```
                 10        20        30        40        50        60        70
1       ATGGGAAAGGACTGTGGATCCTGGTTTCCCCAGCGGCATTATTGTGAGCAATCACCCGATCTGGATAGGTTGTGT
1        M  G  K  D  C  G  S  W  F  P  Q  R  H  Y  C  E  Q  S  P  D  L  D  R  L  C

                 85        95       105       115       125       135       145
76      CCTCCCCTTCATTTGGGACAGCAAAATATGATCCCATCCTACATGAACCCTTACTCTAATTCGGTTTCTACATAT
26       P  P  L  H  L  G  Q  Q  N  M  I  P  S  Y  M  N  P  Y  S  N  S  V  S  T  Y

                160       170       180       190       200       210       220
151     GGGATTTTGCCAATGTTACAATCTCCTGAGTCTCTCCATTTGACGGCAAACCAAGCGGATGAACCTCATGGATGG
51       G  I  L  P  M  L  Q  S  P  E  S  L  H  L  T  A  N  Q  A  D  E  P  H  G  W

                235       245       255       265       275       285       295
226     TTTTATTGTTTGCCCCATCATCGCCAGGCTATTTCCCCTGGATCGAAGTCAGTTATCAAAGATGAAGTTCCTTCT
76       F  Y  C  L  P  H  H  R  Q  A  I  S  P  G  S  K  S  V  I  K  D  E  V  P  S

                310       320       330       340       350       360       370
301     AGCCTTTATAAAGCAGATACAGATCAGAGGAGGTTCTTAGTTTTTGATCAATCTGGCGATCAAACAACCTTCATG
101      S  L  Y  K  A  D  T  D  Q  R  R  F  L  V  F  D  Q  S  G  D  Q  T  T  F  M

                385       395       405       415       425       435       445
376     TTCAGTCCAGCTATTAGGACTTCCATGGAGGGCCTGAGTTCTTTTGGTCCAAGTCCTTATAATGGTCATAACTTT
126      F  S  P  A  I  R  T  S  M  E  G  L  S  S  F  G  P  S  P  Y  N  G  H  N  F

                460       470       480       490       500       510       520
451     AGTGGGGAAAGGCCAGGTACTGAAAGAGACTCGCTTCACAATGCTGGTCCTATTCTAACAGATGGAAACGAAATT
151      S  G  E  R  P  G  T  E  R  D  S  L  H  N  A  G  P  I  L  T  D  G  N  E  I

                535       545       555       565       575       585       595
526     AATGGGACTGATTTGGAAAGTGAGATGCATGAAGACACAGAAGAACTTAATGCCTTGCTGTACTCAGATGACGAG
176      N  G  T  D  L  E  S  E  M  H  E  D  T  E  E  L  N  A  L  L  Y  S  D  D  E

                610       620       630       640       650       660       670
601     AATGACTACTCTGAGGATGACGAAGAAACTAGCACCGGTCATTCGCCTAGTACAATGACATCTAACGAAAGATTG
201      N  D  Y  S  E  D  D  E  E  T  S  T  G  H  S  P  S  T  M  T  S  N  E  R  L

                685       695       705       715       725       735       745
676     AAAAGCTTTGAAGGAAGTGCTGAAGAAGTTGCTAGCACTGCTGAGCCAAGTAAAAAGCGAAAACTATCACTCATG
226      K  S  F  E  G  S  A  E  E  V  A  S  T  A  E  P  S  K  K  R  K  L  S  L  M

                760       770       780       790       800       810       820
751     GACACCGCAACTTCTAGGAAATCAATCCAGTTCTTGGGTTATGAAGAAGATGACGCAGAATCTAGCTGTGGTAAT
251      D  T  A  T  S  R  K  S  I  Q  F  L  G  Y  E  E  D  D  A  E  S  S  C  G  N

                835       845       855       865       875       885       895
826     GGCCTTAGTCAAGGTAATGGAGGGGAGGGCAGTAAAAGGCTGAGAAGGGAGAGAATTCGTGCAACTGTGAGCATT
276      G  L  S  Q  G  N  G  G  E  G  S  K  R  L  R  R  E  R  I  R  A  T  V  S  I

                910       920       930       940       950       960       970
901     CTACAGAGCATAATTCCTAATGGAATGGGAAAGGATGCAGTTGCGGTTCTTGATGAAGCTATTAACTACTTTAGA
301      L  Q  S  I  I  P  N  G  M  G  K  D  A  V  A  V  L  D  E  A  I  N  Y  F  R

                985       995      1005      1015
976     TCTTTGAAGCTCAAAGCCAAAGCTTTAGGACTTGATTCTCTCTAA
326      S  L  K  L  K  A  K  A  L  G  L  D  S  L  *
```

Figure S1. Nucleotide and deduced amino acid sequence of MfbHLH145.