M (1027 bp)

Nature: cRNA

Source: DQ487329.1 Influenza A virus (A/Moscow/10/99(H3N2)) segment 7

M1 protein

Source: ABE73098.1 (252 aa)

Sequence: 26-784

MSLLTEVETYVLSIVPSGPLKAEIAQRLEDVFAGKNTDLEALMEWLKTRPILSPLTKGILGFVFTLTVPS ERGLQRRRFVQNALNGNGDPNNMDKAVKLYRKLKREITFHGAKEIALSYSAGALASCMGLIYNRMGAVTT EVAFGLVCATCEQIADSQHRSHRQMVATTNPLIRHENRMVLASTTAKAMEQMAGSSEQAAEAMEIASQAR QMVQAMRAVGTHPSSSTGLRDDLLENLQTYQKRMGVQMQRFK

M2 protein

Source: ABE73099.1 (97 aa)

Sequence: 26- 1007

MSLLTEVETPIRNEWGCRCNDSSDPLVVAANIIGILHLILWILDRLFFKCIYRLFKHGLKRGPSTEGVPE SMREEYRKEQONAVDADDSHFVSIELE

M (1027 bp)

Nature: vRNA

Source: Illumina sequences from virus stocks RPS2022

NNNNNNGCAGGTAGATATTGAAAGATGAGCCTTCTAACCGAGGTCGAAACGTATGTTCTCT CTATCGTTCCATCAGGCCCCTCAAAGCCGAAATCGCGCAGAGACTTGAAGATGTCTTTGCT GGGAAAAACACAGATCTTGAGGCTCTCATGGAATGGCTAAAGACAAGACCAATCCTGTCACC TCTGACTAAGGGGATTTTGGGGTTTGTGTTCACGCTCACCGTGCCCAGTGAGCGAGGACTGC AGCGTAGACGCTTTGTCCAAAATGCCCTCAATGGGAATGGGGATCCAAATAACATGGACAAA GCAGTTAAACTGTATAGAAAACTTAAGAGGGAGATAACATTCCATGGGGCCAAAGAAATAGC ACTCAGTTATTCTGCTGGTGCACTTGCCAGTTGCATGGGCCTCATATACAATAGGATGGGGG CTGTAACCACTGAAGTGGCATTTGGCCTGGTATGTGCAACATGTGAACAGATTGCTGACTCC CAGCACAGGTCTCATAGGCAAATGGTGGCAACAACCAATCCATTAATAAGACATGAGAACAG AATGGTTTTGGCCAGCACTACAGCTAAGGCTATGGAGCAAATGGCTGGATCAAGTGAGCAGG CAGCGGAGGCCATGGAGATTGCTAGTCAGGCCAGGCAAATGGTGCAGGCAATGAGAGCCGTT GGGACTCATCCTAGCTCCAGTACTGGTCTAAGAGATGATCTTCTTGAAAATTTGCAGACCTA TCAGAAACGAATGGGGGTGCAGATGCAACGATTCAAGTGACCCGCTTGTTGTTGCCGCGAAT ATCATTGGGATCTTGCACTTGATATTGTGGATTCTTGATCGTCTTTTTTTCAAATGCATCTA TCGACTCTTCAAACACGGCCTTAAAAGAGGGCCTTCTACGGAAGGAGTACCTGAGTCTATGA GGGAAGAATATCGAAAGGAACAGCAGAATGCTGTGGATGCTGACGACAGTCATTTTGTCAGC ATAGAGTTGGAGTAAAAAACTACNNNNNNNNNNNN

M (1027 bp)

Nature: cDNA_pHW2000

Source: GATC sequences from Maxiprep RPS 2023

AGCAAAAGCAGGTAGATATTGAAAG**ATG**AGCCTTCTAACCGAGGTCGAAACGTATGTTCTCT CTATCGTTCCATCAGGCCCCTCAAAGCCGAAATCGCGCAGAGACTTGAAGATGTCTTTGCT GGGAAAAACACAGATCTTGAGGCTCTCATGGAATGGCTAAAGACAAGACCAATCCTGTCACC TCTGACTAAGGGGATTTTGGGGTTTGTGTTCACGCTCACCGTGCCCAGTGAGCGAGGACTGC AGCGTAGACGCTTTGTCCAAAATGCCCTCAATGGGAATGGGGATCCAAATAACATGGACAAA GCAGTTAAACTGTATAGAAAACTTAAGAGGGAGATAACATTCCATGGGGCCAAAGAAATAGC ACTCAGTTATTCTGCTGGTGCACTTGCCAGTTGCATGGGCCTCATATACAATAGGATGGGGG CTGTAACCACTGAAGTGGCATTTGGCCTGGTATGTGCAACATGTGAACAGATTGCTGACTCC CAGCACAGGTCTCATAGGCAAATGGTGGCAACAACCAATCCATTAATAAGACATGAGAACAG AATGGTTTTGGCCAGCACTACAGCTAAGGCTATGGAGCAAATGGCTGGATCAAGTGAGCAGG CAGCGGAGGCCATGGAGATTGCTAGTCAGGCCAGGCAAATGGTGCAGGCAATGAGAGCCGTT GGGACTCATCCTAGCTCCAGTACTGGTCTAAGAGATGATCTTCTTGAAAATTTGCAGACCTA TCAGAAACGAATGGGGGTGCAGATGCAACGATTCAAGTGACCCGCTTGTTGTTGCCGCGAAT ATCATTGGGATCTTGCACTTGATATTGTGGATTCTTGATCGTCTTTTTTTCAAATGCATCTA TCGACTCTTCAAACACGGCCTTAAAAGAGGGCCTTCTACGGAAGGAGTACCTGAGTCTATGA GGGAAGAATATCGAAAGGAACAGCAGAATGCTGTGGATGC**TGA**CGACAGTCATTTTGTCAGC ATAGAGTTGGAGTAAAAAACTACCTTGTTTCTACT

CLUSTAL O(1.2.4) multiple sequence alignment

MO_M_Virus MO_M_NCBI MO_M_pHW2000	AGCAAAAGCAGGTA AGCAAAAGCAGGTA	AGATATTGAAAGATGAGCCTTCTAACCGAGGTCGAAACGTATGTTCT AGATATTGAAAGATGAGCCTTCTAACCGAGGTCGAAACGTATGTTCT AGATATTGAAAGATGAGCCTTCTAACCGAGGTCGAAACGTATGTTCT	60 60 60
MO_M_Virus MO_M_NCBI MO_M_pHW2000	CTCTATCGTTCCAT	CCAGGCCCCCTCAAAGCCGAAATCGCGCAGAGACTTGAAGATGTCTT CCAGGCCCCCTCAAAGCCGAAATCGCGCAGAGACTTGAAGATGTCTT CCAGGCCCCCTCAAAGCCGAAATCGCGCAGAGACTTGAAGATGTCTT	120 120 120
MO_M_Virus MO_M_NCBI MO_M_pHW2000	TGCTGGGAAAAACA TGCTGGGAAAAACA	ACAGATCTTGAGGCTCTCATGGAATGGCTAAAGACAAGACCAATCCT ACAGATCTTGAGGCTCTCATGGAATGGCTAAAGACAAGACCAATCCT ACAGATCTTGAGGCTCTCATGGAATGGCTAAAGACAAGACCAATCCT	180 180 180
MO_M_Virus MO_M_NCBI MO_M_pHW2000	GTCACCTCTGACTA GTCACCTCTGACTA	AAGGGGATTTTGGGGTTTGTGTTCACGCTCACCGTGCCCAGTGAGCG AAGGGGATTTTGGGGTTTGTGTTCACGCTCACCGTGCCCAGTGAGCG AAGGGGATTTTGGGGTTTGTGTTCACGCTCACCGTGCCCAGTGAGCG	240 240 240
MO_M_Virus MO_M_NCBI MO_M_pHW2000	AGGACTGCAGCGTA AGGACTGCAGCGTA	AGACGCTTTGTCCAAAATGCCCTCAATGGGAATGGGGATCCAAATAA AGACGCTTTGTCCAAAATGCCCTCAATGGGAATGGGGATCCAAATAA AGACGCTTTGTCCAAAATGCCCTCAATGGGAATGGGGATCCAAATAA	300 300 300
MO_M_Virus MO_M_NCBI MO_M_pHW2000	CATGGACAAAGCAG CATGGACAAAGCAG	GTTAAACTGTATAGAAAACTTAAGAGGGAGATAACATTCCATGGGGC GTTAAACTGTATAGAAAACTTAAGAGGGAGATAACATTCCATGGGGC GTTAAACTGTATAGAAAACTTAAGAGGGAGATAACATTCCATGGGGC	360 360 360
MO_M_Virus MO_M_NCBI MO_M_pHW2000	CAAAGAAATAGCAC CAAAGAAATAGCAC	TCAGTTATTCTGCTGGTGCACTTGCCAGTTGCATGGGCCTCATATA CTCAGTTATTCTGCTGGTGCACTTGCCAGTTGCATGGGCCTCATATA CTCAGTTATTCTGCTGGTGCACTTGCCAGTTGCATGGGCCTCATATA	420 420 420
MO_M_Virus MO_M_NCBI MO_M_pHW2000	CAATAGGATGGGGG CAATAGGATGGGGG	GCTGTAACCACTGAAGTGGCATTTGGCCTGGTATGTGCAACATGTGA GCTGTAACCACTGAAGTGGCATTTGGCCTGGTATGTGCAACATGTGA GCTGTAACCACTGAAGTGGCATTTGGCCTGGTATGTGCAACATGTGA	480 480 480
MO_M_Virus MO_M_NCBI MO_M_pHW2000	ACAGATTGCTGACT ACAGATTGCTGACT	CCCAGCACAGGTCTCATAGGCAAATGGTGGCAACAACCAATCCATT CCCAGCACAGGTCTCATAGGCAAATGGTGGCAACAACCAATCCATT CCCAGCACAGGTCTCATAGGCAAATGGTGGCAACAACCAATCCATT ***********************	540 540 540
MO_M_Virus MO_M_NCBI MO_M_pHW2000	AATAAGACATGAGA AATAAGACATGAGA	AACAGAATGGTTTTGGCCAGCACTACAGCTAAGGCTATGGAGCAAAT AACAGAATGGTTTTGGCCAGCACTACAGCTAAGGCTATGGAGCAAAT AACAGAATGGTTTTGGCCAGCACTACAGCTAAGGCTATGGAGCAAAT	600 600 600
MO_M_Virus MO_M_NCBI MO_M_pHW2000	GGCTGGATCAAGTG GGCTGGATCAAGTG	GAGCAGGCAGCGGAGGCCATGGAGATTGCTAGTCAGGCCAGGCAAAT GAGCAGGCAGCGGAGGCCATGGAGATTGCTAGTCAGGCCAGGCAAAT GAGCAGGCAGCGAGGCCATGGAGATTGCTAGTCAGGCCAGGCAAAT GAGCAGGCAGCCAGGCAAAT	660 660 660
MO_M_Virus MO_M_NCBI MO_M_pHW2000	GGTGCAGGCAATGA GGTGCAGGCAATGA	AGAGCCGTTGGGACTCATCCTAGCTCCAGTACTGGTCTAAGAGATGA AGAGCCGTTGGGACTCATCCTAGCTCCAGTACTGGTCTAAGAGATGA AGAGCCGTTGGGACTCATCCTAGCTCCAGTACTGGTCTAAGAGATGA	720 720 720
MO_M_Virus MO_M_NCBI MO_M_pHW2000	TCTTCTTGAAAATT TCTTCTTGAAAATT	TTGCAGACCTATCAGAAACGAATGGGGGTGCAGATGCAACGATTCAA TTGCAGACCTATCAGAAACGAATGGGGGTGCAGATGCAACGATTCAA TTGCAGACCTATCAGAAACGAATGGGGGTGCAGATGCAACGATTCAA	780 780 780
MO_M_Virus MO_M_NCBI MO_M_pHW2000	GTGACCCGCTTGTT GTGACCCGCTTGTT	CGTTGCCGCGAATATCATTGGGATCTTGCACTTGATATTGTGGATTC CGTTGCCGCGAATATCATTGGGATCTTGCACTTGATATTGTGGATTC CGTTGCCGCGAATATCATTGGGATCTTGCACTTGATATTGTGGATTC ***********************************	840 840 840
MO_M_Virus MO_M_NCBI MO_M_pHW2000	TTGATCGTCTTTTT TTGATCGTCTTTTT	TTTCAAATGCATCTATCGACTCTTCAAACACGGCCTTAAAAGAGGGC TTTCAAATGCATCTATCGACTCTTCAAACACGGCCTTAAAAGAGGGC TTTCAAATGCATCTATCGACTCTTCAAACACGGCCTTAAAAGAGGGC	900 900 900
MO_M_Virus MO_M_NCBI MO_M_pHW2000	CTTCTACGGAAGGAGTACCTGAGTCTATGAGGGAAGAATATCGAAAGGA <mark>A</mark> CAGCAGAATG CTTCTACGGAAGGAGTACCTGAGTCTATGAGGGAAGAATATCGAAAGGA <mark>R</mark> CAGCAGAATG CTTCTACGGAAGGAGTACCTGAGTCTATGAGGGAAGAATATCGAAAGGA <mark>A</mark> CAGCAGAATG *********************************		
MO_M_Virus MO_M_NCBI MO_M_pHW2000	CTGTGGATGCTGACGACAGTCATTTTGTCAGCATAGAGTTGGAGTAAAAAACTACNNNNN CTGTGGATGCTGACGACAGTCATTTTGTCAGCATAGAGTTGGAGTAAAAAAACTACCTTGT CTGTGGATGCTGACGACAGTCATTTTGTCAGCATAGAGTTGGAGTAAAAAACTACCTTGT *********************************		1020 1020 1020
MO_M_Virus MO_M_NCBI MO_M_pHW2000	NNNNNN TTCTACT TTCTACT	1027 1027 1027	