## NP (1565 bp)

Nature: cRNA

Source: DQ487330.1 Influenza A virus (A/Moscow/10/99(H3N2)) segment 5

AGCAAAAGCAGGGTTAATAATCACTCACTGAGTGACATCAAAATCATGGCGTCCCAAGGCACCAAACGGT CTTATGAACAGATGGAAACTGATGGGGATCGCCAGAATGCAACTGAGATTAGGGCATCCGTCGGGAAGAT GATTGATGGAATTGGGAGATTCTACATCCAAATGTGCACTGAACTTAAACTCAATGATTATGAAGGGCGG TGGAAGAACACCCCAGCGCGGGGAAAGATCCTAAGAAAACTGGAGGGCCCATATACAGGAGAGTAGATGG AAAATGGATGAGGGAACTCGTCCTTTATGACAAAGAAGAAATAAGGCGAATCTGGCGCCCAAGCCAACAAT GGTGAGGATGCGACAGCTGGTCTAACTCACATGATGATCTGGCATTCCAATTTGAATGATGCAACATACC AGAGGACAAGAGCTCTTGTTCGAACCGGAATGGATCCCAGAATGTGCTCTCTGATGCAGGGCTCGACTCT CCCTAGAAGGTCCGGAGCTGCAGGTGCTGCAGTCAAAGGAATCGGGACAATGGTGATGGAGCTGATCAGA ATGGTCAAACGGGGGATCAACGATCGAAATTTCTGGAGAGGTGAGAATGGGCGGAAAACAAGAAGTGCTT ATGAGAGAATGTGCAACATTCTTAAAGGAAAATTTCAAACAGCTGCACAAAGAGCAATGGTGGATCAAGT GAGAGAAAGTCGGAACCCAGGAAATGCTGAGATCGAAGATCTCATATTTTTTGGCAAGATCTGCATTGATA ATACAGCCTAATCAGACCTAACGAGAATCCAGCACACAAGAGTCAGCTGGTGTGGATGGCATGCCATTCT GCTGCATTTGAAGATTTAAGATTGTTAAGCTTCATCAGAGGGACCAAAGTATCTCCGCGGGGGAAACTTT CAACTAGAGGAGTACAAATTGCTTCAAATGAGAACATGGATAATATGGGATCGAGTACTCTTGAACTGAG AAGCGGGTACTGGGCCATAAGGACCAGGAGTGGAGGAAACACTAATCAACAGAGGGCCTCCGCAGGCCAA ATCAGTGTGCAACCTACGTTTTCTGTACAAAGAAACCTCCCATTTGAAAAGTCAACCGTCATGGCAGCAT TCACTGGAAATACGGAGGGAAGAACCTCAGACATGAGGGCAGAAATCATAAGAATGATGGAAGGTGCAAA ACCAGAAGAAGTGTCGTTCCGGGGGAGGGGAGTTTTCGAGCTCTCAGACGAGAAGGCGACGAACCCGATC GTGCCCTCTTTTGACATGAGTAATGAAGGATCTTATTTCTTCGGAGACAATGCAGAAGAGTACGACAATT AAGGAAAATACCCTTGTTTCTACT

## NP protein

Source: ABE73100.1 (498 aa) polymerase PB2

Sequence: 1-498

MASQGTKRSYEQMETDGDRQNATEIRASVGKMIDGIGRFYIQMCTELKLNDYEGRLIQNSLTIEKMVLSA FDERRNKYLEEHPSAGKDPKKTGGPIYRRVDGKWMRELVLYDKEEIRRIWRQANNGEDATAGLTHMMIWH SNLNDATYQRTRALVRTGMDPRMCSLMQGSTLPRRSGAAGAAVKGIGTMVMELIRMVKRGINDRNFWRGE NGRKTRSAYERMCNILKGKFQTAAQRAMVDQVRESRNPGNAEIEDLIFLARSALILRGSVAHKSCLPACV YGPAVSSGYDFEKEGYSLVGIDPFKLLQNSQVYSLIRPNENPAHKSQLVWMACHSAAFEDLRLLSFIRGT KVSPRGKLSTRGVQIASNENMDNMGSSTLELRSGYWAIRTRSGGNTNQQRASAGQISVQPTFSVQRNLPF EKSTVMAAFTGNTEGRTSDMRAEIIRMMEGAKPEEVSFRGRGVFELSDEKATNPIVPSFDMSNEGSYFFG DNAEEYDN

## NP (1566 bp)

Nature: vRNA

Source: Illumina sequences from virus stocks RPS2022

NNNNNAGCAGGGTTAATAATCACTCACTGAGTGACATCAAAATCATGGCGTCCCAAGGCAC CAAACGGTCTTATGAACAGATGGAAACTGATGGGGATCGCCAGAATGCAACTGAGATTAGGG CATCCGTCGGGAAGATGATTGATGGAATTGGGAGATTCTACATCCAAATGTGCACTGAACTT AAACTCAGTGATTATGAAGGGCGGTTGATCCAGAACAGCTTGACAATAGAGAAAATGGTGCT CTCTGCTTTTGATGAGAGAAGGAATAAATATCTGGAAGAACACCCCAGCGGGGGAAAGATC CTAAGAAAACTGGAGGGCCCATATACAGGAGAGTAGATGGAAAATGGATGAGGGAACTCGTC CTTTATGACAAAGGAGAAATAAGGCGAATCTGGCGCCAAGCCAACAATGGTGAGGATGCGAC AGCTGGTCTAACTCACATGATGATCTGGCATTCCAATTTGAATGATGCAACATACCAGAGGA CAAGAGCTCTTGTTCGAACCGGAATGGATCCCAGAATGTGCTCTCTGATGCAGGGCTCGACT CTCCCTAGAAGGTCCGGAGCTGCAGGTGCTGCAGTCAAAGGAATCGGGACAATGGTGATGGA GCTGATCAGAATGGTCAAACGGGGGGATCAACGATCGAAATTTCTGGAGAGGTGAGAATGGGC GGAAAACAAGAAGTGCTTATGAGAGAATGTGCAACATTCTTAAAGGAAAATTTCAAACAGCT GCACAAAGAGCAATGGTGGATCAAGTGAGAGAAAGTCGGAACCCAGGAAATGCTGAGATCGA AGATCTCATATTTTTGGCAAGATCTGCATTGATATTGAGAGGGTCAGTTGCTCACAAATCTT GCCTACCTGCCTGTGTATGGACCTGCAGTATCCAGTGGGTACGACTTCGAAAAAGAGGGA TATTCCTTGGTGGGAATAGACCCTTTCAAACTACTTCAAAATAGCCAAGTATACAGCCTAAT CAGACCTAACGAGAATCCAGCACAAGAGTCAGCTGGTGTGGATGCCATTCTGCTG CATTTGAAGATTTAAGATTGTTAAGCTTCATCAGAGGGACCAAAGTATCTCCGCGGGGGAAA CTTTCAACTAGAGGAGTACAAATTGCTTCAAATGAGAACATGGATAATATGGGATCGAGTAC TCTTGAACTGAGAAGCGGGTACTGGGCCATAAGGACCAGGAGTGGAGGAAACACTAATCAAC AGAGGGCCTCCGCAGGCCAAATCAGTGTGCAACCTACGTTTTCTGTACAAAGAAACCTCCCA TTTGAAAAGTCAACCGTCATGGCAGCATTCACTGGAAATACGGAGGGAAGAACCTCAGACAT GAGGGCAGAAATCATAAGAATGATGGAAGGTGCAAAACCAGAAGAAGTGTCGTTCCGAGGGA GGGGAGTTTTCGAGCTCTCAGACGAGAAGGCGACGAACCCGATCGTGCCCTCTTTTGACATG AGTAATGAAGGATCTTATTTCTTCGGAGACAATGCAGAAGAGTACGACAATTAAGGAAAAAA TACCCTTGNNNNNNN

## NP (1566 bp)

Nature: cDNA\_pHW2000

Source: GATC sequences from Maxiprep RPS 2023

AGCAAAAGCAGGGTTAATAATCACTCACTGAGTGACATCAAAATC**ATG**GCGTCCCAAGGCAC CAAACGGTCTTATGAACAGATGGAAACTGATGGGGATCGCCAGAATGCAACTGAGATTAGGG CATCCGTCGGGAAGATGATTGATGGAATTGGGAGATTCTACATCCAAATGTGCACTGAACTT AAACTCAGTGATTATGAAGGGCGGTTGATCCAGAACAGCTTGACAATAGAGAAAATGGTGCT CTCTGCTTTTGATGAGAGAAGGAATAAATATCTGGAAGAACACCCCAGCGCGGGGAAAGATC CTAAGAAAACTGGAGGGCCCATATACAGGAGAGTAGATGGAAAATGGATGAGGGAACTCGTC CTTTATGACAAAGGAGAAATAAGGCGAATCTGGCGCCAAGCCAACAATGGTGAGGATGCGAC AGCTGGTCTAACTCACATGATGATCTGGCATTCCAATTTGAATGATACAACATACCAGAGGA CAAGAGCTCTTGTTCGAACCGGAATGGATCCCAGAATGTGCTCTCTGATGCAGGGCTCGACT CTCCCTAGAAGGTCCGGAGCTGCAGGTGCTGCAGTCAAAGGAATCGGGACAATGGTGATGGA GCTGATCAGAATGGTCAAACGGGGGATCAACGATCGAAATTTCTGGAGAGGTGAGAATGGGC GGAAAACAAGAAGTGCTTATGAGAGAATGTGCAACATTCTTAAAGGAAAATTTCAAACAGCT GCACAAAGAGCAATGGTGGATCAAGTGAGAGAAAGTCGGAACCCAGGAAATGCTGAGATCGA AGATCTCATATTTTTGGCAAGATCTGCATTGATATTGAGAGGGTCAGTTGCTCACAAATCTT GCCTACCTGCCTGTGTATGGACCTGCAGTATCCAGTGGGTACGACTTCGAAAAAGAGGGA TATTCCTTGGTGGGAATAGACCCTTTCAAACTACTTCAAAATAGCCAAGTATACAGCCTAAT CAGACCTAACGAGAATCCAGCACAAGAGTCAGCTGGTGTGGATGGCATGCCATTCTGCTG CATTTGAAGATTTAAGATTGTTAAGCTTCATCAGAGGGACCAAAGTATCTCCGCGGGGGAAA CTTTCAACTAGAGGAGTACAAATTGCTTCAAATGAGAACATGGATAATATGGGATCGAGTAC TCTTGAACTGAGAAGCGGGTACTGGGCCATAAGGACCAGGAGTGGAGGAAACACTAATCAAC AGAGGGCCTCCGCAGGCCAAATCAGTGTGCAACCTACGTTTTCTGTACAAAGAAACCTCCCA TTTGAAAAGTCAACCGTCATGGCAGCATTCACTGGAAATACGGAGGGAAGAACCTCAGACAT GAGGGCAGAAATCATAAGAATGATGGAAGGTGCAAAACCAGAAGAAGTGTCGTTCCGAGGGA GGGGAGTTTTCGAGCTCTCAGACGAGAAGGCGACGAACCCGATCGTGCCCTCTTTTGACATG AGTAATGAAGGATCTTATTTCTTCGGAGACAATGCAGAAGAGTACGACAAT**TAA**GGAAAAAA TACCCTTGTTTCTACT

CLUSTAL O(1.2.4) multiple sequence alignment

	o-F-o boduono u3ono	
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	NNNNNAGCAGGGTTAATAATCACTCACTGAGTGACATCAAAATCATGGCGTCCCAAGGC AGCAAAAGCAGGGTTAATAATCACTCACTGAGTGACATCAAAATCATGGCGTCCCAAGGC AGCAAAAGCAGGGTTAATAATCACTCACTGAGTGACATCAAAATCATGGCGTCCCAAGGC *******************************	
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	ACCAAACGGTCTTATGAACAGATGGAAACTGATGGGGATCGCCAGAATGCAACTGAGATT ACCAAACGGTCTTATGAACAGATGGAAACTGATGGGGGATCGCCAGAATGCAACTGAGATT ACCAAACGGTCTTATGAACAGATGGAAACTGATGGGGGATCGCCAGAATGCAACTGAGATT ********************************	120
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	AGGGCATCCGTCGGGAAGATGATTGATGGAATTGGGAGATTCTACATCCAAATGTGCACT AGGGCATCCGTCGGGAAGATGATTGATGGAATTGGGAGATTCTACATCCAAATGTGCACT AGGGCATCCGTCGGGAAGATGATTGATGGAATTGGGAGATTCTACATCCAAATGTGCACT ***********************************	180
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	GAACTTAAACTCA <mark>G</mark> TGATTATGAAGGGCGGTTGATCCAGAACAGCTTGACAATAGAGAAA GAACTTAAACTCA <mark>A</mark> TGATTATGAAGGGCGGTTGATCCAGAACAGCTTGACAATAGAGAAA GAACTTAAACTCA <mark>G</mark> TGATTATGAAGGGCGGTTGATCCAGAACAGCTTGACAATAGAGAAA *****************************	240
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	ATGGTGCTCTCTGCTTTTGATGAGAGAAGGAATAAATATCTGGAAGAACACCCCAGCGCG ATGGTGCTCTCTGCTTTTGATGAGAGAAGGAATAAATATCTGGAAGAACACCCCAGCGCG ATGGTGCTCTCTGCTTTTGATGAGAGAAGGAATAAATATCTGGAAGAACACCCCAGCGCG ********************	
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	GGGAAAGATCCTAAGAAAACTGGAGGGCCCATATACAGGAGAGTAGATGGAAAATGGATG GGGAAAGATCCTAAGAAAACTGGAGGGCCCATATACAGGAGAGTAGATGGAAAATGGATG GGGAAAGATCCTAAGAAAACTGGAGGGCCCATATACAGGAGAGTAGATGGAAAATGGATG ***************	
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	AGGGAACTCGTCCTTTATGACAAAGGAGAAATAAGGCGAATCTGGCGCCAAGCCAACAAT AGGGAACTCGTCCTTTATGACAAAGAAGAAGAAATAAGGCGAATCTGGCGCCCAAGCCAACAAT AGGGAACTCGTCCTTTATGACAAAGGAGAAATAAGGCGAATCTGGCGCCCAAGCCAACAAT *******************************	420
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	GGTGAGGATGCGACAGCTGGTCTAACTCACATGATGATCTGGCATTCCAATTTGAATGAT GGTGAGGATGCGACAGCTGGTCTAACTCACATGATGATCTGGCATTCCAATTTGAATGAT GGTGAGGATGCGACAGCTGGTCTAACTCACATGATGATCTGGCATTCCAATTTGAATGAT ***************************	480
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	GCAACATACCAGAGGACAAGAGCTCTTGTTCGAACCGGAATGGATCCCAGAATGTGCTCT GCAACATACCAGAGGACAAGAGCTCTTGTTCGAACCGGAATGGATCCCAGAATGTGCTCT ACAACATACCAGAGGACAAGAGCTCTTGTTCGAACCGGAATGGATCCCAGAATGTGCTCT *******************************	540
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	CTGATGCAGGGCTCGACTCTCCCTAGAAGGTCCGGAGCTGCAGGTGCTGCAGTCAAAGGA CTGATGCAGGGCTCGACTCTCCCTAGAAGGTCCGGAGCTGCAGGTGCTGCAGTCAAAGGA CTGATGCAGGGCTCGACTCTCCCTAGAAGGTCCGGAGCTGCAGGTGCTGCAGTCAAAGGA ********************************	600
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	ATCGGGACAATGGTGATGGAGCTGATCAGAATGGTCAAACGGGGGGATCAACGATCGAAAT ATCGGGACAATGGTGATGGAGCTGATCAGAATGGTCAAACGGGGGGATCAACGATCGAAAT ATCGGGACAATGGTGATGGAGCTGATCAGAATGGTCAAACGGGGGGATCAACGATCGAAAT **********************************	660 660 660
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	TTCTGGAGAGGTGAGAATGGGCGGAAAACAAGAAGTGCTTATGAGAGAATGTGCAACATT TTCTGGAGAGGTGAGAATGGGCGGAAAACAAGAAGTGCTTATGAGAGAATGTGCAACATT TTCTGGAGAGGTGAGAATGGGCCGGAAAACAAGAAGTGCTTATGAGAGAATGTGCAACATT ********************************	720 720 720
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	CTTAAAGGAAAATTTCAAACAGCTGCACAAAGAGCAATGGTGGATCAAGTGAGAGAAAGT CTTAAAGGAAAATTTCAAACAGCTGCACAAAGAGCAATGGTGGATCAAGTGAGAGAAAGT CTTAAAGGAAAATTTCAAACAGCTGCACAAAGAGCAATGGTGGATCAAGTGAGAGAAAGT *************************	780 780 780
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	CGGAACCCAGGAAATGCTGAGATCGAAGATCTCATATTTTTTGGCAAGATCTGCATTGATA CGGAACCCAGGAAATGCTGAGATCGAAGATCTCATATTTTTTGGCAAGATCTGCATTGATA CGGAACCCAGGAAATGCTGAGATCGAAGATCTCATATTTTTTTT	840
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	TTGAGAGGGTCAGTTGCTCACAAATCTTGCCTACCTGCCTG	900
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	TCCAGTGGGTACGACTTCGAAAAAGAGGGATATTCCTTGGTGGGAATAGACCCTTTCAAA TCCAGTGGGTACGACTTCGAAAAAGAGGGATATTCCTTGGTGGGAATAGACCCTTTCAAA TCCAGTGGGTACGACTTCGAAAAAGAGGGATATTCCTTGGTGGGAATAGACCCTTTCAAA ****************************	960
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	CTACTTCAAAATAGCCAAGTATACAGCCTAATCAGACCTAACGAGAATCCAGCACACAAG CTACTTCAAAATAGCCAAGTATACAGCCTAATCAGACCTAACGAGAATCCAGCACACAAG CTACTTCAAAATAGCCAAGTATACAGCCTAATCAGACCTAACGAGAATCCAGCACACAAG ***************************	
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	AGTCAGCTGGTGTGGATGCCATGCCATTCTGCTGCATTTGAAGATTTAAGATTGTTAAGC AGTCAGCTGGTGTGGATGGCATGCCATTCTGCTGCATTTGAAGATTTAAGATTGTTAAGC AGTCAGCTGGTGTGGATGGCATGCCATTCTGCTGCATTTGAAGATTTAAGATTGTTAAGC ***********************************	1080
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	TTCATCAGAGGGACCAAAGTATCTCCGCGGGGGAAACTTTCAACTAGAGGAGTACAAATT TTCATCAGAGGGACCAAAGTATCTCCGCGGGGGAAACTTTCAACTAGAGGAGTACAAATT TTCATCAGAGGGACCAAAGTATCTCCGCGGGGGAAACTTTCAACTAGAGGAGTACAAATT *******************************	1140
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	GCTTCAAATGAGAACATGGATAATATGGGATCGAGTACTCTTGAACTGAGAAGCGGGTAC GCTTCAAATGAGAACATGGATAATATGGGATCGAGTACTCTTGAACTGAGAAGCGGGTAC GCTTCAAATGAGAACATGGATAATATGGGATCGAGTACTCTTGAACTGAGAAGCGGGTAC ************************************	1200
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	TGGGCCATAAGGACCAGGAGTGGAGGAAACACTAATCAACAGAGGGCCTCCGCAGGCCAA TGGGCCATAAGGACCAGGAGTGGAGGAAACACTAATCAACAGAGGGCCTCCGCAGGCCAA TGGGCCATAAGGACCAGGAGTGGAGGAAACACTAATCAACAGAGGGCCTCCGCAGGCCAA ****************************	1260
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	ATCAGTGTGCAACCTACGTTTTCTGTACAAAGAAACCTCCCATTTGAAAAGTCAACCGTC ATCAGTGTGCAACCTACGTTTTCTGTACAAAGAAACCTCCCATTTGAAAAGTCAACCGTC ATCAGTGTGCAACCTACGTTTTCTGTACAAAGAAACCTCCCATTTGAAAAGTCAACCGTC **********************************	1320
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	ATGGCAGCATTCACTGGAAATACGGAGGGAAGAACCTCAGACATGAGGGCAGAAATCATA ATGGCAGCATTCACTGGAAATACGGAGGGAAGAACCTCAGACATGAGGGCAGAAATCATA ATGGCAGCATTCACTGGAAATACGGAGGGAAGAACCTCAGACATGAGGGCAGAAATCATA *******************************	1380
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	AGAATGATGGAAGGTGCAAAACCAGAAGAAGTGTCGTTCCGAGGGAGG	1440
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	CTCTCAGACGAGAAGGCGACCGAACCCGATCGTGCCCTCTTTTGACATGAGTAATGAAGGA CTCTCAGACGAGAAGGCGACCGAACCCGATCGTGCCCTCTTTTGACATGAGTAATGAAGGA CTCTCAGACGAGAAGGCGACCGAACCCGATCGTGCCCTCTTTTGACATGAGTAATGAAGGA ************************	1500
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	TCTTATTTCTTCGGAGACAATGCAGAAGAGTACGACAATTAAGGAAAAA <mark>ATA</mark> CCCTTGNN TCTTATTTCTTCGGAGACAATGCAGAAGAGTACGACAATTAAGGAAAAA <mark>TAC</mark> CCTTG-TT TCTTATTTCTTCGGAGACAATGCAGAAGAGTACGACAATTAAGGAAAAA <mark>ATA</mark> CCCTTGTT *******************************	1559
MO_NP_Virus MO_NP_NCBI MO_NP_pHW2000	NNNNNN 1566 TCTACT 1565 TCTACT 1566	

CLUSTAL O(1.2.4) multiple sequence alignment

NP_NCBI NP_pHW2000	MASQGTKRSYEQMETDGDRQNATEIRASVGKMIDGIGRFYIQMCT SKSRVNNHSLSDIKIMASQGTKRSYEQMETDGDRQNATEIRASVGKMIDGIGRFYIQMCT ************************************	45 60
NP_NCBI NP_pHW2000	ELKLNDYEGRLIQNSLTIEKMVLSAFDERRNKYLEEHPSAGKDPKKTGGPIYRRVDGKWM ELKLSDYEGRLIQNSLTIEKMVLSAFDERRNKYLEEHPSAGKDPKKTGGPIYRRVDGKWM ****.********************************	105 120
NP_NCBI NP_pHW2000	RELVLYDKEEIRRIWRQANNGEDATAGLTHMMIWHSNLNDATYQRTRALVRTGMDPRMCS RELVLYDKGEIRRIWRQANNGEDATAGLTHMMIWHSNLNDTTYQRTRALVRTGMDPRMCS ****** ******************************	165 180
NP_NCBI NP_pHW2000	LMQGSTLPRRSGAAGAAVKGIGTMVMELIRMVKRGINDRNFWRGENGRKTRSAYERMCNI LMQGSTLPRRSGAAGAAVKGIGTMVMELIRMVKRGINDRNFWRGENGRKTRSAYERMCNI ************************************	225 240
NP_NCBI NP_pHW2000	LKGKFQTAAQRAMVDQVRESRNPGNAEIEDLIFLARSALILRGSVAHKSCLPACVYGPAV LKGKFQTAAQRAMVDQVRESRNPGNAEIEDLIFLARSALILRGSVAHKSCLPACVYGPAV ************************************	285 300
NP_NCBI NP_pHW2000	SSGYDFEKEGYSLVGIDPFKLLQNSQVYSLIRPNENPAHKSQLVWMACHSAAFEDLRLLS SSGYDFEKEGYSLVGIDPFKLLQNSQVYSLIRPNENPAHKSQLVWMACHSAAFEDLRLLS **********************************	345 360
NP_NCBI NP_pHW2000	FIRGTKVSPRGKLSTRGVQIASNENMDNMGSSTLELRSGYWAIRTRSGGNTNQQRASAGQ FIRGTKVSPRGKLSTRGVQIASNENMDNMGSSTLELRSGYWAIRTRSGGNTNQQRASAGQ ************************************	405 420
NP_NCBI NP_pHW2000	ISVQPTFSVQRNLPFEKSTVMAAFTGNTEGRTSDMRAEIIRMMEGAKPEEVSFRGRGVFE ISVQPTFSVQRNLPFEKSTVMAAFTGNTEGRTSDMRAEIIRMMEGAKPEEVSFRGRGVFE ************************************	465 480
NP_NCBI NP_pHW2000	LSDEKATNPIVPSFDMSNEGSYFFGDNAEEYDN 498 LSDEKATNPIVPSFDMSNEGSYFFGDNAEEYDN*GKNTLVST 521 ************************************	