1	AAAAACCCAAGAAAAGTCTCTCTCTTTCTCTCTCTCTCGCTAGCCCCCGATCTGGCCCT
61	CTCTCTCACGCGCTCTAGAACTAGAAGGGCATCCGCAGAAGTTGACCACGTACAGCAGCG
121	GCAGCGCGGGCTCCTCTGTTATATAACGCCCGCCTCTCGCCGCTCTCCAGCTTCTTCTT
181	${\tt AATTTCTCTTTGATACAGGGGTAGGAGAAGGAGGAGGAGGAGGAGGAGGAGCAGCTCCAC}$
241	${\tt ACCTGTACGTAGCTGCCGCGCGCGCGGTGAGCGAGGTCGTTCTTGAGAGCTGTATATATA$
301 1	ATATAGCTCCGCGACGACGCCGATGATGGCCATCAAGTCGCTGAGCATGGTGGAGGCCAG M M A I K S L S M V E A S
361 14	CCTGCCTCCGGGGTTCAGGTTCCACCCGCGCGACGACGACGACGTGCTGGTGCTGGACTACCTGGC L P P G F R F H P R D D E L V L D Y L A
421 34	CAAGAAGCTCGGCGGCGGGGGGCCCTGTGGTGGTGAGCATCTACGGCTGCCCCACCAT K K L G G G G P V V V S I Y G C P T M
481 54	GGTCGACGTCGACAAGAGTGCGAGCCCTGGGACCTTCCCGACATCGCGTGCATTGG V D V D L N K C E P W D L P D I A C I G
541 74	TGGAAAAGAGTGGTATTTCTACAGCCTTAGAGATAGAAAGTATGCCACTGGCCAGCGTAC G K E W Y F Y S L R D R K Y A T G Q R T
601 94	AAACAGAGCAACTGATTCGGGATACTGGAAGGCCACAGGGAAAGACCGTCCAATAAGCCG N R A T D S G Y W K A T G K D R P I S R
661 114	GAAAGGGTTACTTGTTGGTATGCGCAAAACCCTTGTGTTTTATCAAGGTAGAGCCCCCAAA K G L L V G M R K T L V F Y Q G R A P K
721 134	GGGAAAGACCGAGTGGGTTATGCATGAGTTTCGCATGGAAGGGCGAGATGATCCCAT G K K T E W V M H E F R M E G R D D P M
781	GAAATTACCTTTCAAGGAGGACTGGGTCTTGTGTAGAGTTTTCTACAAGAGTAGGGCAAC
154	K L P F K E D W V L C R V F Y K S R A T
154 841 174	K L P F K E D W V L C R V F Y K S R A T AGTTGCAAAGCCGCCCACAGAGAGCAGCAGCAGCTTCAATATTGATGCAGCCACAACTTCATT V A K P P T E S S S F N I D A A T T S L
841	AGTTGCAAAGCCGCCCACAGAGAGCAGCAGCATCAATATTGATGCAGCCACAACTTCATT
841 174 901	AGTTGCAAAGCCGCCCACAGAGAGCAGCAGCTTCAATATTGATGCAGCCACAACTTCATT V A K P P T E S S S F N I D A A T T S L GCCTCCCCTTATTGACAACACTTCAATATCTCCTTTGACCAGCCTGGCTCATCATCAGT
841 174 901 194	AGTTGCAAAGCCGCCCACAGAGAGCAGCAGCTTCAATATTGATGCAGCCACAACTTCATT V A K P P T E S S S F N I D A A T T S L GCCTCCCCTTATTGACAACAACTTCAATATCTCCTTTGACCAGCCTGGCTCATCATCAGT P P L I D N N F N I S F D Q P G S S S V GCAGAACCTAGAGGGTTATGAGCAAGTGCCCTGCTTCTCCAGTAACCCCTCTCAGCAGCC
841 174 901 194 961 214	AGTTGCAAAGCCGCCCACAGAGAGCAGCATCAATATTGATGCAGCCACAACTTCATT V A K P P T E S S S F N I D A A T T S L GCCTCCCCTTATTGACAACAACTTCAATATCTCCTTTGACCAGCCTGGCTCATCATCAGT P P L I D N N F N I S F D Q P G S S S V GCAGAACCTAGAGGGTTATGAGCAAGTGCCCTGCTTCTCCAGTAACCCCTCTCAGCAGCC Q N L E G Y E Q V P C F S S N P S Q Q P ATCGTCGTCGATGAACGCCGCCCGGCTGCCGCCTTCTGCCGCATGCCAGCAGCA
841 174 901 194 961 214 1021 234	AGTTGCAAAGCCGCCCACAGAGAGCAGCTTCAATATTGATGCAGCCACAACTTCATT V A K P P T E S S S F N I D A A T T S L GCCTCCCCTTATTGACAACAACTTCAATATCTCCTTTGACCAGCCTGGCTCATCATCAGT P P L I D N N F N I S F D Q P G S S S V GCAGAACCTAGAGGGTTATGAGCAAGTGCCCTGCTTCTCCAGTAACCCCTCTCAGCAGCC Q N L E G Y E Q V P C F S S N P S Q Q P ATCGTCGTCGATGAACGCCGCCCGGCTGCCGCCTCTCGCCAGCAGCA S S S M N A A R L P P S A A M A D P E Q GCAGATGGGGAAGTCAATAATCAAGGATGTTCTCATGAGCCAGTTTAGCAGGTTCGAAGG
841 174 901 194 961 214 1021 234 1081 254	AGTTGCAAAGCCGCCCACAGAGAGCAGCATCAATATTGATGCAGCCACAACTTCATT V A K P P T E S S S F N I D A A T T S L GCCTCCCCTTATTGACAACAACTTCAATATCTCCTTTGACCAGCCTGGCTCATCACTCAGT P P L I D N N F N I S F D Q P G S S S V GCAGAACCTAGAGGGTTATGAGCAAGTGCCCTGCTTCTCCAGTAACCCCTCTCAGCAGCC Q N L E G Y E Q V P C F S S N P S Q Q P ATCGTCGTCGATGAACGCCGGCCGGCTGCCGCCGTCTGCCGCCATGGCTGATCCGGAGCA S S S M N A A R L P P S A A M A D P E Q GCAGATGGGGAGTCAATAATCAAGGATGTTCTCATGAGCCAGTTTAGCAGGTTCGAAGG Q M G K S I I K D V L M S Q F S R F E G CAGCGTCAAGAGGGGGGGGGGCCCCCAAGCAATTTTTCTCAAGGATGGGTTTGAGTACTTAGC
841 174 901 194 961 214 1021 234 1081 254 1141 274	AGTTGCAAAGCCGCCCACAGAGAGCAGCTTCAATATTGATGCAGCCACAACTTCATT V A K P P T E S S S F N I D A A T T S L GCCTCCCCTTATTGACAACAACTTCAATATCTCCTTTGACCAGCCTGGCTCATCATCAGT P P L I D N N F N I S F D Q P G S S S V GCAGAACCTAGAGGGTTATGAGCAAGTGCCCTGCTTCTCCAGTAACCCCTCTCAGCAGCC Q N L E G Y E Q V P C F S S N P S Q Q P ATCGTCGTCGATGAACGCCGGCCGGCTGCCGCCGCTGCTGCCGCCATGGCTGATCCGGAGCA S S S M N A A R L P P S A A M A D P E Q GCAGATGGGGAAGTCAATAATCAAGGATGTTCTCATGAGCCAGTTTAGCAGGTTCGAAGG Q M G K S I I K D V L M S Q F S R F E G CAGCGTCAAGAGGGGGGGCGCCTCCAAGCAATTTTTCTCAGGATGGGTTTGAGTACTTAGC S V K R E A P P S N F S Q D G F E Y L A TGAGAGTGGCTTCACGCAGATTTATGTTTTATAGGAA
841 174 901 194 961 214 1021 234 1081 254 1141 274 1201 294	AGTTGCAAAGCCGCCCACAGAGAGCAGCAGCTCAATATTGATGCAGCCACAACTTCATT V A K P P T E S S S F N I D A A T T S L GCCTCCCTTATTGACAACAACTTCAATATCCTTTTGACCAGCCTGGCTCATCATCAGT P P L I D N N F N I S F D Q P G S S S V GCAGAACCTAGAGGGTTATGAGCAAGTGCCCTGCTTCTCCAGTAACCCCTCTCAGCAGCC Q N L E G Y E Q V P C F S S N P S Q Q P ATCGTCGTCGATGAACGCCCGCCGGCTGCCGCCGCTGCTGCCGCCATGGCTGATCCGGAGCA S S S M N A A R L P P S A A M A D P E Q GCAGATGGGGAAGTCAATAACCAAGGATGTTCCATGAGCCAGTTTAGCAGGTCGAAGG Q M G K S I I K D V L M S Q F S R F E G CAGCGTCAAGAGGGGGGGCCCCCAAGCAATTTTCTCAGGATGGGTTTAGCAGTTCGACG S V K R E A P P S N F S Q D G F E Y L A TGAGAGTGGGTTCACGCAGATTTAACGAAACTTCACGCAGATTTAACTAGCAAACCTCTTCACAGCAATTATTATTTAT
841 174 901 194 961 214 1021 234 1081 254 1141 274 1201 294	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
841 174 901 194 961 214 1021 234 1081 254 1141 274 1201 294 1261	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
841 174 901 194 961 214 1021 234 1081 254 1141 274 1201 294 1261 1321	AGTTGCAAAGCCGCCCACAGAGAGCAGCATCAATATTGATGCAGCCACAACTTCATT V A K P P T E S S S F N I D A A T T S L GCCTCCCTTATTGACAACAACTTCAATATCCCTTTGACCAGCCTGGCTCATCATCAGT P P L I D N N F N I S F D Q P G S S S V GCAGAACCTAGAGGGTTATGAGCAAGTGCCTGCTTCTCCAGTAACCCCTCTCAGCAGCC Q N L E G Y E Q V P C F S S N P S Q Q P ATCGTCGTCGATGAACGCCCGCCGGCTGCCGCCGCTGCTGCCGCCATGGCTGATCCGGAGCA S S S M N A A R L P P S A A M A D P E Q GCAGATGGGGAAGTCAATAATCAAGGATGTTCCATGAGCCAGTTTAGCAGGTCGAAGG Q M G K S I I K D V L M S Q F S R F E G CAGCGTCAAGAGGGAGGAGCAATTTTCTCAGGATGAGGTTTAGCAGGTTCGAAGG S V K R E A P P S N F S Q D G F E Y L A TGAGAGTGGGTTCACGCAGATTTAGCAGATTTATGTTTATAGGAA E S G F T Q M W N S F N * GATTATATATATATATTTTTTTTATGGAGAGGCGATTGGGTTGTGCCTCCTGTGTGGTATCAGCAGTTTAGCAGGATAACAAGAGGAGTGCTACAAGAGGGTTGGAATGCCTCGACGATAACA GGATGGATATATATATATATATATATATATATATATAT
841 174 901 194 961 214 1021 234 1081 254 1141 274 1201 294 1261 1321 1381	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

Additional file 3. The full-length cDNA of ZmNAC1

This figure shows the full length cDNA of *ZmNAC1*, in which the highly conserved region of the NAC domain is boxed; the red box indicates the (NLS) nuclear localization signal as noted between amino acids 121 and 138.