Figure S2. Multiple sequence alignment of Pl-foxo ORF nucleotide sequences from the gene annotation, the cDNA clone and the cDNA contig. The deduced amino acid sequence is also shown. Dots and dashes indicate identities.

```
FoxO_prot_genomic    M  V  D  N  D  P  D  F  E  P  Q  A  R  P  R  S  C  T  W  P  20
Pl_foxo_genomic     ATGgttgacaacgaccctgattttgagccccaagctcgaccacgctcgtgtacatggccg
Pl_foxo_clone       ............................................................
Pl_foxo_contig      ............................................................
FoxO_prot_contig     -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic    L  R  R  P  D  F  L  D  S  K  P  Q  Q  P  G  N  A  A  A  A   40
Pl_foxo_genomic     ttgcgacggccggacttttggactcgaagccacagcaacctggcaatgccgccgccgcg 120
Pl_foxo_clone       ............................................................
Pl_foxo_contig      ............................................................
FoxO_prot_contig     -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic    P  P  V  D  H  P  H  G  A  L  S  P  A  V  L  T  E  E  S  V   60
Pl_foxo_genomic     cctccggtagaccacccccacggcgcactcagtcctgccgtcctaacagaagaatctgta 180
Pl_foxo_clone       ...........................................c................
Pl_foxo_contig      ............................................................
FoxO_prot_contig    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic    D  I  K  P  I  L  P  L  E  G  G  E  N  R  E  L  S  T  P  S   80
Pl_foxo_genomic     gatatcaaaccaattttacccttagaaggaggagaaaatcgtgaattgtcaacaccatca 240
Pl_foxo_clone       ............................................................
Pl_foxo_contig      ............................................................
FoxO_prot_contig     -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -


FoxO_prot_genomic    S  Q  R  R  N  G  S  R  R  N  A  W  G  N  L  S  Y  A  D  L  100
Pl_foxo_genomic     tctcaaagacggaatgggtcacgaaggaatgcttggggaaatctgtcatacgcagatttg 300
Pl_foxo_clone       ............................................................
Pl_foxo_contig      ........................a...................................
FoxO_prot_contig     -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

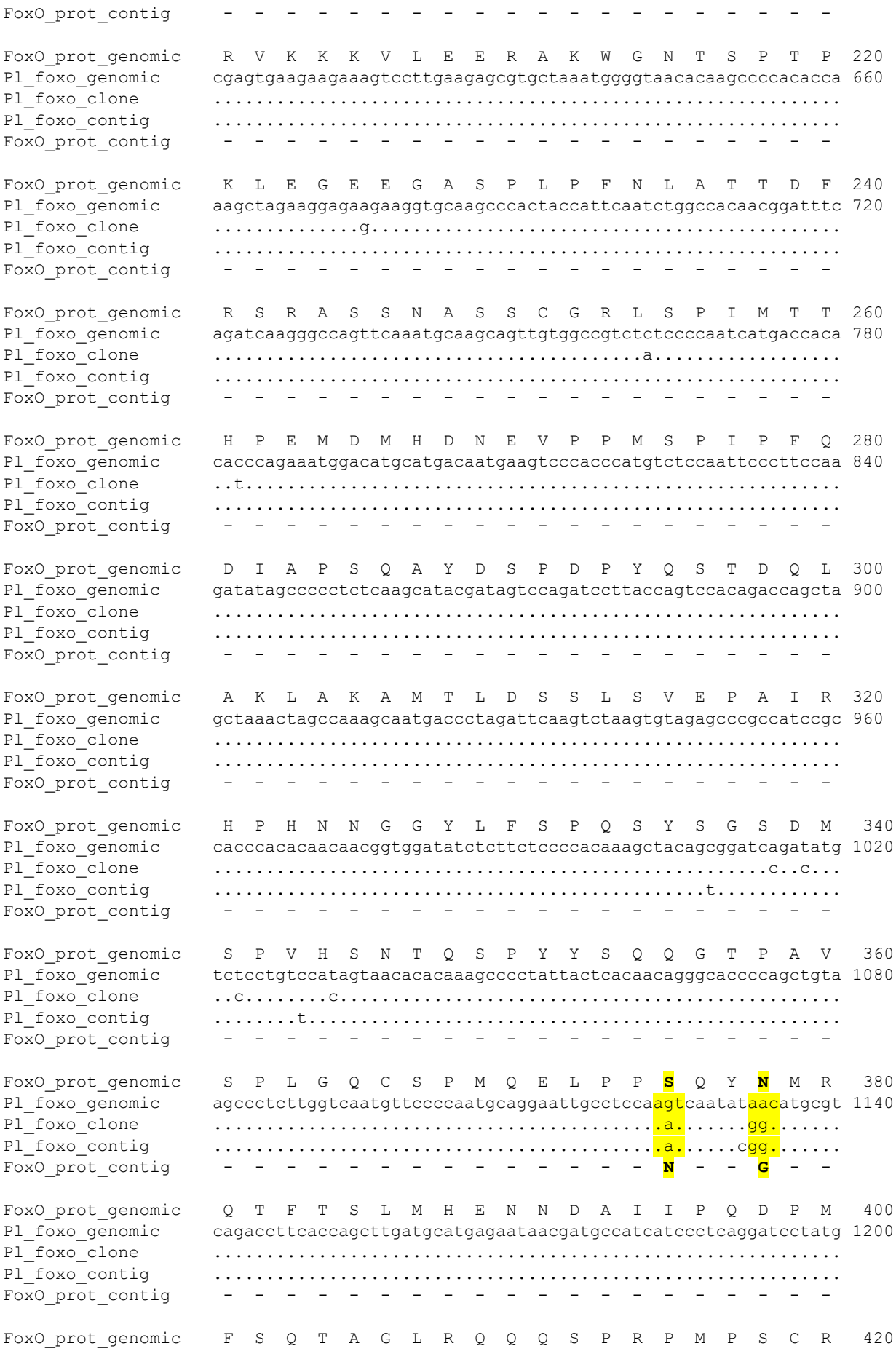
FoxO_prot_genomic    I  T  K  A  I  Q  S  A  P  D  Q  R  L  T  L  S  Q  I  Y  D  120
Pl_foxo_genomic     ataacgaaagctattcaaagcgctccagatcagcgcttgacccttccccaaatttacgac 360
Pl_foxo_clone       ............................................................
Pl_foxo_contig      ............................................................
FoxO_prot_contig     -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic    W  M  V  K  N  V  P  F  F  K  D  K  G  D  S  N  S  S  A  G  140
Pl_foxo_genomic     tggatggtaaaaaatgtcccatttttcaaggataaaggagacagcaatagttcagctggt 420
Pl_foxo_clone       ...........................................................g..c
Pl_foxo_contig      ...........................................................g..c
FoxO_prot_contig     -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic    W  K  N  S  I  R  H  N  L  S  L  H  S  R  F  V  R  V  Q  N  160
Pl_foxo_genomic     tggaagaactctattcgacacaacttgtccctacacagtcgctttgtgcgagtgcagaat 480
Pl_foxo_clone       ............................................................
Pl_foxo_contig      ............................a...............................
FoxO_prot_contig     -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic    E  G  T  G  K  S  S  W  W  M  I  N  P  D  A  K  P  G  K  S  180
Pl_foxo_genomic     gaaggaacaggaaagagctcctggtggatgatcaacccagatgctaagccaggcaaatca 540
Pl_foxo_clone       ............................................................
Pl_foxo_contig      ........g.............................g.....................
FoxO_prot_contig     -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic    S  R  R  R  A  S  S  M  D  T  T  N  S  K  F  E  R  K  R  G  200
Pl_foxo_genomic     tcaagaagaagagcatccagtatggacaccacaaattccaagtttgagagaaagaggggt 600
Pl_foxo_clone       ............................................................
Pl_foxo_contig      .....g......................................................
```


FoxO_prot_contig -
FoxO_prot_genomic R V K K K V L E E R A K W G N T S P T P 220
Pl_foxo_genomic cgagtgaagaagaaagtccttgaagagcgtgctaaatggggtaacacaagccccacacca 660
Pl_foxo_clone .....
Pl_foxo_contig .....
FoxO_prot_contig -
FoxO_prot_genomic K L E G E E G A S P L P F N L A T T D F 240
Pl_foxo_genomic aagctagaaggagaagaaggtgcaagcccactaccattcaatctggccacaacggatttc 720
Pl_foxo_clone .....g.....
Pl_foxo_contig .....
FoxO_prot_contig -
FoxO_prot_genomic R S R A S S N A S S C G R L S P I M T T 260
Pl_foxo_genomic agatcaagggccagttcaaatgcaagcagttgtggccgtctctccccaatcatgaccaca 780
Pl_foxo_clone .....a.....
Pl_foxo_contig .....
FoxO_prot_contig -
FoxO_prot_genomic H P E M D M H D N E V P P M S P I P F Q 280
Pl_foxo_genomic cacccagaaatggacatgcatgacaatgaagtcccacccatgtctccaattcccttccaa 840
Pl_foxo_clone ..t.....
Pl_foxo_contig .....
FoxO_prot_contig -
FoxO_prot_genomic D I A P S Q A Y D S P D P Y Q S T D Q L 300
Pl_foxo_genomic gatatagccccctctcaagcatacgatagtccagatccttaccagtccacagaccagcta 900
Pl_foxo_clone .....
Pl_foxo_contig .....
FoxO_prot_contig -
FoxO_prot_genomic A K L A K A M T L D S S L S V E P A I R 320
Pl_foxo_genomic gctaaactagccaaagcaatgaccctagattcaagtctaagtgtagagcccgccatccgc 960
Pl_foxo_clone .....
Pl_foxo_contig .....
FoxO_prot_contig -
FoxO_prot_genomic H P H N N G G Y L F S P Q S Y S G S D M 340
Pl_foxo_genomic cacccacacaacaacggtggatatctcttctccccacaaagctacagcggatcagatatg 1020
Pl_foxo_clone .....c..c...
Pl_foxo_contig .....t.....
FoxO_prot_contig -
FoxO_prot_genomic S P V H S N T Q S P Y Y S Q Q G T P A V 360
Pl_foxo_genomic tctcctgtccatagtaacacacaaagcccctattactcacaacagggcaccccagctgta 1080
Pl_foxo_clone ..c.....c.....
Pl_foxo_contig .....t.....
FoxO_prot_contig -
FoxO_prot_genomic S P L G Q C S P M Q E L P P S Q Y N M R 380
Pl_foxo_genomic agccctcttggtcaatgttccccaatgcaggaattgcctccaagtcaatataacatgcgt 1140
Pl_foxo_clone .....a.....gg.....
Pl_foxo_contig .....a.....cgg.....
FoxO_prot_contig - - - - - - - - - - - - - - - - - N - - G - -
FoxO_prot_genomic Q T F T S L M H E N N D A I I P Q D P M 400
Pl_foxo_genomic cagaccttcaccagcttgatgcatgagaataacgatgccatcatccctcaggatcctatg 1200
Pl_foxo_clone .....
Pl_foxo_contig .....
FoxO_prot_contig -
FoxO_prot_genomic F S Q T A G L R Q Q Q S P R P M P S C R 420
Pl_foxo_genomic ttctcgcagactgccgggttacgccaacagcagtcaccacgacccatgccaagctgtaga 1260

```
Pl_foxo_clone      .................t.......................................
Pl_foxo_contig     .................t.......................................
FoxO_prot_contig    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic   E  E  S  M  I  Q  H  T  S  P  H  R  L  M  P  S  G  N  Q  G   440
Pl_foxo_genomic    gaggagagcatgatccagcacacgtcacctcataggctgatgccttctgggaaccaaggc 1320
Pl_foxo_clone      ......................a.................................
Pl_foxo_contig     ..........................................................
FoxO_prot_contig    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic   S  N  L  A  M  L  L  N  N  G  H  N  Q  T  T  S  H  H  H  P   460
Pl_foxo_genomic    agcaacctggccatgttgctaaacaacggccacaaccagaccaccagccaccaccacccg 1380
Pl_foxo_clone      ..........................................................
Pl_foxo_contig     ....................g.....................................
FoxO_prot_contig    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic   L  P  Y  P  N  G  G  T  P  H  H  I  P  H  I  H  A  H  H  Q   480
Pl_foxo_genomic    ctaccttatcctaacggcgggaccccacaccatatccccccatattcatgcccatcatcag 1440
Pl_foxo_clone      ..........................................................
Pl_foxo_contig     ..........................................................
FoxO_prot_contig    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -


FoxO_prot_genomic   H  H  H  H  P  G  I  G  H  Q  D  R  F  P  S  D  L  E  S  V   500
Pl_foxo_genomic    caccaccatcatcccggcatagggcaccaggacaggttccccagtgacctggagagtgtt 1500
Pl_foxo_clone      ..........................................................
Pl_foxo_contig     ..........................................................
FoxO_prot_contig    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic   Q  I  D  P  L  K  G  W  S  D  L  D  V  E  T  I  L  R  N  E   520
Pl_foxo_genomic    caaattgacccccctgaaaggatggagcgatctggatgtagaaacaatcctgaggaatgag 1560
Pl_foxo_clone      ..............c...........................................
Pl_foxo_contig     ..............c...........................................
FoxO_prot_contig    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic   Q  D  L  T  E  G  P  D  A  S  F  D  N  I  G  T  I  G  T  T   540
Pl_foxo_genomic    caggacctgactgaaggacccgatgccagctttgataacattgggacgataggaaccaca 1620
Pl_foxo_clone      ..............................................a.............
Pl_foxo_contig     .............................................a............
FoxO_prot_contig    -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -

FoxO_prot_genomic   A  T  T  M  A  A  P  S  W  V  H  -   551
Pl_foxo_genomic    GctacaactatggctgctcccagctgggtccatTAA 1656
Pl_foxo_clone      ..................................
Pl_foxo_contig     .................................
FoxO_prot_contig    -  -  -  -  -  -  -  -  -  -  -  -  -
```