—— : Myb –type DNA-binding domain

```
LflTDF1              MGRPPCCDKAEVRRGPWTAEEDAKLLVYTATHGTKNWTSVPKKAG-LKRCGKSCRLRWTN 59
ORUFI03G14500.1      MGRPPCCDKANVKKGPWTAEEDAKLLAYTSTHGTGNWTSVPQRAGRLKRCGKSCRLRYTN 60
AT3G28470.1-MYB35    MGRPPCCDKSNVKKGLWTEEEDAKILAYVAIHGVGNWSLIPKKAG-LNRCGKSCRLRWTN 59
                     *********::*::* ** *****:*.*.: **. **: :*::** *:*********:**
LflTDF1              YLRPNLKHDSFTLQEEELIITLHATIGSRWSIIAQQLPGRTDNDVKNIWNTKLSKKLVQR 119
ORUFI03G14500.1      YLRPNLKHENFTQEEEELIVTLHAMLGSRWSLIANQLPGRTDNDVKNYWNTKLSKKLRQR 120
AT3G28470.1-MYB35    YLRPDLKHDSFSTQEEELIIECHRAIGSRWSSIARKLPGRTDNDVKNHWNTKLKKKLMKM 119
                     ****:***:.*: :*****:  *  :***** **.:*********** *****.*** :
LflTDF1              GIDPVTHRPISEVIQSIGGLNTGASSSSSIARYRAPTDPRFSYFNQDLKSIFQSGPITAP 179
ORUFI03G14500.1      GIDPITHRPIADLMQSIGTLAIRP------------------------------PPAAG 149
AT3G28470.1-MYB35    GIDPVTHKPVSQLLAEFRNISGHG------------------------------NASFK 148
                     ****:**:*::::: .:  :                                     :
LflTDF1              GHPPWDPFPQLPSYSYCSNLSPAADEASSSSTVVTTTLSNPVAARPLSPEAEWS---DFL 236
ORUFI03G14500.1      AAPP----TCLPVFHDAPYFAALQHQHQQQQVVTHVDADAPASPDSQHLQLNWS---DFL 202
AT3G28470.1-MYB35    TEPS---NNSILTQSNSAWEMMRNTTTNHESYYTNSPMMFTNSSEYQTTPFHFYSHPNHL 205
                       *.      :     ..         . ..  .      . :.       .:    :.*
LflTDF1              VDDSFQPINENVDDAWKICSDHGKGPMVNQHELSQDNEASKILETPRSFVDEILDRDKEI 296
ORUFI03G14500.1      ADD---------------AAGHGADAPAPQAALGQYQEGSAPAAT------AVVGGGR-- 239
AT3G28470.1-MYB35    LNG----------------TTSSCSSSSSSTSITQPNQVPQTPVT------NFYWSDFLL 243
                      :.                :  . ..   .  : * :: .    *       .   .
LflTDF1              LSEFPKFLNDQYGF-LVIGCKLSQNHLELSLLDFILSSFALESYETSVYLFFYFGVCEIW 355
ORUFI03G14500.1      --AFGDVDGASAG---VGAGTDDGAGAASAFIDAILD----------------------- 271
AT3G28470.1-MYB35    SDPVPQVVGSSATSDLTFTQNEHHFNIEAEYISQNID----------------------- 280
                        . .. . .     .   .          :.  :.
LflTDF1              KRNFPCDQSLSYYIFLIKFFLSLLKVNVSVTTQIMKLCFKYLRWYMKDKM 405
ORUFI03G14500.1      -----CDKEMGVDQLIAEMLADPAYYGGGGGSSSSELGWGC--------- 307
AT3G28470.1-MYB35    ------SKASGTCHSASSFVDEILDKDQEMLSQFPQLLNDFDY------- 317
```

Supplementary Figure 3 Comparison of amino acid sequences of *TDF1* orthologs in *L.* × *formolongi*, *Oryza rufipogon* (ORUFI03G14500.1), and *Arabidopsis thaliana* (AT3G28470.1), respectively. Red line indicates Myb–type DNA-binding domain predicted by Pfam.