NS (890 bp)

Nature: cRNA

Source: NC_002020.1 Influenza A virus (A/Puerto Rico/8/1934(H1N1)) segment 8

NS1 protein

Source: NP 040984.1 (230 aa)

Sequence: 27 - 719

MDPNTVSSFQVDCFLWHVRKRVADQELGDAPFLDRLRRDQKSLRGRGSTLGLDIETATRAGKQIVERILK EESDEALKMTMASVPASRYLTDMTLEEMSREWSMLIPKQKVAGPLCIRMDQAIMDKNIILKANFSVIFDR LETLILLRAFTEEGAIVGEISPLPSLPGHTAEDVKNAVGVLIGGLEWNDNTVRVSETLQRFAWRSSNENG RPPLTPKQKREMAGTIRSEV

NS1/NEP protein

Source: NP 040983.1 (121 aa)

Sequence: 27 - 864

MDPNTVSSFQDILLRMSKMQLESSSEDLNGMITQFESLKLYRDSLGEAVMRMGDLHSLQNRNEKWREQLG QKFEEIRWLIEEVRHKLKVTENSFEQITFMQALHLLLEVEQEIRTFSFQLI

RITHU PAUL STANSILAUS 28

NS (890 bp)

Nature: vRNA

Source: Illumina sequences from virus stocks RPS2022

RITHU PAUL STANSILAUS 29

NS (890 bp)

Nature: cDNA_pHW2000

Source: GATC sequences from Maxiprep RPS 2023

RITHU PAUL STANSILAUS 30

PR8 NS Illumina	NNNNNAGCAGGGTGACAAA <mark>A</mark> ACATAATGGATCCAAACACTGTGTCAAGCTTTCAGGTAG	60
PR8 NS NCBI	AGCAAAAGCAGGGTGACAAA <mark>A</mark> ACATAATGGATCCAAACACTGTGTCAAGCTTTCAGGTAG	60
PR8 NS pHW2000	AGCAAAAGCAGGGTGACAAAAACATAATGGATCCAAACACTGTGTCAAGCTTTCAGGTAG	60

PR8 NS Illumina	ATTGCTTTCTTTGGCATGTCCGCAAACGAGTTGCAGACCAAGAACTAGG <mark>C</mark> GATGCCCCAT	120
PR8 NS NCBI	ATTGCTTTCTTTGGCATGTCCGCAAACGAGTTGCAGACCAAGAACTAGG <mark>T</mark> GATGCCCCAT	120
PR8 NS pHW2000	ATTGCTTTCTTTGGCATGTCCGCAAACGAGTTGCAGACCAAGAACTAGG <mark>C</mark> GATGCCCCAT	120

PR8 NS Illumina	TCCTTGATCGGCTTCGCCGAGATCAGAAATCCCTAAGAGGAAGGGGCAG <mark>T</mark> ACTCT <mark>C</mark> GGTC	180
PR8 NS NCBI	TCCTTGATCGGCTTCGCCGAGATCAGAAATCCCTAAGAGGAAGGGGCAG <mark>C</mark> ACTCT <mark>T</mark> GGTC	180
PR8 NS pHW2000	$ ext{TCCTTGATCGGCTTCGCCGAGATCAGAAATCCCTAAGAGGAAGGGGCAG}{ ext{T}} ext{ACTCT}{ ext{C}} ext{GGTC}$	180
	********* **** *** ****	
PR8 NS Illumina	TGGACATC <mark>A</mark> AGACAGCCACACGTGCTGGAAAGCAGATAGTGGAGCGGATTCTGAAAGAAG	240
PR8 NS NCBI	TGGACATCGAGACAGCCACACGTGCTGGAAAGCAGATAGTGGAGCGGATTCTGAAAGAAG	240
PR8 NS pHW2000	TGGACATCAAGACAGCCACACGTGCTGGAAAGCAGATAGTGGAGCGGATTCTGAAAGAAG	240
	****** *****************	
PR8 NS Illumina	AATCCGATGAGGCACTTAAAATGACCATGGCCTCTGTACCTGCGTCGCGTTACCTAAC <mark>T</mark> G	300
PR8 NS NCBI	AATCCGATGAGGCACTTAAAATGACCATGGCCTCTGTACCTGCGTCGCGTTACCTAAC <mark>C</mark> G	300
PR8_NS_pHW2000	${\tt AATCCGATGAGGCACTTAAAATGACCATGGCCTCTGTACCTGCGTCGCGTTACCTAAC{ t T}_{ t G}}$	300

PR8 NS Illumina	ACATGACTCTTGAGGAAATGTCAAGGGA <mark>C</mark> TGGTCCATGCTCATACCCAAGCAGAAAGTGG	360
PR8 NS NCBI	ACATGACTCTTGAGGAAATGTCAAGGGAATGGTCCATGCTCATACCCAAGCAGAAAGTGG	360
PR8 NS pHW2000	ACATGACTCTTGAGGAAATGTCAAGGGACTGGTCCATGCTCATACCCAAGCAGAAAGTGG	360

PR8 NS Illumina	CAGGCCCTCTTTGTATCAGAATGGACCAGGCGATCATGGATAA <mark>G</mark> AACATCATACTGAAAG	420
PR8 NS NCBI	CAGGCCCTCTTTGTATCAGAATGGACCAGGCGATCATGGATAAAAACATCATACTGAAAG	420
PR8 NS pHW2000	CAGGCCCTCTTTGTATCAGAATGGACCAGGCGATCATGGATAA <mark>G</mark> AACATCATACTGAAAG	420

PR8 NS Illumina	CGAACTTCAGTGTGATTTTTGACCGGCTGGAGACTCTAATATTGCTAAGGGCTTTCACCG	480
PR8 NS NCBI	CGAACTTCAGTGTGATTTTTGACCGGCTGGAGACTCTAATATTGCTAAGGGCTTTCACCG	480
PR8 NS pHW2000	CGAACTTCAGTGTGATTTTTGACCGGCTGGAGACTCTAATATTGCTAAGGGCTTTCACCG	480

PR8 NS Illumina	AAGAGGGAGCAATTGTTGGCGAAATTTCACCATTGCCTTCTCTCCAGGACATACTGCTG	540
PR8 NS NCBI	AAGAGGGAGCAATTGTTGGCGAAATTTCACCATTGCCTTCTCTCTC	540
PR8 NS pHW2000	AAGAGGGAGCAATTGTTGGCGAAATTTCACCATTGCCTTCTCTCTC	540

PR8 NS Illumina	AGGATGTCAAAAATGCAGTTGGAGTCCTCATCGGAGGACTTGAATGGAATGATAACACAG	600
PR8_NS_NCBI	AGGATGTCAAAAATGCAGTTGGAGTCCTCATCGGAGGACTTGAATGGAATGATAACACAG	600
PR8_NS_pHW2000	AGGATGTCAAAAATGCAGTTGGAGTCCTCATCGGAGGACTTGAATGGAATGATAACACAG	600
PR8_NS_Illumina	TTCGAGTCTCTGAAACTCTACAGAGATTCGCTTGGAGAAGCAGTAATGAGAATGGGAGAC	660
PR8_NS_NCBI	TTCGAGTCTCTGAAACTCTACAGAGATTCGCTTGGAGAAGCAGTAATGAGAATGGGAGAC	660
PR8_NS_pHW2000	TTCGAGTCTCTGAAACTCTACAGAGATTCGCTTGGAGAAGCAGTAATGAGAATGGGAGAC ********************************	660
PR8_NS_Illumina	CTCCACTCACTCCAAAACAGAAACGAGAAATGGCGGGAACAATTAGGTCAGAAGTTTGAA	720
PR8_NS_NCBI	CTCCACTCACTCCAAAACAGAAACGAGAAATGGCGGGAACAATTAGGTCAGAAGTTTGAA	720
PR8_NS_pHW2000	CTCCACTCACTCCAAAACAGAAACGAGAAATGGCGGGAACAATTAGGTCAGAAGTTTGAA ****************************	720
DDO NG TIL'.		700
PR8_NS_Illumina	GAAATAAGATGGTTGATTGAAGAAGTGAGACACAAACTGAAG <mark>A</mark> TAACAGAGAATAGTTTT GAAATAAGATGGTTGATTGAAGAAGTGAGACACAAACTGAAG <mark>G</mark> TAACAGAGAATAGTTTT	780 780
PR8_NS_NCBI PR8 NS pHW2000	GAAATAAGATGGTTGATTGAAGAAGTGAGACACAAACTGAAG <mark>G</mark> TAACAGAGAATAGTTTT	780 780
FRO_NB_piiw2000	**************************************	700
PR8 NS Illumina	GAGCAAATAACATTTATGCAAGCCTTACATCTATTGCTTGAAGTGGAGCAAGAGATAAGA	840
PR8_NS_IIIUMINA PR8_NS_NCBI	GAGCAAATAACATTTATGCAAGCCTTACATCTATTGCTTGAAGTGGAGCAAGAGATAAGA GAGCAAATAACATTTATGCAAGCCTTACATCTATTGCTTGAAGTGGAGCAAGAGATAAGA	840
PR8_NS_pHW2000	GAGCAAATAACATTTATGCAAGCCTTACATCTATTGCTTGAAGTGGAGCAAGAGATAAGA	840
	**************************************	010
PR8 NS Illumina	ACTTTCTCGTTTCAGCTTATTTAGTACTAAAAAACACCCTTGNNNNNNNN 890	
PR8_NS_IIIUMIMA PR8_NS_NCBI	ACTITCTCGTTTCAGCTTATTTAGTACTAAAAAACACCCTTGNNNNNNN 890 ACTTTCTCATTTCAGCTTATTTAATAATAAAAAACACCCTTGTTTCTACT 890	
PR8 NS pHW2000	ACTTTCTCGTTTCAGCTTATTTAGTAACTAAAAAACACCCTTGTTTCTACT 890	
