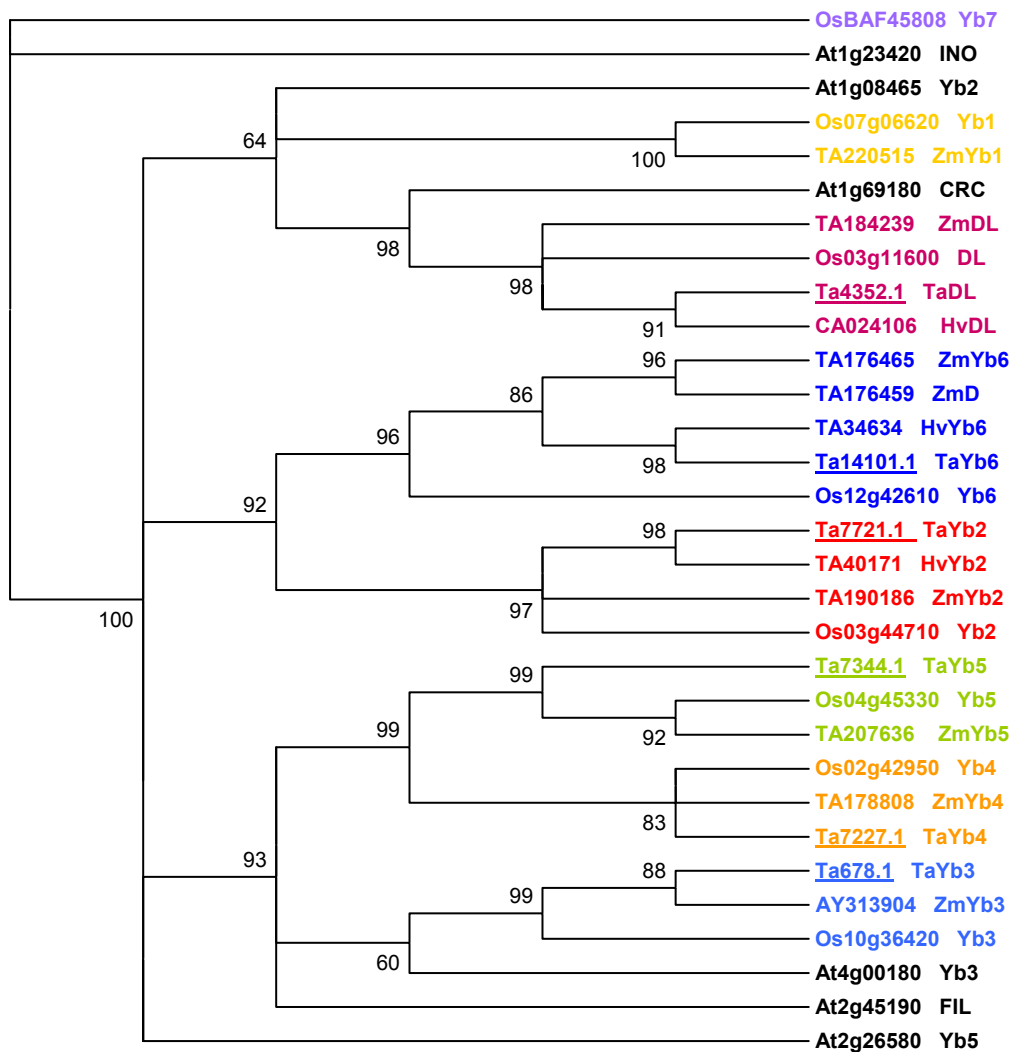


Figure S4 a. Phylogenetic tree of Yabby proteins. The tree was constructed from the rice and Arabidopsis sequences from the plnTFDB (Riano-Pachon et.al. 2007), with the addition of OsYb7 (BAF45808), the barley sequences CA024106, TA34634, TA40171, maize sequences TA207636, TA178808, AY313904, TA190186, TA176465, TA176459 TA220515, TA184239 and wheat proteins corresponding to probe sets Ta4352.1.S1 (AF545436), Ta14101.1.S1(TA64727), Ta7721.1.S1 (TA69349), Ta678.1.S1 (TA90793), Ta7227.1.S1 (CK205871). The tree was generated using the maximum likelihood method PHYML (Guindon and Gascuel 2003). Bootstrap values above 60% are shown.**b.** Amino acid alignment of the zinc finger and YABBY domains generated using CLUSTAL X. Gaps in the sequences and between domains are indicated by dashes.

a



b

OsBAF45808 Yb7 LRERLCEVQCSFCAITVLLVSVPCSSVLRVVAVQCGHCSGLLSAV-NLPPSPV-NKPPQRQRHPSAYNCFVKEEIKRIKSMENITDEKQAFSAAKNWAHPPRIQOKRGRDSC
At1g23420 INO LPQCHCEVQCFQCTITLLVSVVPSLSMVTVTRCGHCTSLLSVN-LMKASFI-NKPPEKRQRHPSAYNCFVKEEIKRIKSNPMAKREAFSAAKNWAHFPFAHKKRAASDQ
At1g69180 CRC QAEHLVYVRCSTICNTILAVSIPKRRMLDVTVTRCGHCNLSFLT-TTPFLQG-VKPPEKQRHPSAYNRFMRDEIQRIKSNPETHREAFSAAKNWAHYIIPNSPTSTTSGG
Os03g11600 DL PSEHLCYVRCYICNTVLAIVSPCKRLMDVTVTRCGHCNLSFLS-PRPPMVQ-VKPPEKQRHPSAYNRFMRDEIQRIKSNPETHREAFSAAKNWAHCDPRCSTTVSTSN
Ta4352.1 TaDL PSEHLCYVRCYICNTVLAIVSPCKRLMDVTVTRCGHCNLSFLS-PRPPMVQ-VKPPEKQRHPSAYNRFMRDEIQRIKSNPETHREAFSAAKNWAHCDPRCSTTVSASN
TA184239 ZmDL QSEHLCYVRCYICNTVLAIVSPCKRLMDVTVTRCGHCNLSYLS-PRPPMVQ-VKPPEKQRHPSAYNRFMRDEIQRIKSNPETHREAFSAAKNWAHCDPRCSTTASTAT
CA024106 HvDL PSEHLCYVRCYICNTVLAIVSPCKRLMDVTVTRCGHCNLSFLS-PRPPMVQ-VKPPEKQRHPSAYNRFMRDEIQRIKSNPETHREAFSAAKNWAHCDPRCSTTVSTSN
Os07g06620 Yb1 TSEHVCYVNCNFCNTILAVSVPSNSYNIIVTVTRCGHCTMVLSD-LAPFHQA-TRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSVADG
TA220515 ZmYb1 TSEHVCYVNCNFCNTILAVSVPSNSYNIIVTVTRCGHCTMVLSD-LSPFHQQ-TRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSVADG
TA176459 ZmD PADHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSDSGR
TA176465 ZmYb6 PADHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
Os12g42610 Yb6 PAEQVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
TA34634 HvYb6 PAEQVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
Ta14101.1 TaYb6 PAEQVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
Os03g44710 Yb2 APEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
TA190186 ZmYb2 APEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
TA40171 HvYb2 APEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
Ta7721.1 TaYb2 APEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
At1g08465 Yb2 SSEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
At2g26580 Yb5 APEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
At2g45190 FII PSDHLCYVQCNFCNTILAVSVPSLSLEKTVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
Os10g36420 Yb3 EPEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
AY313904 ZmYb3 APEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
Ta678.1 TaYb3 APEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
At4g00180 Yb3 STDQVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
Os02g42950 Yb4 APEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
TA178808 ZmYb4 APEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
Ta7227.1 Yb4 APEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
Os04g45330 Yb5 EPEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
Ta7344.1 Yb5 EPEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE
TA207636 ZmYb5 EPEHVCYVHCFNCTVLAIVSPNSMLNIVTVTRCGHCTNLLSVN-LRGLMHS-RRPPEKRQRVPSAYNRFKKEIQRIKSNPETHREAFSAAKNWAHPPRIHFGLSRE