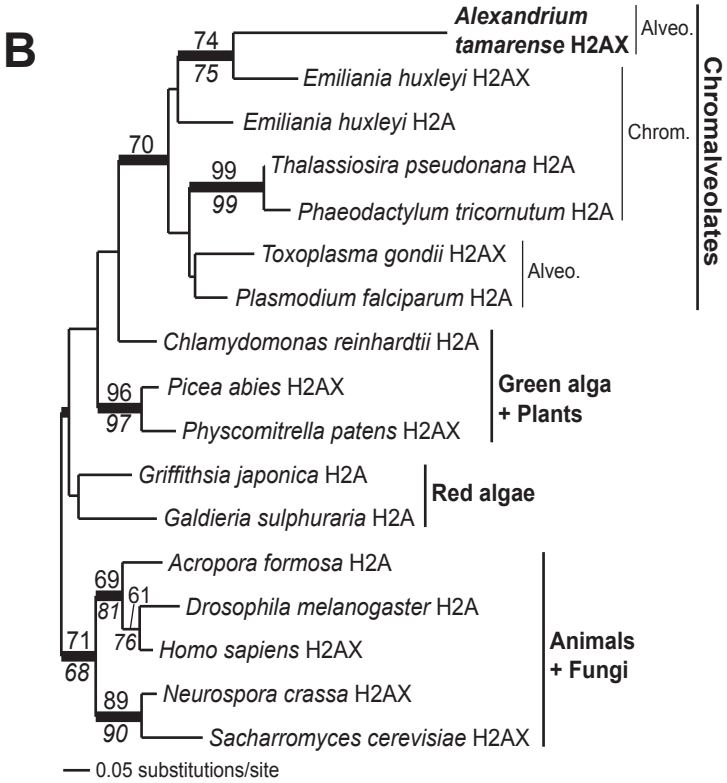
A

```
                                                                                                                                  90
                                                                                T                                   ^         *  **|
A. tamarense    MITNLIRLTIGNLALEAKNSARGSAAGKQKGSSSKKAGKPVQGEKKKHQSLSSKAGLVFPVQRFAKALRKGGYCKRLAAGGSIYLTAVIE
P. falciparum   M--------------------------------SAKGKTGRKKASKGTSNSAKAGLQFPVGRIGRYLKKGKYAKRVGAGAPVYLAAVLE
T. thermophila  M----------------------------STTGKGGKAKGKTASSKQVSRSARAGLQFPVGRISRFLKHGRYSERVGTGAPVYLAAVLE
O. sativa       M-----------------------------SSSQGGGGRGKAKTTKAVSRSSKAGLQFPVGRIARYLKAGKYAERVGAGAPVYLSAVLE
H. sapiens      M--------------------------------SGRGKTGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGHYAERVGAGAPVYLAAVLE
S. cerevisiae   M--------------------------------SGGKGGKAGSAAKASQSRSAKAGLTFPVGRVHRLLRRGNYAQRIGSGAPVYLTAVLE
                                                                            αN            α1        Loop1       α2
                                                                                                                  176
                ** **            ^                                                   U                                |
A. tamarense    YITAEILELAGNSAKEARKQRIIPRHIQLAIRNDEELNKYLSRVTITGGGVLPNIHTVLLPPKV-------MPAKEGASGSFSQEF
P. falciparum   YLCAEILELAGNAARDNKKSRITPRHIQLAVRNDEELNKFLAGVTFASGGVLPNIHNVLLPKKS-----------QLKAGTANQDY
T. thermophila  YLAAEVLELAGNAAKDNKKTRIVPRHILLAIRNDEELNKLMANTTIADGGVLPNINPMLLPSKS---------KKTESRGQASQDL
O. sativa       YLAAEVLELAGNAARDNKKNRIVPRHIQLAVRNDEELSRLLGTVTIAAGGVLPNIQQVLLPKKG---------GGKGDIGSASQEF
H. sapiens      YLTAEILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLLGGVTIAQGGVLPNIQAVLLPKKTSATVGPKAPSGGKKATQASQEY
S. cerevisiae   YLAAEILELAGNAARDNKKTRIIPRHLQLAIRNDDELNKLLGNVTIAQGGVLPNIHQNLLPKKS------------AKATKASQEL
                α2          Loop2     α3      αC                                                  SQ(E/D)Φ
                                                                                                    Motif
```

B