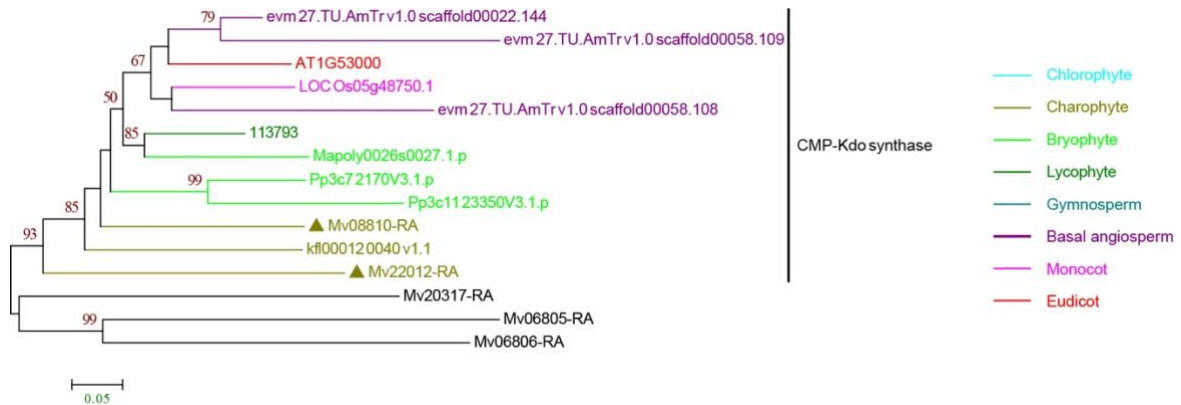
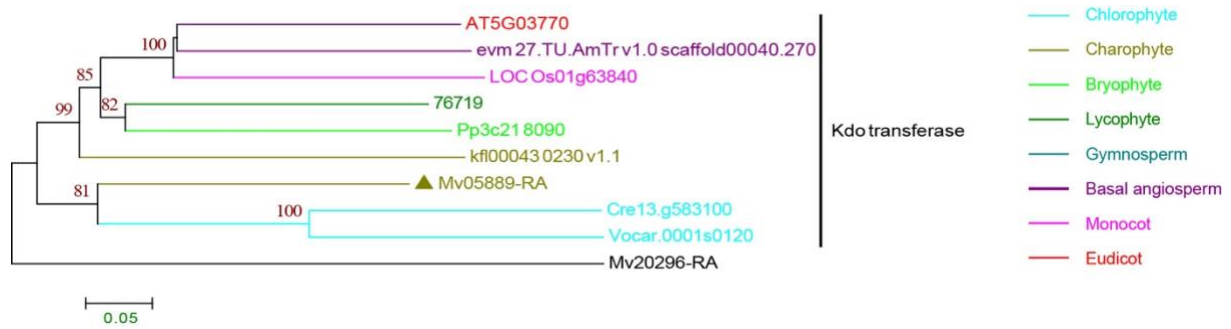


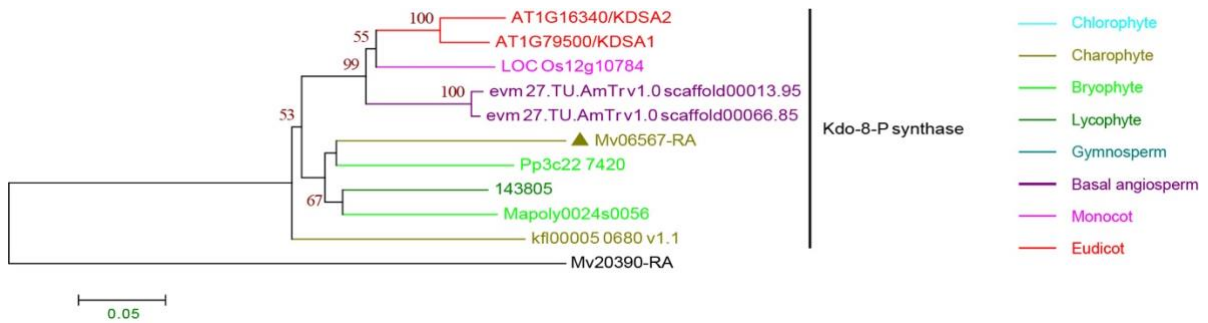
Data S1. Phylogenetic trees.



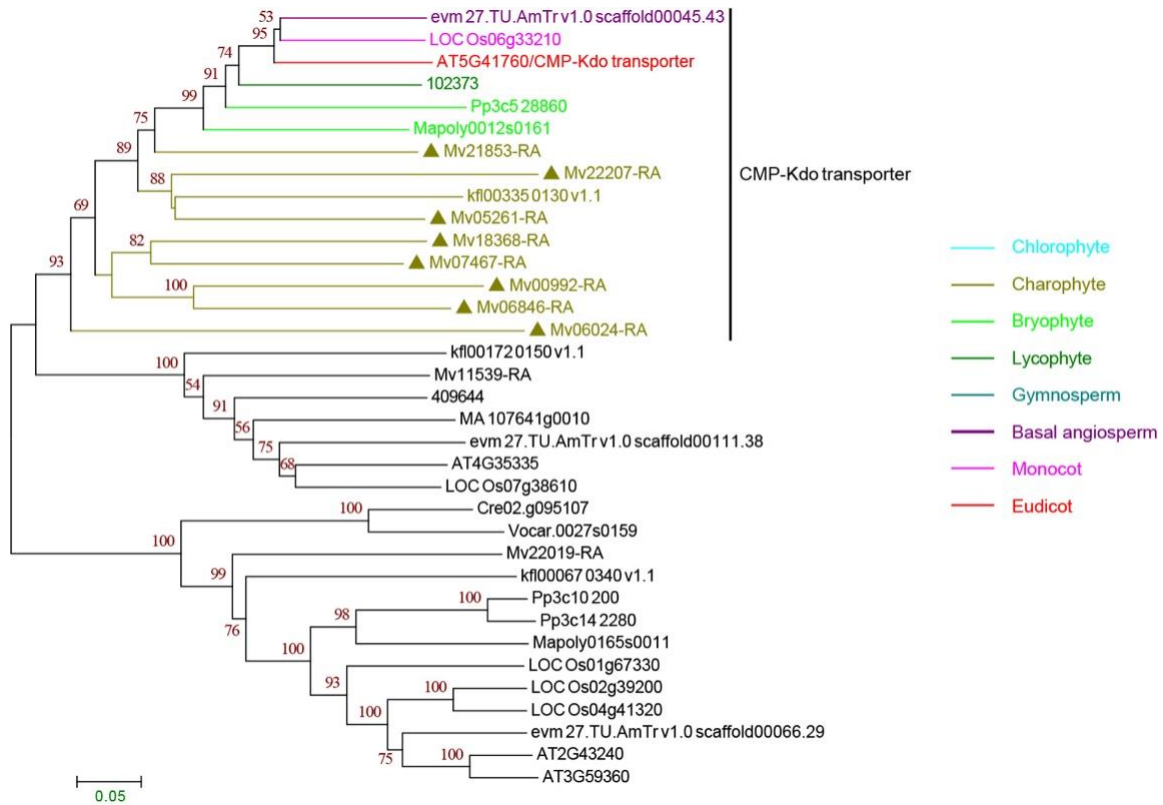
Data S1A. Phylogenetic relationships of CMP-Kdo synthetase proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



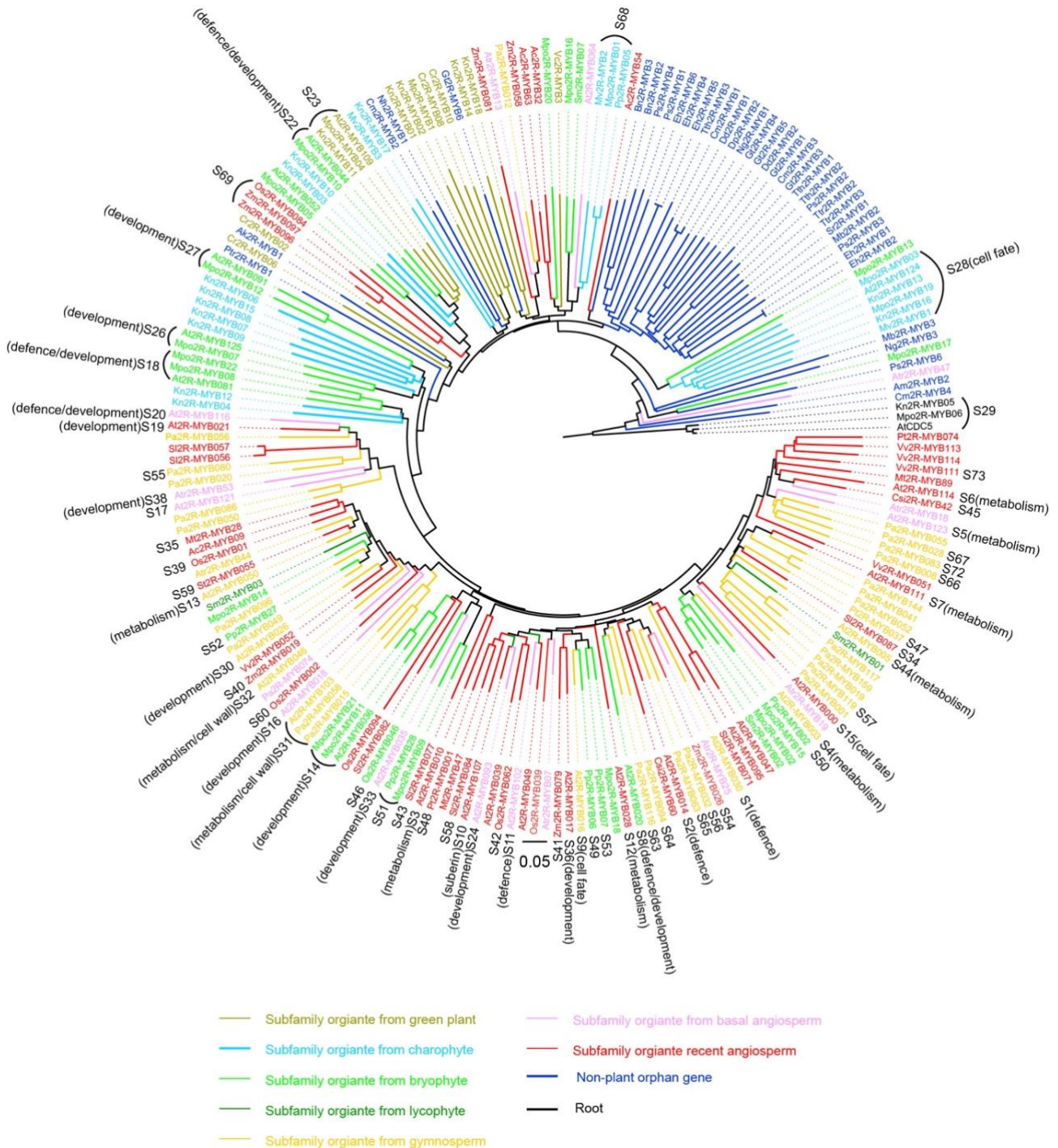
Data S1B. Phylogenetic relationships of Kdo transferase proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



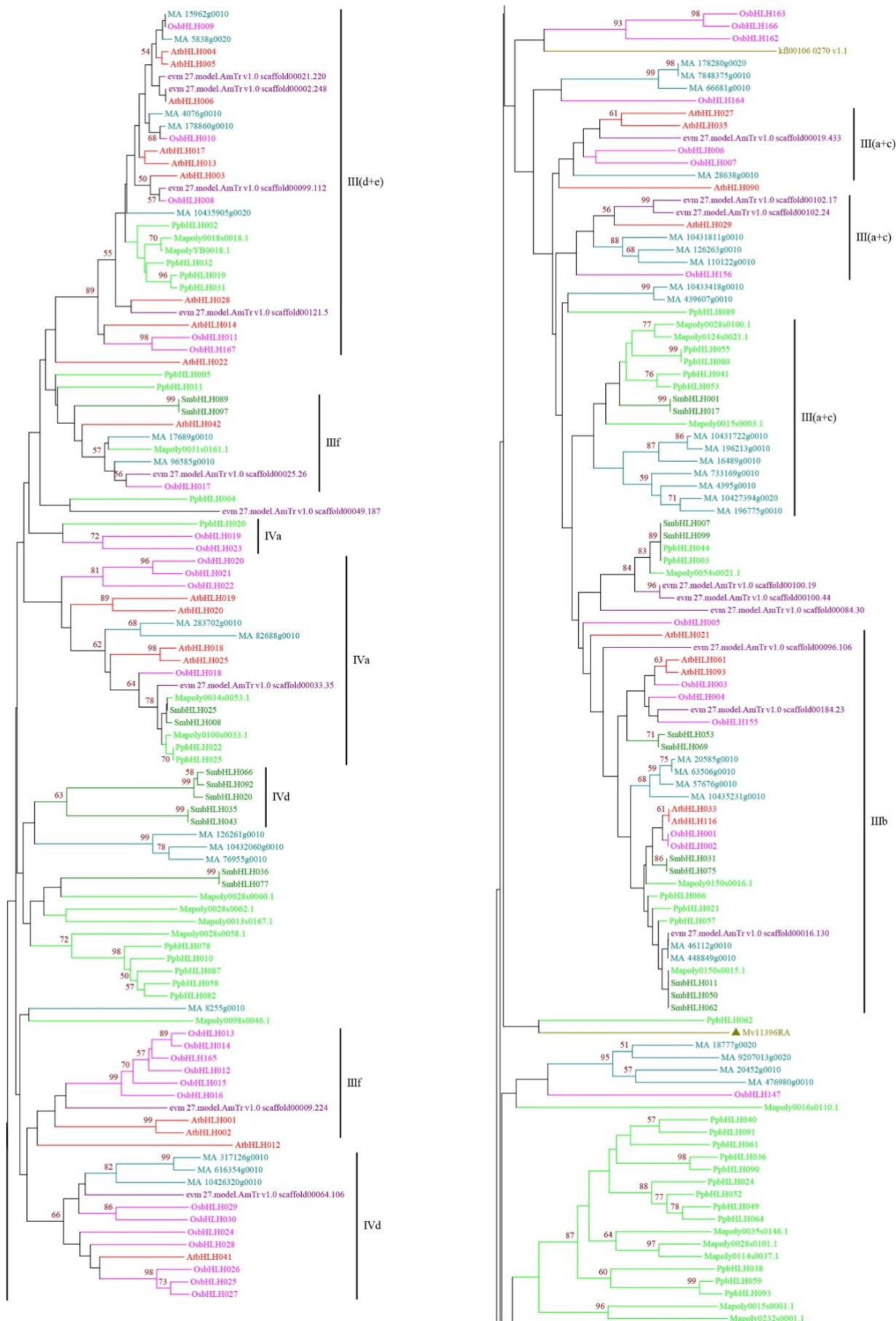
Data S1C. Phylogenetic relationships of Kdo-8-phosphate (Kdo-8-p) synthase proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.

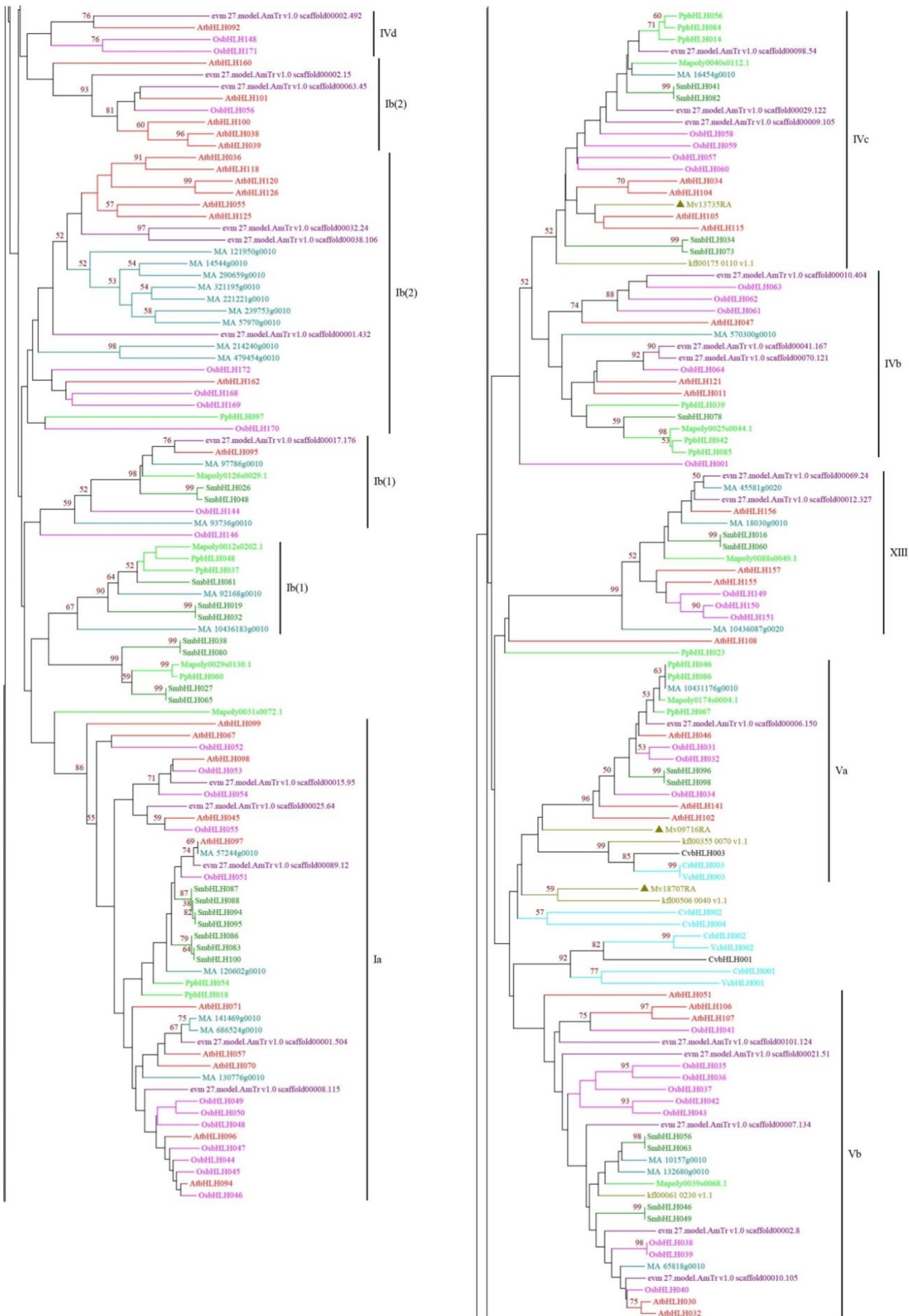


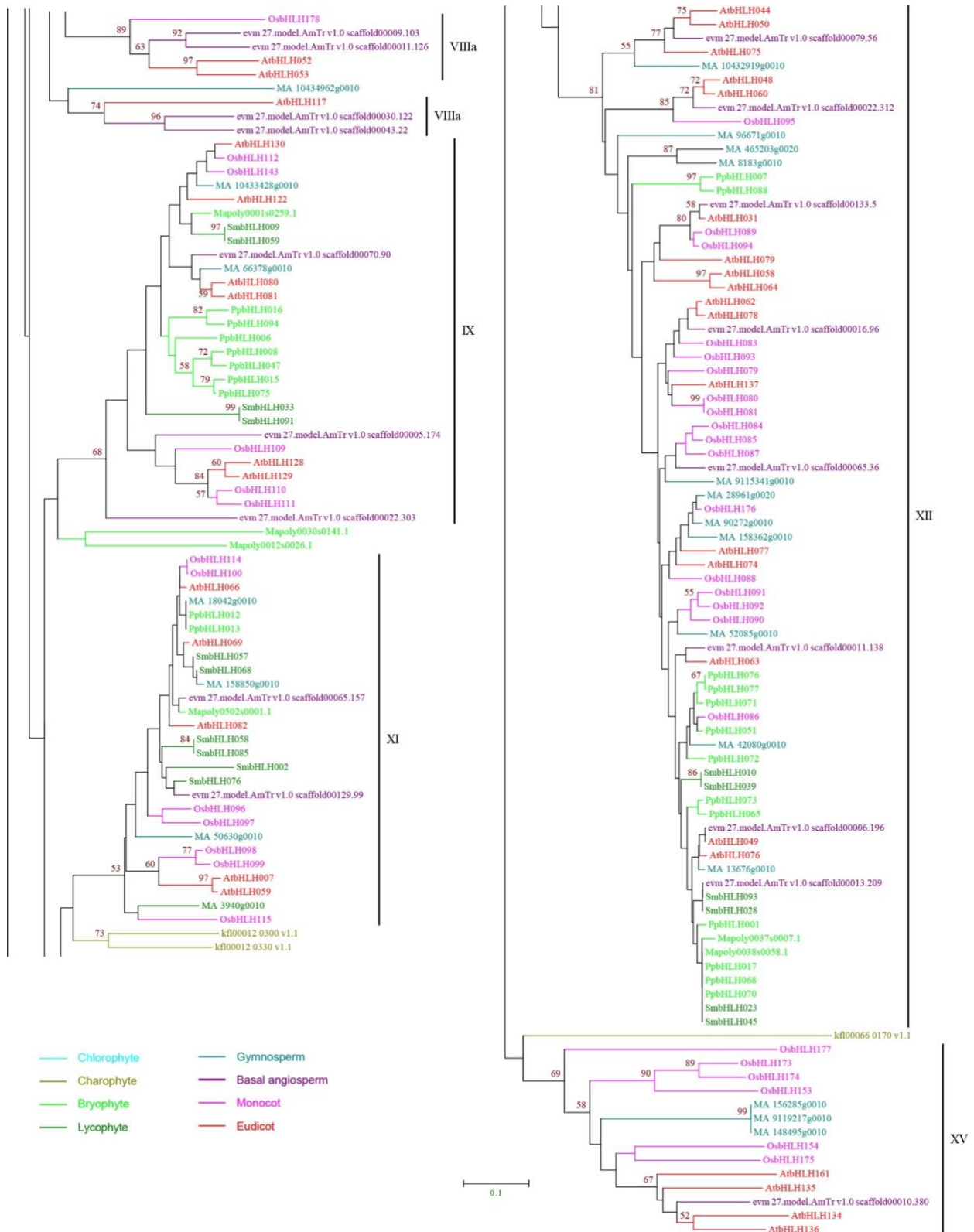
Data S1D. Phylogenetic relationships of CMP-Kdo transporter proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



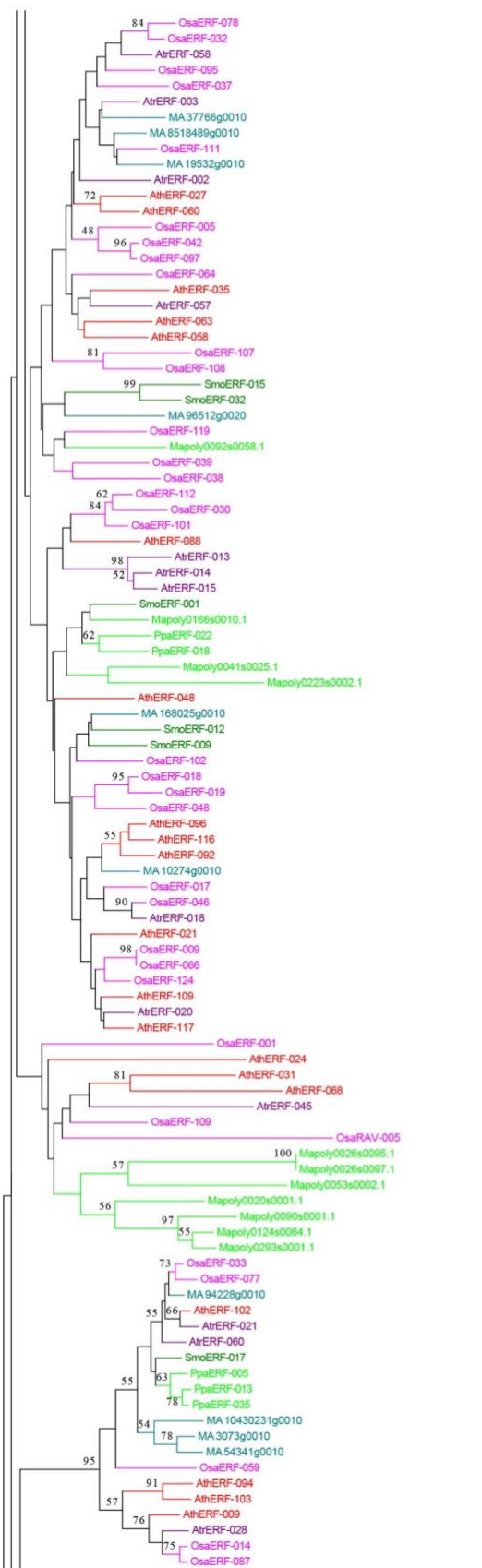
Data S1E. Phylogenetic relationships of R2R3-MYB TFs. The R2R3-MYB neighbor-joining (NJ) phylogenetic tree includes representative sequences from previously identified 73 subfamilies and 95 non-plant orphan genes based on 50 eukaryotes,^[1] and all R2R3-MYB proteins from *K. nitens*, *M. polymorpha*, and *M. viride*. The subfamily names and related functions were indicated. The three shows that *M. viride* proteins (Mv2R-MYB1-3) belong to the subfamilies of S28, S68 and one yet-to-be defined subfamily, respectively.



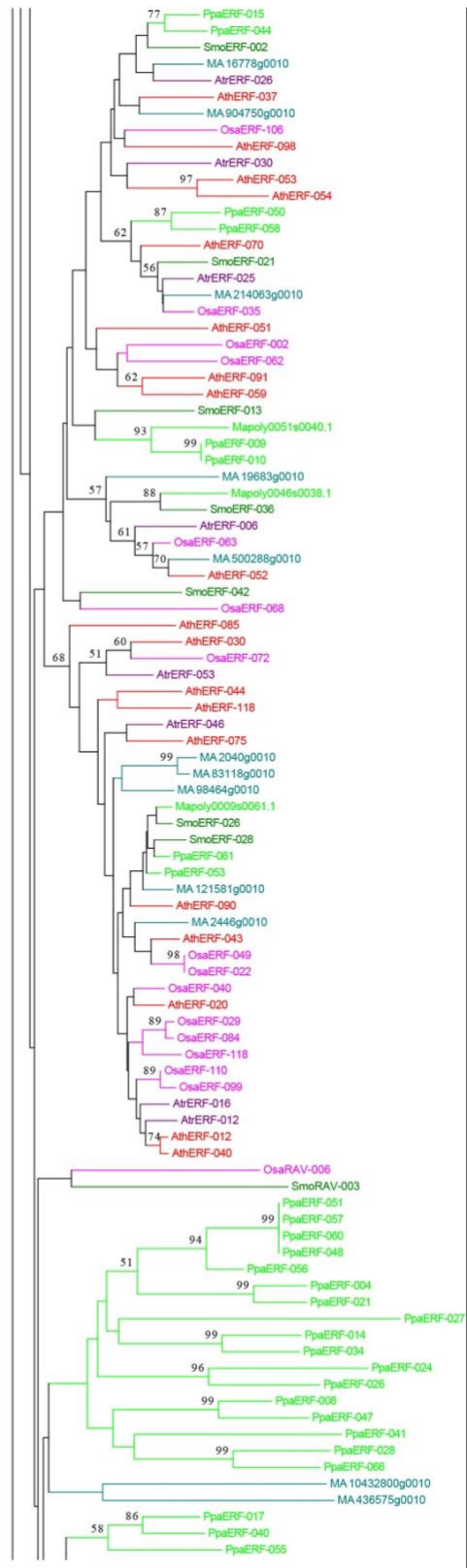




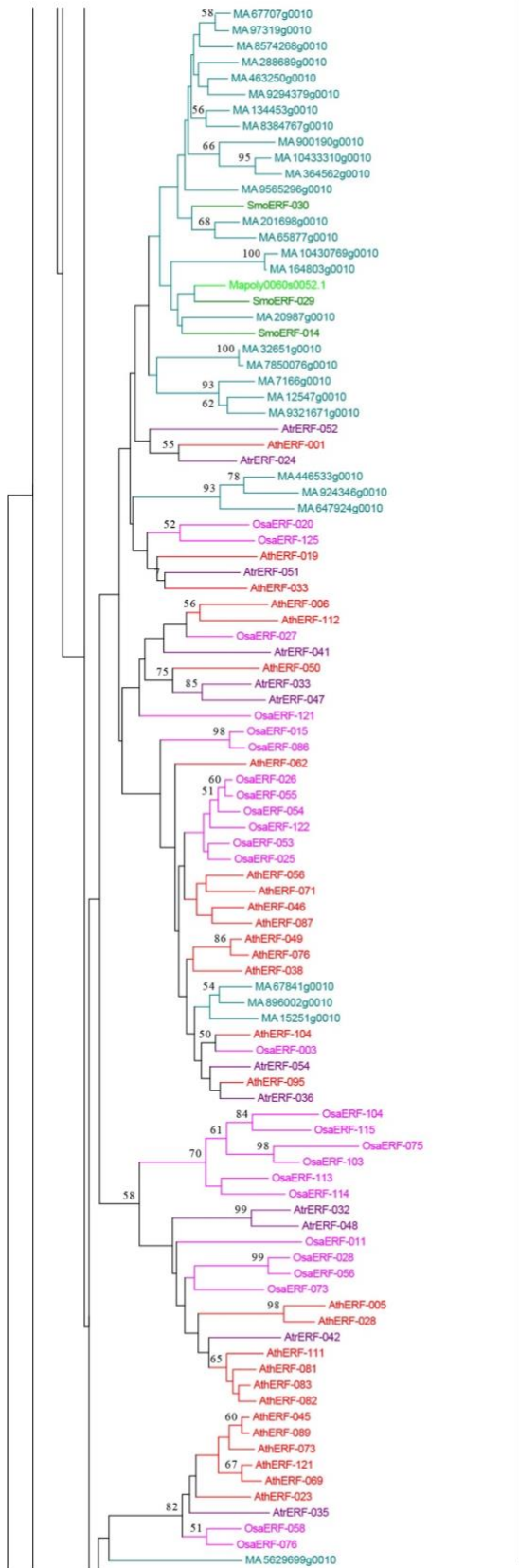
Data S1F. Phylogenetic relationships of basic helix-loop-helix (bHLH) TFs from *M. viride* and 10 evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates. The classification/clade was named according to a previous study.[2]



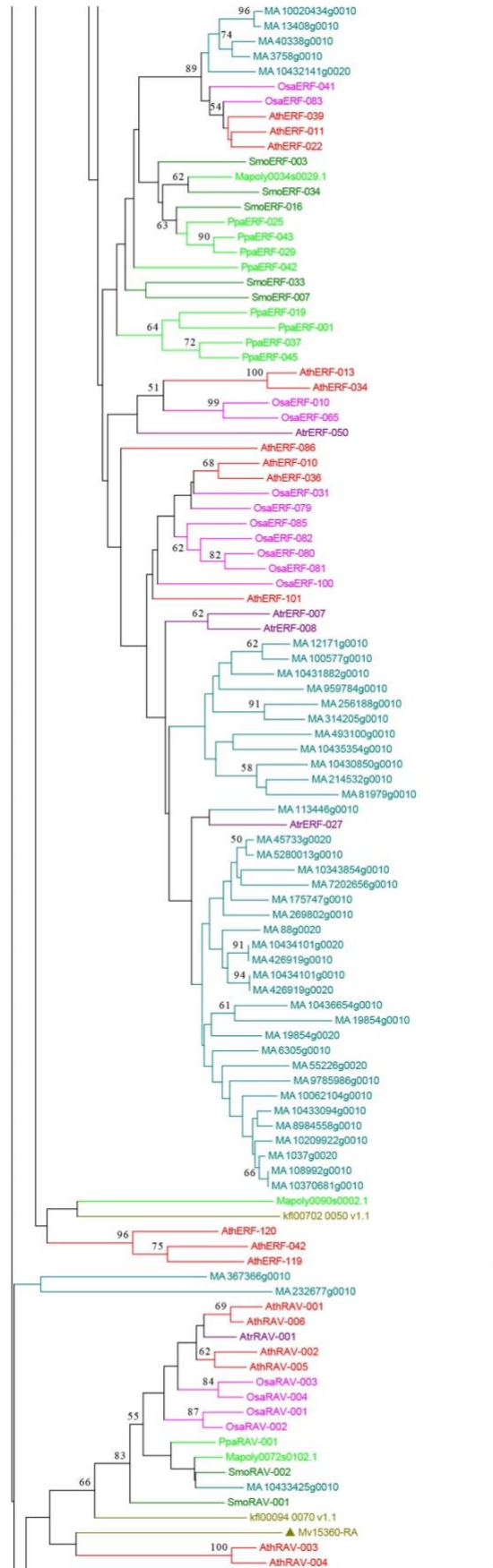
ERF



ERF

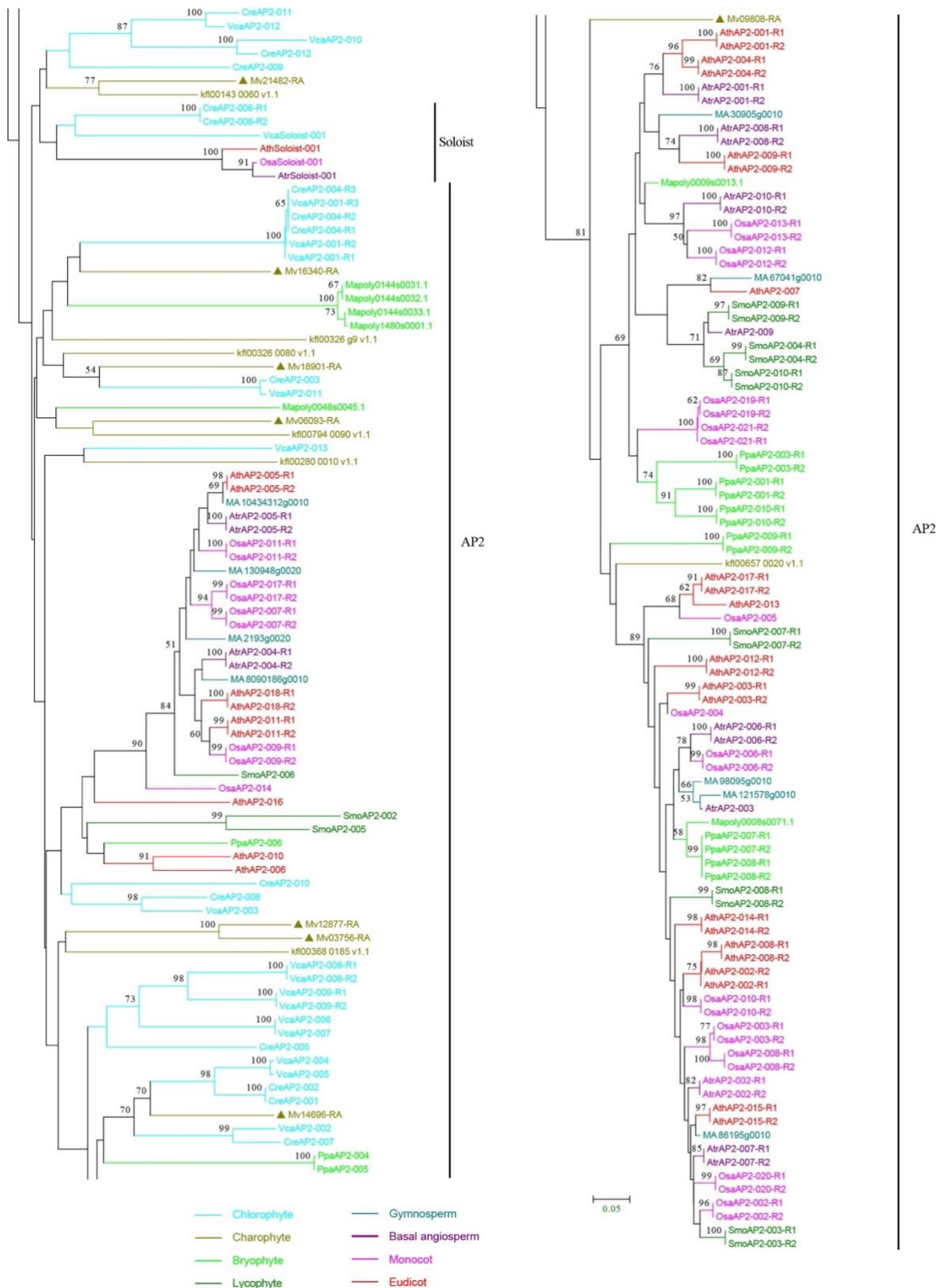


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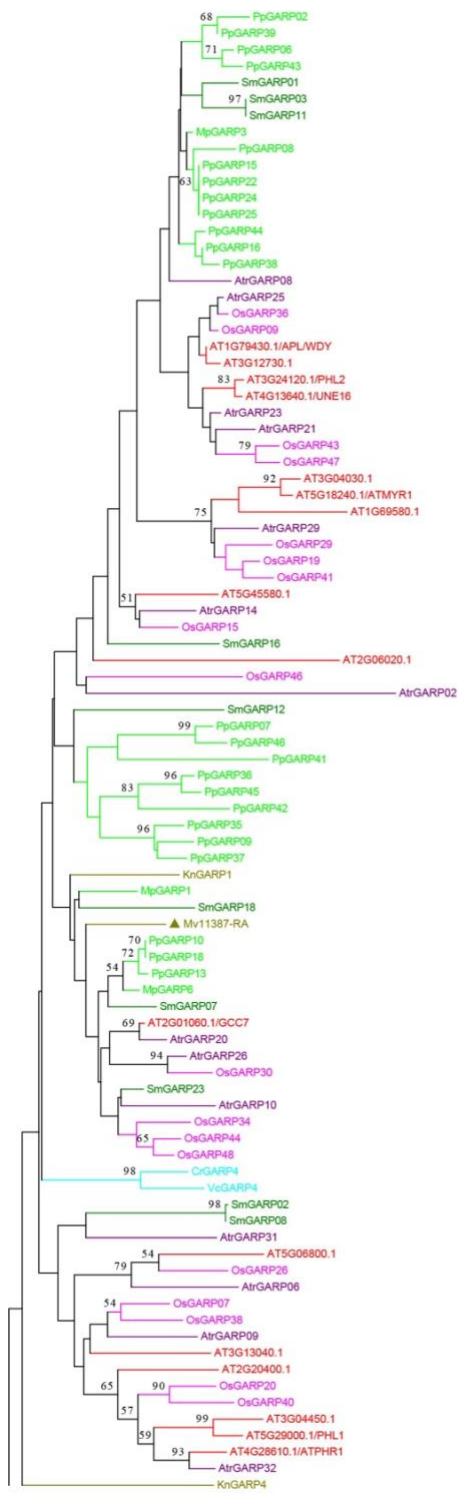


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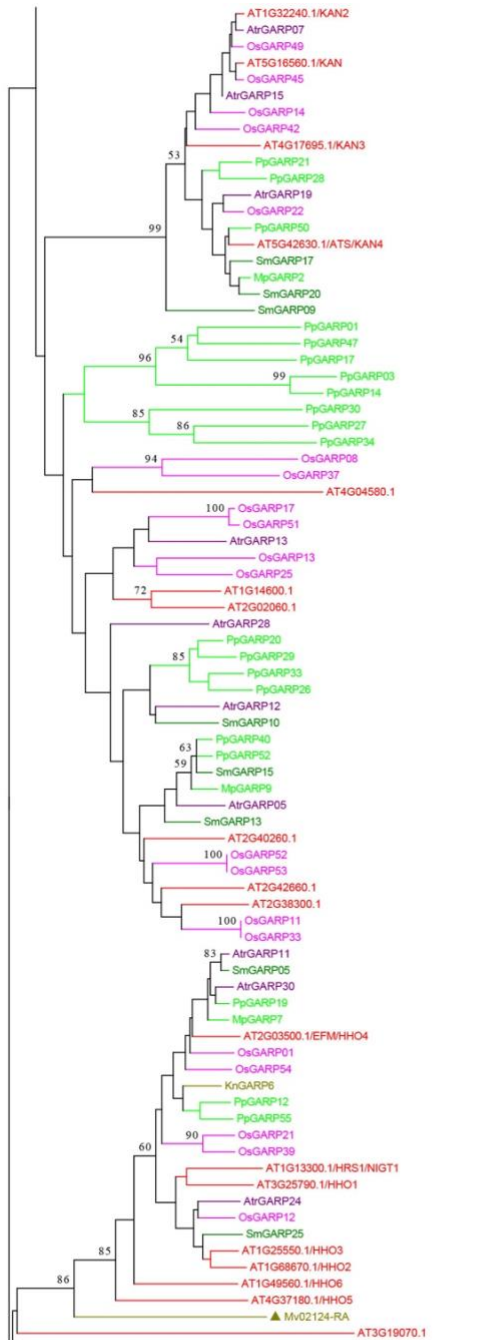
RAV



Data S1G. Phylogenetic relationships of APETALA 2/ERE binding factor (AP2/ERF) TFs from *M. viride* and 10 evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates. The classification/clade was named based on previous studies.[3-6]

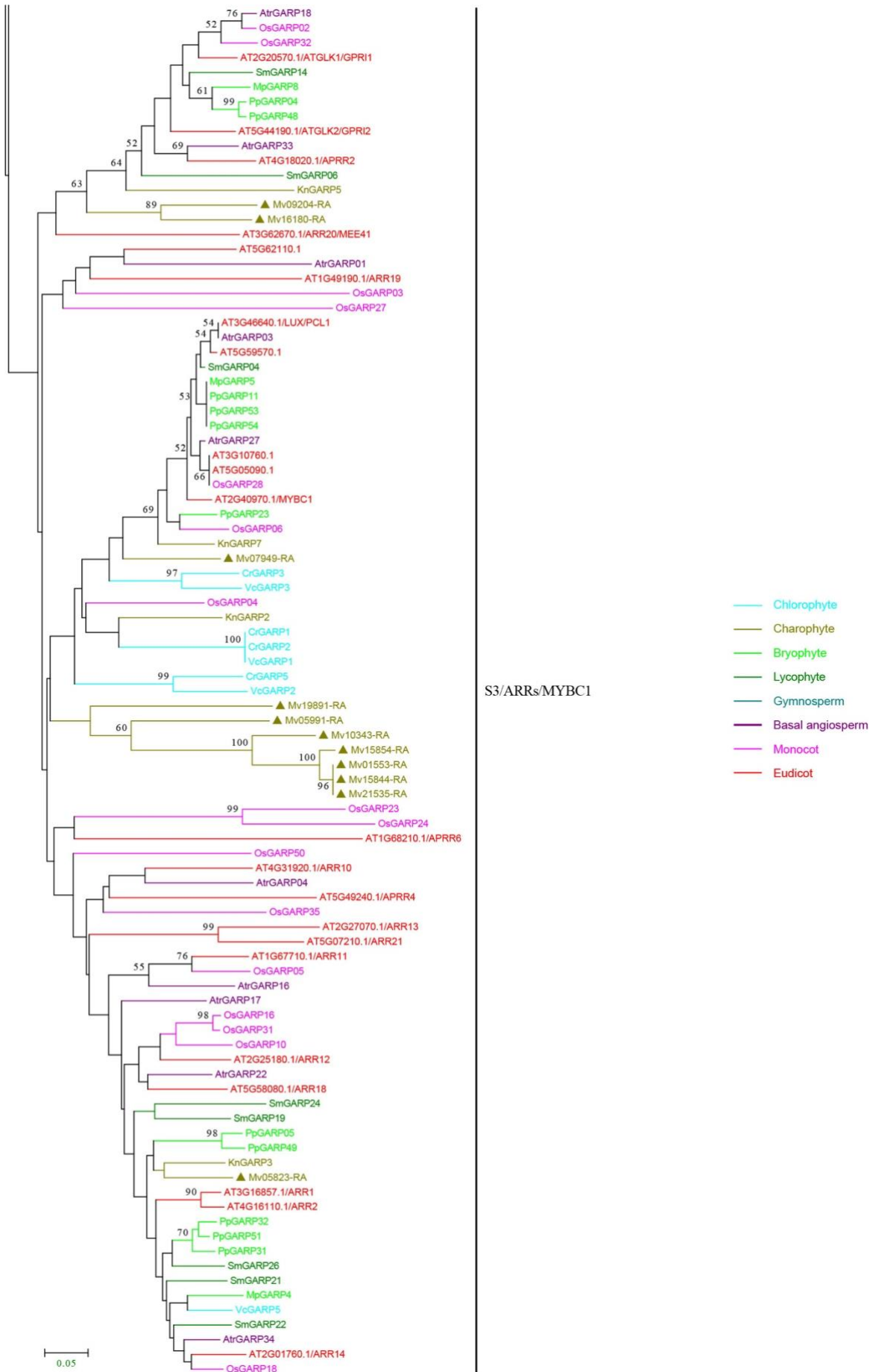


S1/KAN/PHR/PHL

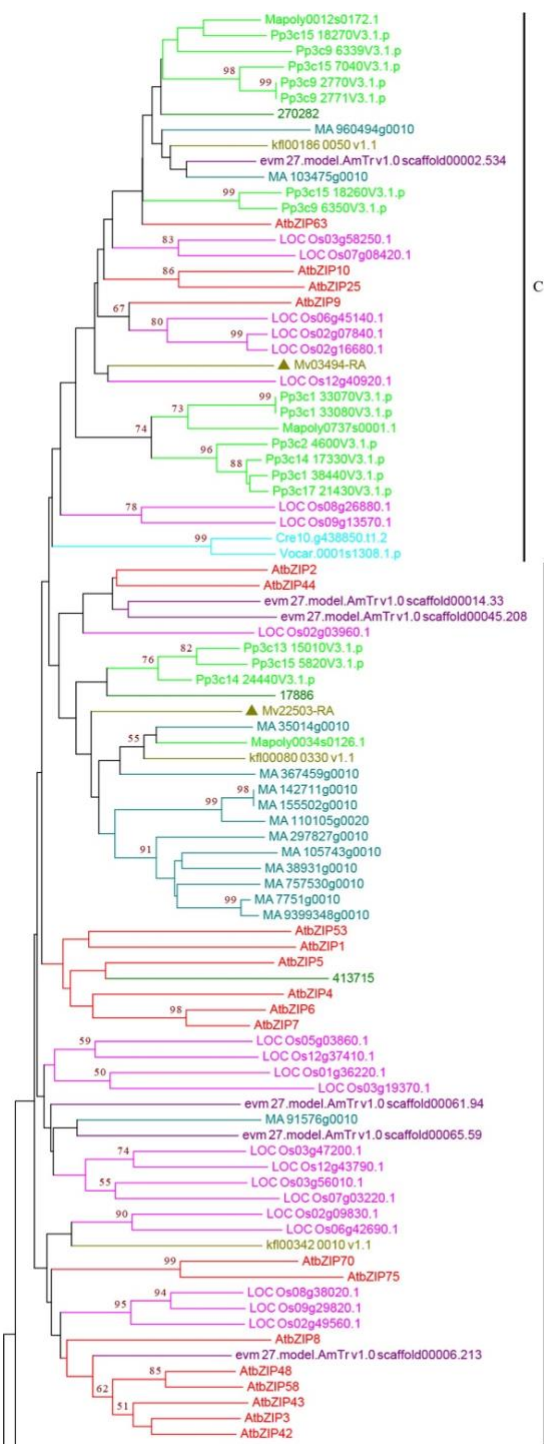


S1/KAN/PHR/PHL

S2/HHOs

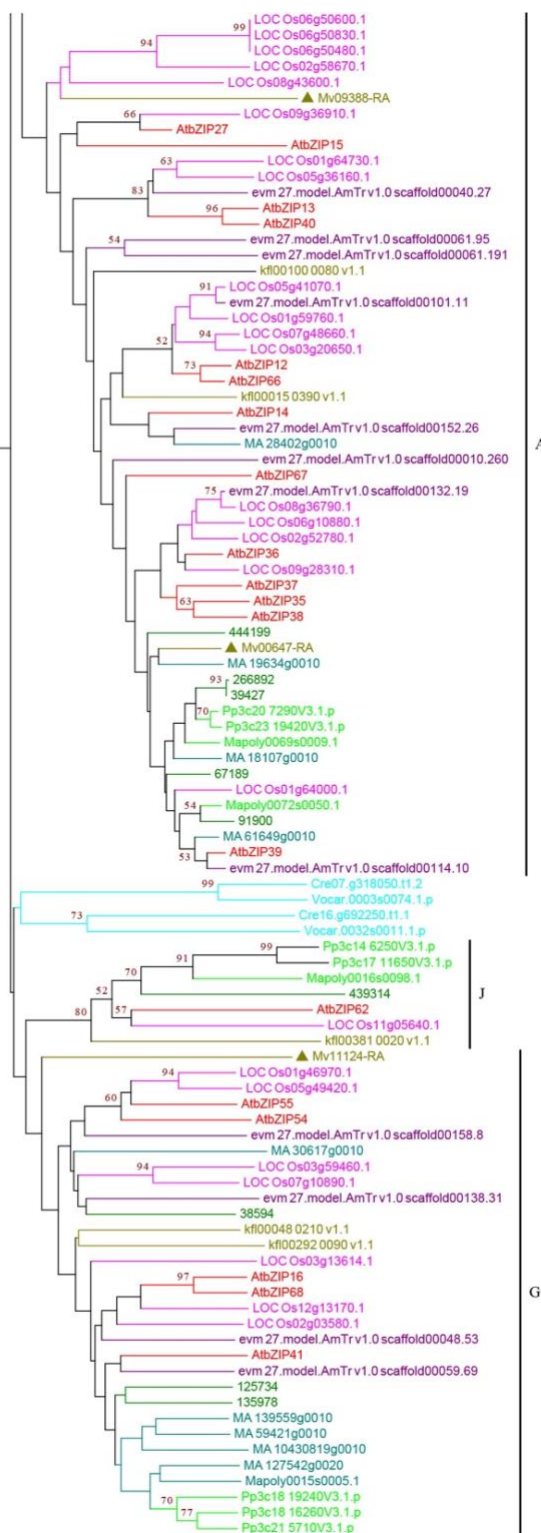


Data S1H. Phylogenetic relationships of GARP TFs from *M. viride* and 10 evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates. The classification/clade was named based on a previous study.^[7]



C

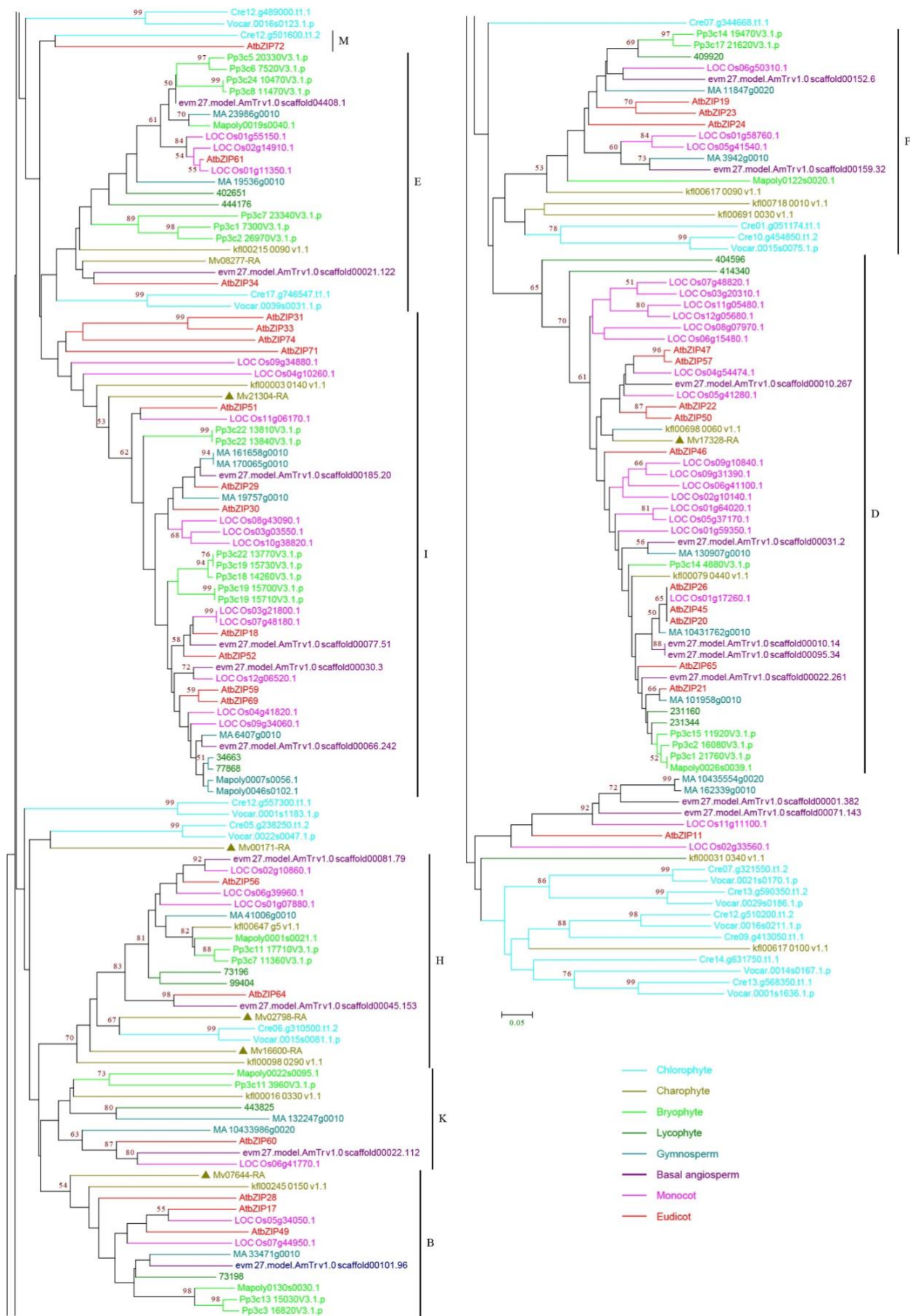
S



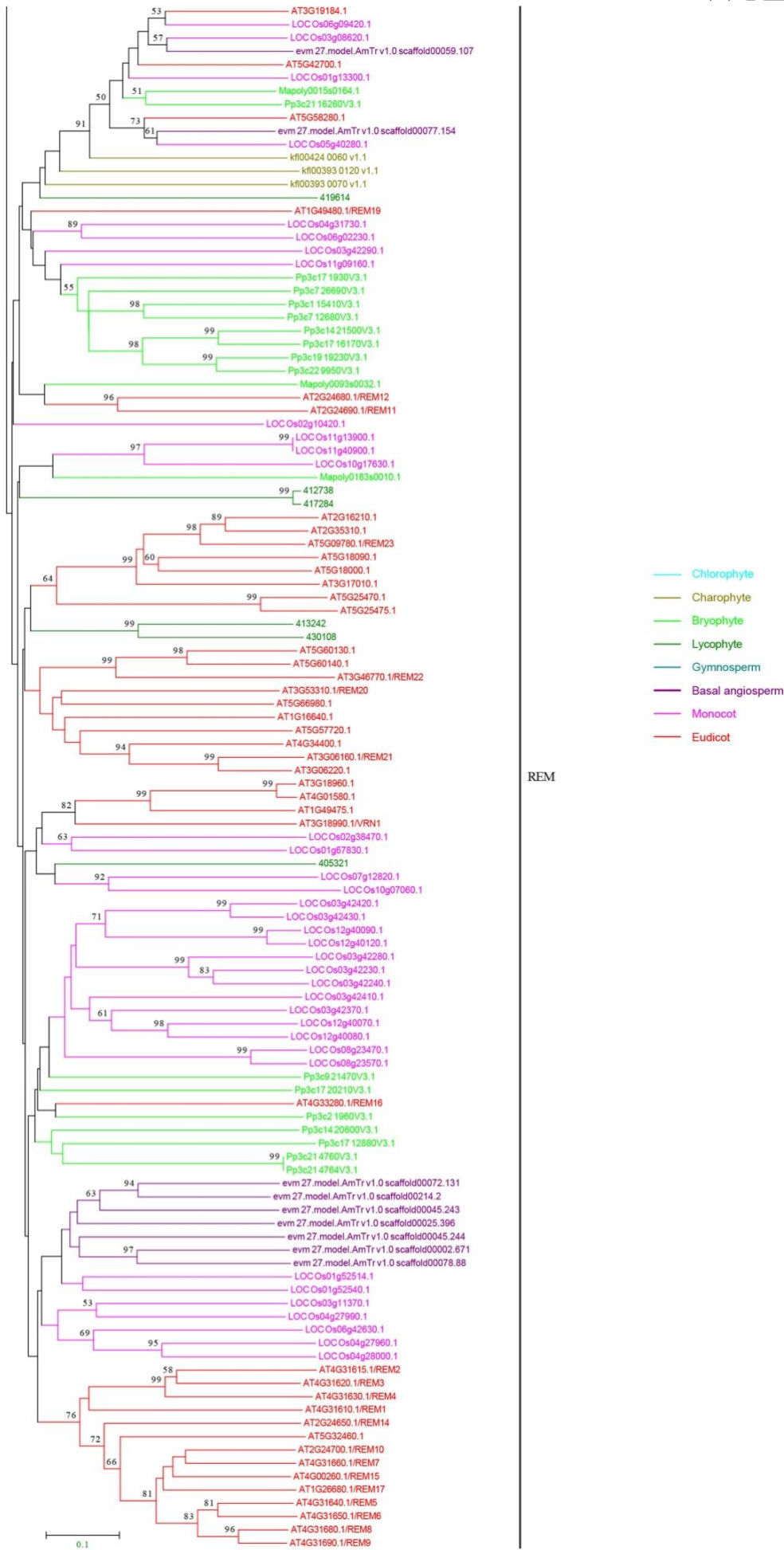
A

J

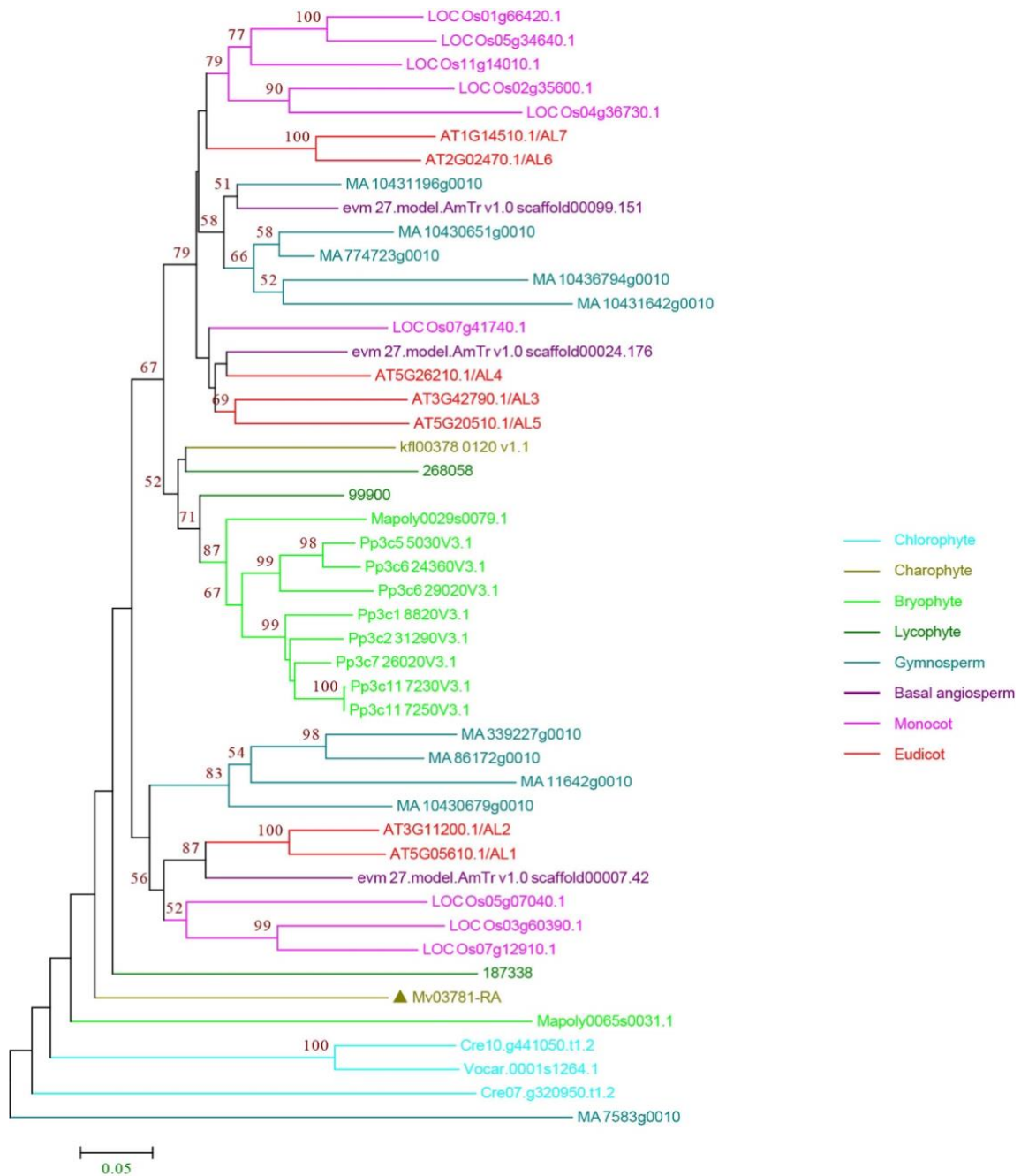
G



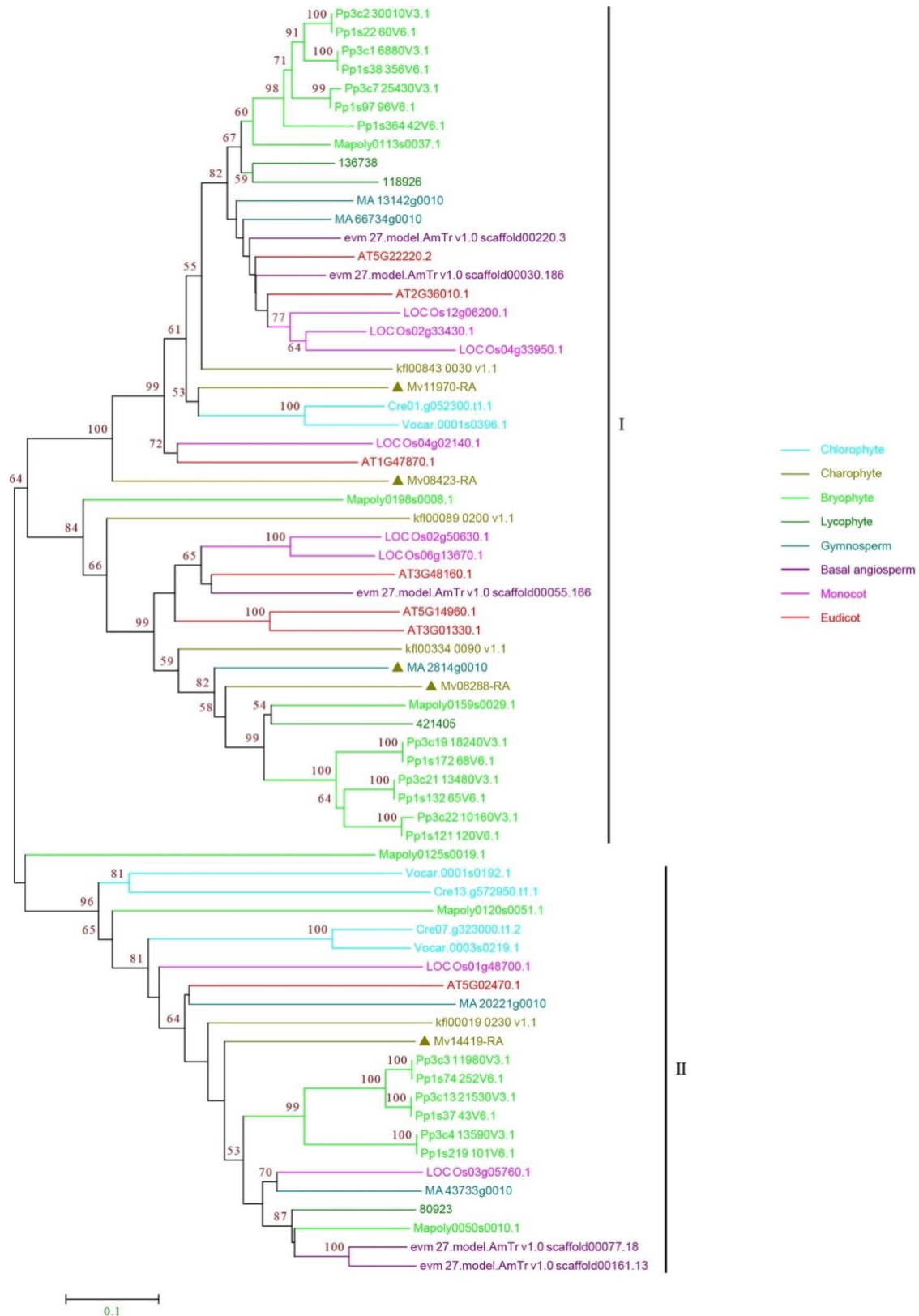
Data S1I. Phylogenetic relationships of Basic Leucine Zipper (bZIP) TFs from *M. viride* and 10 evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates. The classification/clade was named based on previous studies.^[8-9]



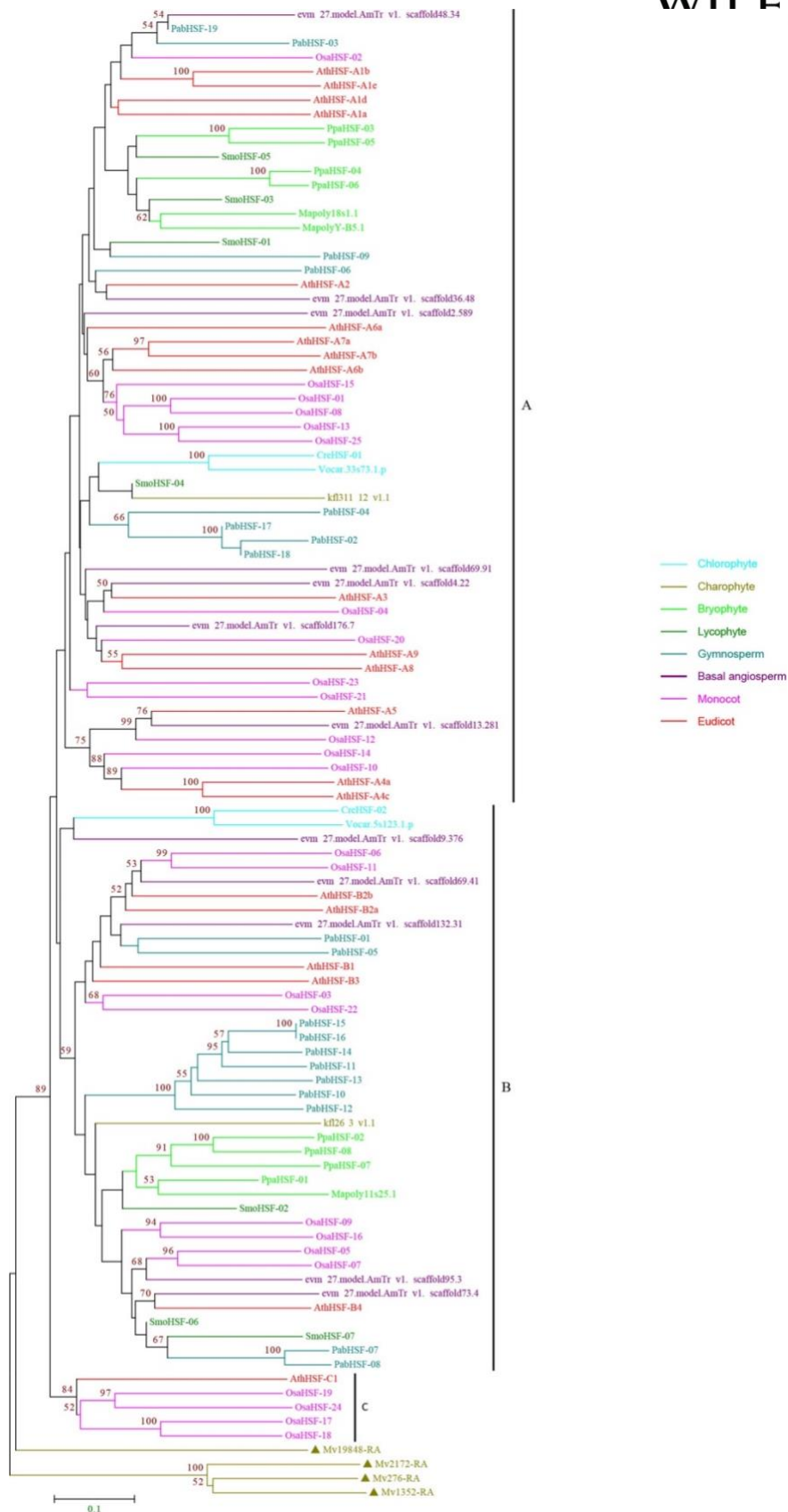
Data S1J. Phylogenetic relationships of B3 TFs from *M. viride* and 10 evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates. The classification/clade was named based on previous studies.^[10-12]



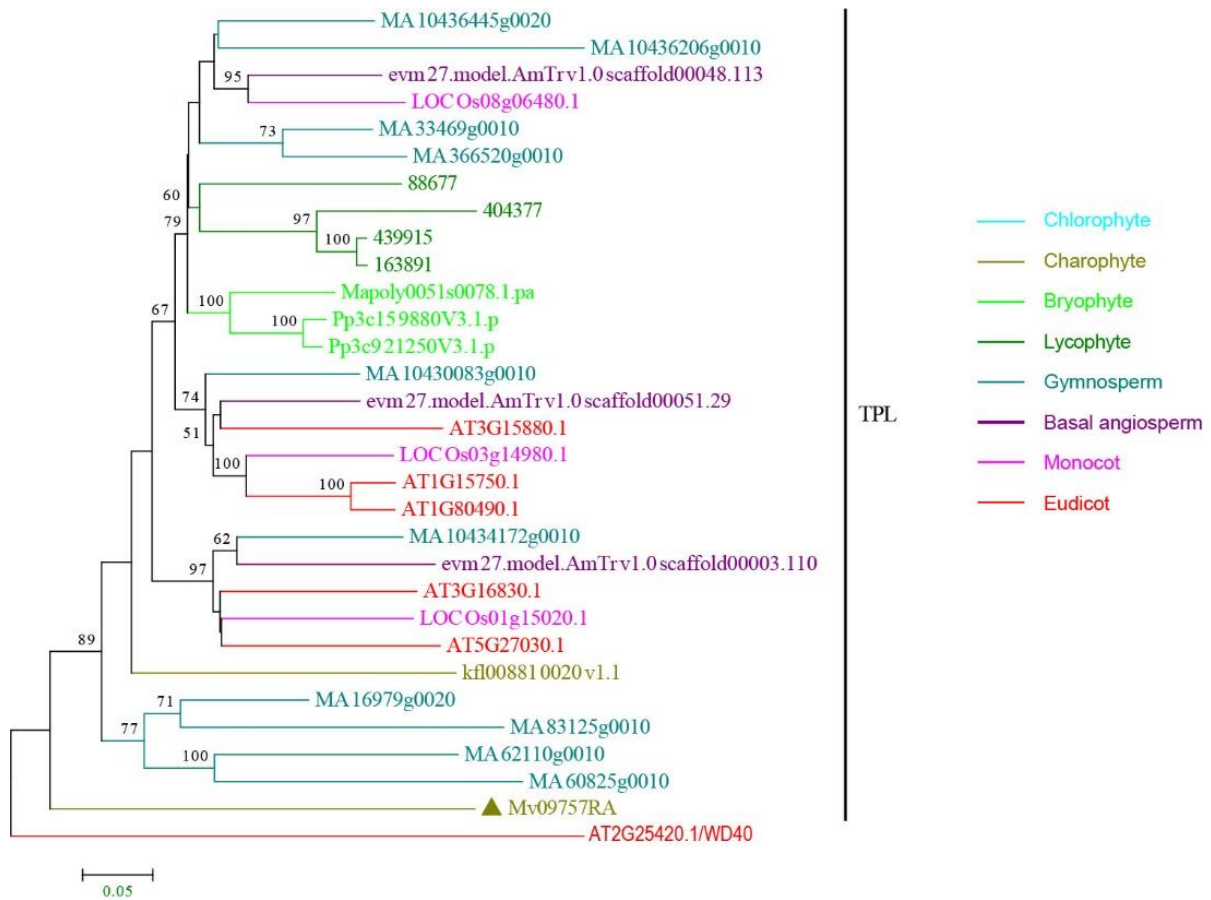
Data S1K. Phylogenetic relationships of alfin1-like TFs from *M. viride* and 10 evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



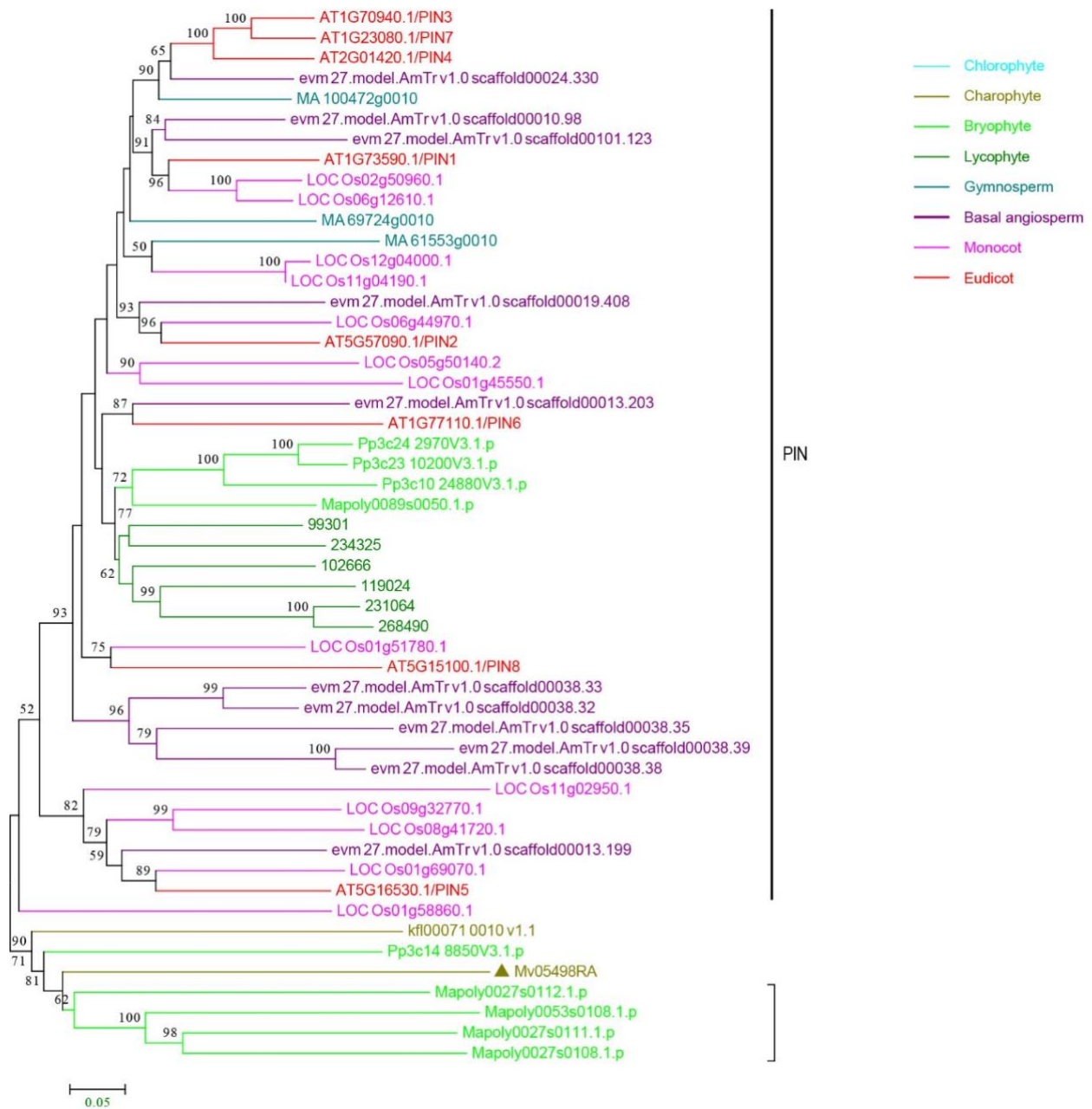
Data S1L. Phylogenetic relationships of E2 factor (E2F) TFs from *M. viride* and 10 evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates. The classification/clade was named based on previous studies.[13-14]



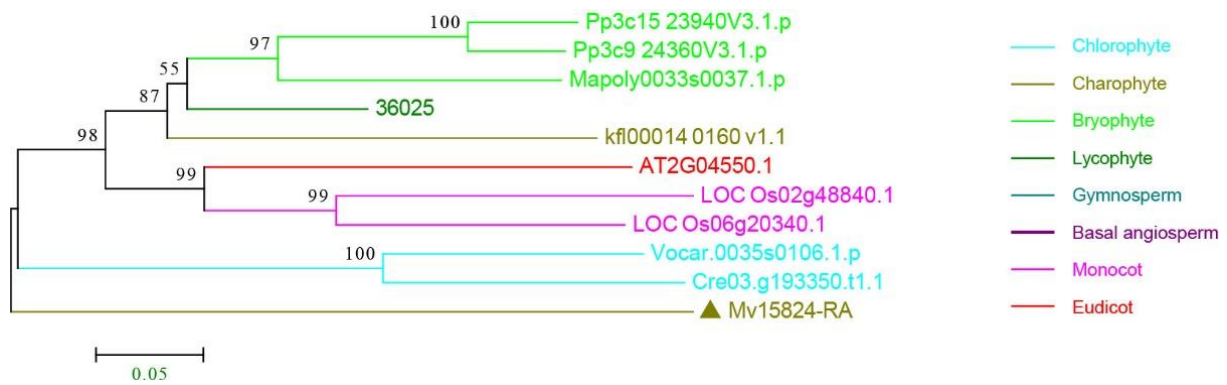
Data S1M. Phylogenetic relationships of heat shock transcription factor (HSF) TFs from *M. viride* and 10 evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates. The classification/clade was named based on a previous study.[15]



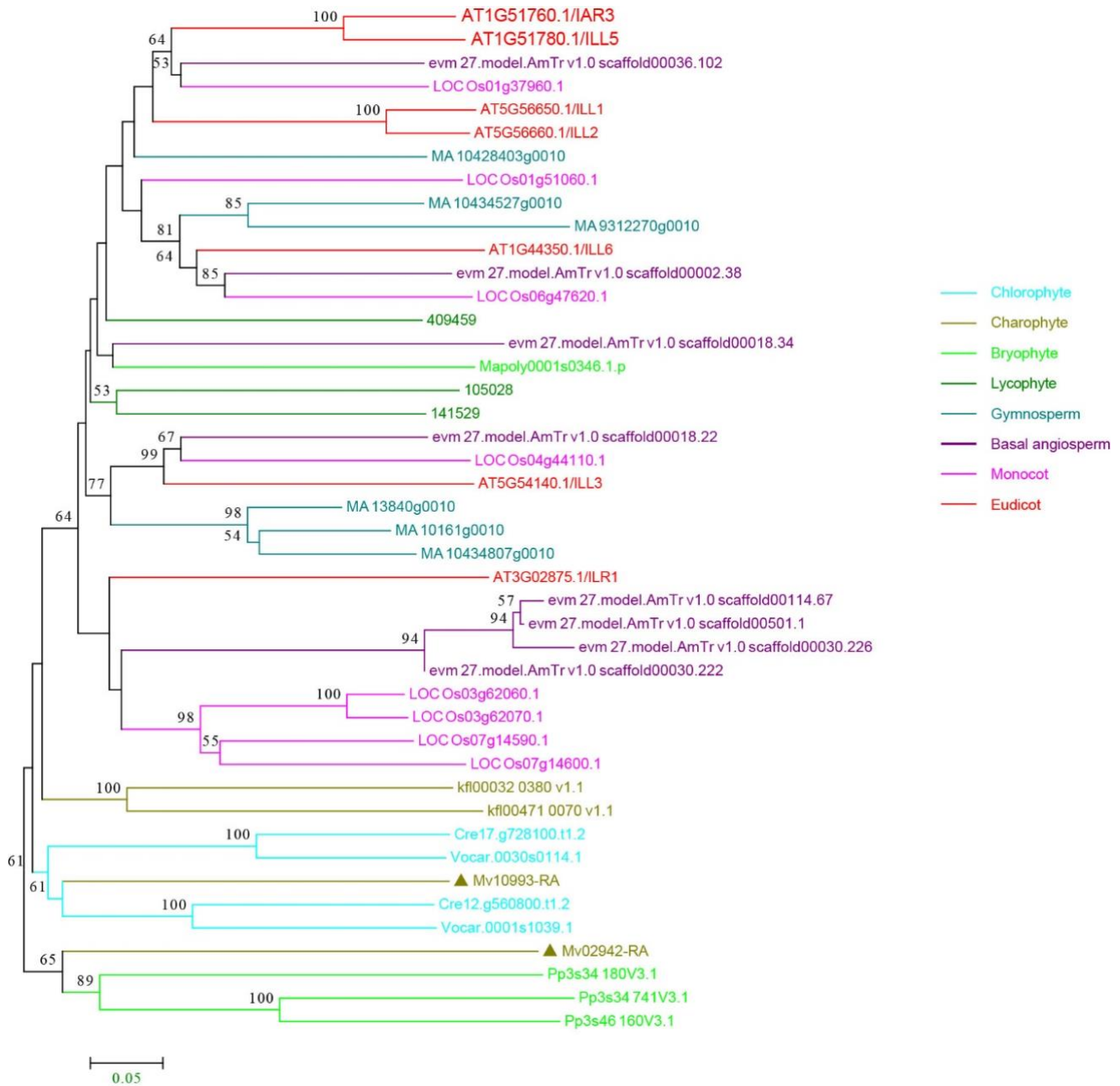
Data S1N. Phylogenetic relationships of TOPLESS (TPL) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



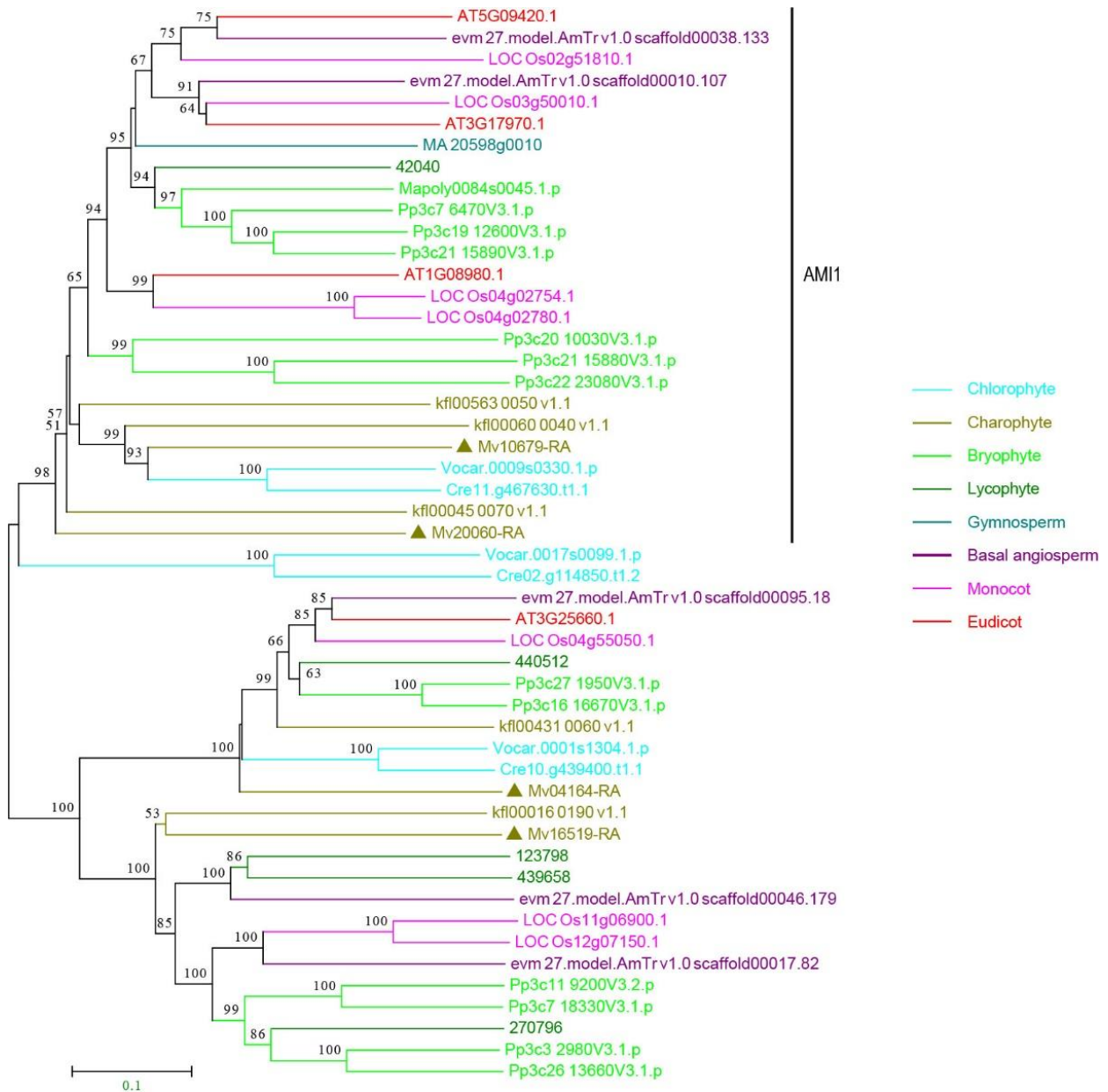
Data S10. Phylogenetic relationships of PIN-FORMED (PIN) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



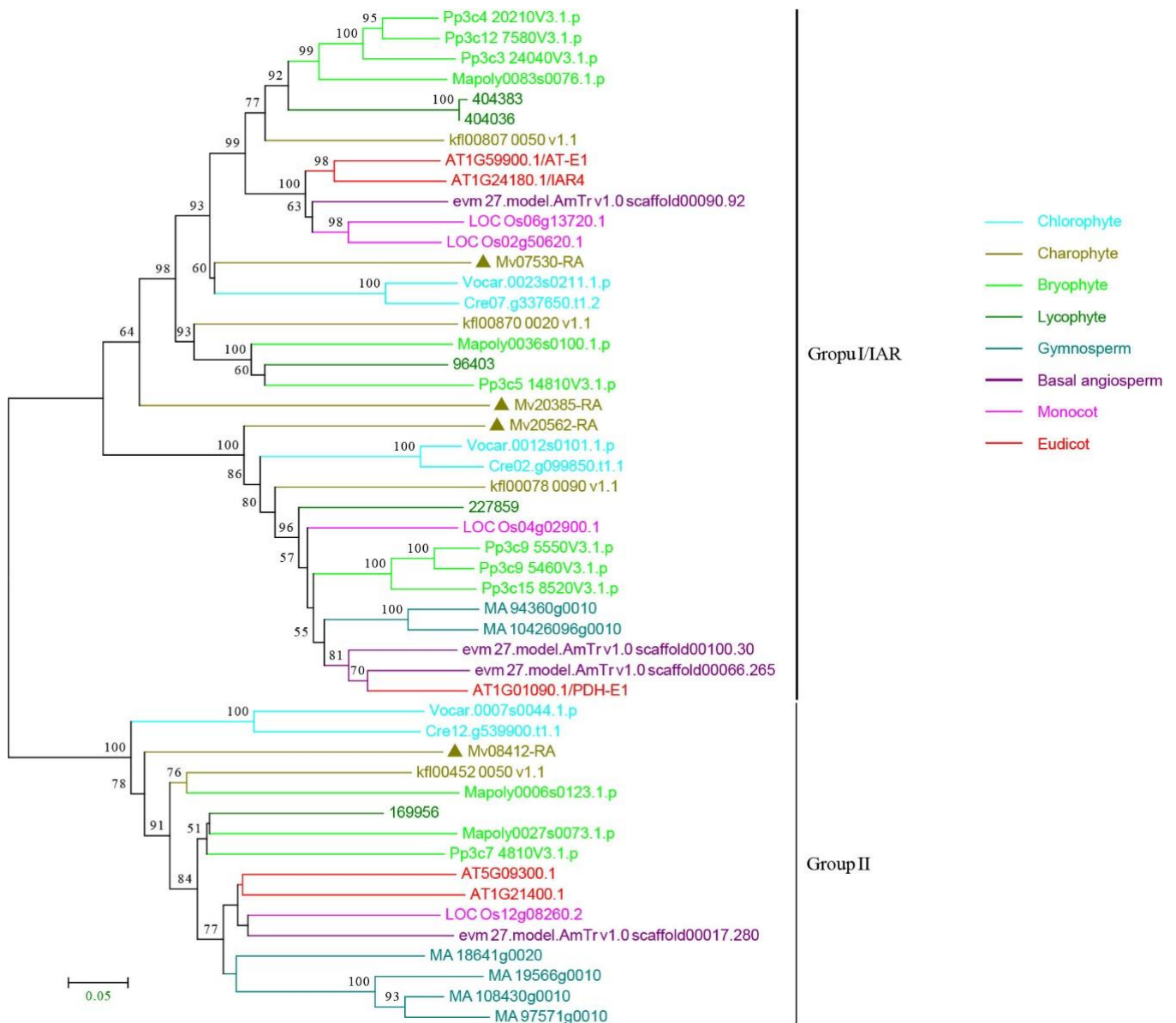
Data S1P. Phylogenetic relationships of INDOLE-3-BUTYRIC ACID RESPONSE (IBR) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



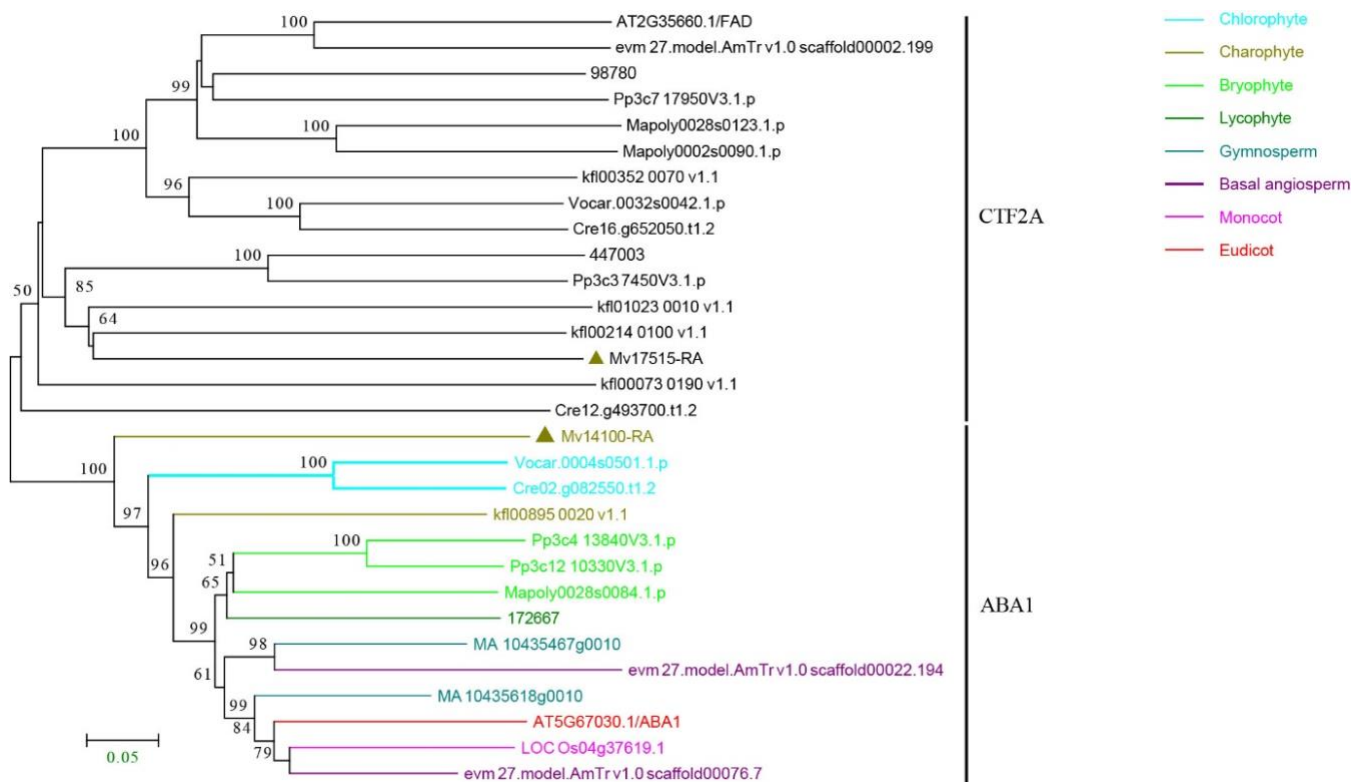
Data S1Q. Phylogenetic relationships of IAA-LEUCINE RESISTANT (ILR) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



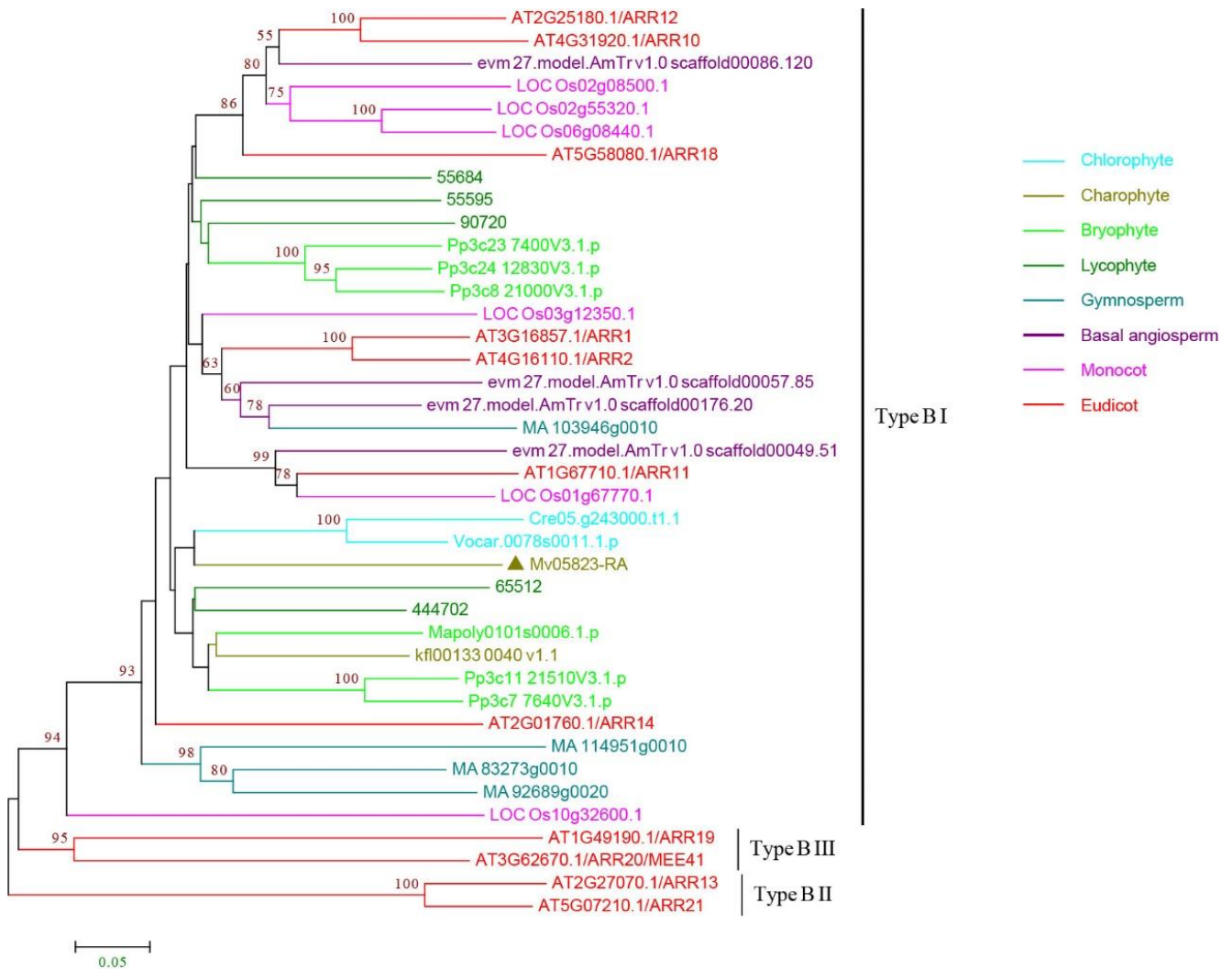
Data S1R. Phylogenetic relationships of AMIDASEA1 (AMI1) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



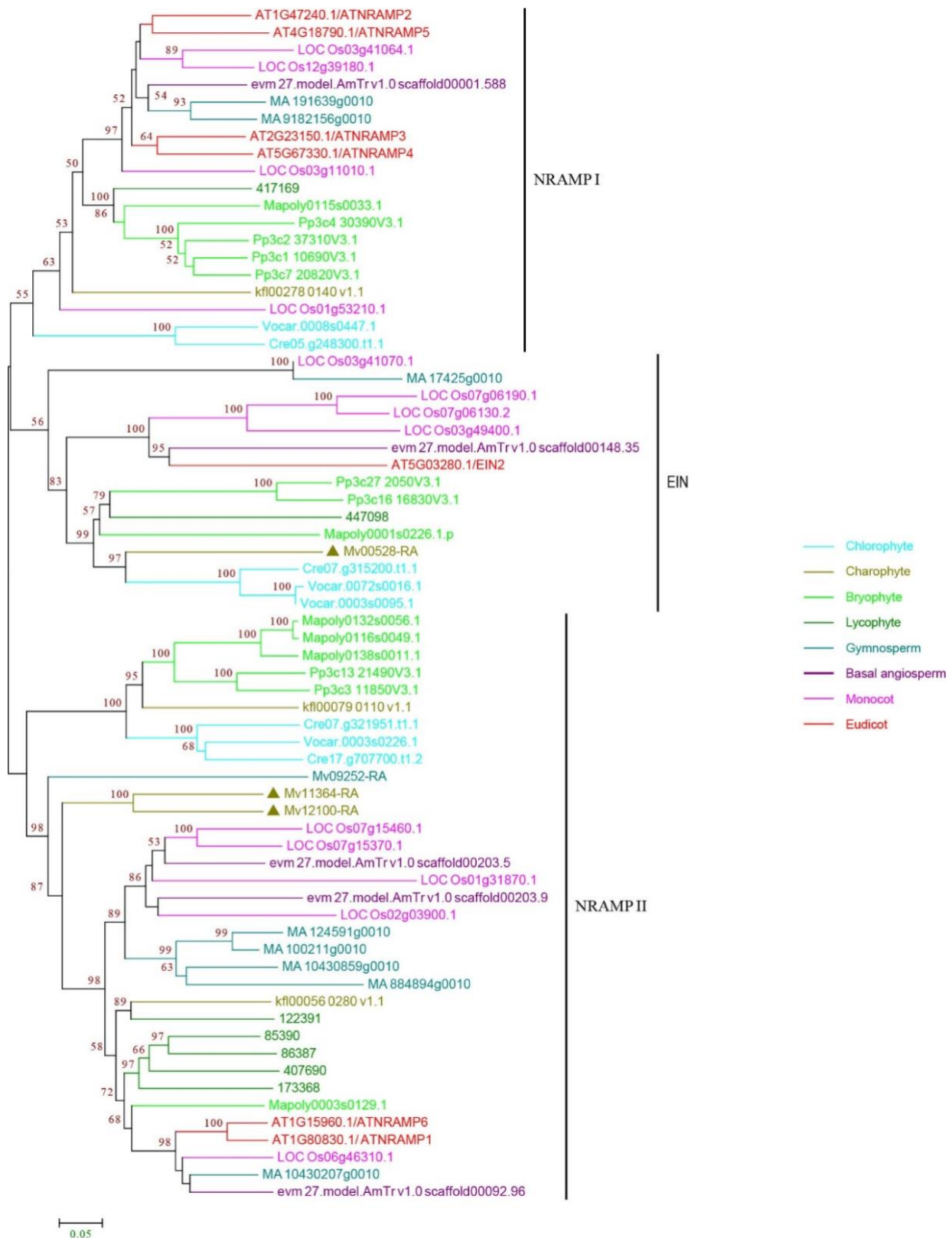
Data S1S. Phylogenetic relationships of IAA-CONJUGATE-RESISTANT (IAR) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



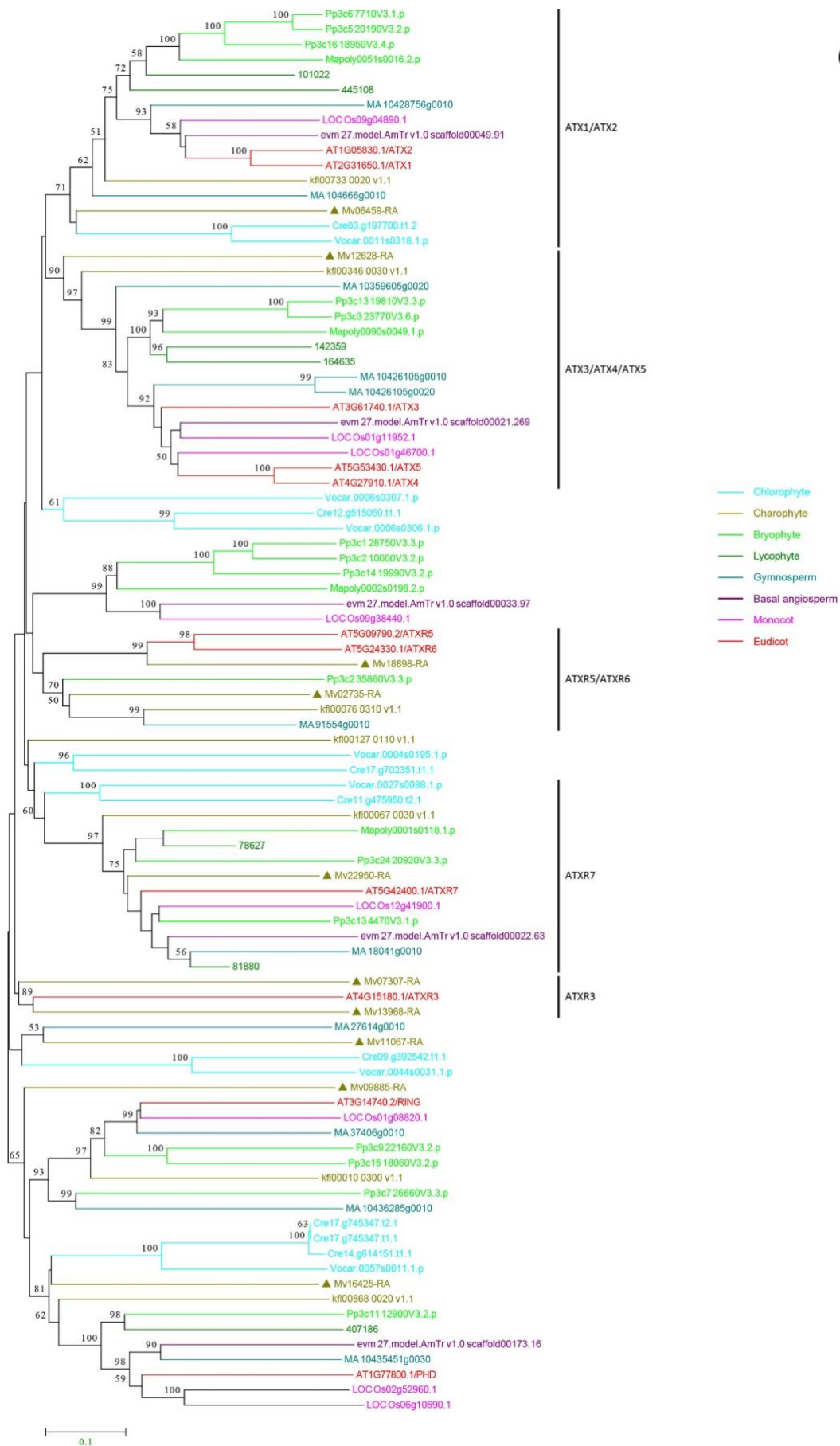
Data S1T. Phylogenetic relationships of ABA DEFICIENT 1 (ABA1) proteins from *M. viride* and other evolutionarily representative species. *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



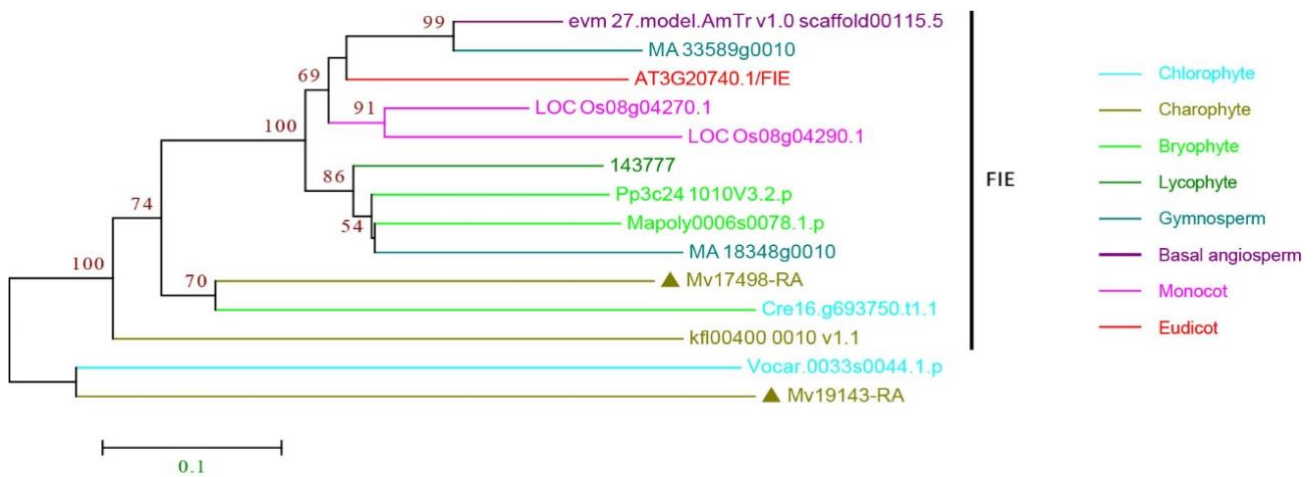
Data S1V. Phylogenetic relationships of Type B RESPONSE REGULATOR (ARR) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



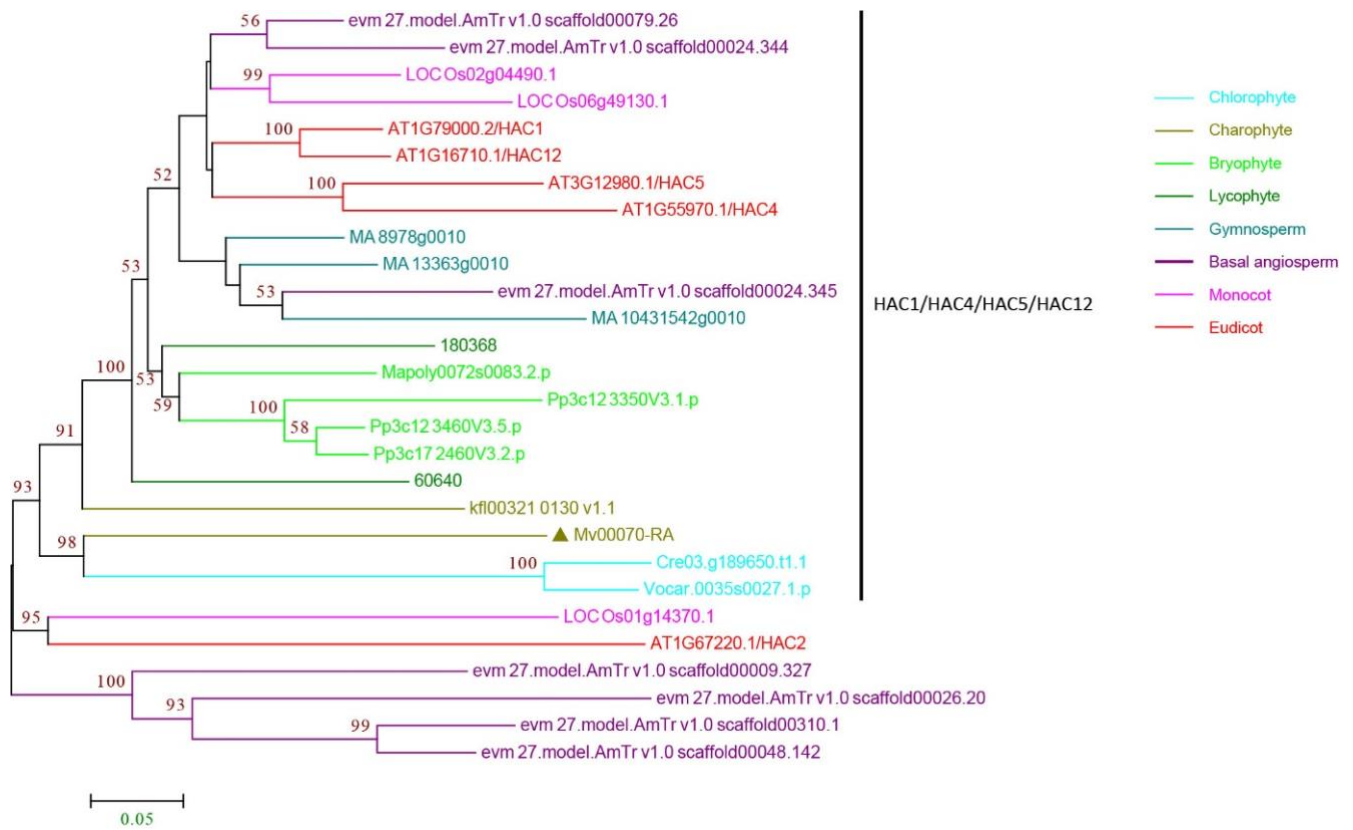
Data S1W. Phylogenetic relationships of ETHYLENE INSENSITIVE2 (EIN2) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



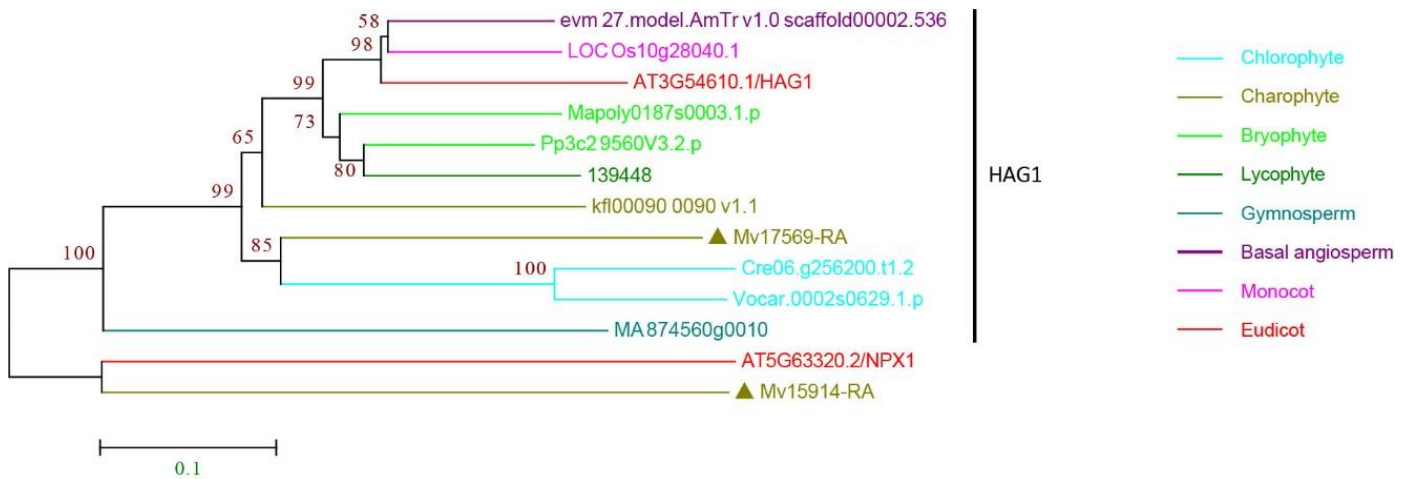
Data S1X. Phylogenetic relationships of TRITHORAX-LIKE PROTEIN (ATX) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



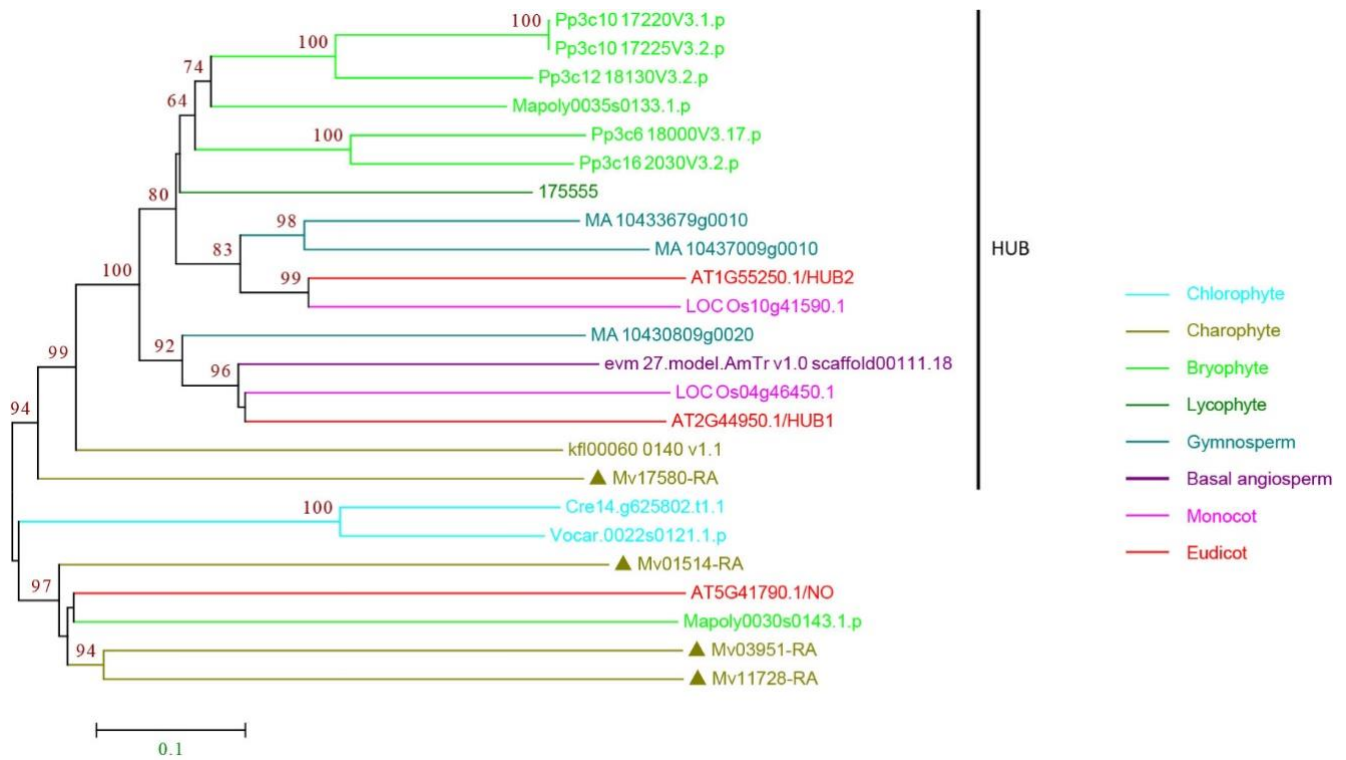
Data S1Y. Phylogenetic relationships of FERTILIZATION-INDEPENDENT ENDOSPERM (FIE) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



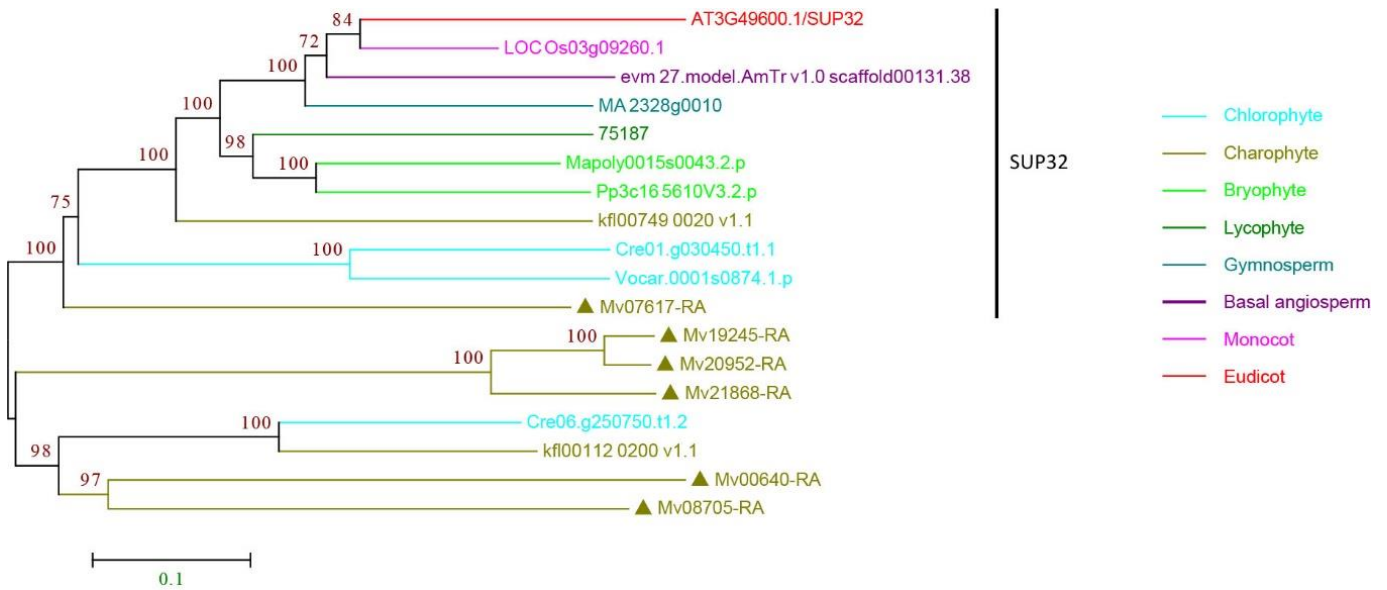
Data S1Z. Phylogenetic relationships of HISTONE ACETYLTRANSFERASE OF THE CBP FAMILY (HAC) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



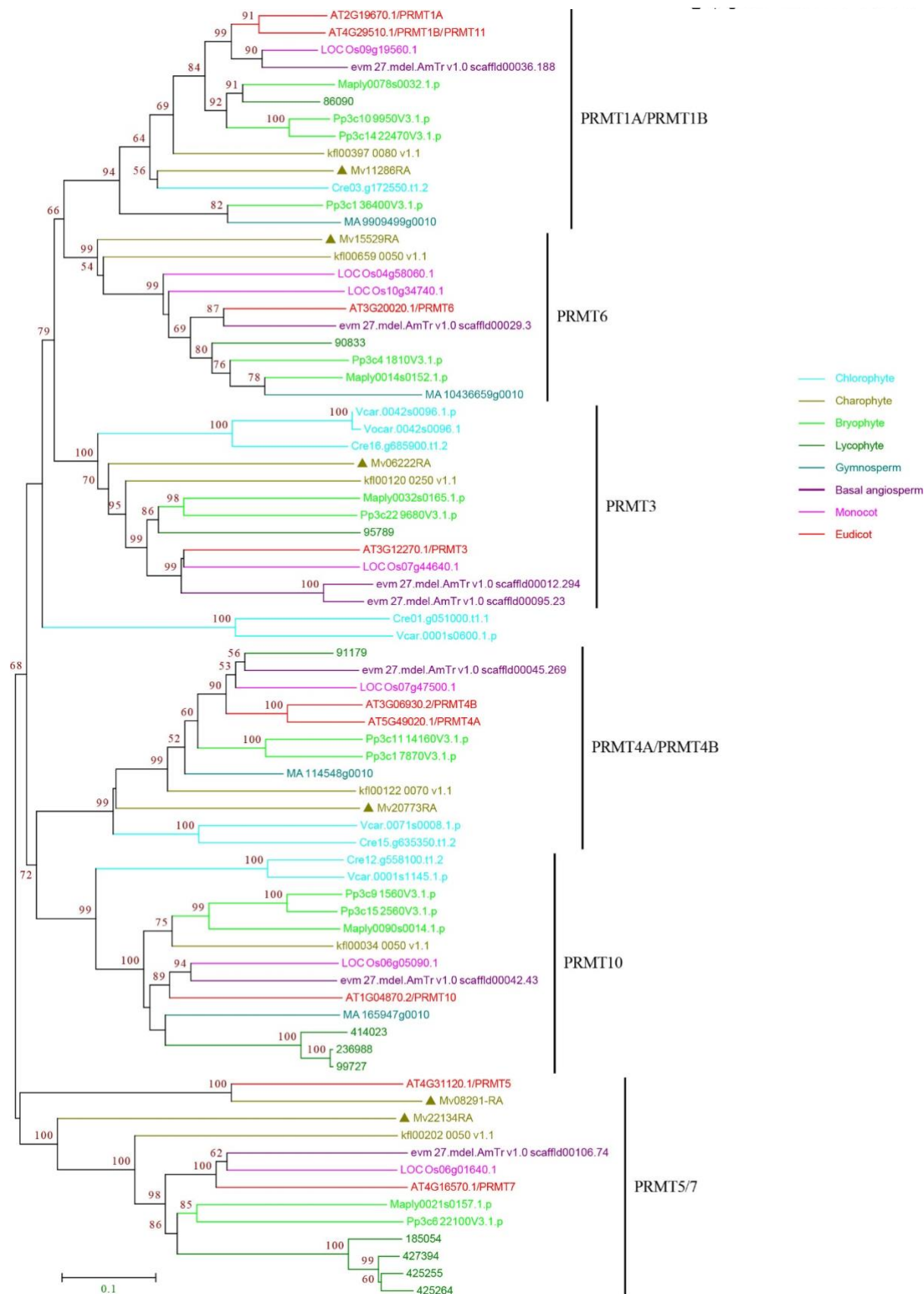
Data S1AA. Phylogenetic relationships of HISTONE ACETYLTRANSFERASE OF THE GNAT FAMILY 1 (HAG1) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



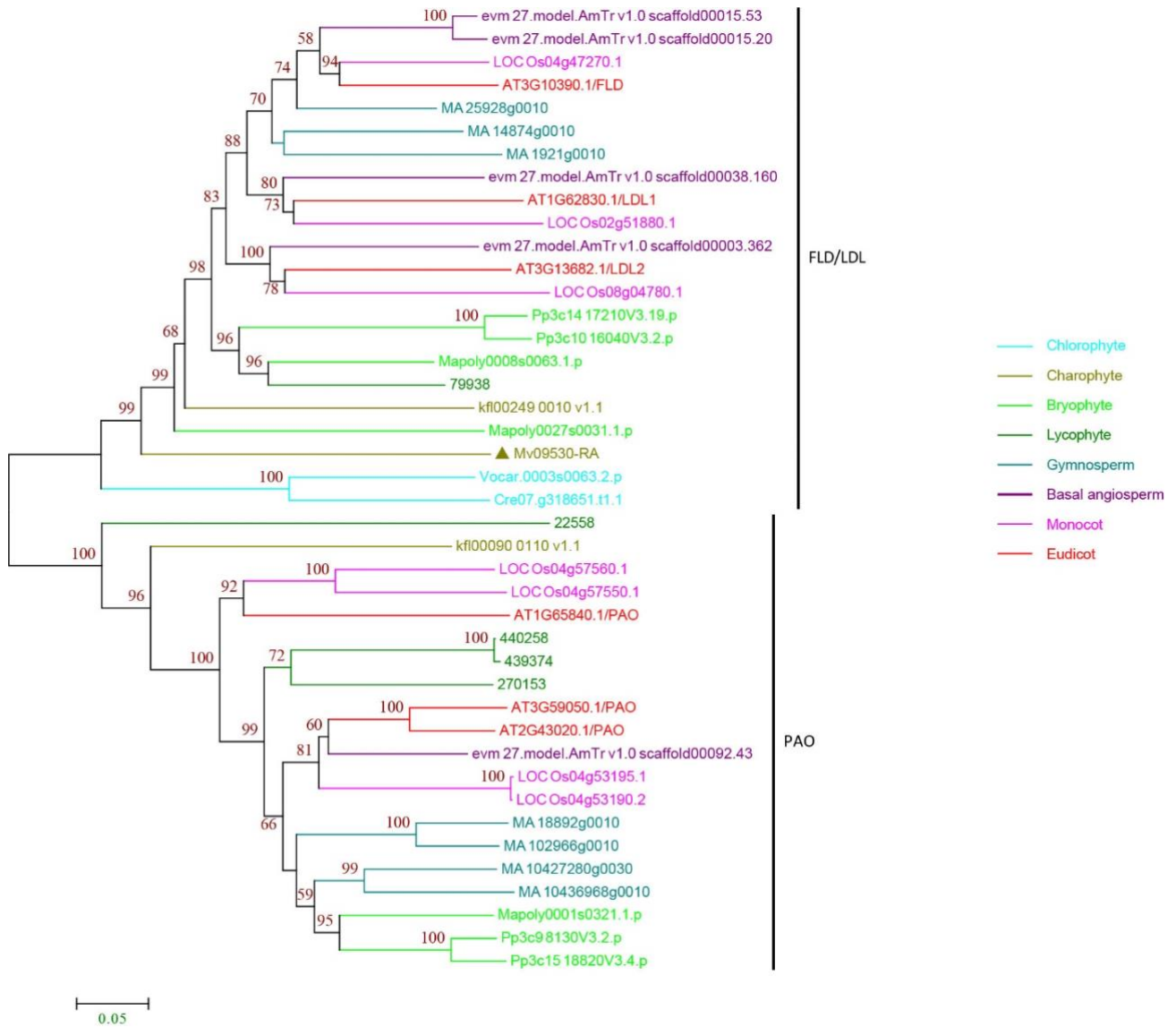
Data S1AC. Phylogenetic relationships of HISTONE MONO-UBIQUITINATION (HUB) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



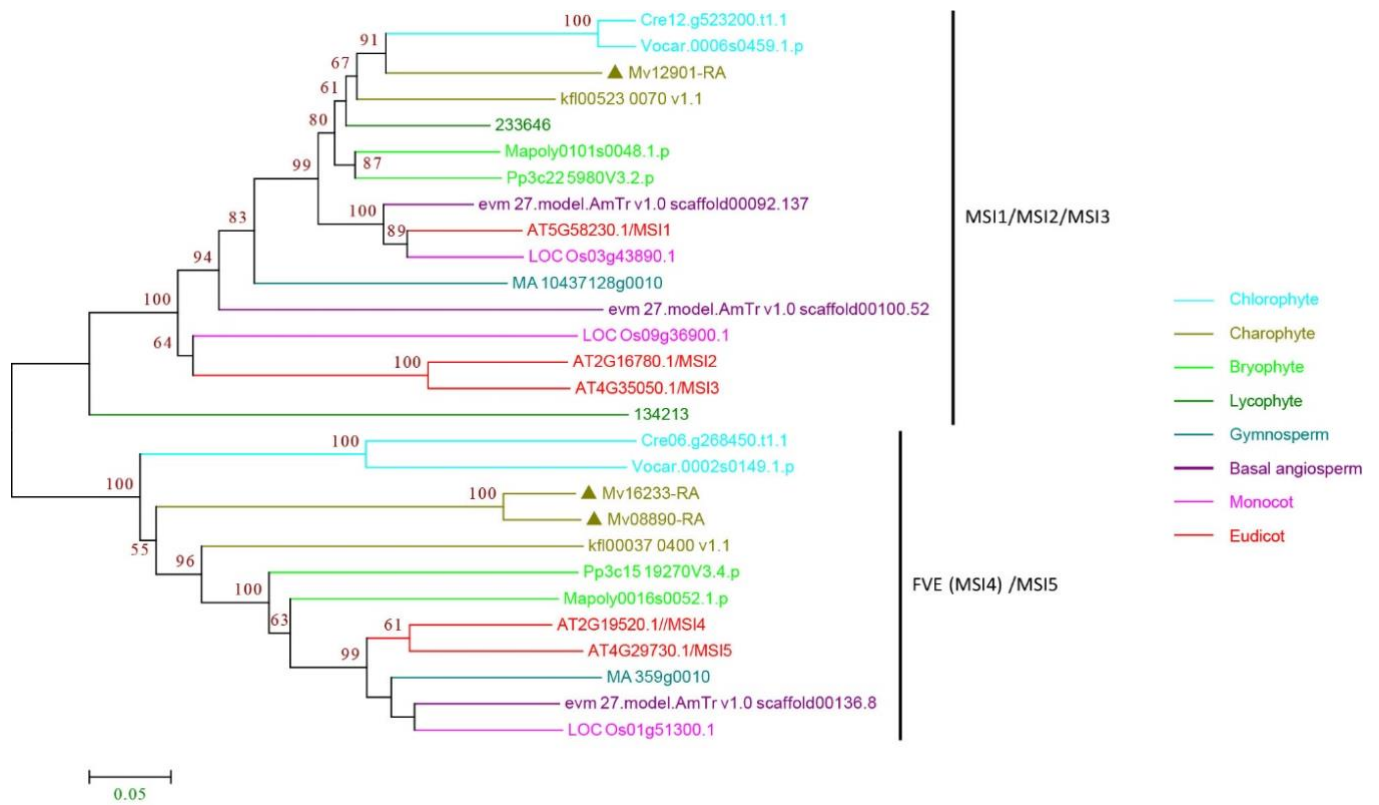
Data S1AD. Phylogenetic relationships of UBIQUITIN-SPECIFIC PROTEASE (also called SUP) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



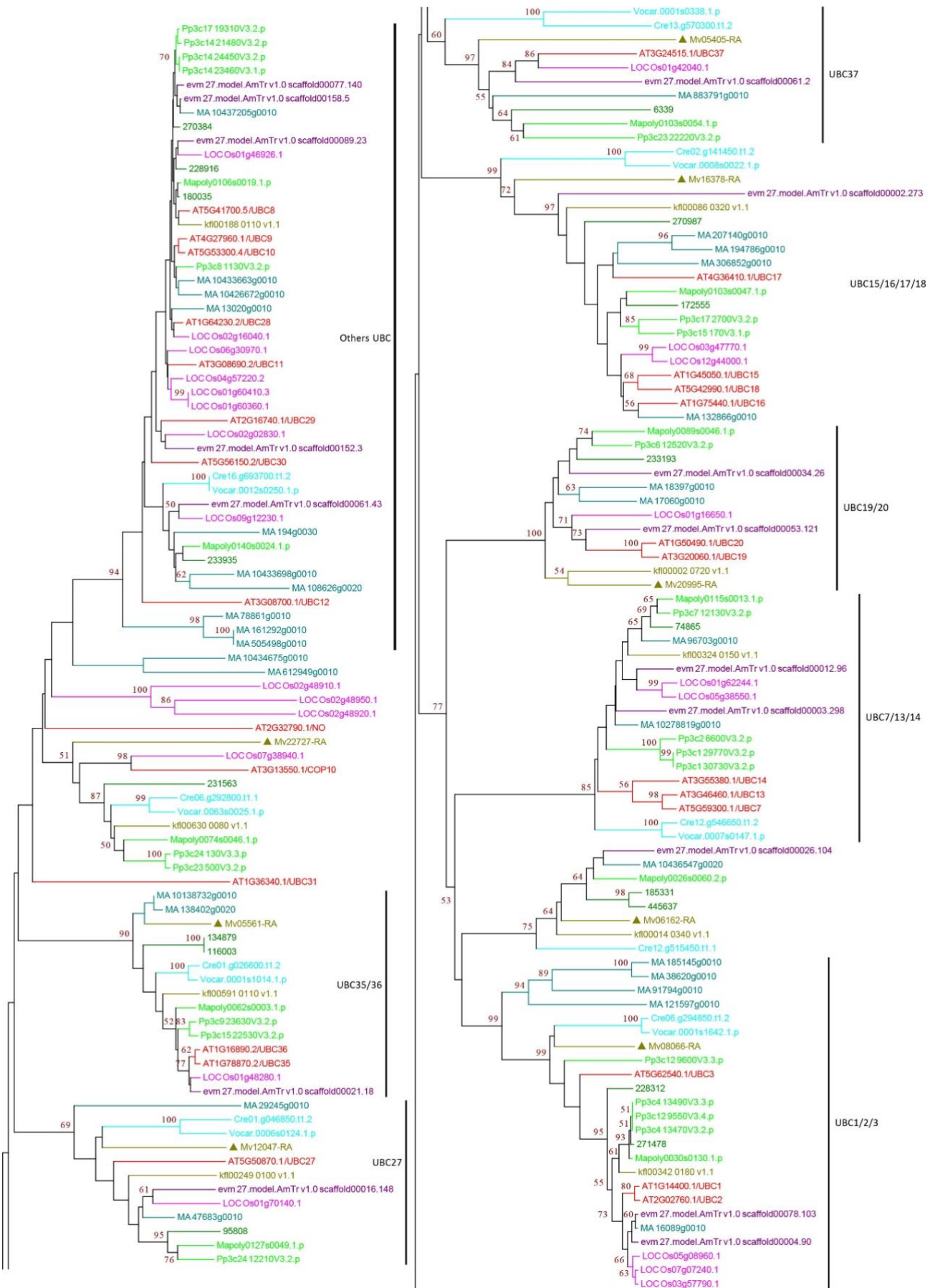
Data S1AE. Phylogenetic relationships of PROTEIN ARGININE METHYLTRANSFERASE (PRMT) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.

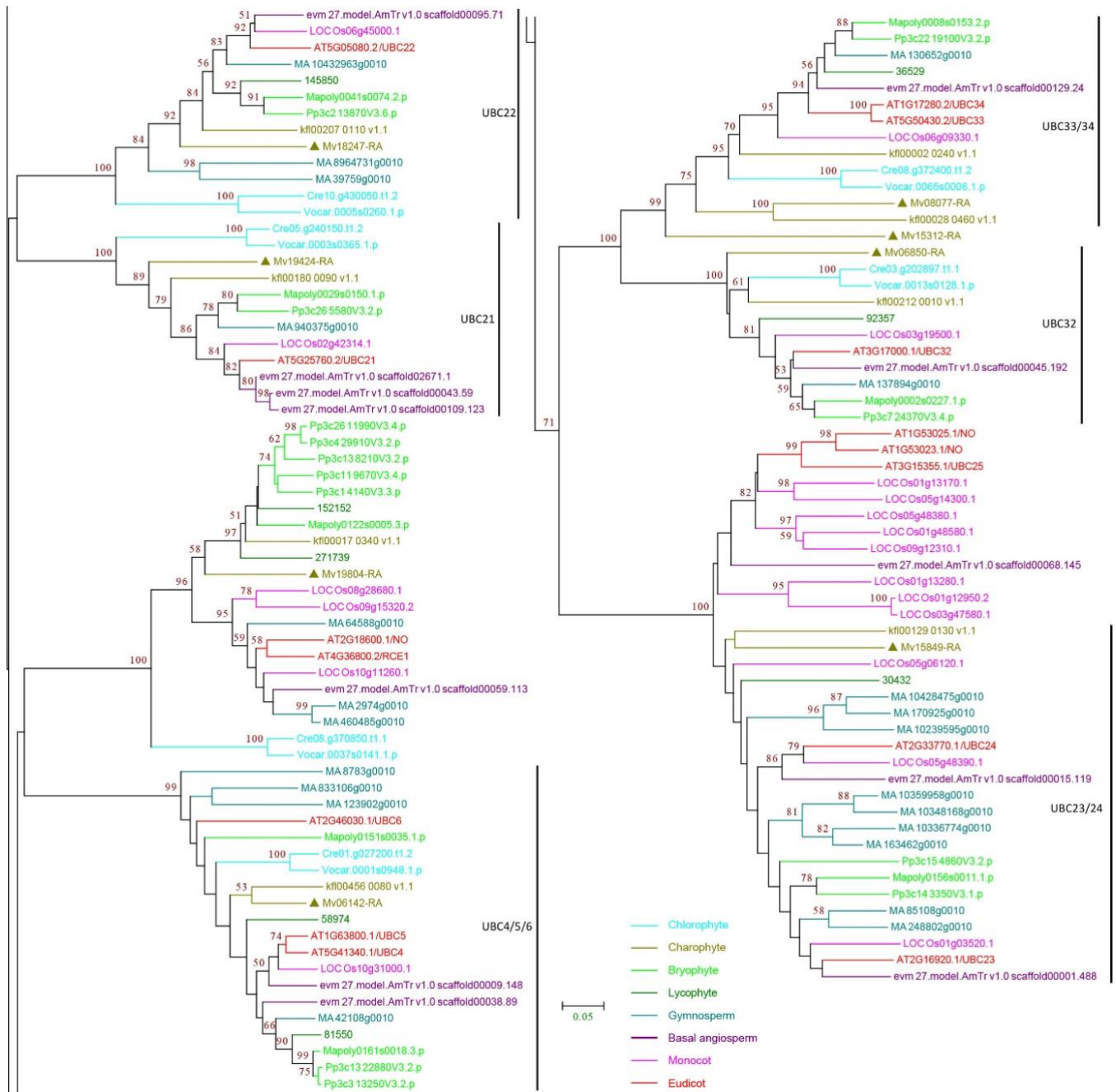


Data S1AF. Phylogenetic relationships of FLOWERING LOCUS D (FLD) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.

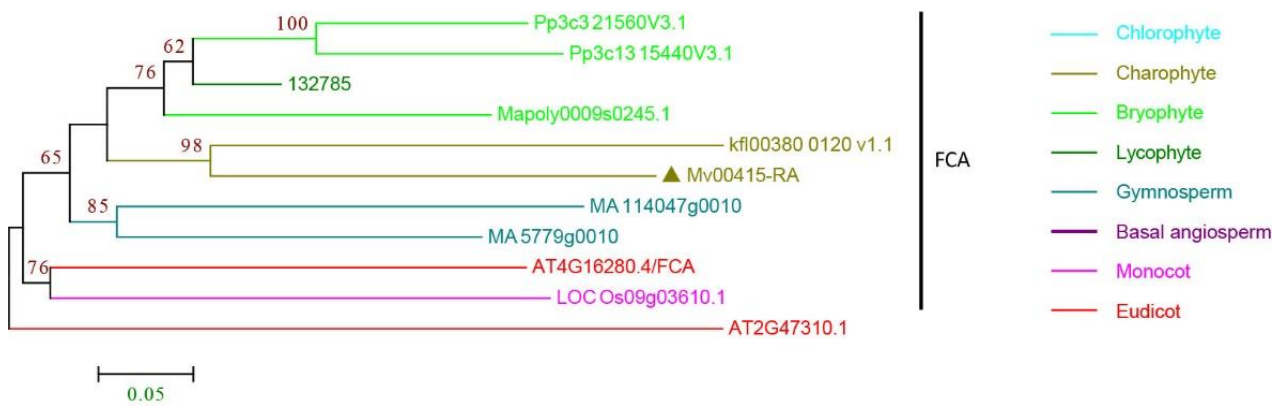


Data S1AG. Phylogenetic relationships of MULTICOPY SUPPRESSOR OF IRA (MSI) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.

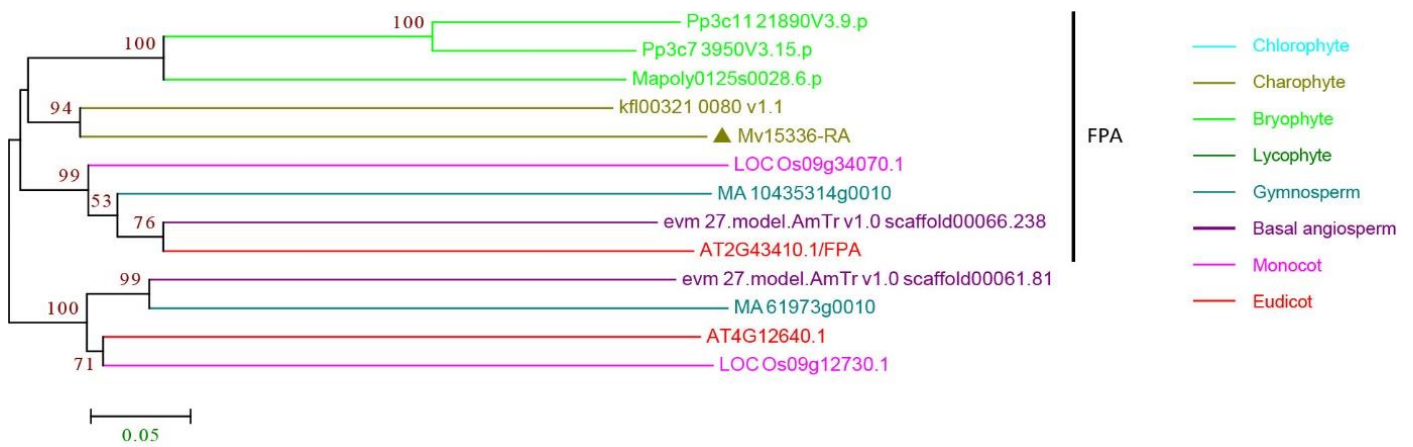




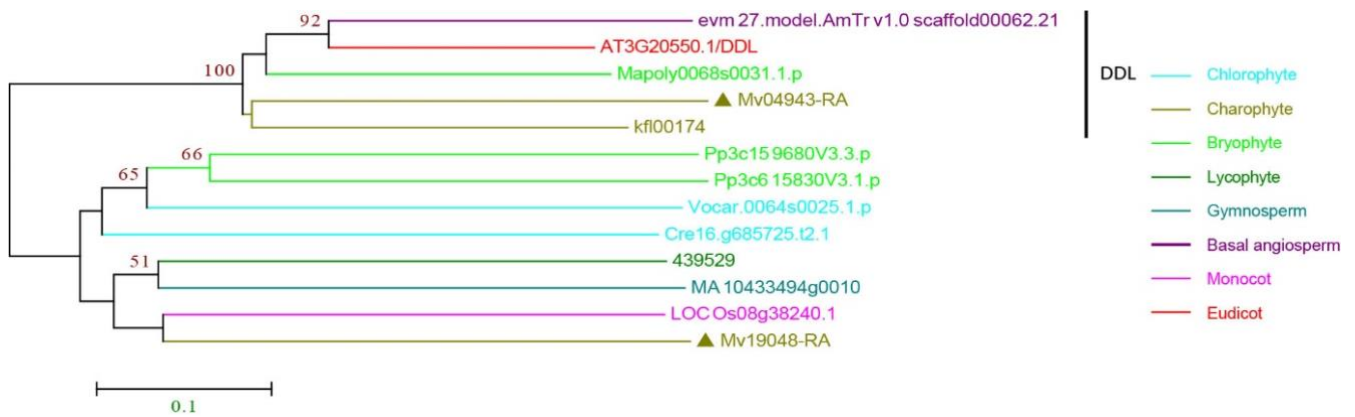
Data S1AH. Phylogenetic relationships of UBIQUITIN-CONJUGATING ENZYME (UBC) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



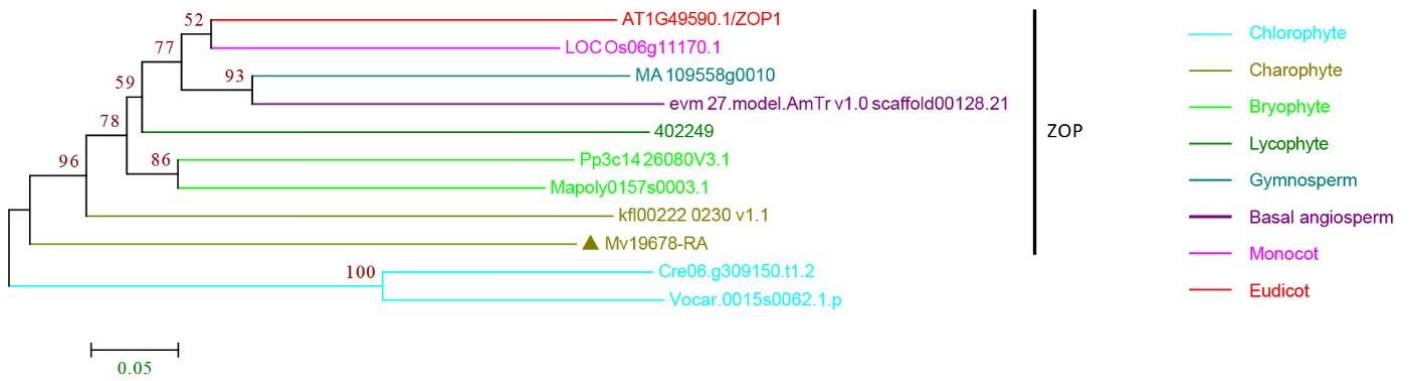
Data S1AI. Phylogenetic relationships of FLOWERING CONTROL LOCUS A (FCA) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



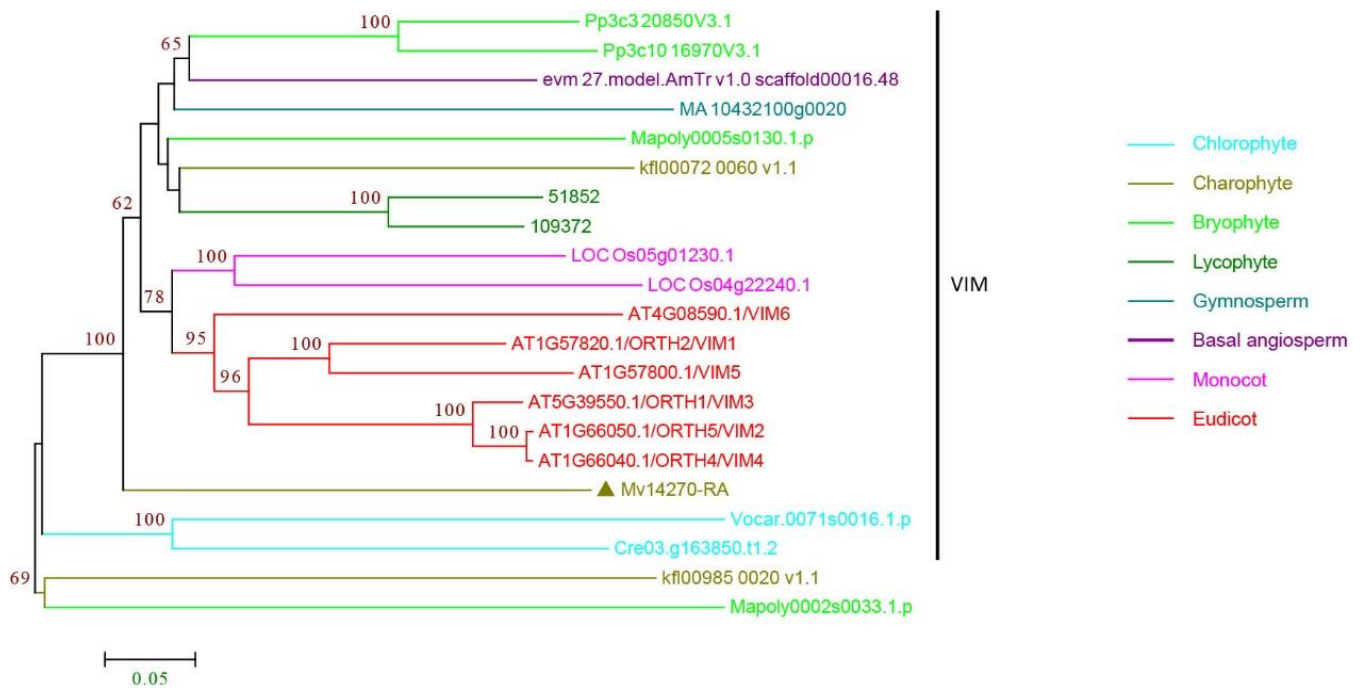
Data S1AJ. Phylogenetic relationships of FPA proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



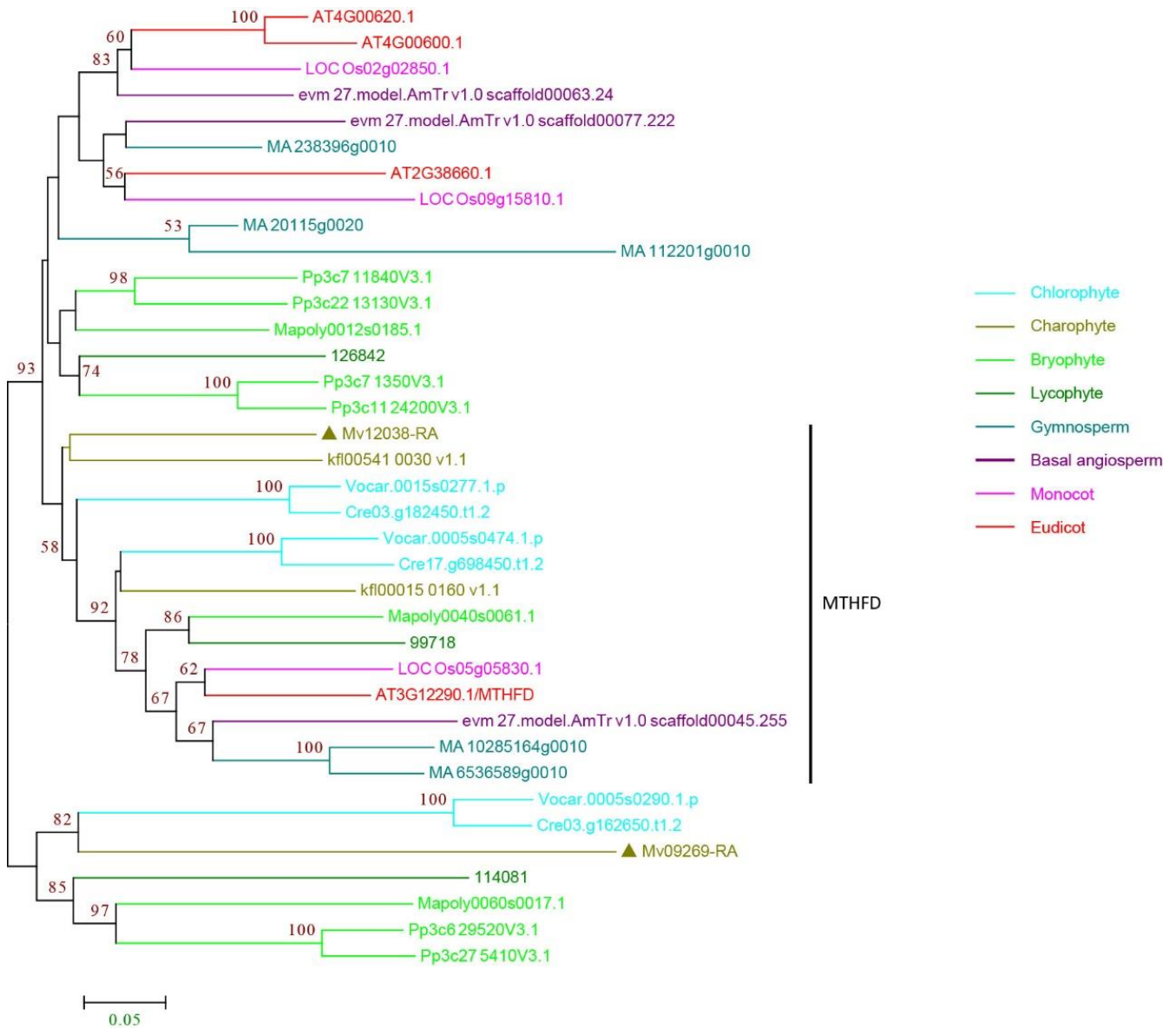
Data S1AK. Phylogenetic relationships of DAWDLE (DDL) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



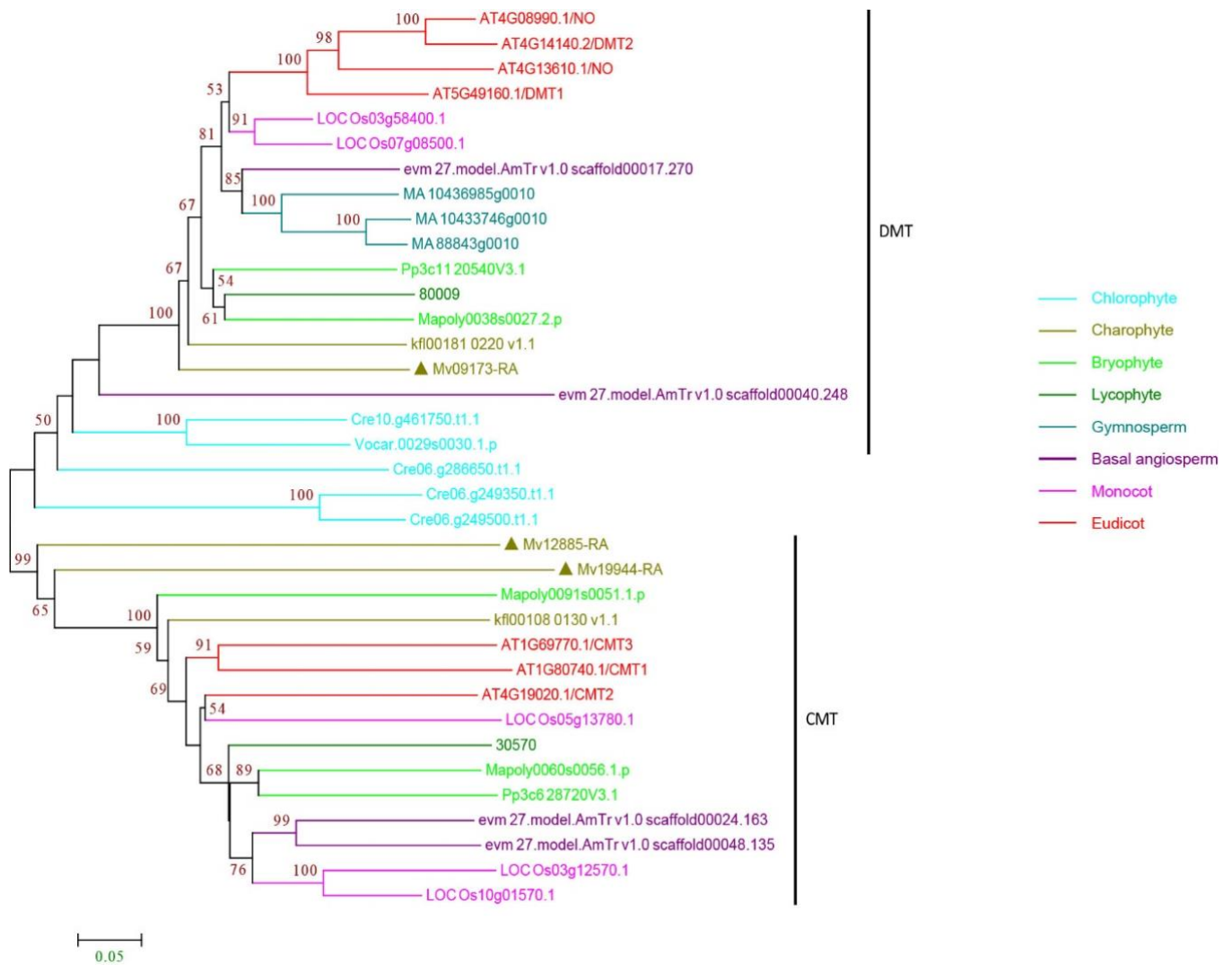
Data S1AL. Phylogenetic relationships of ZINC-FINGER AND OCRE DOMAIN-CONTAINING PROTEIN 1 (ZOP1) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



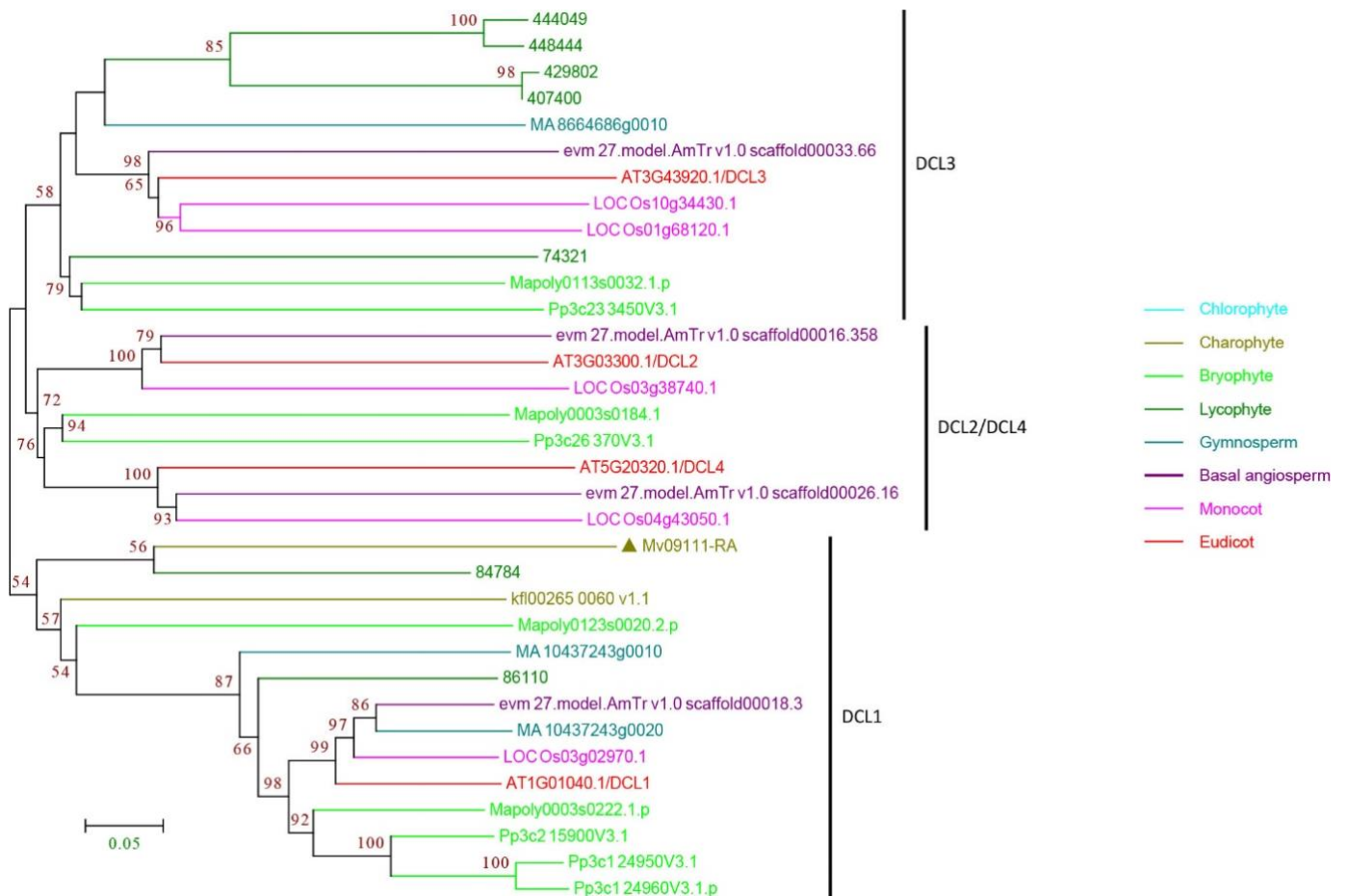
Data S1AM. Phylogenetic relationships of VARIANT IN METHYLATION (VIM) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



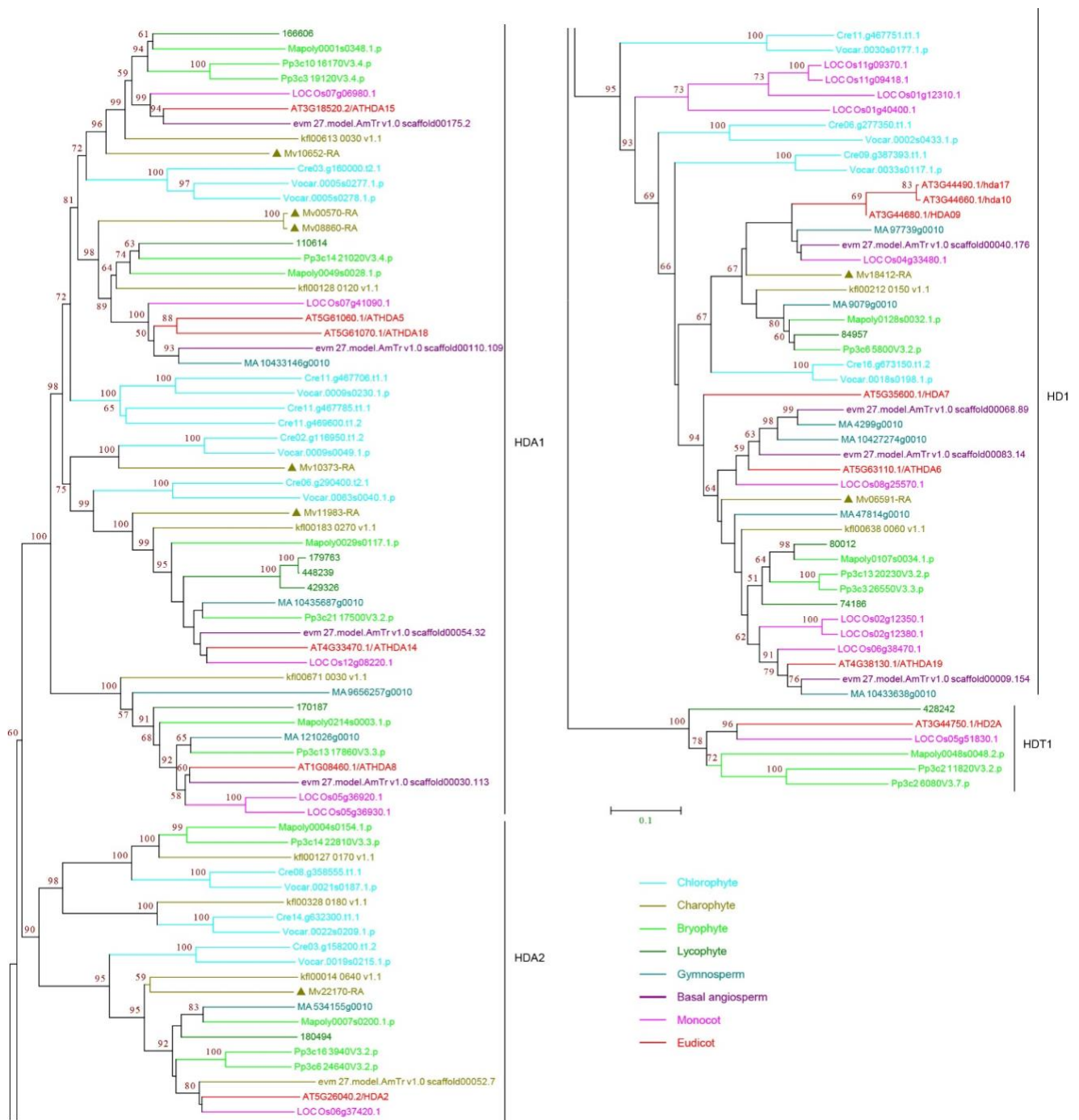
Data S1AO. Phylogenetic relationships of METHYLENETETRAHYDROFOLATE DEHYDROGENASE (MTHFD) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



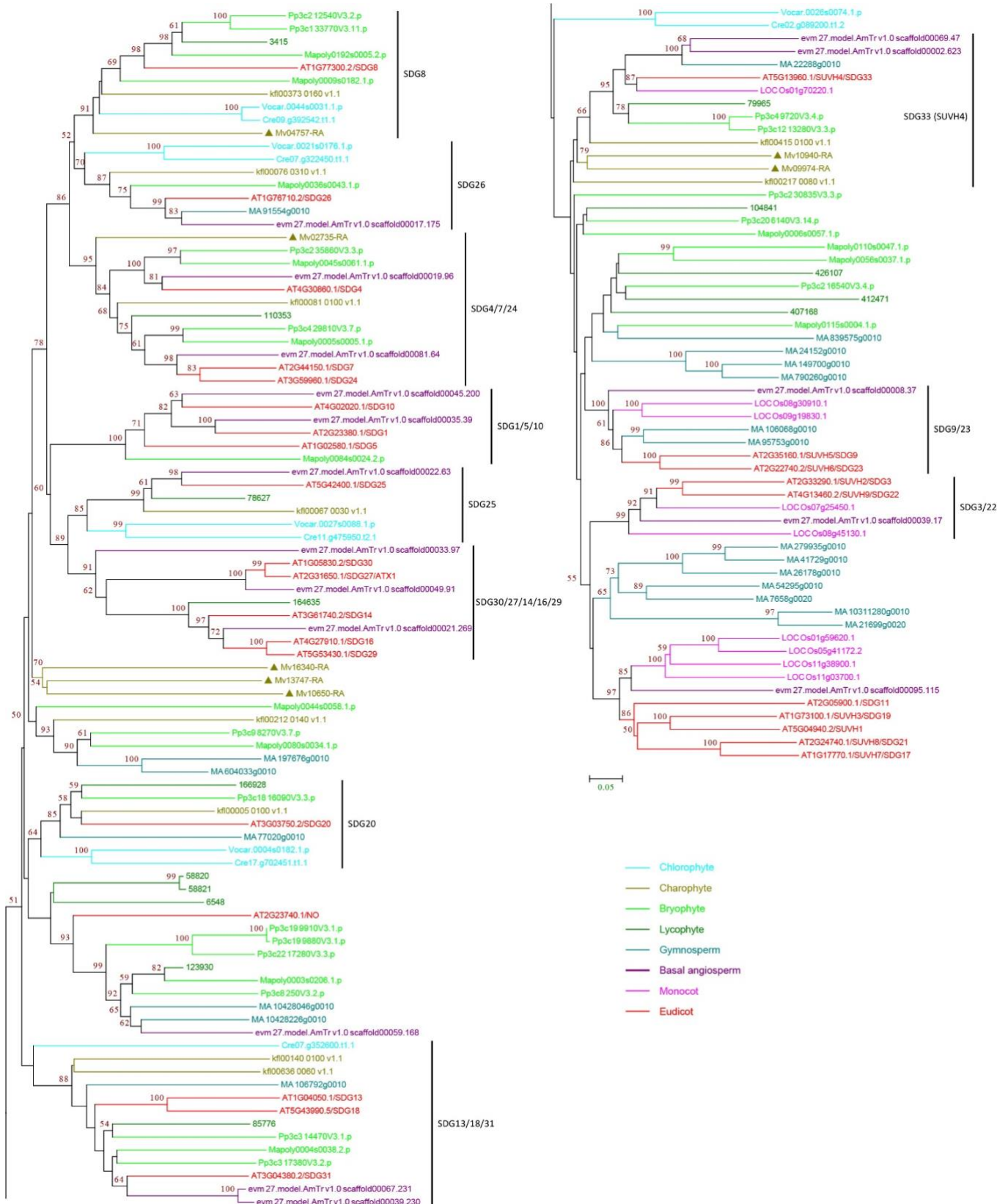
Data S1AP. Phylogenetic relationships of CHROMOMETHYLASE/DNA METHYLTRANSFERASE (CMT/DMT) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



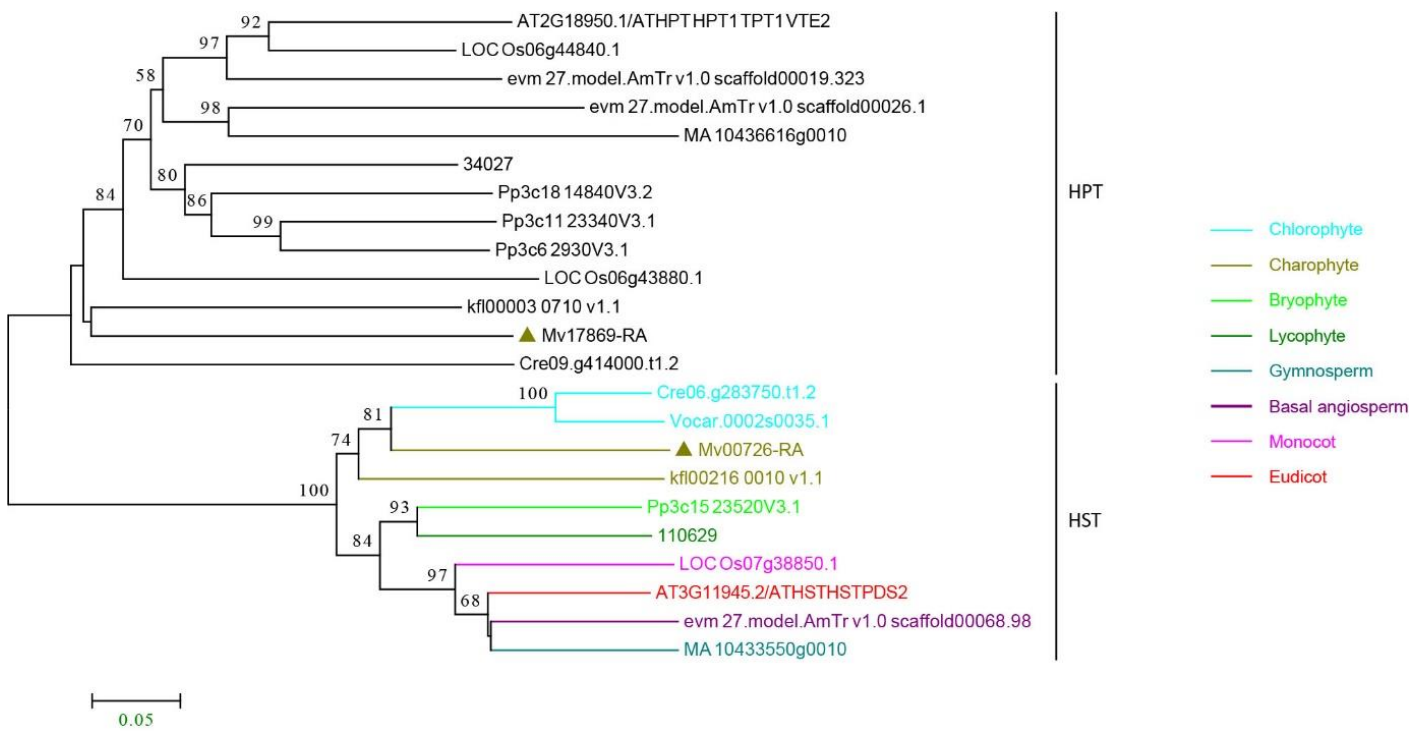
Data S1AQ. Phylogenetic relationships of DICER-LIKE (DCL) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



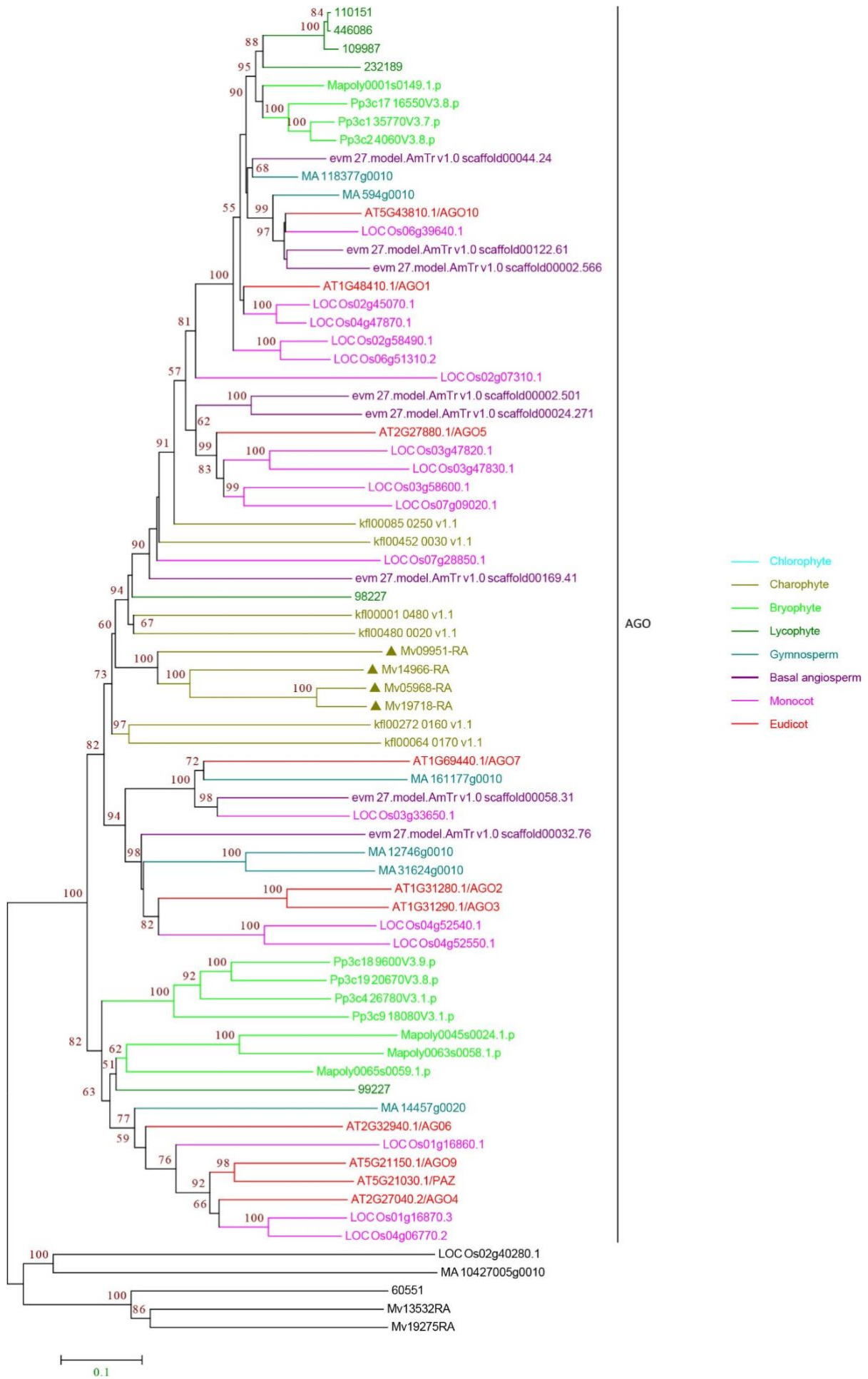
Data S1AR. Phylogenetic relationships of HISTONE DEACETYLASE (HD) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



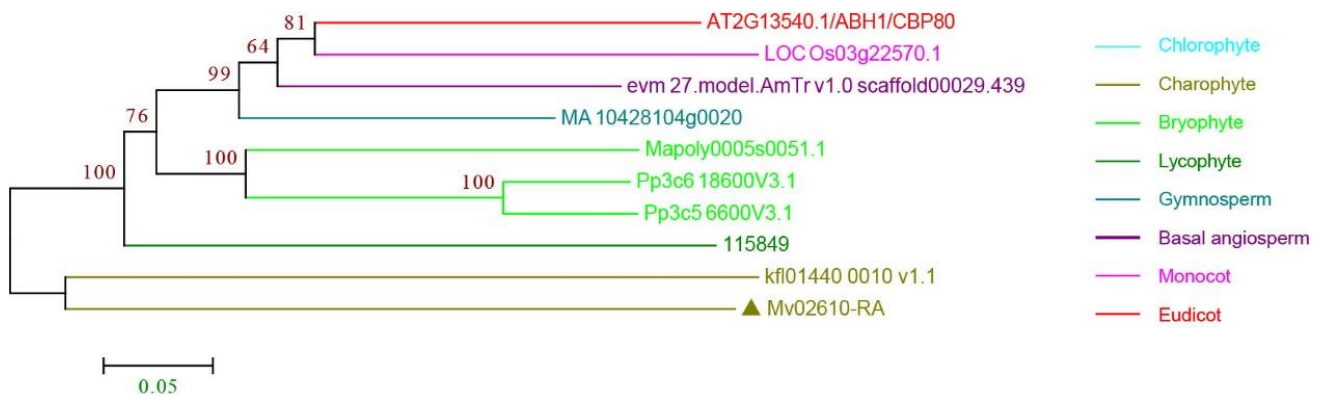
Data S1AS. Phylogenetic relationships of SET DOMAIN PROTEIN (SDG) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



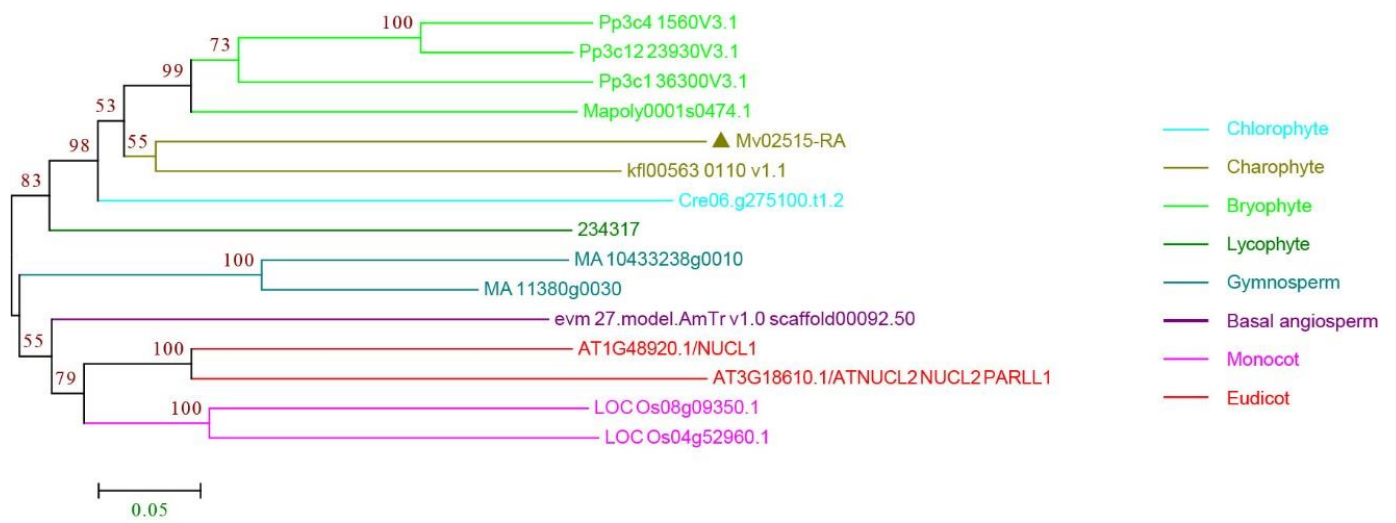
Data S1AT. Phylogenetic relationships of HOMOGENITISATE PRENYLTRANSFERASE (HST) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



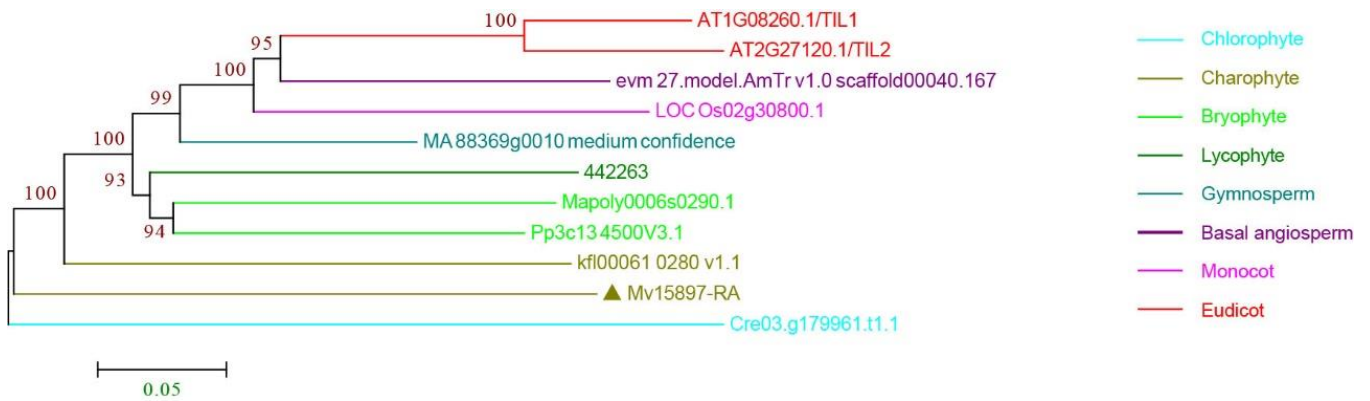
Data S1AU. Phylogenetic relationships of ARGONAUTE (AGO) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



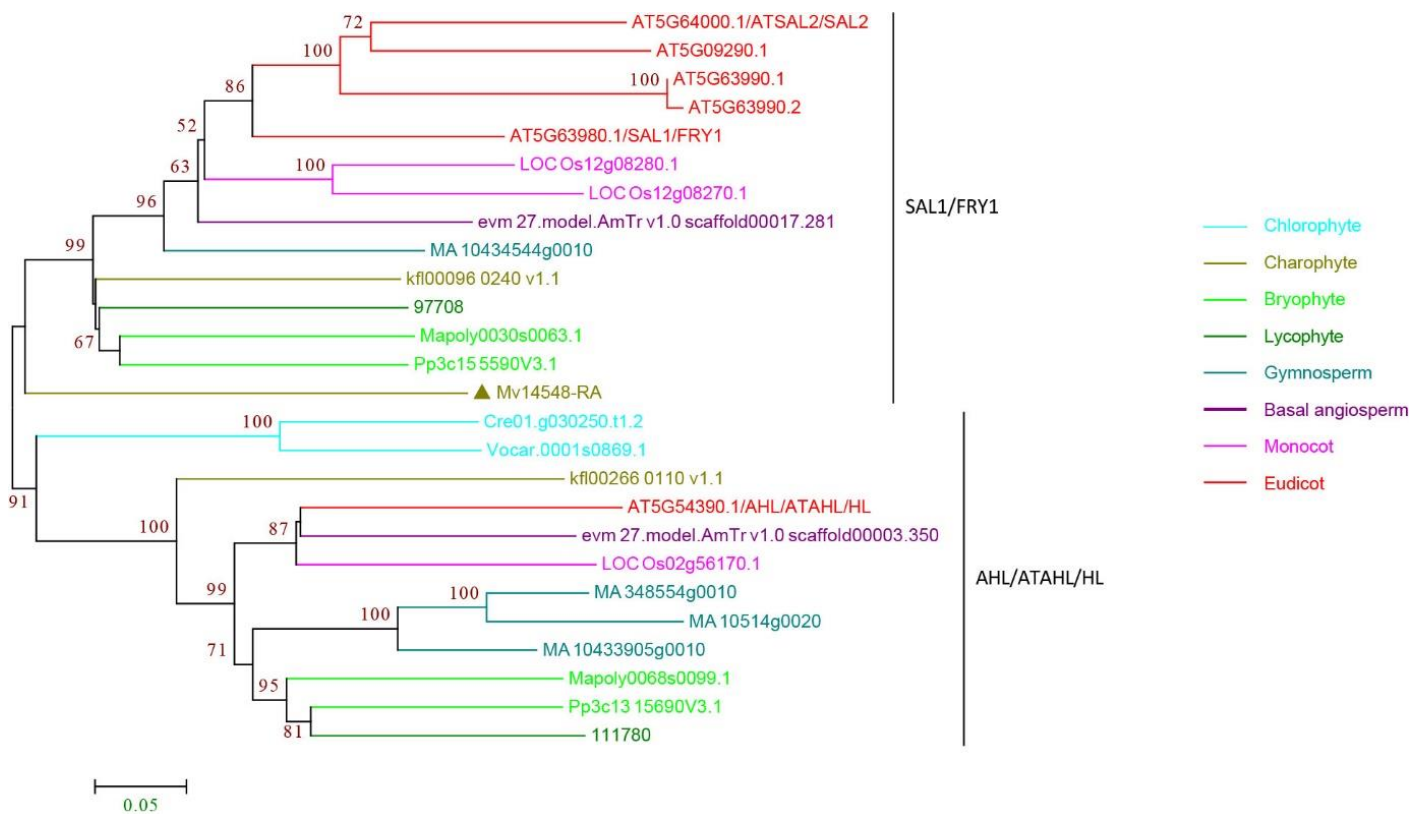
Data S1AV. Phylogenetic relationships of ABA HYPERSENSITIVE 1 (ABH1) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



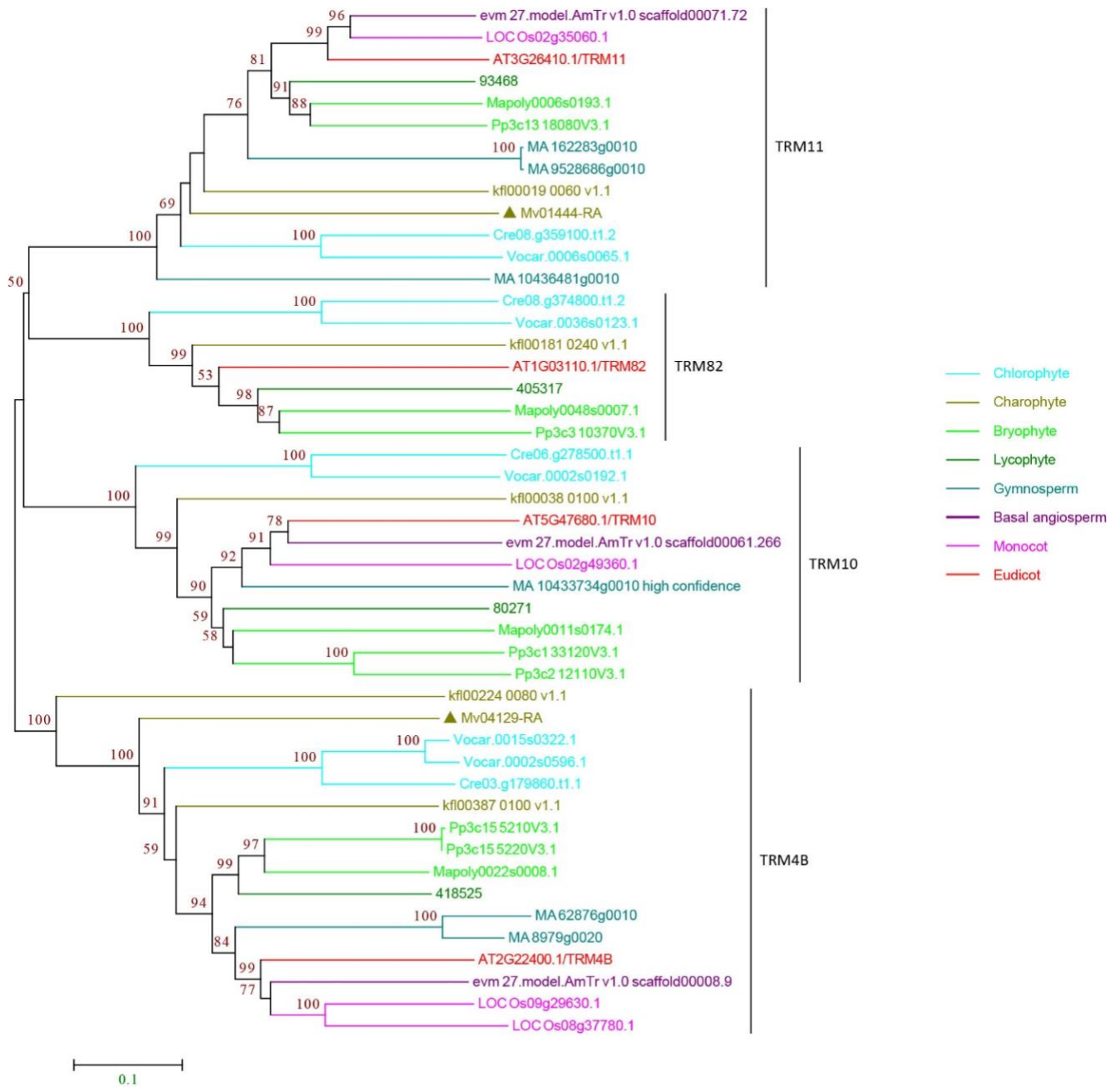
Data S1AW. Phylogenetic relationships of NUCLEOLIN-LIKE (NUCL) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



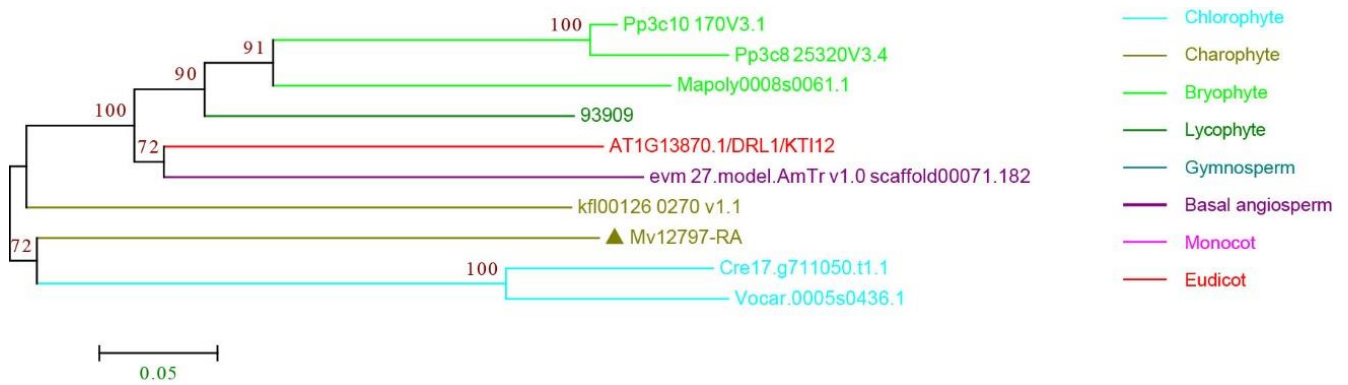
Data S1AX. Phylogenetic relationships of EARLY IN SHORT DAYS 7 (ESD7 or TIL) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



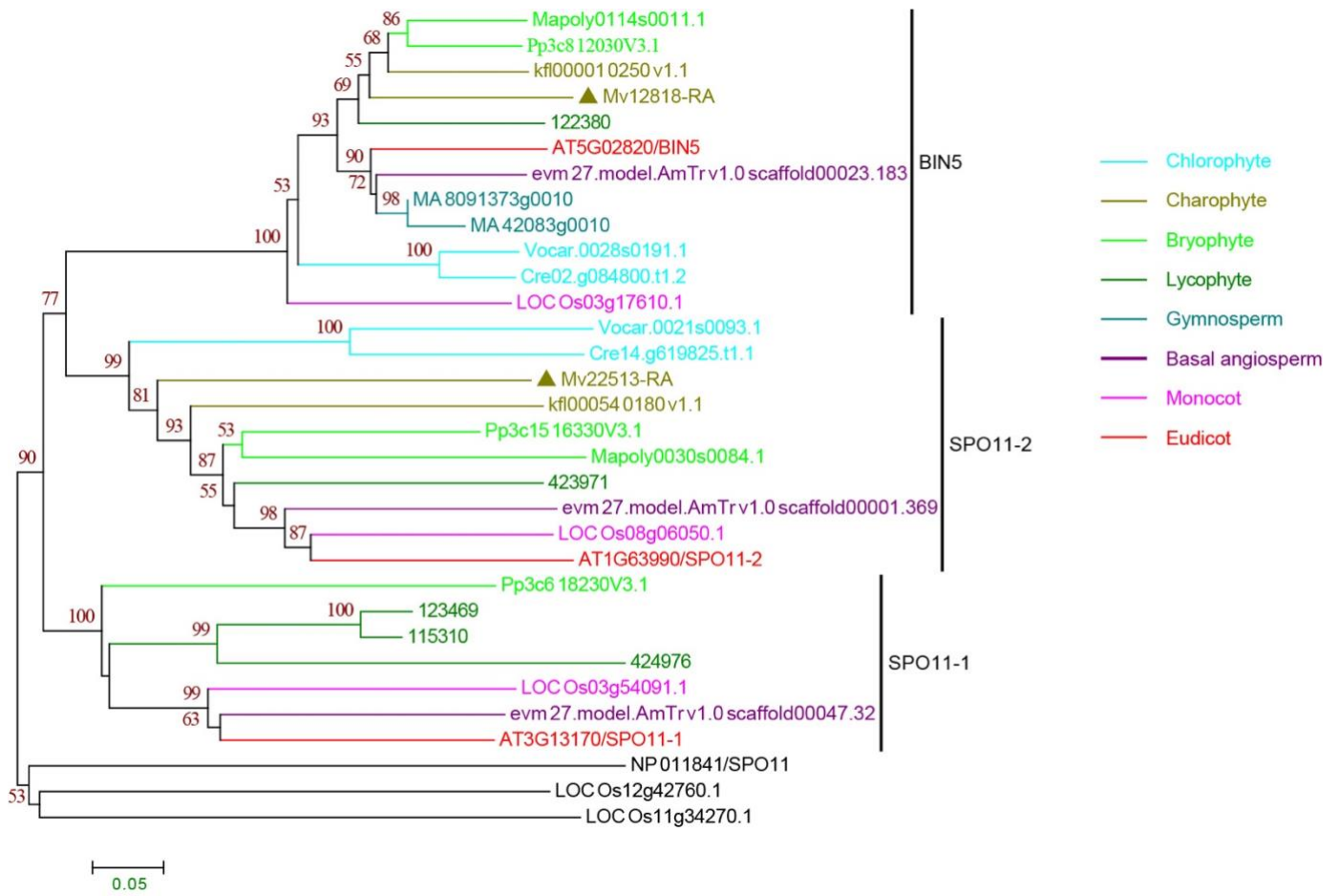
Data S1AY. Phylogenetic relationships of SAL1 proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



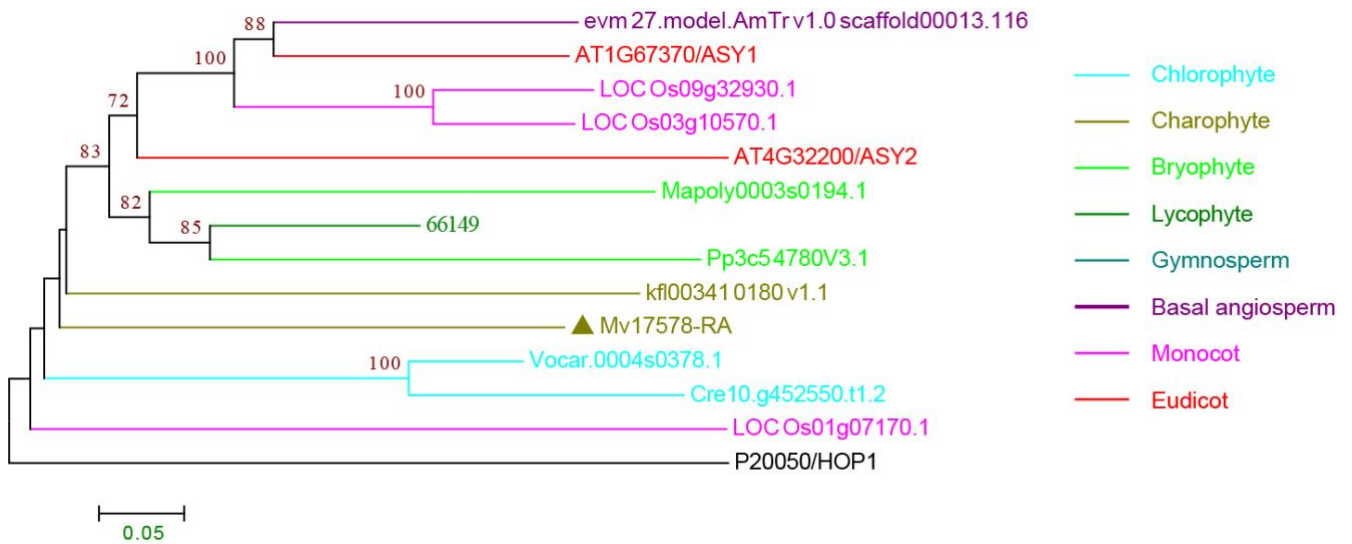
Data S1AZ. Phylogenetic relationships of TRNA MODIFICATION (TRM) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



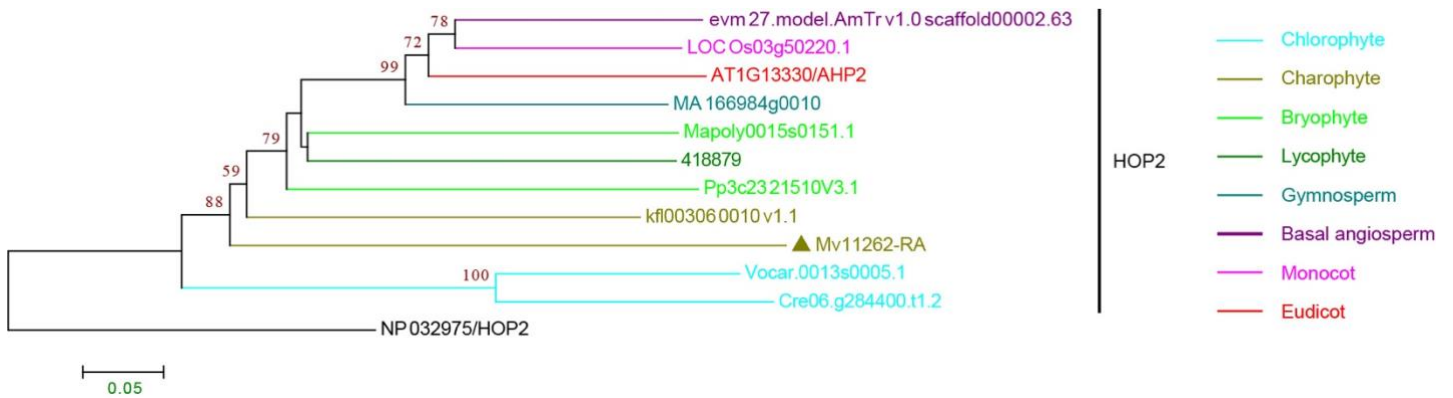
Data S1BA. Phylogenetic relationships of DEFORMED ROOTS AND LEAVES 1 (DRL1) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



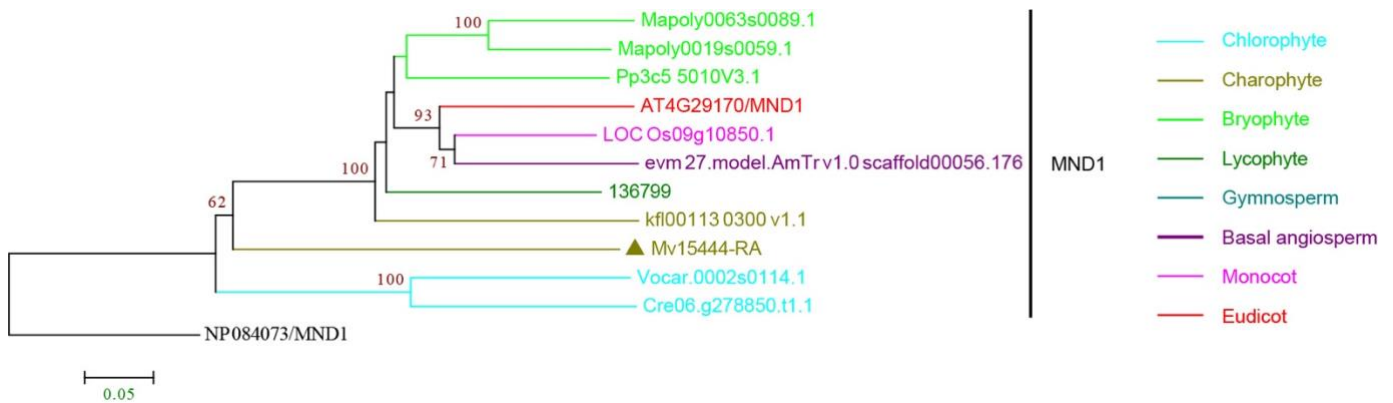
Data S1BB. Phylogenetic relationships of SPO11 proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



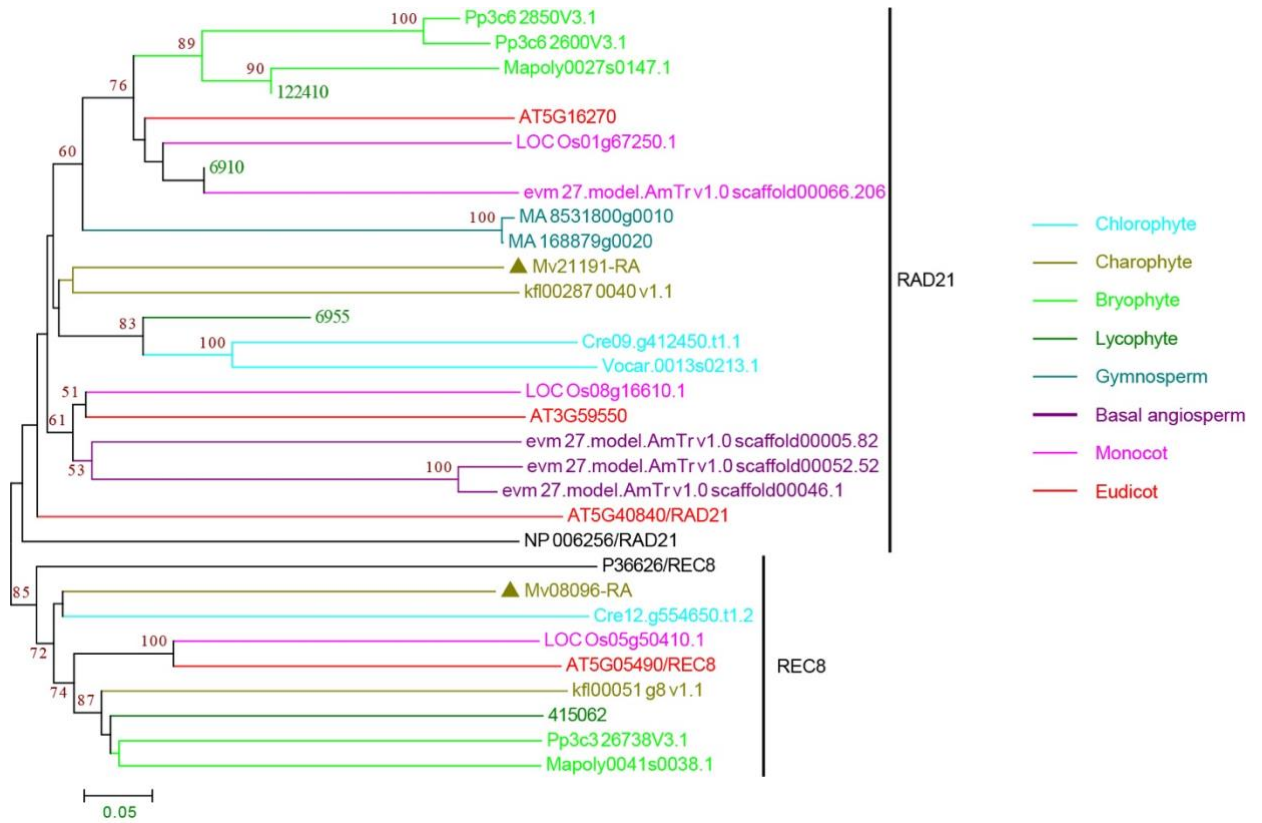
Data S1BC. Phylogenetic relationships of HOP1 proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



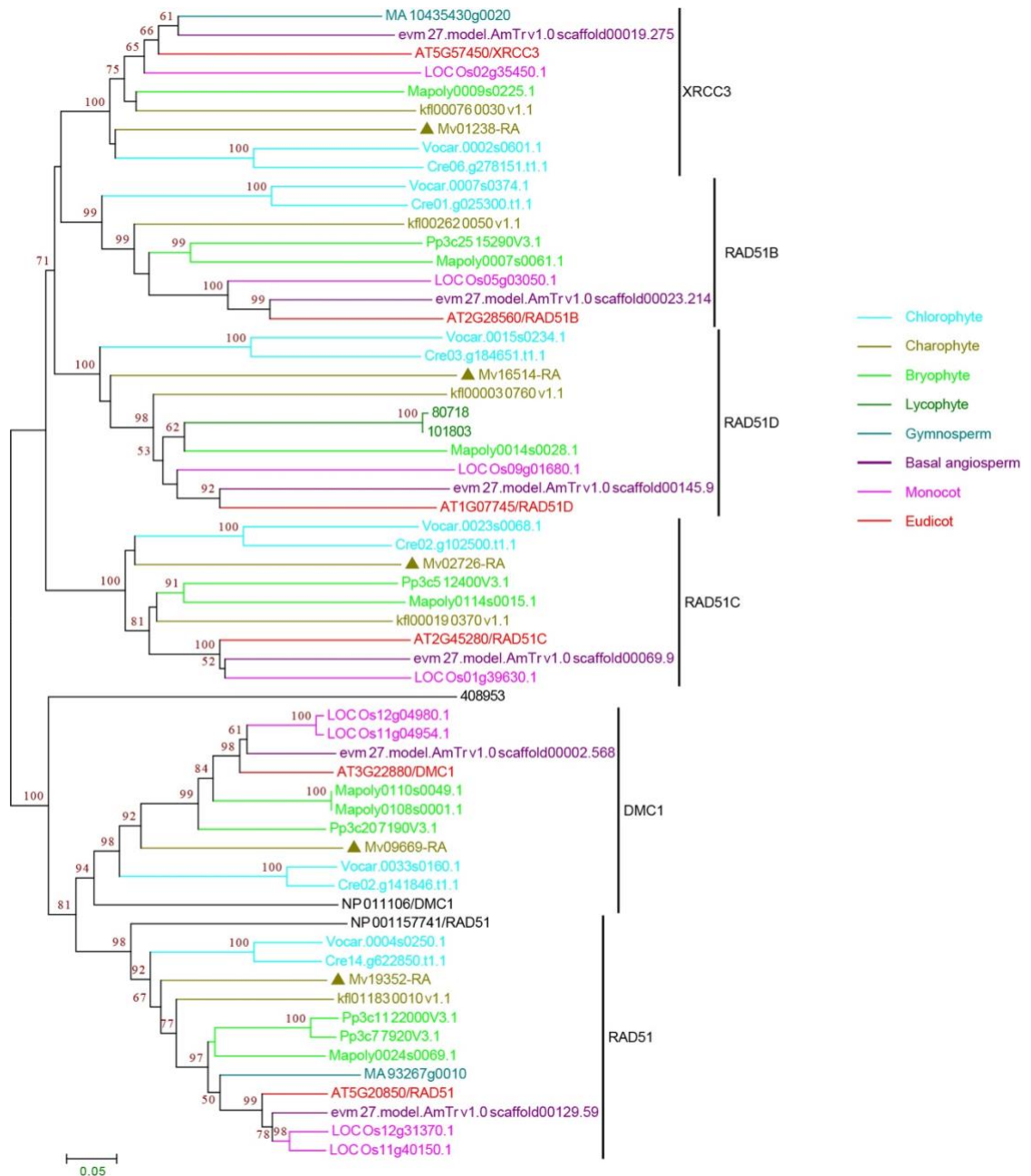
Data S1BD. Phylogenetic relationships of HOP2 proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



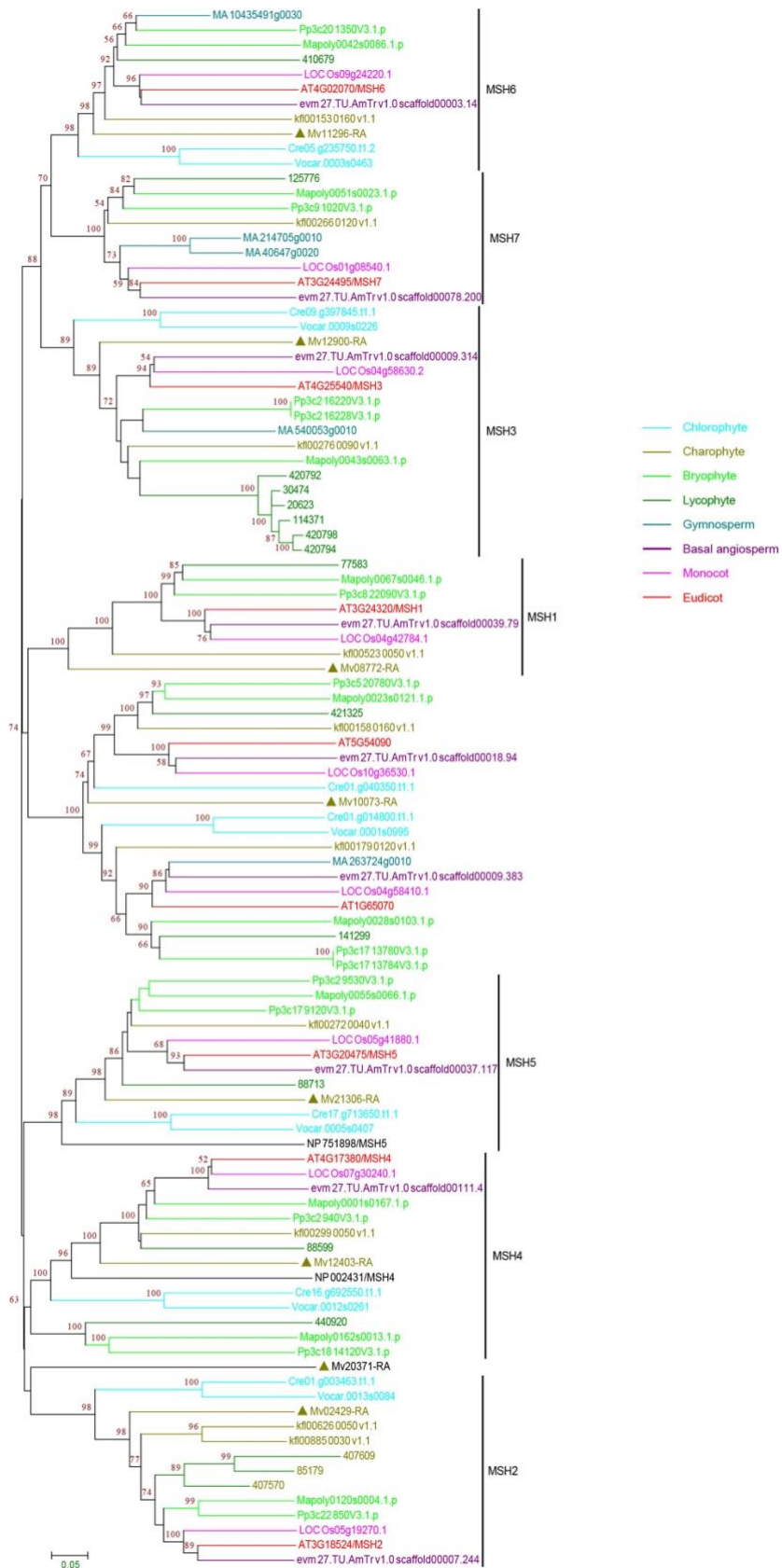
Data S1BE. Phylogenetic relationships of meiotic nuclear division protein 1 (MND1) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



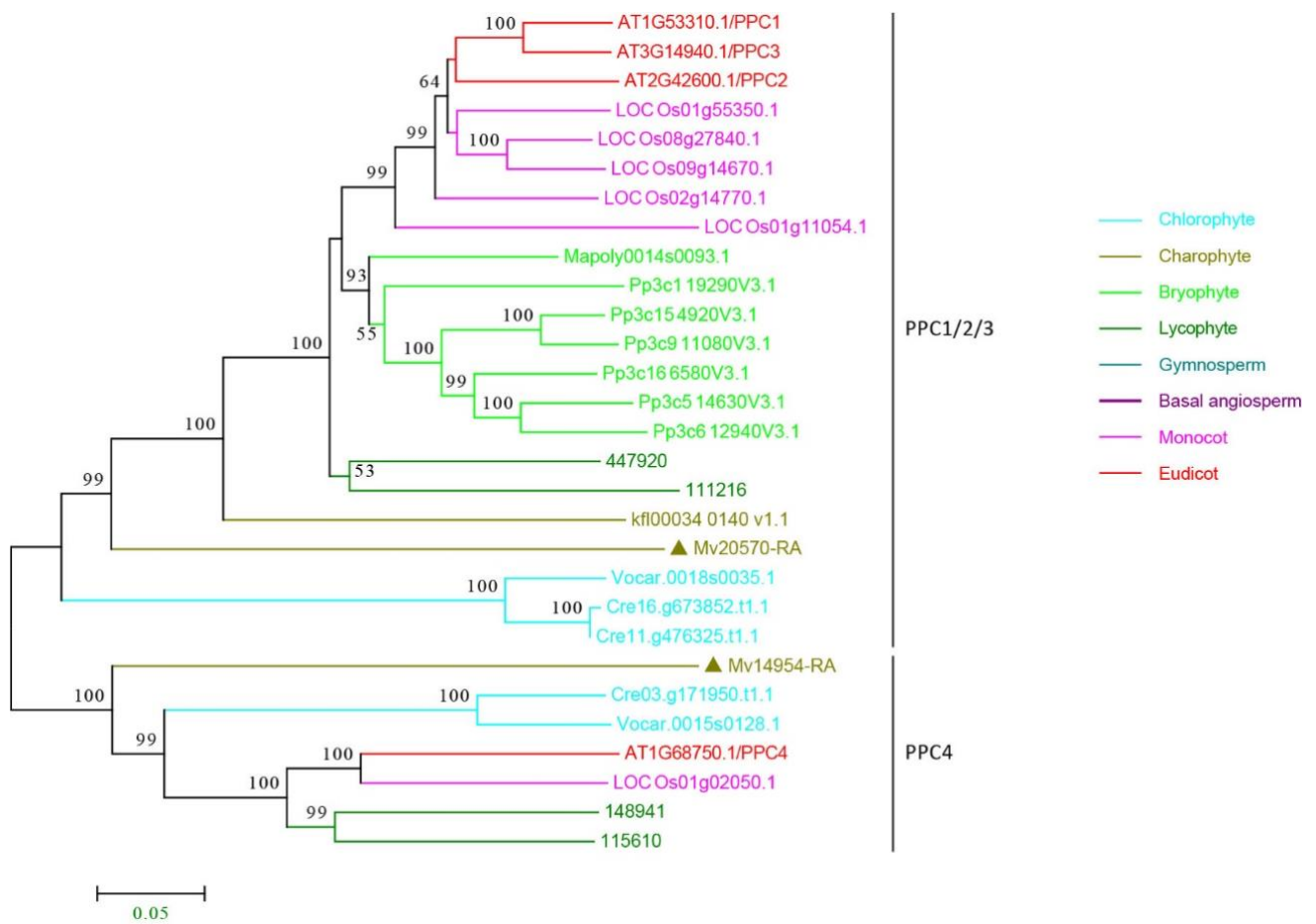
Data S1BF. Phylogenetic relationships of REC8 proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



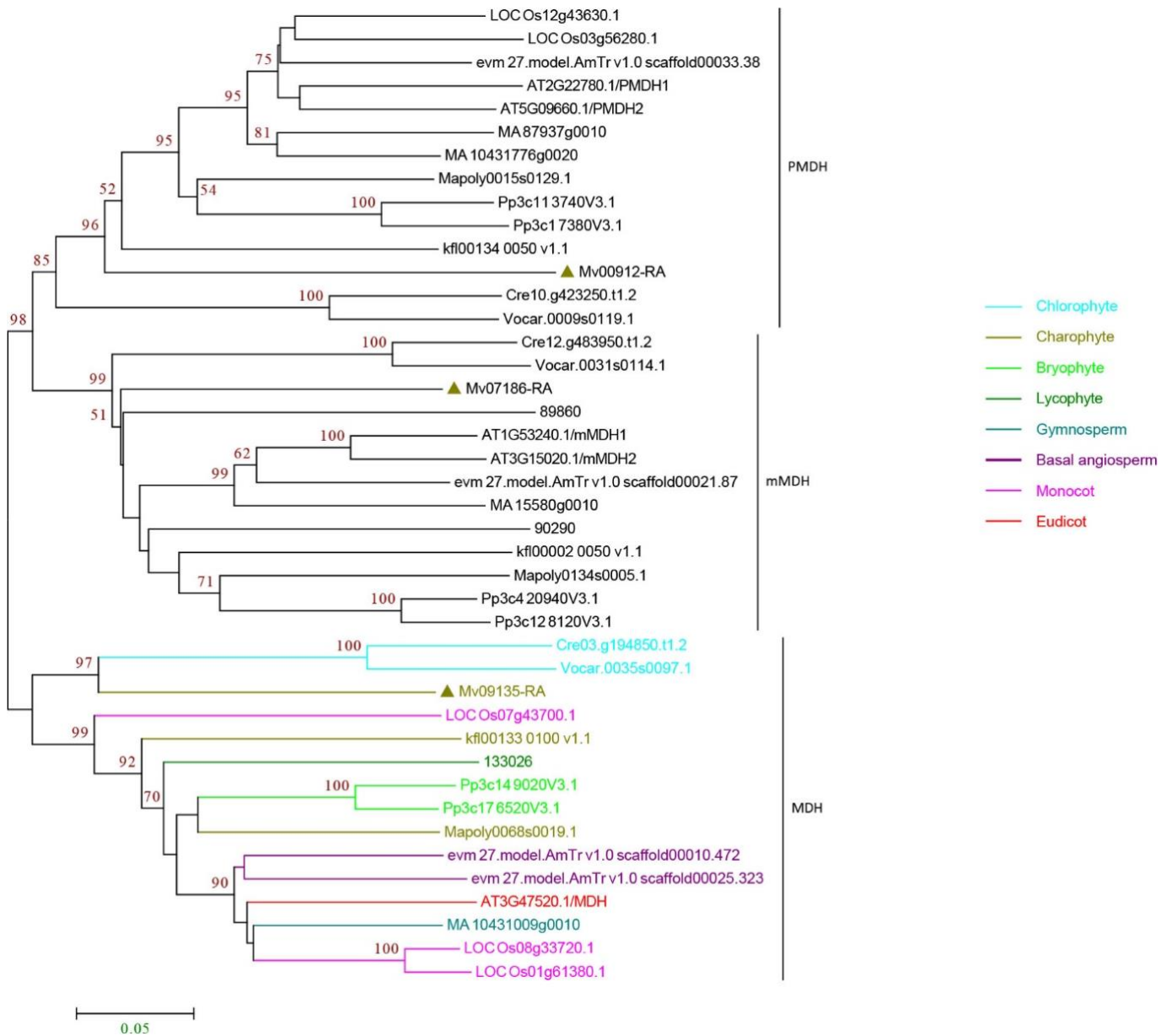
Data S1BG. Phylogenetic relationships of DMC1 proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



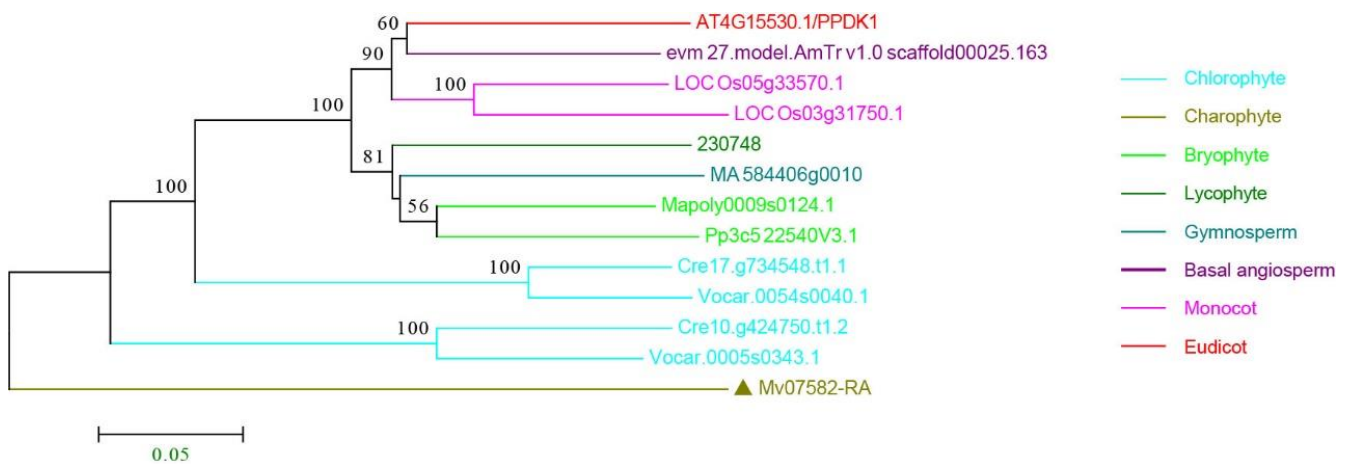
Data S1BH. Phylogenetic relationships of MutS protein homolog 4 (MSH4) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



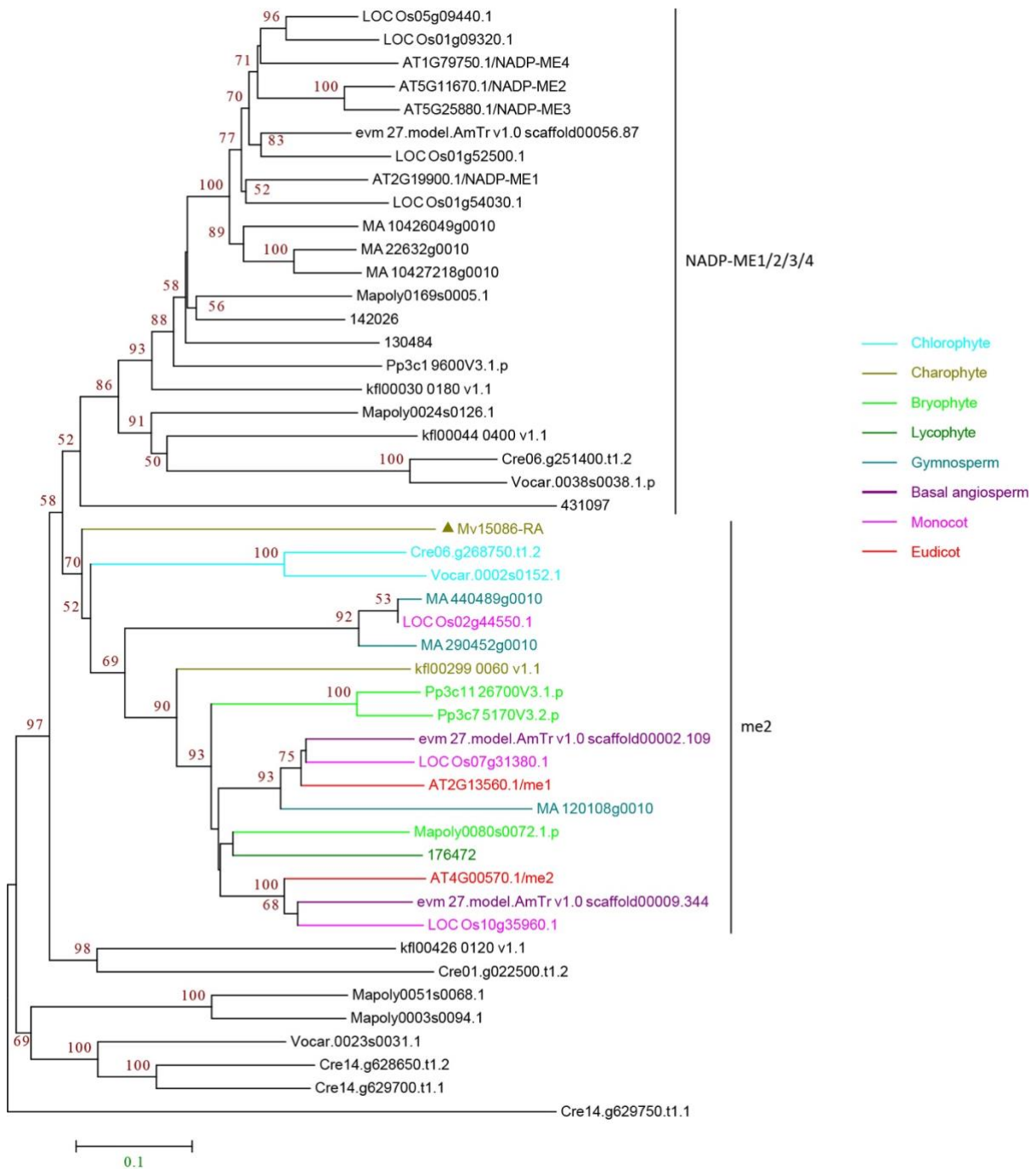
Data S1BI. Phylogenetic relationships of PHOSPHOENOLPYRUVATE CARBOXYLASE (PPC) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



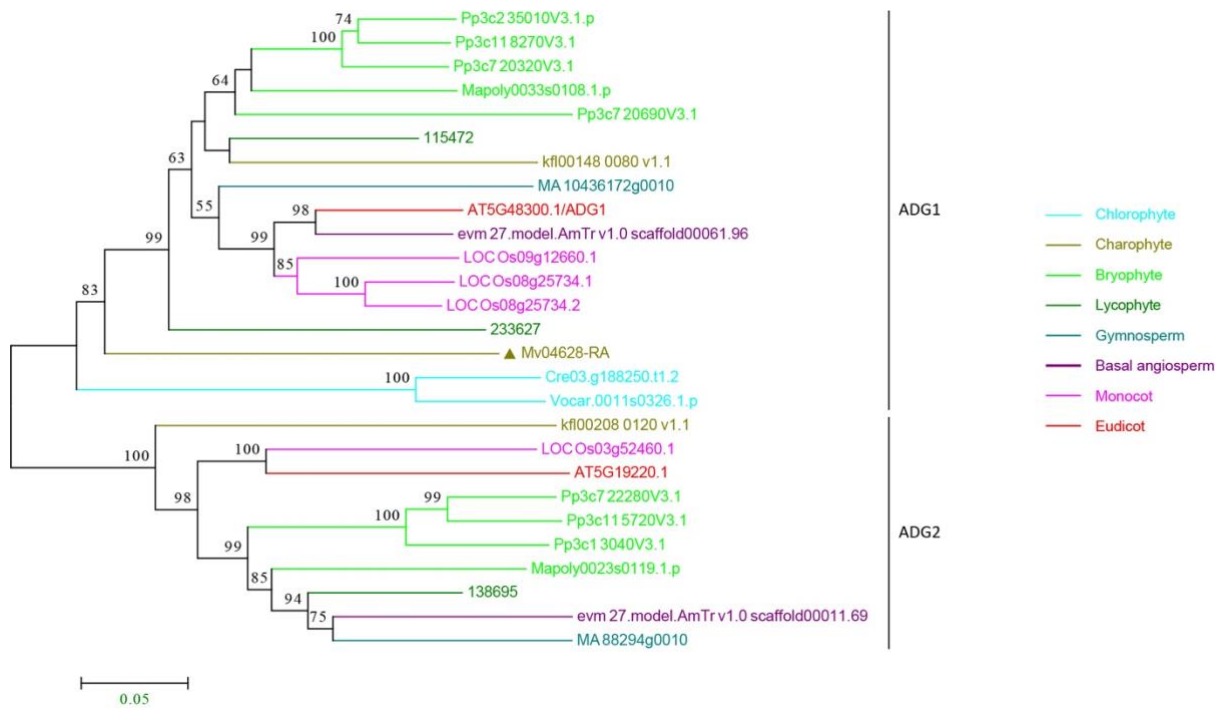
Data S1BJ. Phylogenetic relationships of MALATE DEHYDROGENASE (MDH) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



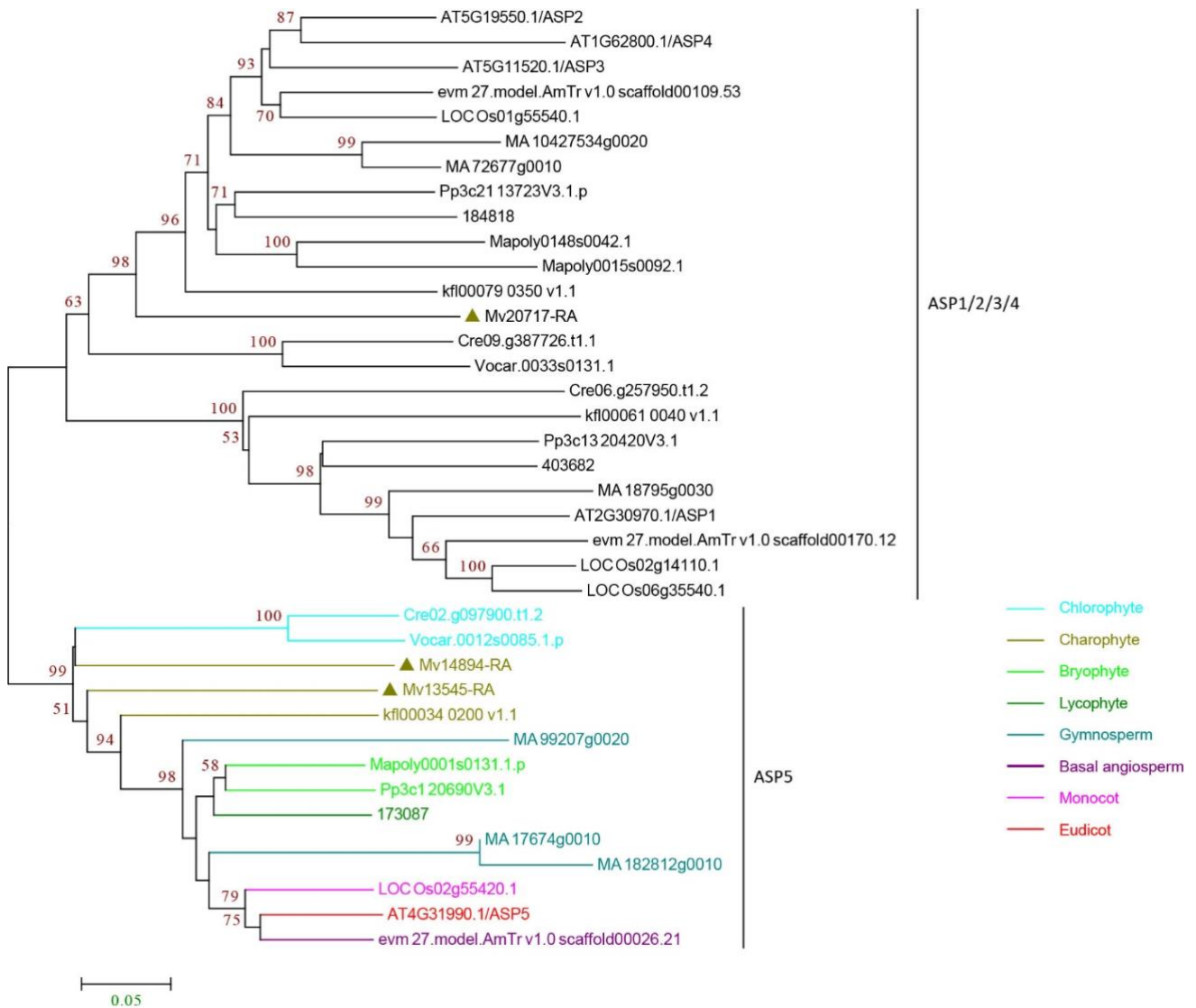
Data S1BK. Phylogenetic relationships of PYRUVATE ORTHOPHOSPHATE DIKINASE (PPDK) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



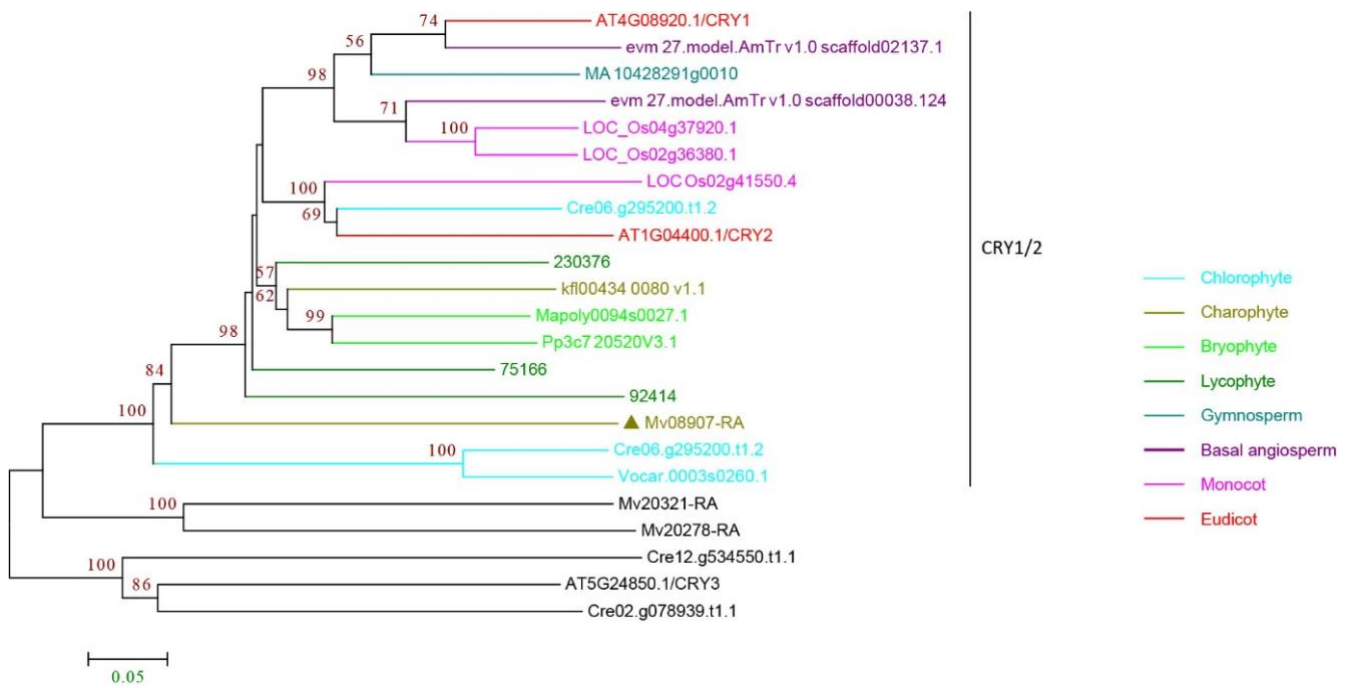
Data S1BL. Phylogenetic relationships of MALIC ENZYME 2 (me2) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



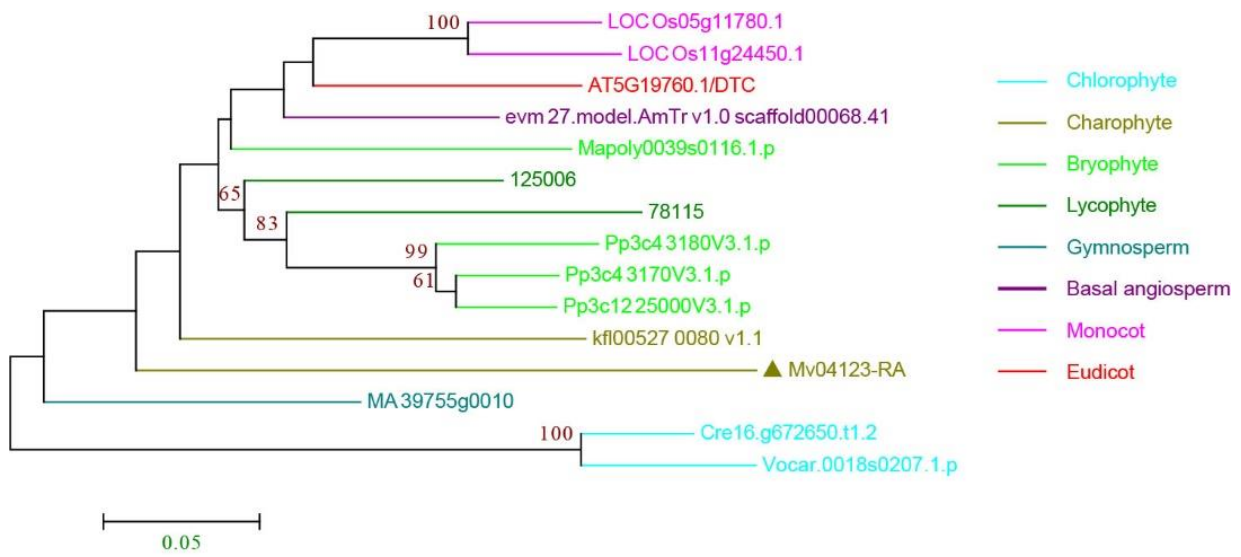
Data S1BM. Phylogenetic relationships of ADP GLUCOSE PYROPHOSPHORYLASE (ADG) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



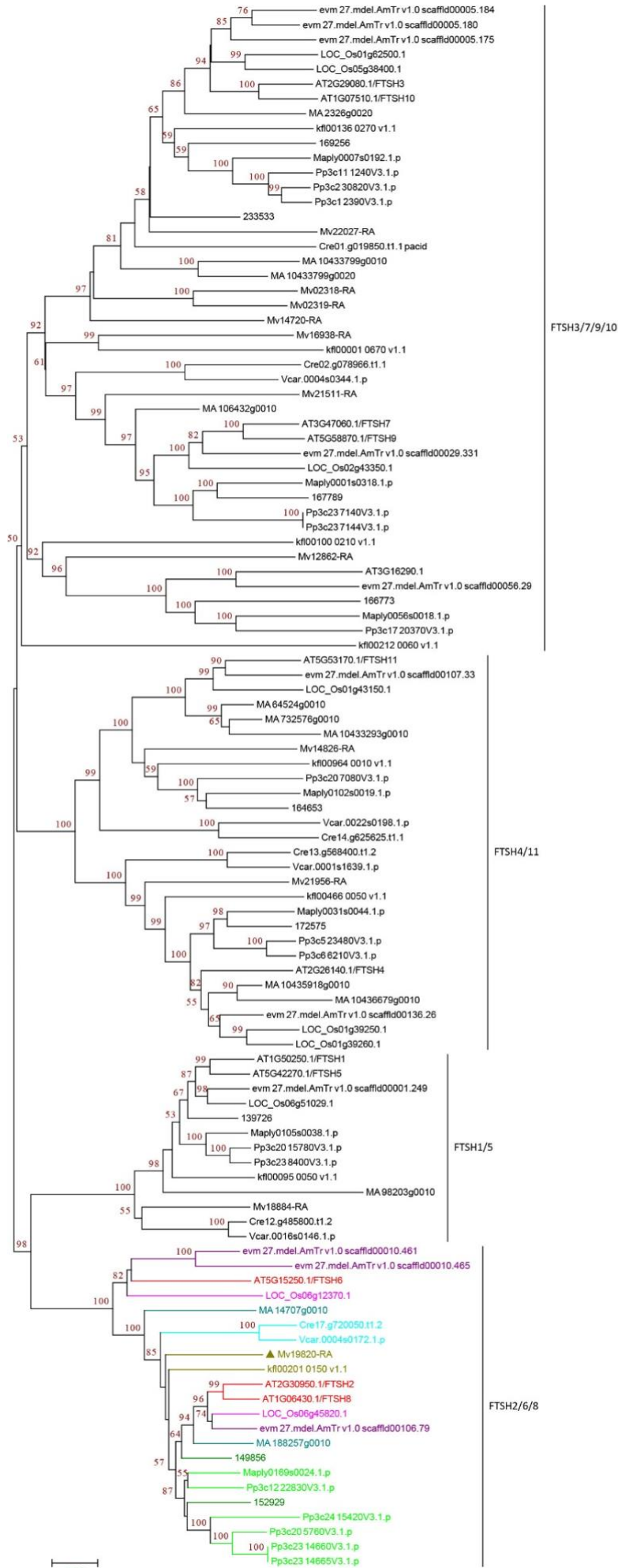
Data S1BN. Phylogenetic relationships of ASPARTATE AMINOTRANSFERASE (ASP) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



Data S1BO. Phylogenetic relationships of CRYPTOCHROME (CRY) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.

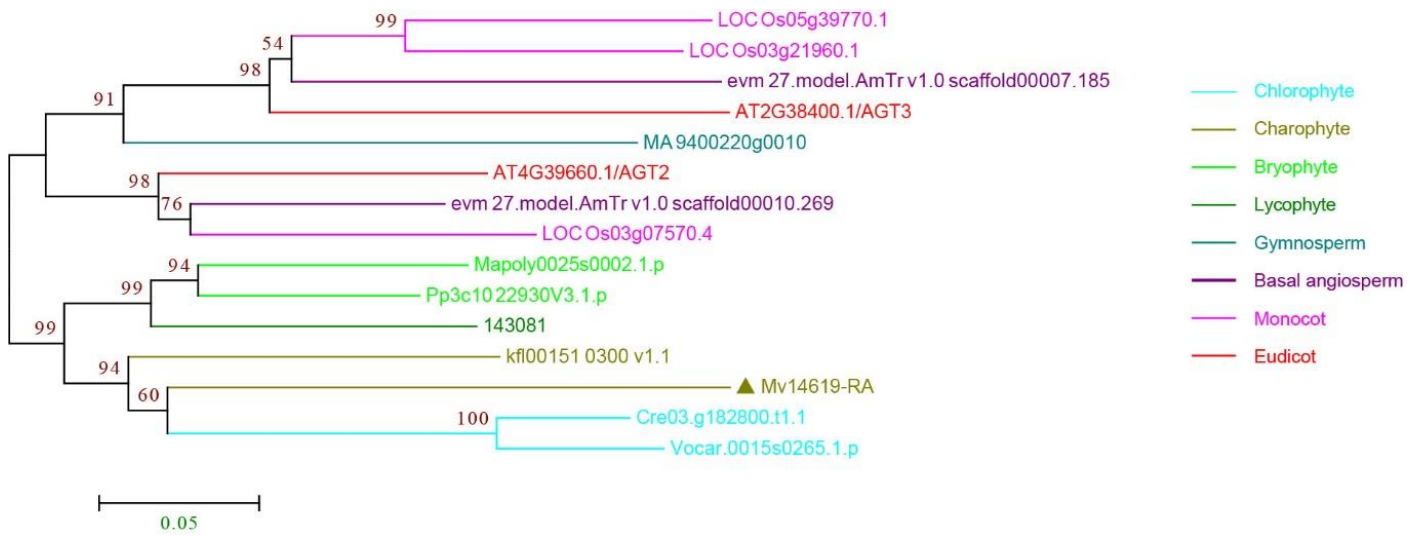


Data S1BP. Phylogenetic relationships of DTC proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.

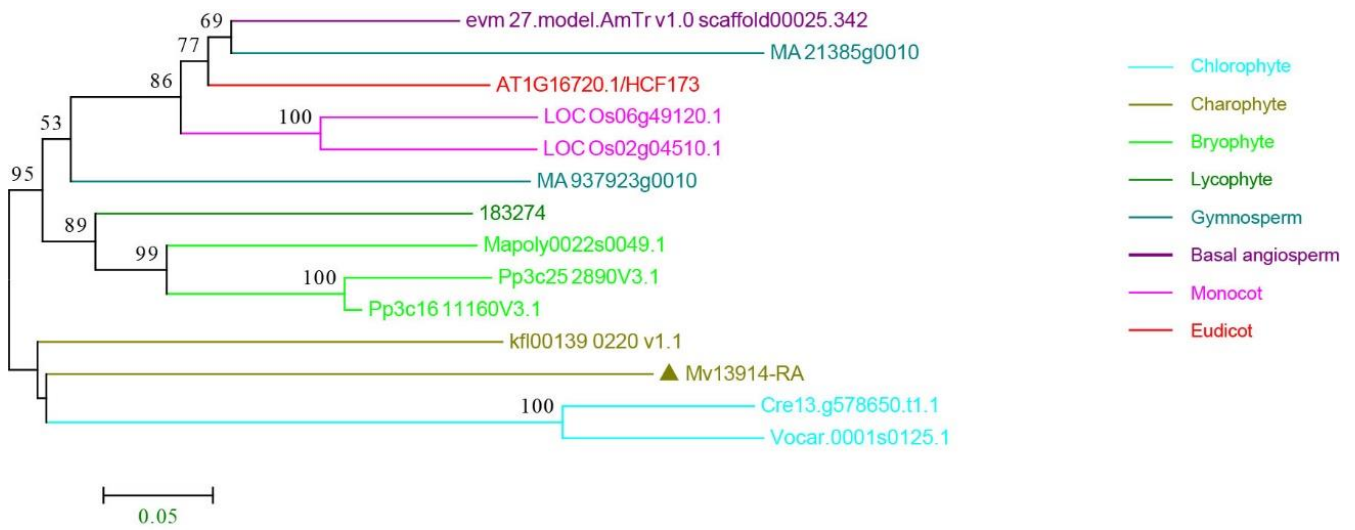


- Chlorophyte
- Charophyte
- Bryophyte
- Lycophyte
- Gymnosperm
- Basal angiosperm
- Monocot
- Eudicot

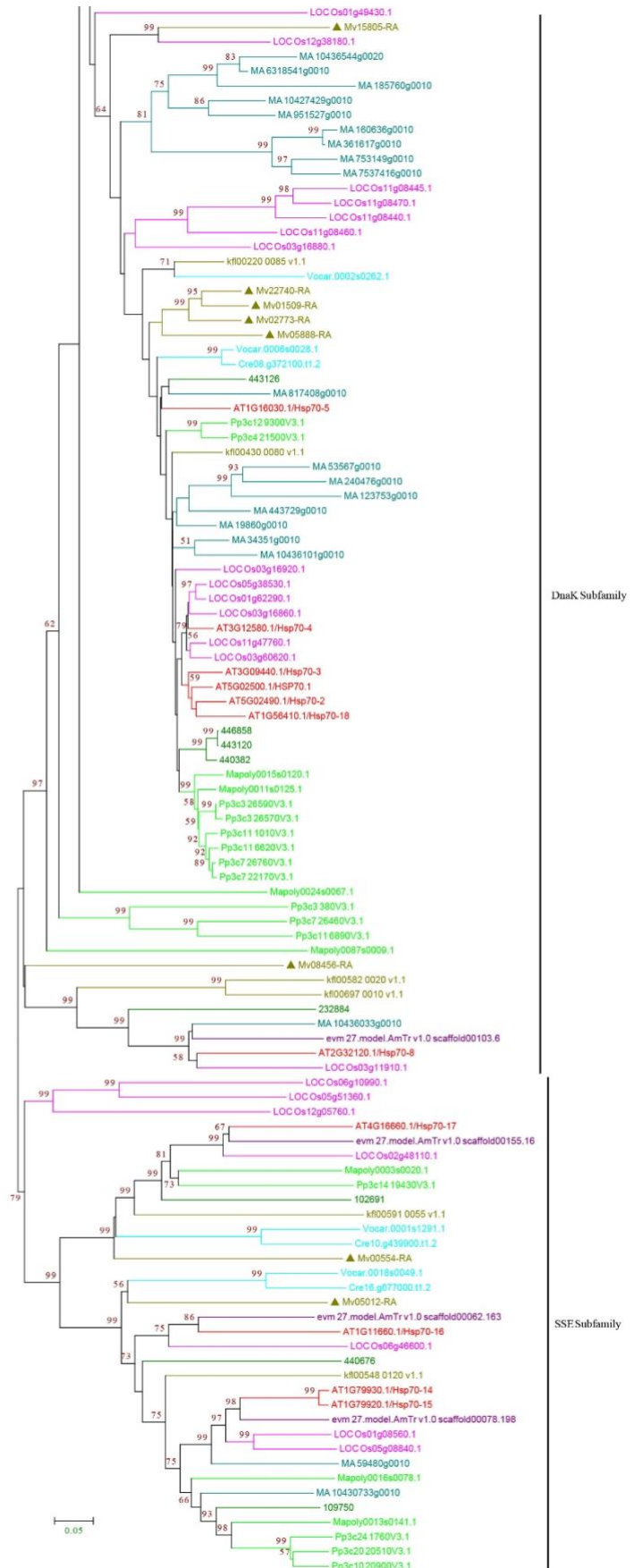
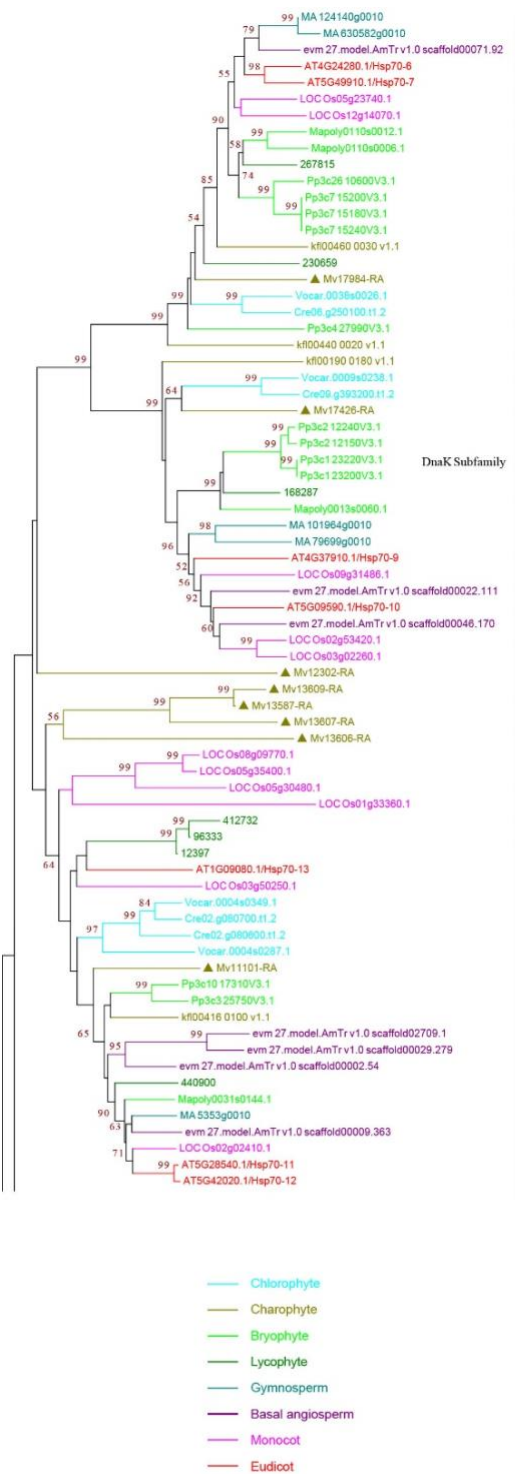
Data S1BQ. Phylogenetic relationships of FTSH proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



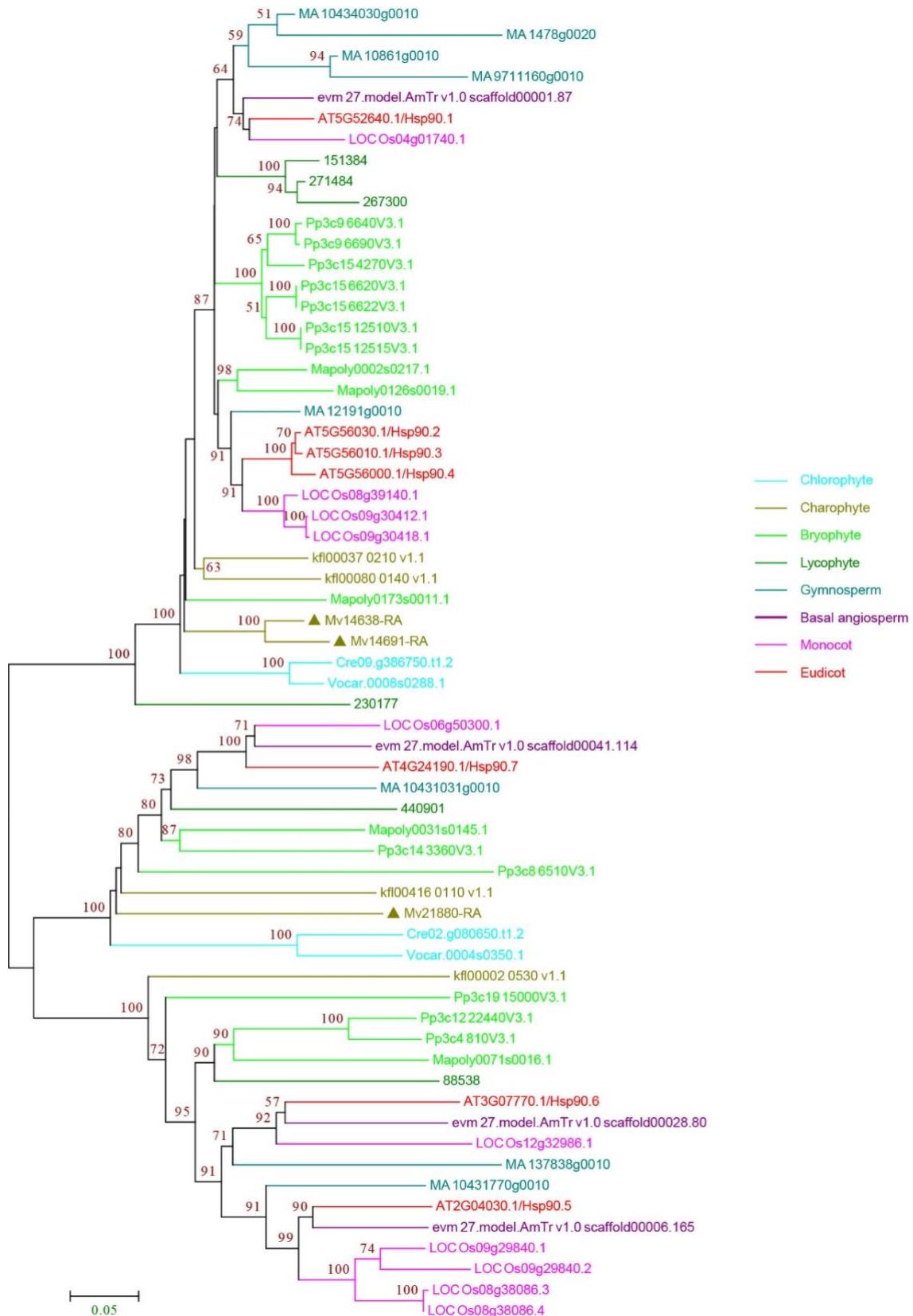
Data S1BR. Phylogenetic relationships of ALANINE:GLYOXYLATE AMINOTRANSFERASE (AGT) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



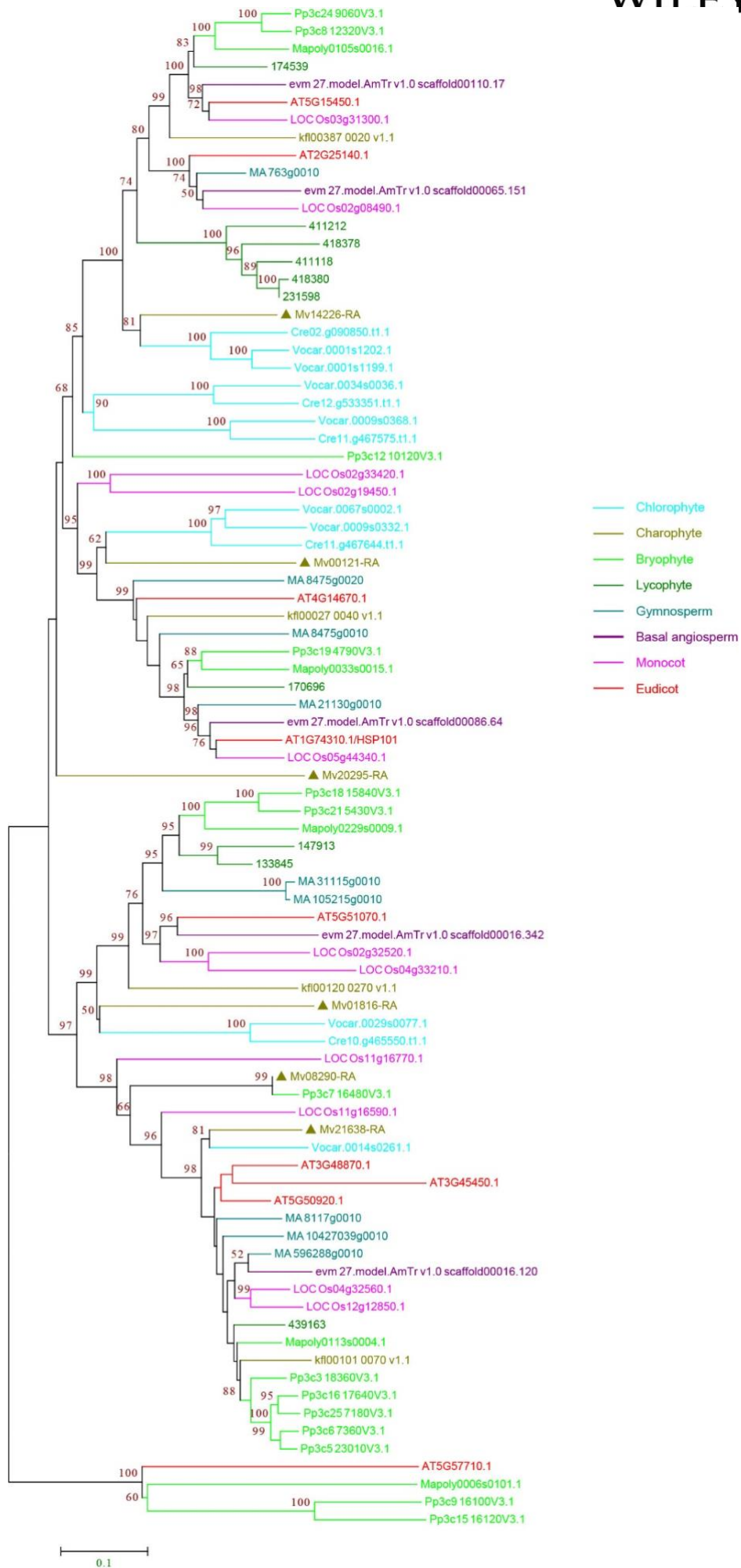
Data S1BS. Phylogenetic relationships of HIGH CHLOROPHYLL FLUORESCENCE PHENOTYPE 173 (HCF173) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequence was highlighted by a triangle. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



Data S1BT. Phylogenetic relationships of heat shock protein 70 (HSP70) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



Data S1BU. Phylogenetic relationships of heat shock protein 90 (HSP90) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.



Data S1BV. Phylogenetic relationships of heat shock protein 100 (HSP100) proteins from *M. viride* and other evolutionarily representative species. The *M. viride* sequences were highlighted by triangles. Numbers on the major branches indicate bootstrap values (> 50%) in 1,000 replicates.

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