

LOCUS 1 2341 bp mRNA linear 10-FEB-2015
DEFINITION Influenza A virus (A/Goose/Taiwan/0103/2015(H5N8)) polymerase PB2 (PB2) gene, complete cds].

ACCESSION
VERSION
KEYWORDS
SOURCE Viruses; ssRNA negative-strand viruses; Orthomyxoviridae; Influenzavirus A.
ORGANISM Viruses; ssRNA negative-strand viruses; Orthomyxoviridae; Influenzavirus A.
Unclassified.

REFERENCE 1 (bases 1 to 2341)
AUTHORS Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F., Ting,L.J. and Lin,Y.L.
TITLE Avian influenza subtype H5 in geese in Taiwan, 2015
JOURNAL Unpublished

REFERENCE 2 (bases 1 to 2341)
AUTHORS Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F., Ting,L.J. and Lin,Y.L.
TITLE Direct Submission
JOURNAL Submitted (10-FEB-2015) Epidemiology Research Department, National Institute for Animal Health, Chung-Cheng Rd, Tansui, Taiwan 251, Taiwan

COMMENT ##Metadata-START##
Sequencing Technology :: Sanger dideoxy sequencing
##Metadata-END##

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BASE COUNT 795 a 446 c 590 g 510 t

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LOCUS      2                               2340 bp    mRNA      linear      10-FEB-2015
DEFINITION Influenza A virus (A/Goose/Taiwan/0103/2015(H5N8)) polymerase PB1
            (PB1) gene, complete cds].
ACCESSION
VERSION
KEYWORDS
SOURCE     Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
            Influenzavirus A.
ORGANISM   Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
            Influenzavirus A.
            Unclassified.
REFERENCE  1 (bases 1 to 2340)
AUTHORS    Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,
            Ting,L.J. and Lin,Y.L.
TITLE      Avian influenza subtype H5 in geese in Taiwan, 2015
JOURNAL    Unpublished
REFERENCE  2 (bases 1 to 2340)
AUTHORS    Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,
            Ting,L.J. and Lin,Y.L.
TITLE      Direct Submission
JOURNAL    Submitted (10-FEB-2015) Epidemiology Research Department, National
            Institute for Animal Health, Chung-Cheng Rd, Tansui, Taiwan 251,
            Taiwan
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            Sequencing Technology :: Sanger dideoxy sequencing
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LOCUS 3 2233 bp mRNA linear 10-FEB-2015

DEFINITION Influenza A virus (A/Goose/Taiwan/0103/2015(H5N8)) polymerase PA (PA) gene, complete cds].

ACCESSION

VERSION

KEYWORDS

SOURCE Viruses; ssRNA negative-strand viruses; Orthomyxoviridae; Influenzavirus A.

ORGANISM Viruses; ssRNA negative-strand viruses; Orthomyxoviridae; Influenzavirus A. Unclassified.

REFERENCE 1 (bases 1 to 2233)

AUTHORS Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F., Ting,L.J. and Lin,Y.L.

TITLE Avian influenza subtype H5 in geese in Taiwan, 2015

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 2233)

AUTHORS Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,

Ting, L.J. and Lin, Y.L.

TITLE Direct Submission

JOURNAL Submitted (10-FEB-2015) Epidemiology Research Department, National Institute for Animal Health, Chung-Cheng Rd, Tansui, Taiwan 251, Taiwan

COMMENT ##Metadata-START##
Sequencing Technology :: Sanger dideoxy sequencing
##Metadata-END##

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LOCUS      5                               1565 bp      mRNA      linear      10-FEB-2015
DEFINITION Influenza A virus (A/Goose/Taiwan/0103/2015(H5N8)) nucleocapsid
            protein (NP) gene, complete cds].

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ACCESSION
VERSION
KEYWORDS

SOURCE Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
Influenzavirus A.
ORGANISM Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
Influenzavirus A.
Unclassified.

REFERENCE 1 (bases 1 to 1565)
AUTHORS Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,
Ting,L.J. and Lin,Y.L.

TITLE Avian influenza subtype H5 in geese in Taiwan, 2015
JOURNAL Unpublished

REFERENCE 2 (bases 1 to 1565)
AUTHORS Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,
Ting,L.J. and Lin,Y.L.

TITLE Direct Submission
JOURNAL Submitted (10-FEB-2015) Epidemiology Research Department, National
Institute for Animal Health, Chung-Cheng Rd, Tansui, Taiwan 251,
Taiwan

COMMENT ##Metadata-START##
Sequencing Technology :: Sanger dideoxy sequencing
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Orthomyxoviridae; Influenzavirus A."
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PRMCSLMQGSTLPRRSGAAGAAGVGVGTVMELIRMIKRGINDRNFWRGNGRRTRIA
YERM CNILKGKFQTAAQRAMMDQVRESRNPNAEIEDLI FLARSALILRGSVAHKSL
PACVYGLAVASGYDFEREGYSLVGIDPFRLLQNSQVFSILIRPNENPAHKSQLVWMACH
SAAFEDLRVSSFIRGTRVVRGQLSTRGVQIASNENMETIDSSTLELRSRYWAIRTS
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BASE COUNT 498 a 319 c 420 g 328 t
ORIGIN

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1 agcaaaagca gggtagataa tcactcactg agtgacatca acatcatggc gtctcaaggc
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121 agagcatctg ttggaaggat ggttggtgga attgggaggT tttacataga gatgtgacat
181 gaactcaaac tcagcgacta tgaaggagg ctgatccaga acagcataac aatagagaga
241 atggttctct ctgcatttga tgaaaggagg aacaaatacc tggaagaaca tcccagtgcT

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301 gggaaggatc cgaagaaaac tggaggtcca atttatcgaa gaagggacgg gaaatggatg
361 agagagctga ttctgtatga caaagaggag atcaggagaa tctggcgtca agcgaacaat
421 ggagaggacg caactactgg tctcactcac ctgatgatct ggcatcccaa tctaaatgat
481 gccacatacc agagaaccag agctctcgtg cgcactggga tggaccccag aatgtgctct
541 ctgatgcaag gatcaactct cccgaggaga tctggagctg ctggcgcagc agtaaagggt
601 gtcggggacg tgggtgatga actaattcgg atgataaaac gagggattaa tgatcggaat
661 ttctggagag gcgaaaatgg acggagaaca aggattgcat atgagaggat gtgcaacatc
721 ctcaaaggga aattccaaac agcagcaca agagcaatga tggaccaagt gcgagaaagc
781 agaaatcctg ggaatgctga aattgaagat ctcactcttc tggcacggtc agcactcatc
841 ctgagaggat cagtggccca taagtcttgc cttcctgctt gtgtgtacgg gcttgctgtg
901 gccagtggat atgactttga gagagaaggg tactctctag ttggaataga tcctttccgt
961 ctgcttcaga acagccaggt cttcagtctc atcagaccaa atgagaacc agcacacaag
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1081 ttcatcagag ggacaagagt ggtcccaaga ggacaactat ccaccagagg agttcaaatt
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1201 tgggctataa ggaccaggag tggaggaaac accaatcaac agagagcatc tgcaggacag
1261 atcagtgtac agcctacttt ctcagtacag agaaatcttc ccttcgaaag agcaaccatc
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1381 agaattgatg aaagtgccag accagaagat gtgtccttcc aggggcgggg agtcttcgag
1441 ctctcggacg aaaaggcaac gaacccgatc gtgccttcct ttgacatgag taatgaagga
1501 tcttatttct tcggagacaa tgcagaggag tatgacaatt aaagaaaaat acccttgttt
1561 ctact

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LOCUS      6                               1460 bp    mRNA       linear       10-FEB-2015
DEFINITION Influenza A virus (A/Goose/Taiwan/0103/2015(H5N8)) neuraminidase
            (NA) gene, complete cds].

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ACCESSION

VERSION

KEYWORDS

SOURCE Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
Influenzavirus A.

ORGANISM Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
Influenzavirus A.
Unclassified.

REFERENCE 1 (bases 1 to 1460)

AUTHORS Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,
Ting,L.J. and Lin,Y.L.

TITLE Avian influenza subtype H5 in geese in Taiwan, 2015

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 1460)

AUTHORS Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,
Ting,L.J. and Lin,Y.L.

TITLE Direct Submission

JOURNAL Submitted (10-FEB-2015) Epidemiology Research Department, National
Institute for Animal Health, Chung-Cheng Rd, Tansui, Taiwan 251,
Taiwan

COMMENT ##Metadata-START##

Sequencing Technology :: Sanger dideoxy sequencing

##Metadata-END##

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/country="Taiwan"
/collection_date="2015-01-09"
/identified_by="RT-PCR"
/subtype="H5N8"

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CDS 21..1433
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GVRVGSRGHIFVIREPFVSCSPVGCRTFFLTQGSLLNDKHSNGTVKDRSPFRTLMSVE
VGQSPNVYQARFEAVAWSATACHDGKKWMAIGVTGPDSKAVAVVHYGGVPTDVVNSWA
GDILRTQESSCTCIQNCYWMTDGPANRQAQYRIYKANQGKIIGRKDVFSFGGHIEE
CSCYPNDGKVEVCVRDNDWTGTNRPVLIISPDLRYRVGYLCAGLPSDTPRGEDTQFVGS
CTSPMGNQGYGVKGFGRQGTVDVWVGRTISRTSRSGFEIIRIKNGWTQTSKEQIRRVQV
VVDNSNWSGYSGSFTLPAELTGRECLVPCFWVEMIRGRPEERTIWTSSSSIVMCGVDY


```

                                EIADWSWHDGAILPFDIDKM"
BASE COUNT      439 a      254 c      385 g      382 t
ORIGIN
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   61 cattaggggtt ggttgatttc aatgtttctac tgcattgccgt gagcatcata ttaacagtgt
  121 tagccctggg  gaagagtga  aacaatggaa tctgcaatgg aactgtagtg agggaaacaca
  181 atgaaacagt  tagaatagag aaagtgactc aatggtacaa tactagcgta gtcgaatatg
  241 taccgcattg  gaatgaggga acttatataa acaacaccga accaatatgt gatgtcaagg
  301 gctttgcacc  tttttccaag gacaacgggg tgagagttgg ctccaggggg catatttttg
  361 tcataagaga  gcctttcgtc tcttgttcac cagtaggggtg caggactttc ttcctcactc
  421 agggatctct  actcaatgac aaacactcaa atggaacagt gaaggataga agcccattca
  481 gaactctcat  agtgctcgaa gtggggccaa cacccaatgt atatcaagcc aggtttgaag
  541 ctgtggcatg  gtcagcaaca gcctgtcatg atggtaagaa gtggatggca attgggtgtaa
  601 cagggccaga  ttctaaagca gtagcagtag ttcattacgg aggggtgcct actgacgttg
  661 ttaactcctg  ggcaggagat atattaagaa ctcaggagtc atcttgtagt tgcattcaag
  721 gtaattgtta  ttgggtaatg actgacggtc ctgccaatag acaggcgcag tatagaatat
  781 acaaagcaaa ccaaggcaaa ataattggcc gaaaagatgt tagctttagt ggaggacata
  841 ttgaggaatg  ttcttgttat ccaaattgat gtaaagtgga atgcgtgtgt agagacaact
  901 ggacgggaac  taacagacct gtgctaatta tttcgctga  tctctcttac agagttgggt
  961 atttatgtgc  agggttgccc agtgacactc caagagggga ggataactca tttgtcgggt
 1021 catgcactag  tcccatggga aatcaggggt atggcgtaaa aggggttcggg tttcgacagg
 1081 gaactgatgt  gtgggtgggg cggacaatta gtcgaacctc cagatcagga tttgaaataa
 1141 taaggataaa  gaatggttgg acgcaaacaa gcaaagaaca gattagaaga caggtggttg
 1201 ttgataaact  gaattggtcg ggatacagtg ggtctttcac tttaccagca gaattgactg
 1261 ggaggggaatg  tttggttccc tgtttttggg tcgaaatgat cagaggtagg ccagaagaga
 1321 gaacaatctg  gacctctagt agctccattg taatgtgtgg agttgattat gaaattgccg
 1381 actggtcatg  gcacgatgga gctattcttc ccttgacat  cgataagatg taatttacga
 1441 aaaagcccct  tgtttctact

//
LOCUS      7                               1027 bp      mRNA      linear      10-FEB-2015
DEFINITION Influenza A virus (A/Goose/Taiwan/0103/2015(H5N8)) matrix protein 2
            (M2) and matrix protein 1 (M1) genes, complete cds].
ACCESSION
VERSION
KEYWORDS
SOURCE     Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
            Influenzavirus A.
   ORGANISM Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
            Influenzavirus A.
            Unclassified.
REFERENCE  1 (bases 1 to 1027)
   AUTHORS Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,
            Ting,L.J. and Lin,Y.L.
   TITLE   Avian influenza subtype H5 in geese in Taiwan, 2015
   JOURNAL Unpublished
REFERENCE  2 (bases 1 to 1027)
   AUTHORS Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,
            Ting,L.J. and Lin,Y.L.
   TITLE   Direct Submission
   JOURNAL Submitted (10-FEB-2015) Epidemiology Research Department, National
            Institute for Animal Health, Chung-Cheng Rd, Tansui, Taiwan 251,
            Taiwan
COMMENT    ##Metadata-START##
            Sequencing Technology :: Sanger dideoxy sequencing
            ##Metadata-END##
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            Orthomyxoviridae; Influenzavirus A."
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            /country="Taiwan"
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            /identified_by="RT-PCR"
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LKREITFHGAKEVALSYSTGALASCMGLTYNRMGTVTTEVAFGLVCATCEQIADSQHR
SHRQMATITNPLIRHENRMVLASTTAKAMEQMAGSSEQASEAMEVANQARQMVQAMRT
IGTHPNSSAGLRDNLLENLQAYQNRMGVQMQRFK"

BASE COUNT        294 a      221 c      269 g      243 t
ORIGIN
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   61 ctctatcatc ccgtcaggcc ccctcaaagc cgagatcgcg cagagacttg aagatgtctt
  121 tgcagggaaa aacaccgatc tcgaggctct catggagtgg ctaaagacaa gaccaatcct
  181 gtcacctctg actaaaggga ttttgggatt tgtgttcacg ctcaccgtgc ccagtgcgcg
  241 aggactgcag cgtagacgct tcgtccagaa tggcctaaat ggaaatgggg atccaaataa
  301 tatggataag gcagttaagc tatataagaa gctgaaaaga gagataacat tccatggggc
  361 taaggagggtc gcacttagct actcaaccgg tgcacttgcc agctgcatgg gtctcatata
  421 caacaggatg ggaacggtga ctacagaagt ggcttttggc ctagtgtgtg ccacttgtga
  481 gcagattgca gattcacagc atcgggtcca cagacagatg gcaaccatca ccaaccattt
  541 aatcagacat gagaacagaa tgggtgctggc cagcactaca gctaaggcca tggagcagat
  601 ggcaggatca agcagcagg catcagaagc catggagggt gctaatacagg ccaggcagat
  661 ggtacaggca atgaggacaa ttgggactca tcctaattct agtgctggtc tgagagataa
  721 tcttcttgaa aatttgcagg cctaccagaa ccgaatggga gtgcagatgc agcgattcaa
  781 gtgatcctct tgttgtgcc gcaaatatca ttgggatcct gcacttgata ttgtggatcc
  841 ttgatcgtct tttcttcaaa tgcatttatc gtcgccttaa atacggtttg aaaatagggc
  901 cttctacgga aggggtacct gagtctatga ggggaagagta ccggcaggaa cagcagagtg
  961 ctgtggatgt tgacgatggt cattttgtca acatagaatt ggagtaaaaa actaccttgt
 1021 ttctact

//
LOCUS               8                      890 bp      mRNA      linear      10-FEB-2015
DEFINITION          Influenza A virus (A/Goose/Taiwan/0103/2015(H5N8)) nuclear export
                    protein (NEP) and nonstructural protein 1 (NS1) genes, complete
                    cds].
ACCESSION
VERSION
KEYWORDS
SOURCE              Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
                    Influenzavirus A.
    ORGANISM        Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;
                    Influenzavirus A.
                    Unclassified.
REFERENCE           1 (bases 1 to 890)
    AUTHORS         Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,
                    Ting,L.J. and Lin,Y.L.
    TITLE           Avian influenza subtype H5 in geese in Taiwan, 2015
    JOURNAL         Unpublished
REFERENCE           2 (bases 1 to 890)
    AUTHORS         Lee,M.S., Chen,L.H., Liu,Y.P., Chen,Y.P., Li,W.C., Lee,F.,
                    Ting,L.J. and Lin,Y.L.
    TITLE           Direct Submission
    JOURNAL         Submitted (10-FEB-2015) Epidemiology Research Department, National
                    Institute for Animal Health, Chung-Cheng Rd, Tansui, Taiwan 251,
                    Taiwan
COMMENT             ##Metadata-START##
                    Sequencing Technology :: Sanger dideoxy sequencing
                    ##Metadata-END##
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LQLLLEVEQEIRTFSFQLI"
gene 27..740
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CDS 27..740
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KRMKARTIESEVRGNKMD"

BASE COUNT 290 a 180 c 207 g 213 t
ORIGIN

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121 tccttgaccg gcttcgccga gaccagaagt ccctaagagg aagaggcagc actcttggtc
181 tggacatcga gacagctact cgtgcgggaa agcaaatagt ggagcggatt ctgggggaag
241 aatctgatga agcacttaaa atgaatatgg cttctgtacc gacttcacgc tacctaactg
301 acatgactct tgaagaaatg tcaagagact ggttcatgct catgcccag cagaaagtag
361 caggttctct ctgcatcaaa atggaccagg caataatgga taaaaccatc atactgaaag
421 caaatttcag tgtgatTTTT gatcggctgg aaaccctaatt attacttaga gctttcacag
481 aagaaggagc aattgtggga gaaatctcac cattaccttc tcttcagga catactgatg
541 aggatgtcaa aattgcaatt ggggtcctca tcggagggct tgaatggaat gataacacag
601 ttcgagtctc tgaaactcta cagagattca cttggagaag cagtaatgag gatgggagac
661 cttcactccc ttcaaaacag aaacggaaaa tggcgagAAC aattgagtca gaagtctcag
721 gaaataagat ggctgattga ggaaatgcga catagattga agaccacaga gaacagcttc
781 gaacaaataa cgtttatgca agctttacaa ctattgcttg aagtggagca agagataaga
841 accttctcgt ttcagcttat ttaatgataa aaaacaccct tgtttctact

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