof;K ozak,Edyta;Stys-Fijol,Natalia;Smietanka,Krzysztof
EPI_ISL_1 8032171	Poland	2023-Jan-10	A/mute_swan/Poland/MB0 15/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, Edyta

EPI_ISL_1 8032166	Poland	2023-Jan-10	A/mute_swan/Poland/MB0 14/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, Edyta
EPI_ISL_1 8033134	Poland	2022-Dec-14	A/turkey/Poland/H427/202 2	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton,Edyta;Tarasiuk,Karolina;Wyrostek,Krzysztof;K ozak,Edyta;Stys-Fijol,Natalia;Smietanka,Krzysztof
EPI_ISL_1 7978700	Poland	2023-Jun-04	A/white_stork/Poland/MB2 44/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.; Domanska-Blicharz, K.; Tarasiuk, K.; Wyrostek, K.; Stys-Fijol, N.
EPI_ISL_1 8040893	Poland	2023-Jan-20	A/domestic_duck/Poland/H 89-T1/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton,Edyta;Tarasiuk,Karolina;Wyrostek,Krzysztof;K ozak,Edyta;Stys-Fijol,Natalia;Smietanka,Krzysztof
EPI_ISL_1 8040892	Poland	2023-Jan-19	A/domestic_duck/Poland/H 93-T1/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton,Edyta;Tarasiuk,Karolina;Wyrostek,Krzysztof;K ozak,Edyta;Stys-Fijol,Natalia;Smietanka,Krzysztof
EPI_ISL_1 8033137	Poland	2022-Dec-16	A/domestic_duck/Poland/H 433/2022	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton,Edyta;Tarasiuk,Karolina;Wyrostek,Krzysztof;K ozak,Edyta;Stys-Fijol,Natalia;Smietanka,Krzysztof
EPI_ISL_1 8032446	Poland	2022-Dec-15	A/domestic_duck/Poland/H 429/2022	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton,Edyta;Tarasiuk,Karolina;Wyrostek,Krzysztof;K ozak,Edyta;Stys-Fijol,Natalia;Smietanka,Krzysztof
EPI_ISL_1 8032444	Poland	2023-Jan-16	A/domestic_duck/Poland/H 75-K1T1/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton,Edyta;Tarasiuk,Karolina;Wyrostek,Krzysztof;K ozak,Edyta;Stys-Fijol,Natalia;Smietanka,Krzysztof
EPI_ISL_1 8032204	Poland	2023-Jan-16	A/domestic_duck/Poland/H 72-T1/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, Edyta
EPI_ISL_1 7985196	Poland	2023-Jun-19	A/domestic_cat/Poland/Ko t2/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Edyta,Świętoń; Katarzyna,Domańska-Blicharz; Aleksandra,Giza; Marta,Pietruk; Karolina,Tarasiuk; Krzysztof,Wyrostek; Natalia, Styś-Fijol
EPI_ISL_1 7951056	Poland	2023-Jun-19	A/domestic_cat/Poland/Ko t1/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Edyta,Świętoń; Katarzyna,Domańska-Blicharz; Aleksandra,Giza; Marta,Pietruk; Karolina,Tarasiuk; Krzysztof,Wyrostek; Natalia, Styś-Fijol
EPI_ISL_1 7951055	Poland	2023-Jun-20	A/domestic_cat/Poland/H2 47/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Edyta,Świętoń; Katarzyna,Domańska-Blicharz; Aleksandra,Giza; Marta,Pietruk; Karolina,Tarasiuk; Krzysztof,Wyrostek; Natalia, Styś-Fijol
EPI_ISL_1 7951054	Poland	2023-Jun-15	A/domestic_cat/Poland/H2 48/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Edyta,Świętoń; Katarzyna,Domańska-Blicharz; Aleksandra,Giza; Marta,Pietruk; Karolina,Tarasiuk; Krzysztof,Wyrostek; Natalia, Styś-Fijol
EPI_ISL_1 7951053	Poland	2023-Jun-22	A/domestic_cat/Poland/H2 54/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Edyta,Świętoń; Katarzyna,Domańska-Blicharz; Aleksandra,Giza; Marta,Pietruk; Karolina,Tarasiuk; Krzysztof,Wyrostek; Natalia, Styś-Fijol
EPI_ISL_1 7951052	Poland	2023-Jun-22	A/domestic_cat/Poland/H2 53/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Edyta,Świętoń; Katarzyna,Domańska-Blicharz; Aleksandra,Giza; Marta,Pietruk; Karolina,Tarasiuk; Krzysztof,Wyrostek; Natalia, Styś-Fijol
EPI_ISL_1 7951051	Poland	2023-Jun-22	A/domestic_cat/Poland/H2 52/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Edyta,Świętoń; Katarzyna,Domańska-Blicharz; Aleksandra,Giza; Marta,Pietruk; Karolina,Tarasiuk; Krzysztof,Wyrostek; Natalia, Styś-Fijol

EPI_ISL_1 7950995	Poland	2023-Jun-22	A/domestic_cat/Poland/H2 49/2023	National Veterinary Research Institut Poland, PIWet-PIB	National Veterinary Research Institut Poland, PIWet-PIB	Edyta,Świętoń; Katarzyna,Domańska-Blicharz; Aleksandra,Giza; Marta,Pietruk; Karolina,Tarasiuk; Krzysztof,Wyrostek; Natalia, Styś-Fijoł
EPI_ISL_1 1922811	Poland	2022-Feb-05	A/goose/Poland/H124_22V IR2515-5/2022	National Veterinary Research Institute	Istituto Zooprofilattico Sperimentale delle Venezie	Swieton, E.; Smietanka, K.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 1922814	Poland	2022-Feb-17	A/swan/Poland/MB083_22 VIR2515-8/2022	National Veterinary Research Institute	Istituto Zooprofilattico Sperimentale delle Venezie	Swieton, E.; Smietanka, K.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 1922813	Poland	2022-Feb-10	A/swan/Poland/MB078_22 VIR2515-7/2022	National Veterinary Research Institute	Istituto Zooprofilattico Sperimentale delle Venezie	Swieton, E.; Smietanka, K.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_6 937114	Poland	2021-Nov-08	A/mute_swan/Poland/MB4 90-L1/2021	National Veterinary Research Institut Poland, PIWet-PIB	National Veterinary Research Institut Poland, PIWet-PIB	E. Swieton, K. Smietanka
EPI_ISL_1 7959737	Poland	2023-Jun-09	A/environment/Poland/Kra 1/2023	Malopolska Centre of Biotechnology of the Jagiellonian University	University of Gdansk	Maciej, Grzybek; Tomasz, Lepionka; Krzysztof, Pyrc; Lukasz, Rabalski
EPI_ISL_2 681045	Poland	2021-Apr-20	A/white_stork/Poland/MB3 91/2021	National Veterinary Research Institut Poland, PIWet-PIB	National Veterinary Research Institut Poland, PIWet-PIB	Edyta, Swieton; Kamila, Dziadek; Krzysztof, Smietanka
EPI_ISL_1 1922812	Poland	2022-Jan-23	A/chicken/Poland/H071_2 2VIR2515-6/2022	National Veterinary Research Institute	Istituto Zooprofilattico Sperimentale delle Venezie	Swieton, E.; Smietanka, K.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 1922809	Poland	2022-Feb-18	A/chicken/Poland/H157_2 2VIR2515-3/2022	National Veterinary Research Institute	Istituto Zooprofilattico Sperimentale delle Venezie	Swieton, E.; Smietanka, K.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 1922810	Poland	2022-Feb-08	A/duck/Poland/H126_22VI R2515-4/2022	National Veterinary Research Institute	Istituto Zooprofilattico Sperimentale delle Venezie	Swieton, E.; Smietanka, K.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 1922808	Poland	2022-Mar-02	A/duck/Poland/H188_22VI R2515-2/2022	National Veterinary Research Institute	Istituto Zooprofilattico Sperimentale delle Venezie	Swieton, E.; Smietanka, K.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_6 934175	Poland	2021-Nov-07	A/domestic_duck/Poland/H 1942-N/2021	National Veterinary Research Institut Poland, PIWet-PIB	National Veterinary Research Institut Poland, PIWet-PIB	E. Swieton, K. Smietanka
EPI_ISL_1 4917968	Poland	2022-Jul-13	A/common_murre/Poland/ MB151/2022	National Veterinary Research Institut Poland, PIWet-PIB	National Veterinary Research Institut Poland, PIWet-PIB	Swieton E., Smietanka K.
EPI_ISL_1 4917942	Poland	2022-Jul-21	A/breeding_hen/Poland/H 364/2022	National Veterinary Research Institut Poland, PIWet-PIB	National Veterinary Research Institut Poland, PIWet-PIB	Swieton E., Smietanka K.
EPI_ISL_1 4917915	Poland	2022-Jul-18	A/breeding_hen/Poland/H 361/2022	National Veterinary Research Institut Poland, PIWet-PIB	National Veterinary Research Institut Poland, PIWet-PIB	Swieton E., Smietanka K.
EPI_ISL_6 931288	Poland	2021-Nov-05	A/chicken/Poland/H1940- N/2021	National Veterinary Research Institut Poland, PIWet-PIB	National Veterinary Research Institut Poland, PIWet-PIB	E. Swieton, K. Smietanka

EPI_ISL_6 931008	Poland	2021-Nov-03	A/domestic_goose/Poland/ H1931-T1/2021	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	E. Swieton, K. Smietanka
EPI_ISL_1 4917999	Poland	2022-May-30	A/black- headed_gull/Poland/MB13 9/2022	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton E., Smietanka K.
EPI_ISL_1 5535272	Poland	2022-Sep-20	A/domestic_goose/Poland/ H397-N/2022	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Świętoń E., Śmietanka K.
EPI_ISL_1 4917951	Poland	2022-Jul-21	A/domestic_goose/Poland/ H371/2022	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton E., Smietanka K.
EPI_ISL_1 4917979	Poland	2022-May-30	A/herring_gull/Poland/MB1 38/2022	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton E., Smietanka K.
EPI_ISL_6 935584	Poland	2021-Nov-08	A/turkey/Poland/H1944- N/2021	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	E. Swieton, K. Smietanka
EPI_ISL_6 930564	Poland	2021-Nov-03	A/turkey/Poland/H1924- T1/2021	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	E. Swieton, K. Smietanka
EPI_ISL_6 930238	Poland	2021-Nov-02	A/turkey/Poland/H1913- T1/2021	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	E. Swieton, K. Smietanka
EPI_ISL_6 929970	Poland	2021-Nov-01	A/turkey/Poland/H1911- N/2021	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	E. Swieton, K. Smietanka
EPI_ISL_6 929958	Poland	2021-Nov-01	A/turkey/Poland/H1910- T3/2021	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	E. Swieton, K. Smietanka
EPI_ISL_1 7949824	Poland	2023-Jun-21	A/cat/Poland/Gda1/2023	University of Gdansk	University of Gdansk	Maciej,Grzybek; Tomasz,Lepionka; Krzysztof,Pyrc; Lukasz,Rabalski
EPI_ISL_1 7989196	Poland	2023-Jun-22	A/cat/Poland/Kra1/2023	Malopolska Centre of Biotechnology of the Jagiellonian University	University of Gdansk	Maciej, Grzybek; Tomasz, Lepionka; Krzysztof, Pyrc; Lukasz, Rabalski
EPI_ISL_1 7971998	Poland	2023-Jun-26	A/domestic_cat/Poland/H2 64-G/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.;Domanska-Blicharz, K.;Tarasiuk, K.; Wyrostek, K.;Stys-Fijol, N.
EPI_ISL_1 7971997	Poland	2023-Jun-26	A/domestic_cat/Poland/H2 77-W1/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.;Domanska-Blicharz, K.;Tarasiuk, K.; Wyrostek, K.;Stys-Fijol, N.
EPI_ISL_1 7971996	Poland	2023-Jun-25	A/domestic_cat/Poland/H2 71-W/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.;Domanska-Blicharz, K.;Tarasiuk, K.; Wyrostek, K.;Stys-Fijol, N.
EPI_ISL_1 7971995	Poland	2023-Jun-25	A/domestic_cat/Poland/H2 70-W/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.;Domanska-Blicharz, K.;Tarasiuk, K.; Wyrostek, K.;Stys-Fijol, N.

EPI_ISL_1 7971994	Poland	2023-Jun-25	A/domestic_cat/Poland/H2 67-W/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.;Domanska-Blicharz, K.;Tarasiuk, K.; Wyrostek, K.;Stys-Fijol, N.
EPI_ISL_1 7971993	Poland	2023-Jun-19	A/domestic_cat/Poland/H2 66-W/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.;Domanska-Blicharz, K.;Tarasiuk, K.; Wyrostek, K.;Stys-Fijol, N.
EPI_ISL_1 7971992	Poland	2023-Jun-26	A/domestic_cat/Poland/H2 63-G/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.;Domanska-Blicharz, K.;Tarasiuk, K.; Wyrostek, K.;Stys-Fijol, N.
EPI_ISL_1 7971991	Poland	2023-Jun-24	A/domestic_cat/Poland/H2 57-G/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.;Domanska-Blicharz, K.;Tarasiuk, K.; Wyrostek, K.;Stys-Fijol, N.
EPI_ISL_1 7971990	Poland	2023-Jun-24	A/domestic_cat/Poland/H2 56-G/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.;Domanska-Blicharz, K.;Tarasiuk, K.; Wyrostek, K.;Stys-Fijol, N.
EPI_ISL_1 7971989	Poland	2023-Jun-21	A/domestic_cat/Poland/H2 55-M/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Swieton, E.;Domanska-Blicharz, K.;Tarasiuk, K.; Wyrostek, K.;Stys-Fijol, N.
EPI_ISL_1 7956379	Poland	2023-Jun-21	A/domestic_cat/Poland/H2 55-M/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Edyta,Świętoń; Katarzyna,Domańska-Blicharz; Aleksandra,Giza; Marta,Pietruk; Karolina,Tarasiuk; Krzysztof,Wyrostek; Natalia, Styś-Fijol
EPI_ISL_1 7956378	Poland	2023-Jun-21	A/domestic_cat/Poland/H2 46-M/2023	National Veterinary Research Instytut Poland, PIWet-PIB	National Veterinary Research Instytut Poland, PIWet-PIB	Edyta,Świętoń; Katarzyna,Domańska-Blicharz; Aleksandra,Giza; Marta,Pietruk; Karolina,Tarasiuk; Krzysztof,Wyrostek; Natalia, Styś-Fijol
EPI_ISL_1 7165512	Romania	2023-Jan-26	A/turkey/Romania/10271_ 23VIR1145-13/2023	Institute for Diagnosis & Animal Health (IDAH)	Istituto Zooprofilattico Sperimentale Delle Venezie	Barbuceanu, F.; Onita, I.; Neicut, A.; Motiu, R.; Burlacu, R.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7165511	Romania	2023-Jan-28	A/turkey/Romania/10287_ 23VIR1145-12/2023	Institute for Diagnosis & Animal Health (IDAH)	Istituto Zooprofilattico Sperimentale Delle Venezie	Barbuceanu, F.; Onita, I.; Neicut, A.; Motiu, R.; Burlacu, R.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7165510	Romania	2023-Jan-27	A/turkey/Romania/10281_ 23VIR1145-11/2023	Institute for Diagnosis & Animal Health (IDAH)	Istituto Zooprofilattico Sperimentale Delle Venezie	Barbuceanu, F.; Onita, I.; Neicut, A.; Motiu, R.; Burlacu, R.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7165509	Romania	2023-Jan-27	A/turkey/Romania/10281_ 23VIR1145-10/2023	Institute for Diagnosis & Animal Health (IDAH)	Istituto Zooprofilattico Sperimentale Delle Venezie	Barbuceanu, F.; Onita, I.; Neicut, A.; Motiu, R.; Burlacu, R.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7165507	Romania	2023-Jan-17	A/cygnus_cygnus/Romania /10164_23VIR1145- 8/2023	Institute for Diagnosis & Animal Health (IDAH)	Istituto Zooprofilattico Sperimentale Delle Venezie	Barbuceanu, F.; Onita, I.; Neicut, A.; Motiu, R.; Burlacu, R.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7165502	Romania	2023-Jan-03	A/cygnus_cygnus/Romania /10008_23VIR1145- 3/2023	Institute for Diagnosis & Animal Health (IDAH)	Istituto Zooprofilattico Sperimentale Delle Venezie	Barbuceanu, F.; Onita, I.; Neicut, A.; Motiu, R.; Burlacu, R.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.

EPI_ISL_1 7165498	Romania	2023-Feb-01	A/corvus_corvus/Romania/ 10368_23VIR1368-1/2023	Institute for Diagnosis & Animal Health (IDAH)	Istituto Zooprofilattico Sperimentale Delle Venezie	Barbuceanu, F.; Onita, I.; Neicut, A.; Motiu, R.; Burlacu, R.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7165499	Romania	2023-Feb-02	A/anas_platyrhynchos/Ro mania/10368_23VIR1368- 2/2023	Institute for Diagnosis & Animal Health (IDAH)	Istituto Zooprofilattico Sperimentale Delle Venezie	Barbuceanu, F.; Onita, I.; Neicut, A.; Motiu, R.; Burlacu, R.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679820	Slovakia	2023-Jan-21	A/domestic_goose/Slovaki a/140_23VIR1686-6/2023	State Veterinary Institute	Istituto Zooprofilattico Sperimentale Delle Venezie	Dirbakova, Z.; Tinak, M.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679819	Slovakia	2023-Jan-20	A/mute_swan/Slovakia/13 9_23VIR1686-5/2023	State Veterinary Institute	Istituto Zooprofilattico Sperimentale Delle Venezie	Dirbakova, Z.; Tinak, M.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679817	Slovakia	2023-Jan-12	A/chicken/Slovakia/25- brain_23VIR1686-3/2023	State Veterinary Institute	Istituto Zooprofilattico Sperimentale Delle Venezie	Dirbakova, Z.; Tinak, M.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679816	Slovakia	2023-Jan-12	A/chicken/Slovakia/25- organs_23VIR1686-2/2023	State Veterinary Institute	Istituto Zooprofilattico Sperimentale Delle Venezie	Dirbakova, Z.; Tinak, M.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679815	Slovakia	2023-Jan-12	A/chicken/Slovakia/25- swab_23VIR1686-1/2023	State Veterinary Institute	Istituto Zooprofilattico Sperimentale Delle Venezie	Dirbakova, Z.; Tinak, M.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679794	Slovenia	2023-Feb-02	A/black_swan/Slovenia/13 7_23VIR1977-5/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvapil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679793	Slovenia	2023-Jan-31	A/mute_swan/Slovenia/12 4_23VIR1977-4/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvapil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679795	Slovenia	2023-Feb-02	A/Eurasian_eagle- owl/Slovenia/142_23VIR19 77-6/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvapil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679792	Slovenia	2023-Jan-04	A/mute_swan/Slovenia/6_ 23VIR1977-3/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvapil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679793	Slovenia	2023-Jan-31	A/mute_swan/Slovenia/12 4_23VIR1977-4/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvapil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679794	Slovenia	2023-Feb-02	A/black_swan/Slovenia/13 7_23VIR1977-5/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvapil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7679795	Slovenia	2023-Feb-02	A/Eurasian_eagle- owl/Slovenia/142_23VIR19 77-6/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvapil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 8042387	Slovenia	2023-Feb-06	A/grey_heron/Slovenia/16 3_23VIR1977-7/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvapil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.

EPI_ISL_1 8042388	Slovenia	2023-Feb-17	A/mute_swan/Slovenia/23 6_23VIR1977-9/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvpil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 8042389	Slovenia	2023-Feb-20	A/mute_swan/Slovenia/23 7_23VIR1977-8/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvpil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 8042390	Slovenia	2023-Feb-21	A/mute_swan/Slovenia/24 1_23VIR1977-13/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvpil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 8042391	Slovenia	2023-Feb-21	A/laying_hen/Slovenia/251 _23VIR1977-15/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvpil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 8042392	Slovenia	2023-Feb-23	A/mute_swan/Slovenia/24 2_23VIR1977-11/2023	University of Ljubljana	Istituto Zooprofilattico Sperimentale Delle Venezie	Slavec, B.; Kvpil, P.; Paller, T.; Pastori, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
EPI_ISL_1 7181724	Switzerla nd	2023-Feb-03	A/black-swan/Switzerland- Zurich/230131/2023	Nationales Referenzlabor für Geflügel- und Kaninchenkrankheiten	Institute of Virology and Immunology (IVI)	n.a.

S5. Nucleotide differences among the sequences of the H5N1 viruses collected from the nineteen cats in Poland (in red)

Nt differences	PB2							PB1						PA										HA						NP	NA				MP				NS			
Virus	252	453	837	1328	1416	1707	1945	139	333	336	632	1144	1878	313	501	830	876	1173	1335	1423	1740	1953	2110	32	33	199	552	1023	1455	1704	1170	428	450	1348	98	387	620	851	42	84	106	
A/domestic cat/Poland/H246-M/2023 H5N1 2023-06-21 Gdynia brain	T	T	G	A	G	G	G	C	T	C	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	G	C	T	T	C	
A/domestic cat/Poland/H255-M/2023 H5N1 2023-06-21 Pruszcz brain	T	C	G	A	G	G	G	C	T	C	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	G	C	T	T	C	
A/domestic cat/Poland/H256-G/2023 H5N1 2023-06-24 Lublin	C	T	A	A	G	G	G	C	T	A	G	A	T	T	C	C	C	A	T	G	G	A	G	T	T	G	T	G	C	G	C	A	G	A	T	T	G	T	T	T	C	
A/domestic cat/Poland/H257-G/2023 H5N1 2023-06-24 Lublin	T	T	G	A	G	G	G	C	T	A	G	A	T	T	T	C	T	A	C	A	G	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	G	C	T	T	C	
A/domestic cat/Poland/H263-G/2023 H5N1 2023-06-26 Komarow-Osada	T	T	G	A	G	G	G	C	G	A	G	A	T	T	T	C	C	G	T	G	G	A	A	T	T	A	T	G	C	G	C	A	G	G	C	T	G	C	T	T	C	
A/domestic cat/Poland/H264-G/2023 H5N1 2023-06-26 Poznan	T	T	G	A	G	G	G	C	G	A	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	G	C	T	T	C	
A/domestic cat/Poland/H266-W/2023 H5N1 2023-06-19 Bydgoszcz	T	T	G	A	G	G	G	C	T	A	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	G	C	T	T	C	
A/domestic cat/Poland/H267-W/2023 H5N1 Strzelin	T	T	G	A	G	G	G	C	G	A	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	T	G	C	G	T	A	G	A	C	T	G	C	T	T	C	
A/domestic cat/Poland/H270-W/2023 H5N1 lubelskie	T	T	G	A	G	G	G	C	T	C	G	G	C	T	T	A	C	A	T	G	G	C	G	T	T	A	T	G	C	G	C	G	A	C	T	G	C	T	T	C		
A/domestic cat/Poland/H271-W/2023 H5N1 lubelskie	T	T	G	A	G	G	G	C	G	A	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	T	G	T	G	C	A	G	A	C	C	G	C	T	T	C	
A/domestic cat/Poland/H277-W1/2023 H5N1 2023-06-26 Namyslow	T	T	G	A	G	A	G	C	G	A	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	G	C	T	T	C	
A/domestic cat/Poland/H249/2023 H5N1 2023-06-22 Gdansk	T	T	G	G	T	G	G	C	T	C	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	C	G	C	G	C	A	G	A	C	T	G	C	T	T	C	
A/domestic cat/Poland/H248/2023 H5N1 2023-06-15 Pruszcz Gdanski	T	T	G	A	G	G	G	C	K	A	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	G	C	T	T	C	
A/domestic cat/Poland/Kot2/2023 H5N1 2023-06-19 Poznan	T	T	G	A	G	G	A	C	G	A	G	A	T	/	/	/	/	/	/	/	/	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	A	C	T	T	C	
A/domestic cat/Poland/Kot1/2023 H5N1 2023-06-19 Poznan	T	T	G	A	G	G	G	T	G	A	A	A	T	T	T	C	C	A	T	G	/	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	G	C	T	T	A	
A/domestic cat/Poland/H254/2023 H5N1 2023-06-22 Lublin	T	C	G	A	G	G	G	C	T	C	G	A	T	C	T	C	C	A	T	G	G	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	G	C	T	C	C	
A/domestic cat/Poland/H252/2023 H5N1 2023-06-22 Lublin	T	T	G	A	G	G	G	C	G	A	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	T	G	C	G	C	A	A	A	C	T	G	C	C	T	C	
A/domestic cat/Poland/H247/2023 H5N1 2023-06-20 Gdansk	T	T	G	A	G	G	G	C	T	C	G	A	T	T	T	C	C	A	T	G	G	A	G	T	T	A	T	G	C	G	C	A	G	A	C	T	G	C	T	T	C	
A/domestic cat/Poland/H253/2023 H5N1 2023-06-22 Lublin	T	T	G	A	G	G	G	C	T	C	G	A	T	T	T	C	C	A	T	G	A	A	G	C	C	A	T	G	C	G	C	A	G	A	C	T	G	C	T	T	C	