

LOCUS 1 2341 bp mRNA linear 10-FEB-2015
 DEFINITION Influenza A virus (A/Goose/Taiwan/0104/2015(H5N2)) 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 JOURNAL Unpublished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 ##Assembly-Data-START##
 Sequencing Technology :: Sanger dideoxy sequencing
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LOCUS      2                               2340 bp    mRNA    linear        10-FEB-2015
DEFINITION Influenza A virus (A/Goose/Taiwan/0104/2015(H5N2)) 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JOURNAL     Unpublished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
COMMENT     ##Assembly-Data-START##
            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/0104/2015(H5N2)) polymerase PA
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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 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)

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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 ##Assembly-Data-START##
Sequencing Technology :: Sanger dideoxy sequencing
##Assembly-Data-END##

FEATURES Location/Qualifiers

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LOCUS          5                               1565 bp      mRNA       linear          10-FEB-2015
DEFINITION     Influenza A virus (A/Goose/Taiwan/0104/2015(H5N2)) nucleocapsid
                protein (NP) gene, complete cds.

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ACCESSION

VERSION

KEYWORDS

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

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Unclassified.

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

COMMENT

##Assembly-Data-START##
Sequencing Technology :: Sanger dideoxy sequencing
##Assembly-Data-END##

FEATURES

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Location/Qualifiers

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Orthomyxoviridae; Influenzavirus A."

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46..1542

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PRMCSLMQGSTLPRRSGAAGAAGVGVGTMMELIRMIKRGINDRNFWRGENGRRTRIA
YERM CNILKGKFQTAAQRAMMDQVRESRNPNGAEIEDLIFLARSALILRGSVAHKSCL
PACVYGLAVASGYDFEREGLVGLIDPFRLQNSQVFSLIRPNENPAHKSQLVWMACH
SAAFEDLRVSSFIRGTRVPRGQLSTRGVQIASNENMETMDSSTLELRSRYWAIRTRS
GGNTNQQRASAGQISVQPTFSVQSRSLPFERATIMAAFTGNTGRTSDMRTEIIRMES
ARPEDEVSFQGRGVFELSDEKATNPVPSFDMSEGSYFFGDNAEEYDN"

BASE COUNT 499 a 318 c 420 g 328 t

ORIGIN

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1 agcaaaagca gggtagataa tcactcactg agtgacatca acatcatggc gtctcaaggc
61 accaaacgat cttatgagca gatggaaact ggtggagaac gccagaatgc cactgaaatc
121 agagcatctg ttggaaggat ggtagtgga attgggaggt ttacatata gatgtgcact

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181 gaactcaaac tcagcgacta tgaagggagg ctgatccaga acagcataac aatagagaga
241 atgggttctct cggcatttga tgaaggagg aacaaatacc tgggaagagca tcccagtgcc
301 ggaaaggatc cgaagaaaac tggaggtcca atttatcgaa gaagggacgg gaaatgggtg
361 agagagctga ttctgtatga caaagaggag atcaggagaa tctggcgctca agcaaataat
421 ggagaagacg caactgctgg tctcactcac ctgatgatct ggcattccaa cttaaatgat
481 gccacatacc agagaaccag agctctcgtg cgcactggga tggacccag aatgtgctct
541 gccagtggat gatcaactct cccgaggaga tctggagctg ctggcgagc agtaaaggga
601 gtcgggacga tgggtgatgga actaattcgg atgataaaac gaggaattaa tgatcggaat
661 ttctggagag gcgaaaatgg acggagaaca aggattgcat atgagaggat gtgcaacatc
721 ctcaaaggga aattccaaac agcagcacia agagcaatga tggatcaagt gcgagaaagc
781 agaaatcctg gaaatgctga aattgaagat ctcactcttc tagcacggtc tgcgctcatc
841 ctgagaggat cagtggccca caagtcctgc ctctctgctt gtgtgtacgg gcttgctgtg
901 gccagtggat atgactttga gagagaaggg tactctctag ttggaataga tctttccgt
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1021 agtcaattgg tgtggatggc atgccattct gcagcatttg aggacctgag agtctcaagt
1081 ttcatacagag ggacaagagt ggtcccaaga gggcaactat ccaccagagg agttcaaatt
1141 gcttcaaatg agaacatgga aacaatggac tccagcactc ttgaactgag aagcagatat
1201 tgggctataa ggaccaggag tggaggaaac accaaccaac agagagcatc tgcaggacag
1261 atcagtgtac agcctacttt ctcagtacag agaagtctcc ccttcgaaag agcaaccatt
1321 atggcgcat tcacaggaaa tactgaaggc agaacatctg acatgaggac tgaaatcata
1381 agaatgatgg agagtgccag accagaagat gtgtccttcc aggggcgggg agtcttcgag
1441 ctctcgagc aaaaggcaac gaaccgatc gtgccttctt ttgacatgag taatgaagga
1501 tcttatttct tcggagataa tgcagaggag tatgacaatt aaagaaaaat acccttgttt
1561 ctact

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```

//
LOCUS      6                               1467 bp      mRNA      linear      10-FEB-2015
DEFINITION Influenza A virus (A/Goose/Taiwan/0104/2015(H5N2)) neuraminidase
            (NA) 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 1467)
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 1467)
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    ##Assembly-Data-START##
            Sequencing Technology :: Sanger dideoxy sequencing
            ##Assembly-Data-END##

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                     Orthomyxoviridae; Influenzavirus A."
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     CDS              20..1429
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                     PSNNQVVPCEPIIIERNITEIVYLNNTII EKELCPKLA EYRDWSK PQQCITGFAPFSK
                     DNSIRLSAGGDIWVTREP YVSCSPNKCYQFALGQGTTL DNKHSNGTIH DRI PHRTL LLM
                     NELGV PFHLG TKQVCIAWSSSSCHDGRVWLHICVTGDDRNATASFIYNGVLVDSISSW
                     SQNILRTQSECEVCINGTCTVMTDGSASGRADTRVLF IKEGKIVHISPLSGSAQHIE
                     ECSCYPRYPDVRVC RDNWKGSNRPVIDIS MADYSIDSSYVCSGLVGDTPRND DSSSN

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SNCKDPNNERGSPGVKGWAFDYGNDVWMGRTISKDSRSGYETFRVIEGWTTANSKSQV
NRQVIVDNNWWSGYSGIFSVKGKSCINRCFYVELIRGRPQETRVWWTNSIVVFCGTS
GTGTGSGWPDGANINFMPI"

BASE COUNT 465 a 275 c 341 g 386 t
ORIGIN

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1 agcaaaagca ggagagaaga tgaacccaaa ccagaagata ataacaattg gctctgtctc
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121 actgcacttc aagcagaatg aatgcagcat tcctcgaac aatcaagtag tgccatgtga
181 gccaatcata atagaaagga acataacaga gatagtgtat ttgaataaca ccatcataga
241 aaaagaactt tgccctaaat tggcagaata cagggactgg tcgaaaccac agtgtcagat
301 cacaggggtt gtccttttct ccaaggacaa ctcaatccga ctttctgctg gtggggacat
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601 tactggggat gacaggaatg caaccgccag tttcatttat aatgggggtgc ttgttgacag
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721 tggaaacttg acagtagtaa tgactgatgg aagtgcata ggaagggccg atactagagt
781 actattcatt aaagaggga aaattgttca tatcagttca ttatcaggaa gtgctcagca
841 tatagaggag tgttcctgtt atccccgcta tccagacgtc agatgtgtct gcagagacaa
901 ttggaaaggt tcaaataggc ccgttataga tataagtatg gcagattata gcattgatcc
961 tagttatgtg tgctcagggc ttgttggaga cacaccgaga aacgatgata gctctagcaa
1021 tagtaactgc aaggatccta ataagtagag agggagccca ggagtaaaag ggtgggcatt
1081 tgactatgga aatgatgttt ggatgggaag aacaatcagc aaggattctc gctcaggtta
1141 tgagaccttc agatgcattg aaggttggac aacagctaatt tccaaatctc aagtaaatag
1201 acaagtcata gttgacaata ataactggtc tggttattcc ggcattttct ctgttaaagg
1261 taaaagctgc atcaataggt gtttttatgt ggagttgata agaggaaggc cacaagagac
1321 tagagtgtgg tggacctcaa acagtattgt tgtgttctgt ggaacttcag gtacttatgg
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1441 tttagaaaaa aactccttgt ttctact

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//
LOCUS 7 1027 bp mRNA linear 10-FEB-2015
DEFINITION Influenza A virus (A/Goose/Taiwan/0104/2015(H5N2)) 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 ##Assembly-Data-START##
Sequencing Technology :: Sanger dideoxy sequencing
##Assembly-Data-END##

FEATURES Location/Qualifiers

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             Orthomyxoviridae; Influenzavirus A."
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             /host="Goose"
             /segment="7"
             /country="Taiwan"
             /collected_by="2015-01-09"
             /identified_by="RT-PCR"
             /subtype="H5N2"
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CDS         20..784
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CDS      /gene="NEP"
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gene 27..719

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KRKMARTIESEV"

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BASE COUNT      284 a      178 c      216 g      212 t
ORIGIN

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   61 actgctttct ttggcatgtc cgcaaacgat ttgcagacca agaactgggt gatgccccat
  121 tccttgaccg gcttcgccga gatcagaagt ccctaagagg aagaggcagc actcttggtc
  181 tggacatcga gacagctact cgtgcgggaa agcagatagt ggagcggatt ctggaagaag
  241 aatctgatga ggcacttaaa atgactattg cttcagtgtc ggcttcacgc tacctaacag
  301 atatgactct tgaagagatg tcaagggact ggttcattgct catgccc aaa cagaaagtgg
  361 caggttccct ttgcatcaga atggaccagg caacaatgga taaaaacatc acattaaaag
  421 caaacttcag tgtgattttt gaccggctgg agacccta at actacttagg gctttcacag
  481 aagaaggagc aattgtggga gaaatctcac cattaccttc tcttccagga catactgatg
  541 aggatgtcaa aaatgcaatt ggggtcctca tcggaggact tgaatggaat gataacacag
  601 ttcgagtctc tgagactcta cagagattcg cttggagaag cagtaatgag gatgggagac
  661 ctccactccc tccaaagcag aaacggaaaa tggcgagaac aattgagtca gaagtttgaa
  721 gaaataagat ggctgattga agaagtgcga cataggttga agattacaga gaacagtttc
  781 gaacaaataa cgtttatgca agccttacia ctattgcttg aagtggagca agagatgaga
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