M (1027 bp)

Nature: cRNA

Source: NC 002016.1 Influenza A virus (A/Puerto Rico/8/1934(H1N1)) segment 7

M1 protein

Source: NP_040978.1 (252 aa)

Sequence: 26 - 784

MSLLTEVETYVLSIIPSGPLKAEIAQRLEDVFAGKNTDLEVLMEWLKTRPILSPLTKGILGFVFTLTVPS ERGLQRRRFVQNALNGNGDPNNMDKAVKLYRKLKREITFHGAKEISLSYSAGALASCMGLIYNRMGAVTT EVAFGLVCATCEQIADSQHRSHRQMVTTTNPLIRHENRMVLASTTAKAMEQMAGSSEQAAEAMEVASQAR QMVQAMRTIGTHPSSSAGLKNDLLENLQAYQKRMGVQMQRFK

M2 protein

Source: NP 040979.2 (97 aa)

Sequence: 26 - 1007

MSLLTEVETPIRNEWGCRCNGSSDPLAIAANIIGILHLILWILDRLFFKCIYRRFKYGLKGGPSTEGVPK SMREEYRKEQQSAVDADDGHFVSIELE

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M (1027 bp)

Nature: vRNA

Source: Illumina sequences from virus stocks_RPS2022

CTATCATCCCGTCAGGCCCCCTCAAAGCCGAGATCGCACAGAGACTTGAAGATGTCTTTGCA GGGAAGAACACCGATCTTGAGGTTCTCATGGAATGGCTAAAGACAAGACCAATCCTGTCACC TCTGACTAAGGGGATTTTAGGATTTGTGTTCACGCTCACCGTGCCCAGTGAGCGAGGACTGC AGCGTAGACGCTTTGTCCAAAATGCCCTTAATGGGAACGGGGATCCAAATAACATGGACAAA GCAGTTAAACTGTATAGGAAGCTCAAGAGGGAGATAACATTCCATGGGGCCAAAGAAATCTC ACTCAGTTATTCTGCTGGTGCACTTGCCAGTTGTATGGGCCTCATATACAACAGGATGGGGG CTGTGACCACTGAAGTGGCATTTGGCCTGGTATGTGCAACCTGTGAACAGATTGCTGACTCC CAGCATCGGTCTCATAGGCAAATGGTGACAACCAATCCACTAATCAGACATGAGAACAG AATGGTTTTAGCCAGCACTACAGCTAAGGCTATGGAGCAAATGGCTGGATCGAGTGAGCAAG CAGCAGAGGCCATGGAGGTTGCTAGTCAGGCTAGACAAATGGTGCAAGCGATGAGAACCATT GGGACTCATCCTAGCTCCAGTGCTGGTCTGAAAAATGATCTTCTTGAAAATTTTGCAGGCCTA TCAGAAACGAATGGGGGTGCAGATGCAACGGTTCAAGTGATCCTCTCACTATTGCCGCAAAT ATCATTGGGATCTTGCACTTGACATTGTGGATTCTTGATCGTCTTTTTTTCAAATGCATTTA CCGTCGCTTTAAATACGGACTGAAAGGAGGGCCTTCTACGGAAGGAGTGCCAAAGTCTATGA GGGAAGAATATCGAAAGGAACAGCAGAGTGCTGTGGATGCTGACGATGGTCATTTTGTCAGC ATAGAGCTGGAGTAAAAAACTACCTTGNNNNNNN

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M (1027 bp)

Nature: cDNA_pHW2000

Source: GATC sequences from Maxiprep RPS 2023

AGCAAAAGCAGGTAGATATTGAAAG**ATG**AGTCTTCTAACCGAGGTCGAAACGTACGTACTCT CTATCATCCCGTCAGGCCCCCTCAAAGCCGAGATCGCACAGAGACTTGAAGATGTCTTTGCA GGGAAGAACACCGATCTTGAGGTTCTCATGGAATGGCTAAAGACAAGACCAATCCTGTCACC TCTGACTAAGGGGATTTTAGGATTTGTGTTCACGCTCACCGTGCCCAGTGAGCGAGGACTGC AGCGTAGACGCTTTGTCCAAAATGCCCTTAATGGGAACGGGGATCCAAATAACATGGACAAA GCAGTTAAACTGTATAGGAAGCTCAAGAGGGAGATAACATTCCATGGGGCCAAAGAAATCTC ACTCAGTTATTCTGCTGGTGCACTTGCCAGTTGTATGGGCCTCATATACAACAGGATGGGGG CTGTGACCACTGAAGTGGCATTTGGCCTGGTATGTGCAACCTGTGAACAGATTGCTGACTCC CAGCATCGGTCTCATAGGCAAATGGTGACAACAACCAATCCACTAATCAGACATGAGAACAG AATGGTTTTAGCCAGCACTACAGCTAAGGCTATGGAGCAAATGGCTGGATCGAGTGAGCAAG CAGCAGAGGCCATGGAGGTTGCTAGTCAGGCTAGACAAATGGTGCAAGCGATGAGAACCATT GGGACTCATCCTAGCTCCAGTGCTGGTCTGAAAAATGATCTTCTTGAAAATTTTGCAGGCCTA TCAGAAACGAATGGGGGTGCAGATGCAACGGTTCAAGTGATCCTCTCACTATTGCCGCAAAT ATCATTGGGATCTTGCACTTGACATTGTGGATTCTTGATCGTCTTTTTTTCAAATGCATTTA CCGTCGCTTTAAATACGGACTGAAAGGAGGGCCTTCTACGGAAGGAGTGCCAAAGTCTATGA GGGAAGAATATCGAAAGGAACAGCAGAGTGCTGTGGATGCTGACGATGGTCATTTTGTCAGC ATAGAGCTGGAGTAAAAAACTACCTTGTTTCTACT

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PR8 M Illumina	NNNNNNGCAGGTAGATATTGAAAGATGAGTCTTCTAACCGAGGTCGAAACGTACGT	60
PR8_M_NCBI	AGCGAAAGCAGGTAGATATTGAAAGATGAGTCTTCTAACCGAGGTCGAAACGTACGT	60
PR8_M_pHW2000	AGCAAAAGCAGGTAGATATTGAAAGATGAGTCTTCTAACCGAGGTCGAAACGTACGT	60

PR8 M Illumina	CTCTATCATCCCGTCAGGCCCCCTCAAAGCCGAGATCGCACAGAGACTTGAAGATGTCTT	120
PR8 M NCBI	CTCTATCATCCCGTCAGGCCCCCTCAAAGCCGAGATCGCACAGAGACTTGAAGATGTCTT	120
PR8 M pHW2000	CTCTATCATCCCGTCAGGCCCCCTCAAAGCCGAGATCGCACAGAGACTTGAAGATGTCTT	120

DD0 W T11 w've		100
PR8_M_Illumina PR8 M NCBI	TGCAGGGAAGAACACCGATCTTGAGGTTCTCATGGAATGGCTAAAGACAAGACCAATCCT TGCAGGGAAGAACACCGATCTTGAGGTTCTCATGGAATGGCTAAAGACAAGACCAATCCT	180 180
PR8 M pHW2000	TGCAGGGAAGAACACCGATCTTGAGGTTCTCATGGAATGGCTAAAGACAAGACCAATCCT	180
11.0_11_p11.12000	*************	100
DD0 M T11		240
PR8_M_Illumina PR8 M NCBI	GTCACCTCTGACTAAGGGGATTTTAGGATTTGTGTTCACGCTCACCGTGCCCAGTGAGCG GTCACCTCTGACTAAGGGGATTTTAGGATTTGTGTTCACGCTCACCGTGCCCAGTGAGCG	240 240
PR8 M pHW2000	GTCACCTCTGACTAAGGGGATTTTAGGATTTGTGTTCACGCTCACCGTGCCCAGTGAGCG	240
<u>_</u>	*************	
PR8 M Illumina	AGGACTGCAGCGTAGACGCTTTGTCCAAAATGCCCTTAATGGGAACGGGGATCCAAATAA	300
PR8 M NCBI	AGGACTGCAGCGTAGACGCTTTGTCCAAAATGCCCTTAATGGGAACGGGGATCCAAATAA	300
PR8_M_pHW2000	AGGACTGCAGCGTAGACGCTTTGTCCAAAATGCCCTTAATGGGAACGGGGATCCAAATAA	300

PR8 M Illumina	CATGGACAAAGCAGTTAAACTGTATAGGAAGCTCAAGAGGGAGATAACATTCCATGGGGC	360
PR8_M_NCBI	CATGGACAAAGCAGTTAAACTGTATAGGAAGCTCAAGAGGGAGATAACATTCCATGGGGC	360
PR8_M_pHW2000	CATGGACAAAGCAGTTAAACTGTATAGGAAGCTCAAGAGGGAGATAACATTCCATGGGGC	360

PR8 M Illumina	CAAAGAAATCTCACTCAGTTATTCTGCTGGTGCACTTGCCAGTTGTATGGGCCTCATATA	420
PR8 M NCBI	CAAAGAAATCTCACTCAGTTATTCTGCTGGTGCACTTGCCAGTTGTATGGGCCTCATATA	420
PR8 M pHW2000	CAAAGAAATCTCACTCAGTTATTCTGCTGGTGCACTTGCCAGTTGTATGGGCCTCATATA	420

PR8 M Illumina	CAACAGGATGGGGGCTGTGACCACTGAAGTGGCATTTGGCCTGGTATGTGCAACCTGTGA	480
PR8 M NCBI	CAACAGGATGGGGCTGTGACCACTGAAGTGGCATTTGGCCTGGTATGTGCAACCTGTGA	480
PR8 M pHW2000	CAACAGGATGGGGCTGTGACCACTGAAGTGGCATTTGGCCTGGTATGTGCAACCTGTGA	480

PR8 M Illumina	ACAGATTGCTGACTCCCAGCATCGGTCTCATAGGCAAATGGTGACAACAACCAA <mark>T</mark> CCACT	540
PR8 M NCBI	ACAGATTGCTGACTCCCAGCATCGGTCTCATAGGCAAATGGTGACAACAACCAAC	540
PR8_M_pHW2000	$f ACAGATTGCTGACTCCCAGCATCGGTCTCATAGGCAAATGGTGACAACAACCAA{f T}CCACT$	540

PR8 M Illumina	AATCAGACATGAGAACAGAATGGTTTTAGCCAGCACTACAGCTAAGGCTATGGAGCAAAT	600
PR8 M NCBI	AATCAGACATGAGAACAGAATGGTTTTAGCCAGCACTACAGCTAAGGCTATGGAGCAAAT	600
PR8 M pHW2000	AATCAGACATGAGAACAGAATGGTTTTAGCCAGCACTACAGCTAAGGCTATGGAGCAAAT	600
- <u>-</u> -	************	
PR8 M Illumina	GGCTGGATCGAGTGAGCAAGCAGCAGAGGCCATGGAGGTTGCTAGTCAGGCTAG <mark>A</mark> CAAAT	660
PR8 M NCBI	GGCTGGATCGAGTGAGCAAGCAGCAGAGGCCATGGAGGTTGCTAGTCAGGCTAGGCAAAT	660
PR8 M pHW2000	GGCTGGATCGAGTGAGCAAGCAGCAGAGGCCATGGAGGTTGCTAGTCAGGCTAG <mark>A</mark> CAAAT	660
	************ ***** ****	
PR8 M Illumina	GGTGCAAGCGATGAGAACCATTGGGACTCATCCTAGCTCCAGTGCTGGTCTGAAAAATGA	720
PR8 M NCBI	GGTGCAAGCGATGAGAACCATTGGGACTCATCCTAGCTCCAGTGCTGGTCTGAAAAATGA	720
PR8_M_pHW2000	GGTGCAAGCGATGAGAACCATTGGGACTCATCCTAGCTCCAGTGCTGGTCTGAAAAATGA	720

PR8 M Illumina	TCTTCTTGAAAATTTGCAGGCCTATCAGAAACGAATGGGGGTGCAGATGCAACGGTTCAA	780
PR8 M NCBI	TCTTCTTGAAAATTTGCAGGCCTATCAGAAACGAATGGGGGTGCAGATGCAACGGTTCAA	780
PR8_M_pHW2000	TCTTCTTGAAAATTTGCAGGCCTATCAGAAACGAATGGGGGTGCAGATGCAACGGTTCAA	780

PR8 M Illumina	GTGATCCTCTC <mark>A</mark> CTATTGCCGCAAATATCATTGGGATCTTGCACTTGA <mark>C</mark> ATTGTGGATTC	840
PR8 M NCBI	GTGATCCTCTCGCTATTGCCGCAAATATCATTGGGATCTTGCACTTGATATTGTGGATTC	840
PR8_M_pHW2000	GTGATCCTCTCACTATTGCCGCAAATATCATTGGGATCTTGCACTTGACATTGTGGATTC	840
	******* ***********************	
PR8 M Illumina	TTGATCGTCTTTTTTCAAATGCATTTACCGTCGCTTTAAATACGGACTGAAAGGAGGGC	900
PR8 M NCBI	TTGATCGTCTTTTTTCAAATGCATTTACCGTCGCTTTAAATACGGACTGAAAGGAGGGC	900
PR8_M_pHW2000	TTGATCGTCTTTTTTCAAATGCATTTACCGTCGCTTTAAATACGGACTGAAAGGAGGGC	900

PR8 M Illumina	CTTCTACGGAAGGAGTGCCAAAGTCTATGAGGGAAGAATATCGAAAGGAACAGCAGAGTG	960
PR8_M_NCBI	CTTCTACGGAAGGAGTGCCAAAGTCTATGAGGGAAGAATATCGAAAGGAACAGCAGAGTG	960
PR8_M_pHW2000	CTTCTACGGAAGGAGTGCCAAAGTCTATGAGGGAAGAATATCGAAAGGAACAGCAGAGTG	960

PR8_M_Illumina	CTGTGGATGCTGACGATGGTCATTTTGTCAGCATAGAGCTGGAGTAAAAAACTACCTTGN	1020
PR8_M_NCBI	CTGTGGATGCTGACGATGGTCATTTTGTCAGCATAGAGCTGGAGTAAAAAACTACCTTGT	1020
PR8_M_pHW2000	CTGTGGATGCTGACGATGGTCATTTTGTCAGCATAGAGCTGGAGTAAAAAACTACCTTGT	1020

PR8_M_Illumina	NNNNNNN 1027	
PR8_M_NCBI	TTCTACT 1027	
PR8_M_pHW2000	TTCTACT 1027	