NP (1565 bp)

Nature: cRNA

Source: NC_002019.1 Influenza A virus (A/Puerto Rico/8/1934(H1N1)) segment 5

AGCAAAAGCAGGGTAGATAATCACTCACTGAGTGACATCAAAATCATGGCGTCCCAAGGCACCAAACGGT CTTACGAACAGATGGAGACTGATGGAGAACGCCAGAATGCCACTGAAATCAGAGCATCCGTCGGAAAAAT GATTGGTGGAATTGGACGATTCTACATCCAAATGTGCACAGAACTTAAACTCAGTGATTATGAGGGACGG TGGAAGAACATCCCAGTGCGGGGAAGGATCCTAAGAAAACTGGAGGACCTATATACAGAAGAGTAAACGG AAAGTGGATGAGAAACTCATCCTTTATGACAAAGAAGAATAAGGCGAATCTGGCGCCCAAGCTAATAAT GGTGACGATGCAACGGCTGGTCTGACTCACATGATGATCTGGCATTCCAATTTGAATGATGCAACTTATC AGAGGACAAGGGCTCTTGTTCGCACCGGAATGGATCCCAGGATGTGCTCTCTGATGCAAGGTTCAACTCT $\verb|CCCTAGGAGGTCTGGAGCCGCAGGTGCTGCAGTCAAAGGAGTTGGAACAATGGTGATGGAATTGGTCAGG| \\$ ATGATCAAACGTGGGATCAATGATCGGAACTTCTGGAGGGGTGAGAATGGACGAAAAACAAGAATTGCTT ATGAAAGAATGTGCAACATTCTCAAAGGGAAATTTCAAACTGCTGCACAAAAAGCAATGATGGATCAAGT GAGAGAGCCGGGACCCAGGGAATGCTGAGTTCGAAGATCTCACTTTTCTAGCACGGTCTGCACTCATA ACGACTTTGAAAGAGGGGATACTCTCTAGTCGGAATAGACCCTTTCAGACTGCTTCAAAACAGCCAAGT GTACAGCCTAATCAGACCAAATGAGAATCCAGCACACAGAGTCAACTGGTGTGGATGGCATGCCATTCT GCCGCATTTGAAGATCTAAGAGTATTGAGCTTCATCAAAGGGACGAAGGTGGTCCCAAGAGGGAAGCTTT CCACTAGAGGAGTTCAAATTGCTTCCAATGAAAATATGGAGACTATGGAATCAAGTACACTTGAACTGAG AAGCAGGTACTGGGCCATAAGGACCAGAAGTGGAGGAAACACCAATCAACAGAGGGCCATCTGCGGGCCAA ATCAGCATACAACCTACGTTCTCAGTACAGAGAAATCTCCCTTTTGACAGAACAACCGTTATGGCAGCAT TCACTGGGAATACAGAGGGGAAACATCTGACATGAGGACCGAAATCATAAGGATGATGGAAAGTGCAAG ACCAGAAGATGTGTCTTTCCAGGGGGGGGGGTCTTCGAGCTCTCGGACGAAAAGGCAGCCGAGCCCGATC GTGCCTTCCTTTGACATGAGTAATGAAGGATCTTATTTCTTCGGAGACAATGCAGAGGAGTACGACAATT AAAGAAAATACCCTTGTTTCTACT

NP protein

Source: NP 040982.1 (566 aa)

Sequence: 46 - 1542

MASQGTKRSYEQMETDGERQNATEIRASVGKMIGGIGRFYIQMCTELKLSDYEGRLIQNSLTIERMVLSA FDERRNKYLEEHPSAGKDPKKTGGPIYRRVNGKWMRELILYDKEEIRRIWRQANNGDDATAGLTHMMIWH SNLNDATYQRTRALVRTGMDPRMCSLMQGSTLPRRSGAAGAAVKGVGTMVMELVRMIKRGINDRNFWRGE NGRKTRIAYERMCNILKGKFQTAAQKAMMDQVRESRDPGNAEFEDLTFLARSALILRGSVAHKSCLPACV YGPAVASGYDFEREGYSLVGIDPFRLLQNSQVYSLIRPNENPAHKSQLVWMACHSAAFEDLRVLSFIKGT KVVPRGKLSTRGVQIASNENMETMESSTLELRSRYWAIRTRSGGNTNQQRASAGQISIQPTFSVQRNLPF DRTTVMAAFTGNTEGRTSDMRTEIIRMMESARPEDVSFQGRGVFELSDEKAASPIVPSFDMSNEGSYFFG DNAEEYDN

NP (1566 bp)

Nature: vRNA

Source: Illumina sequences from virus stocks RPS2022

NNNNNAAGCAGGGTAGATAATCACTCACTGAGTGACATCAAAATCATGGCGTCTCAAGGCAC CAAACGATCTTACGAACAGATGGAGACTGATGGAGAACGCCAGAATGCCACTGAAATCAGAG CATCCGTCGGAAAAATGATTGGTGGAATTGGACGATTCTACATCCAAATGTGCACCGAACTC AAACTCAGTGATTATGAGGGACGGTTGATCCAAAACAGCTTAACAATAGAGAGAATGGTGCT CTCTGCTTTTGACGAAAGGAGAAATAAATACCTTGAAGAACATCCCAGTGCGGGGAAAGATC CTAAGAAAACTGGAGGACCTATATACAGGAGAGTAAACGGAAAGTGGATGAGAGAACTCATC CTTTATGACAAAGAAGAAATAAGGCGAATCTGGCGCCAAGCTAATAATGGTGACGATGCAAC GGCTGGTCTGACTCACATGATGATCTGGCATTCCAATTTGAATGATGCAACTTATCAGAGGA CAAGAGCTCTTGTTCGCACCGGAATGGATCCCAGGATGTGCTCTCTGATGCAAGGTTCAACT CTCCCTAGGAGGTCTGGAGCCGCAGGTGCTGCAGTCAAAGGAGTTGGAACAATGGTGATGGA ATTGGTCAGAATGATCAAACGTGGGATCAATGATCGGAACTTCTGGAGGGGTGAGAATGGAC GAAAAACAAGAATTGCTTATGAAAGAATGTGCAACATTCTCAAAGGGAAATTTCAAACTGCT GCACAAAAAGCAATGATGGATCAAGTGAGAGAGAGCCGGAACCCAGGGAATGCTGAGTTCGA AGATCTCACTTTTCTAGCACGGTCTGCACTCATATTGAGAGGGTCGGTTGCTCACAAGTCCT TACTCTCTAGTCGGAATAGACCCTTTCAGACTGCTTCAAAACAGCCAAGTGTACAGCCTAAT CAGACCAAATGAGAATCCAGCACAAGAGTCAACTGGTGTGGATGGCATGCCATTCTGCCG CATTTGAAGATCTAAGAGTATTAAGCTTCATCAAAGGGACGAAGGTGCTCCCAAGAGGGAAG CTTTCCACTAGAGGAGTTCAAATTGCTTCCAATGAAAATATGGAGACTATGGAATCAAGTAC ACTTGAACTGAGAAGCAGGTACTGGGCCATAAGGACCAGAAGTGGAGGAAACACCAATCAAC AGAGGGCATCTGCGGGCCAAATCAGCATACAACCTACGTTCTCAGTACAGAGAAATCTCCCT TTTGACAGAACAACCATTATGGCAGCATTCAATGGGAATACAGAGGGGAAACATCTGACAT GAGGACCGAAATCATAAGGATGATGGAAAGTGCAAGACCAGAAGATGTGTCTTTCCAGGGGC AGTAATGAAGGATCTTATTTCTTCGGAGACAATGCAGAGGAGTACGACAATTAAAGAAAAAT ACCCTTGNNNNNNN

NP (1566 bp)

Nature: cDNA_pHW2000

Source: GATC sequences from Maxiprep RPS 2023

AGCAAAAGCAGGGTAGATAATCACTCACTGAGTGACATCAAAATCATGGCGTCTCAAGGCAC CAAACGATCTTACGAACAGATGGAGACTGATGGAGAACGCCAGAATGCCACTGAAATCAGAG CATCCGTCGGAAAAATGATTGGTGGAATTGGACGATTCTACATCCAAATGTGCACCGAACTC AAACTCAGTGATTATGAGGGACGGTTGATCCAAAACAGCTTAACAATAGAGAGAATGGTGCT CTCTGCTTTTGACGAAAGGAGAATAAATACCTTGAAGAACATCCCAGTGCGGGGAAAGATC CTAAGAAAACTGGAGGACCTATATACAGGAGAGTAAACGGAAAGTGGATGAGAGAACTCATC CTTTATGACAAAGAAGAAATAAGGCGAATCTGGCGCCAAGCTAATAATGGTGACGATGCAAC GGCTGGTCTGACTCACATGATGATCTGGCATTCCAATTTGAATGATGCAACTTATCAGAGGA CAAGAGCTCTTGTTCGCACCGGAATGGATCCCAGGATGTGCTCTCTGATGCAAGGTTCAACT CTCCCTAGGAGGTCTGGAGCCGCAGGTGCTGCAGTCAAAGGAGTTGGAACAATGGTGATGGA ATTGGTCAGAATGATCAAACGTGGGATCAATGATCGGAACTTCTGGAGGGGTGAGAATGGAC GAAAAACAAGAATTGCTTATGAAAGAATGTGCAACATTCTCAAAGGGAAATTTCAAACTGCT GCACAAAAAGCAATGATGGATCAAGTGAGAGAGAGCCGGAACCCAGGGAATGCTGAGTTCGA AGATCTCACTTTTCTAGCACGGTCTGCACTCATATTGAGAGGGTCGGTTGCTCACAAGTCCT TACTCTCTAGTCGGAATAGACCCTTTCAGACTGCTTCAAAACAGCCAAGTGTACAGCCTAAT CAGACCAAATGAGAATCCAGCACAAGAGTCAACTGGTGTGGATGGCATGCCATTCTGCCG CATTTGAAGATCTAAGAGTATTAAGCTTCATCAAAGGGACGAAGGTGCTCCCAAGAGGGAAG CTTTCCACTAGAGGAGTTCAAATTGCTTCCAATGAAAATATGGAGACTATGGAATCAAGTAC ACTTGAACTGAGAAGCAGGTACTGGGCCATAAGGACCAGAAGTGGAGGAAACACCAATCAAC AGAGGGCATCTGCGGGCCAAATCAGCATACAACCTACGTTCTCAGTACAGAGAAATCTCCCT TTTGACAGAACAACCATTATGGCAGCATTCAATGGGAATACAGAGGGGAAACATCTGACAT GAGGACCGAAATCATAAGGATGATGGAAAGTGCAAGACCAGAAGATGTGTCTTTCCAGGGGC AGTAATGAAGGATCTTATTTCTTCGGAGACAATGCAGAGGAGTACGACAATTAA**A**G**AAAAA**T ACCCTTGTTTCTACT

CLUSTAL O(1.2.4) mul	tiple sequence alignment			
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	AGCAAAAGCAGGGTAGATAATCACTCACTGAGTGACATCAAAATCATGGCGTCCCCAAGGC NNNNNAAGCAGGGTAGATAATCACTCACTGAGTGACATCAAAATCATGGCGTCTCAAAGGC AGCAAAAGCAGGGTAGATAATCACTCACTGAGTGACATCAAAATCATGGCGTCTCAAGGC *********************************	60 60 60		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	ACCAAACGGTCTTACGAACAGATGGAGACTGATGGAGAACGCCAGAATGCCACTGAAATC ACCAAACGATCTTACGAACAGATGGAGACTGATGGAGAACGCCAGAATGCCACTGAAATC ACCAAACGATCTTACGAACAGATGGAGACTGATGGAGAACGCCAGAATGCCACTGAAATC ******* *****************************			
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	AGAGCATCCGTCGGAAAAATGATTGGTGGAATTGGACGATTCTACATCCAAATGTGCACAAGAGCATCCGTCGGAAAAAATGATTGGTGGAATTGGACGATTCTACATCCAAATGTGCACCAAGAGCATCCGTCGGAAAAAATGATTGGTGGAATTGGACGATTCTACATCCAAATGTGCACCAAATGTACAAAAAAAA			
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	GAACTTAAACTCAGTGATTATGAGGGACGGTTGATCCAAAACAGCTTAACAATAGAGAGA GAACTCAAACTCAGTGATTATGAGGGACGGTTGATCCAAAACAGCTTAACAATAGAGAGA GAACTCAAACTCAGTGATTATGAGGGACGGTTGATCCAAAACAGCTTAACAATAGAGAGA ***** **************************	240 240 240		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	ATGGTGCTCTCTGCTTTTGACGAAAGGAGAAATAAATACCTGGAAGAACATCCCAGTGCG ATGGTGCTCTCTGCTTTTGACGAAAGGAGAAATAAATACCTTGAAGAACATCCCAGTGCG ATGGTGCTCTCTGCTTTTGACGAAAGGAGAAATAAATACCTTGAAGAACATCCCAGTGCG **********************************	300 300 300		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	GGGAA <mark>G</mark> GATCCTAAGAAAACTGGAGGACCTATATACAG <mark>A</mark> AGAGTAAACGGAAAGTGGATG GGGAA <mark>A</mark> GATCCTAAGAAAACTGGAGGACCTATATACAG <mark>G</mark> AGAGTAAACGGAAAGTGGATG GGGAA <mark>A</mark> GATCCTAAGAAAACTGGAGGACCTATATACAG <mark>G</mark> AGAGTAAACGGAAAGTGGATG ***** *******************************	360 360 360		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	AGAGAACTCATCCTTTATGACAAAGAAGAAATAAGGCGAATCTGGCGCCAAGCTAATAAT AGAGAACTCATCCTTTATGACAAAGAAGAAATAAGGCGAATCTGGCGCCAAGCTAATAAT AGAGAACTCATCCTTTATGACAAAGAAGAAATAAGGCGAATCTGGCGCCAAGCTAATAAT *******************************	420 420 420		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	GGTGACGATGCAACGGCTGGTCTGACTCACATGATGATCTGGCATTCCAATTTGAATGAT GGTGACGATGCAACGGCTGGTCTGACTCACATGATGATCTGGCATTCCAATTTGAATGAT GGTGACGATGCAACGGCTGGTCTGACTCACATGATGATCTGGCATTCCAATTTGAATGAT ***************************	480 480 480		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	GCAACTTATCAGAGGACAAGGGCTCTTGTTCGCACCGGAATGGATCCCAGGATGTGCTCT GCAACTTATCAGAGGACAAGAGCTCTTGTTCGCACCGGAATGGATCCCAGGATGTGCTCT GCAACTTATCAGAGGACAAGAGCTCTTGTTCGCACCGGAATGGATCCCAGGATGTGCTCT *******************************	540 540 540		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	CTGATGCAAGGTTCAACTCTCCCTAGGAGGTCTGGAGCCGCAGGTGCTGCAGTCAAAGGA CTGATGCAAGGTTCAACTCTCCCTAGGAGGTCTGGAGCCGCAGGTGCTGCAGTCAAAGGA CTGATGCAAGGTTCAACTCTCCCTAGGAGGTCTGGAGCCGCAGGTGCTGCAGTCAAAGGA ********************************	600 600 600		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	GTTGGAACAATGGTGATGGAATTGGTCAGGATGATCAAACGTGGGATCAATGATCGGAAC GTTGGAACAATGGTGATGGAATTGGTCAGAATGATCAAACGTGGGATCAATGATCGGAAC GTTGGAACAATGGTGATGGAATTGGTCAGAATGATCAAACGTGGGATCAATGATCGGAAC *********************************	660 660 660		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	TTCTGGAGGGGTGAGAATGGACGAAAAACAAGAATTGCTTATGAAAGAATGTGCAACATT TTCTGGAGGGGTGAGAATGGACGAAAAACAAGAATTGCTTATGAAAGAATGTGCAACATT TTCTGGAGGGGTGAGAATGGACGAAAAACAAGAATTGCTTATGAAAGAATGTGCAACATT ********************************	720 720 720		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	CTCAAAGGGAAATTTCAAACTGCTGCACAAAAAGCAATGATGATCAAGTGAGAGAGA	780 780 780		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	CGGGACCCAGGGAATGCTGAGTTCGAAGATCTCACTTTTCTAGCACGGTCTGCACTCATA CGGAACCCAGGGAATGCTGAGTTCGAAGATCTCACTTTTCTAGCACGGTCTGCACTCATA CGGAACCCAGGGAATGCTGAGTTCGAAGATCTCACTTTTCTAGCACGGTCTGCACTCATA *** ********************************	840 840 840		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	TTGAGAGGGTCGGTTGCTCACAAGTCCTGCCTGCCTGCCT	900 900 900		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	GCCAGTGGGTACGACTTTGAAAGAGAGGGATACTCTCTAGTCGGAATAGACCCTTTCAGA GCCAGTGGGTACGACTTTGAAAGGGAGGGATACTCTCTAGTCGGAATAGACCCTTTCAGA GCCAGTGGGTACGACTTTGAAAAGGGAGGGATACTCTCTAGTCGGAATAGACCCTTTCAGA ***********************************	960 960 960		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	CTGCTTCAAAACAGCCAAGTGTACAGCCTAATCAGACCAAATGAGAATCCAGCACACAAG CTGCTTCAAAACAGCCAAGTGTACAGCCTAATCAGACCAAATGAGAATCCAGCACACAAG CTGCTTCAAAACAGCCAAGTGTACAGCCTAATCAGACCAAATGAGAATCCAGCACACAAG ***************************	1020 1020 1020		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	AGTCAACTGGTGTGGATGGCATGCCATTCTGCCGCATTTGAAGATCTAAGAGTATTGAGCAGTCAACTGGTGTGGATGGCATGCCATTCTGCCGCATTTGAAGATCTAAGAGTATTAAGCAGTCAACTGGTGTGGATGGCATGCCATTCTGCCGCATTTGAAGATCTAAGAGTATTAAGCAGTCAACTGGTGTGGATGCCATTCTGCCGCATTTGAAGATCTAAGAGTATTAAGCC**********	1080 1080 1080		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	TTCATCAAAGGGACGAAGGTGGTCCCAAGAGGGAAGCTTTCCACTAGAGGAGTTCAAATT TTCATCAAAGGGACGAAGGTGCTCCCAAGAGGGAAGCTTTCCACTAGAGGAGTTCAAATT TTCATCAAAGGGACGAAGGTGCTCCCAAGAGGGAAGCTTTCCACTAGAGGAGTTCAAATT *******************************	1140 1140 1140		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	GCTTCCAATGAAAATATGGAGACTATGGAATCAAGTACACTTGAACTGAGAAGCAGGTAC GCTTCCAATGAAAATATGGAGACTATGGAATCAAGTACACTTGAACTGAGAAGCAGGTAC GCTTCCAATGAAAATATGGAGACTATGGAATCAAGTACACTTGAACTGAGAAGCAGGTAC ************************************	1200 1200 1200		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	TGGGCCATAAGGACCAGAAGTGGAGGAAACACCAATCAACAGAGGGCATCTGCGGGCCAA TGGGCCATAAGGACCAGAAGTGGAGGAAACACCAATCAACAGAGGGCATCTGCGGGCCAA TGGGCCATAAGGACCAGAAGTGGAGGAAACACCAATCAACAGAGGGCATCTGCGGGCCAA ******************************	1260 1260 1260		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	ATCAGCATACAACCTACGTTCTCAGTACAGAGAAATCTCCCTTTTGACAGAACAACCGTT ATCAGCATACAACCTACGTTCTCAGTACAGAGAAATCTCCCTTTTGACAGAACAACCATT ATCAGCATACAACCTACGTTCTCAGTACAGAGAAATCTCCCTTTTGACAGAACAACCATT *****************************	1320 1320 1320		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	ATGGCAGCATTCACTGGGAATACAGAGGGGAGAACATCTGACATGAGGACCGAAATCATA ATGGCAGCATTCAATGGGAATACAGAGGGGAGAACATCTGACATGAGGACCGAAATCATA ATGGCAGCATTCAATGGGAATACAGAGGGGGAGAACATCTGACATGAGGACCGAAATCATA *******************************	1380 1380 1380		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	AGGATGATGGAAAGTGCAAGACCAGAAGATGTGTCTTTCCAGGGGCGGGGGGTCTTCGAG AGGATGATGGAAAGTGCAAGACCAGAAGATGTGTCTTTCCAGGGGCGGGGAGTCTTCGAG AGGATGATGGAAAGTGCAAGACCAGAAGATGTGTCTTTCCAGGGGCGGGGAGTCTTCGAG ***********************************	1440 1440 1440		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	CTCTCGGACGAAAAGGCAGCCGAGCCCGATCGTGCCTTCCTT	1500 1500 1500		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	TCTTATTTCTTCGGAGACAATGCAGAGGAGTACGACAATTAAAGAAAAATACCCTTGTTT TCTTATTTCTTCGGAGACAATGCAGAGGAGTACGACAATTAAAGAAAAATACCCTTGNNN TCTTATTTCTTCGGAGACAATGCAGAGGAGTACGACAATTAAAGAAAAATACCCTTGTTT ******************************	1560 1560 1560		
PR8_NP_NCBI PR8_NP_Illumina PR8_NP_pHW2000	CTACT 1565 NNNNN 1565 CTACT 1565			

CLUSTAL O(1.2.4) multiple sequence alignment

NP_NCBI NP_pHW2000	MASQGTKRSYEQMETDGERQNATEIRASVGKMIGGIGRFYIQMCT SKSRVDNHSLSDIKIMASQGTKRSYEQMETDGERQNATEIRASVGKMIGGIGRFYIQMCT ************************************	45 60
NP_NCBI NP_pHW2000	ELKLSDYEGRLIQNSLTIERMVLSAFDERRNKYLEEHPSAGKDPKKTGGPIYRRVNGKWM ELKLSDYEGRLIQNSLTIERMVLSAFDERRNKYLEEHPSAGKDPKKTGGPIYRRVNGKWM ************************************	105 120
NP_NCBI NP_pHW2000	RELILYDKEEIRRIWRQANNGDDATAGLTHMMIWHSNLNDATYQRTRALVRTGMDPRMCS RELILYDKEEIRRIWRQANNGDDATAGLTHMMIWHSNLNDATYQRTRALVRTGMDPRMCS ************************************	165 180
NP_NCBI NP_pHW2000	LMQGSTLPRRSGAAGAAVKGVGTMVMELVRMIKRGINDRNFWRGENGRKTRIAYERMCNI LMQGSTLPRRSGAAGAAVKGVGTMVMELVRMIKRGINDRNFWRGENGRKTRIAYERMCNI ************************************	225 240
NP_NCBI NP_pHW2000	LKGKFQTAAQKAMMDQVRESRDPGNAEFEDLTFLARSALILRGSVAHKSCLPACVYGPAV LKGKFQTAAQKAMMDQVRESRNPGNAEFEDLTFLARSALILRGSVAHKSCLPACVYGPAV ************************************	285 300
NP_NCBI NP_pHW2000	ASGYDFEREGYSLVGIDPFRLLQNSQVYSLIRPNENPAHKSQLVWMACHSAAFEDLRVLS ASGYDFEREGYSLVGIDPFRLLQNSQVYSLIRPNENPAHKSQLVWMACHSAAFEDLRVLS ************************************	345 360
NP_NCBI NP_pHW2000	FIKGTKVVPRGKLSTRGVQIASNENMETMESSTLELRSRYWAIRTRSGGNTNQQRASAGQ FIKGTKVLPRGKLSTRGVQIASNENMETMESSTLELRSRYWAIRTRSGGNTNQQRASAGQ ******:******************************	405 420
NP_NCBI NP_pHW2000	ISIQPTFSVQRNLPFDRTTVMAAFTGNTEGRTSDMRTEIIRMMESARPEDVSFQGRGVFE ISIQPTFSVQRNLPFDRTTTMAAFNGNTEGRTSDMRTEIIRMMESARPEDVSFQGRGVFE ************************************	465 480
NP_NCBI NP_pHW2000	LSDEKAASPIVPSFDMSNEGSYFFGDNAEEYDN 498 LSDEKAASPIVPSFDMSNEGSYFFGDNAEEYDN*RKIPLFL 520 ************************************	