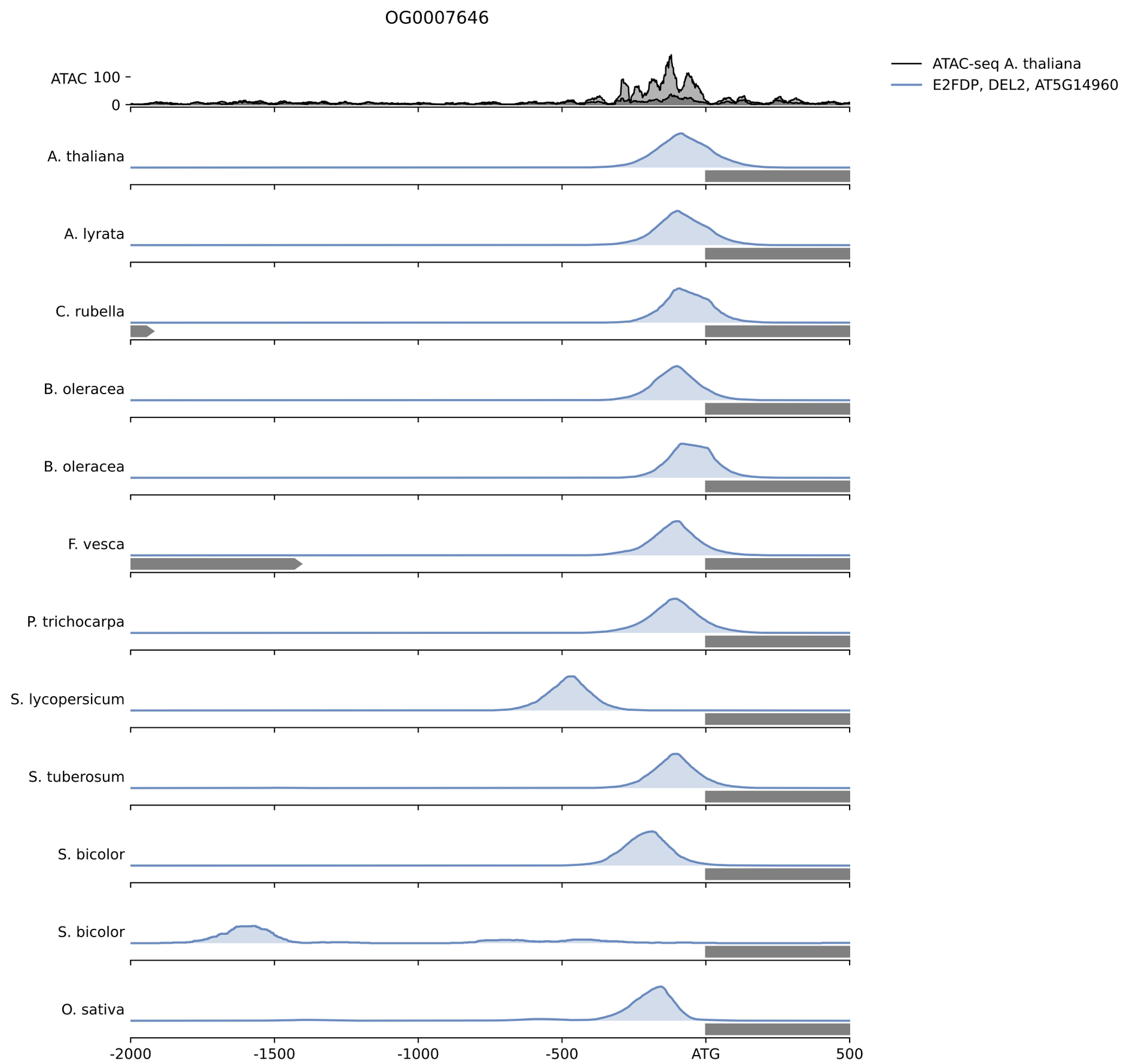
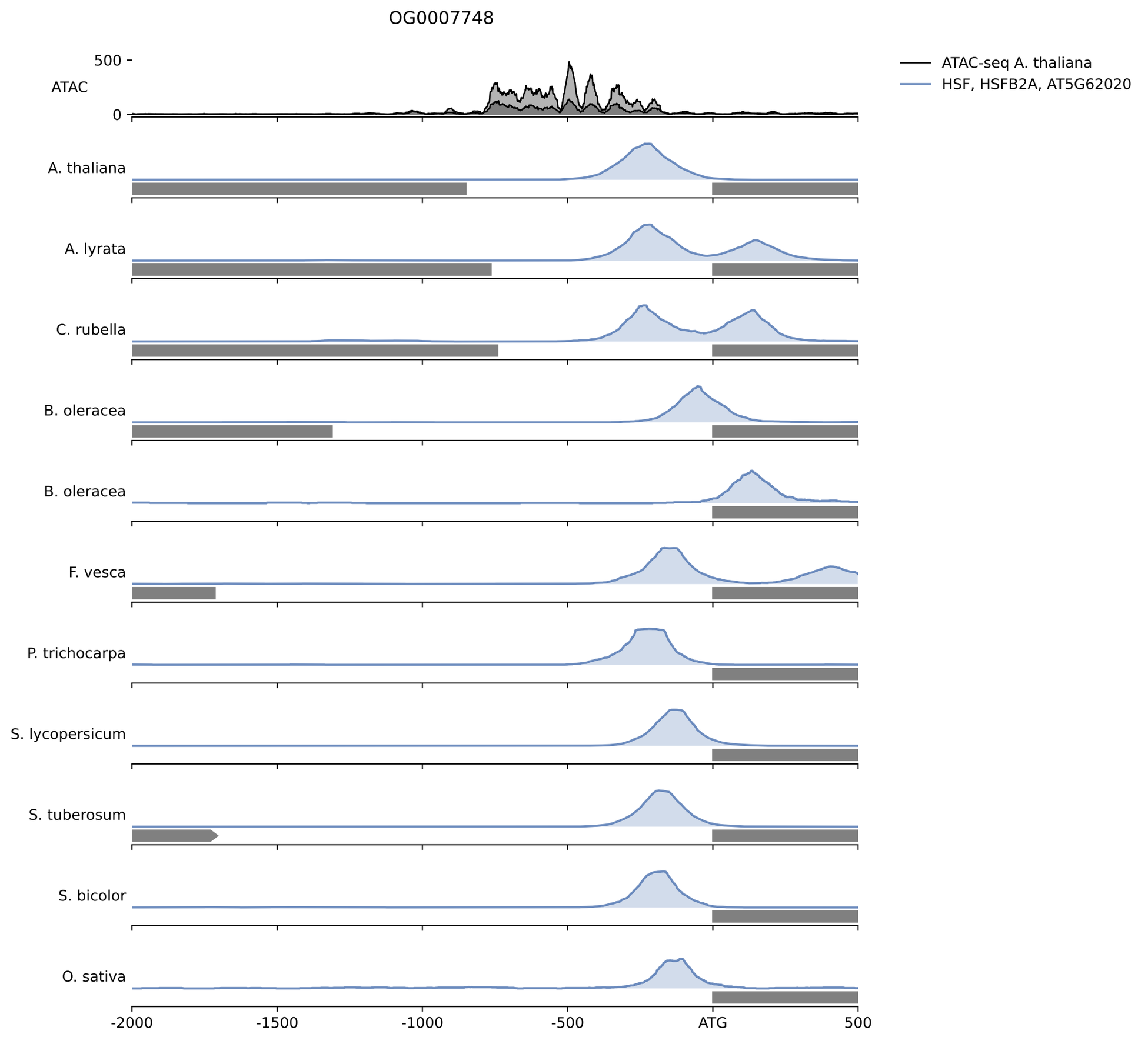
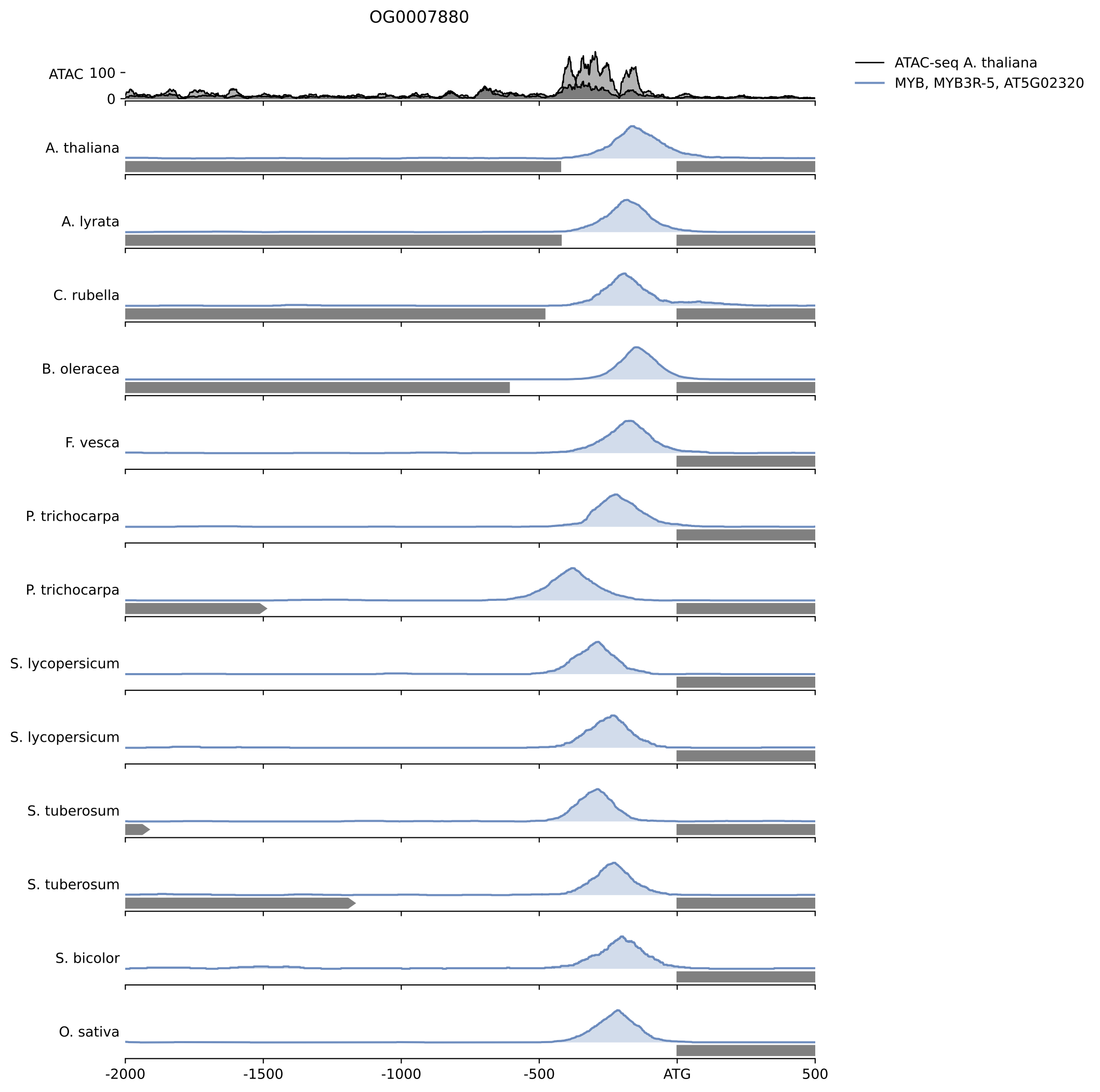


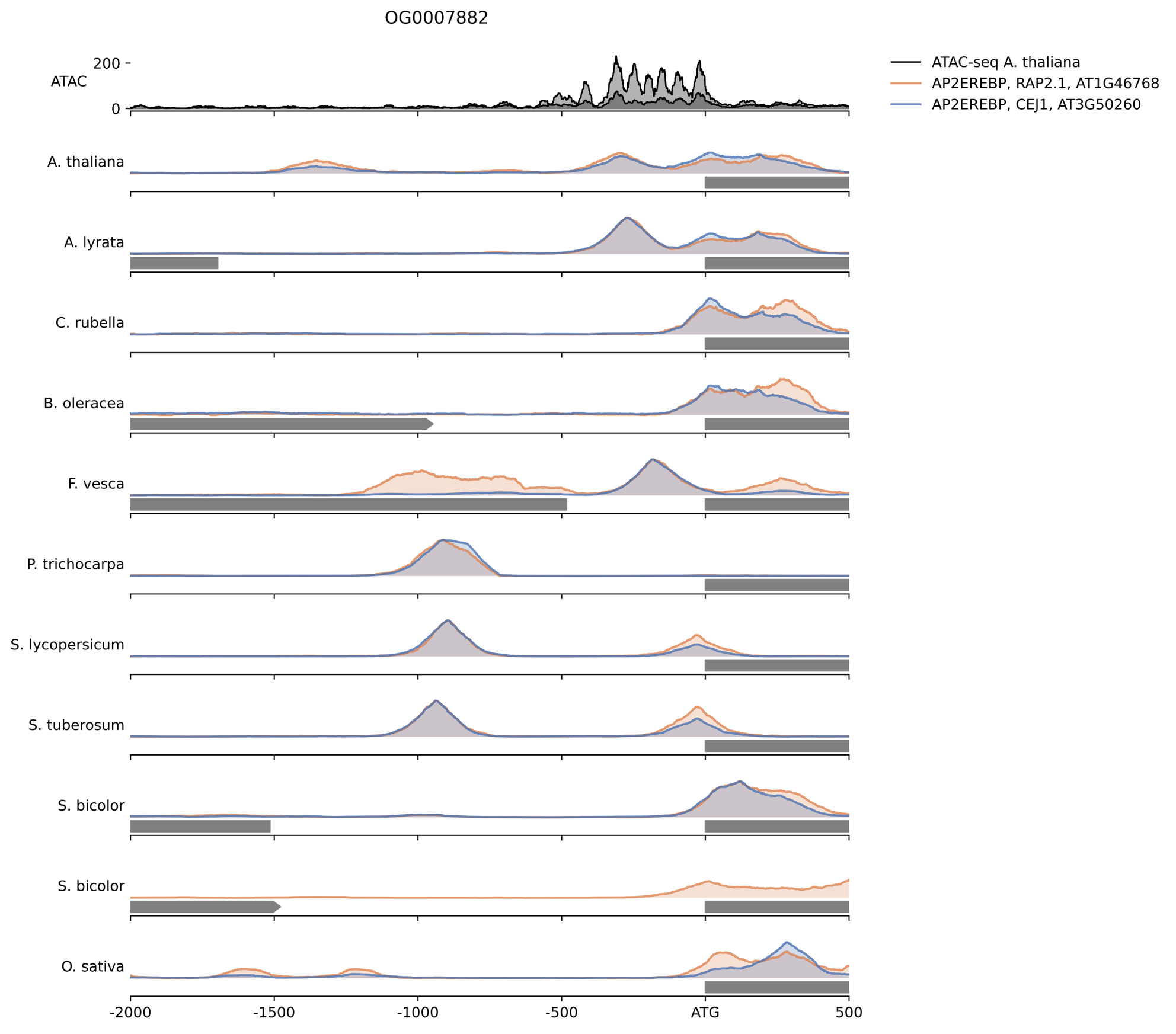
A. thaliana target: AT1G44900, MCM2, Encodes MCM2 (MINICHROMOSOME MAINTENANCE 2), a protein essential to embryo development. Overexpression results in altered root meristem function.



A. thaliana target: AT1G54050, HSP20-like chaperones superfamily protein;(source:Araport11)

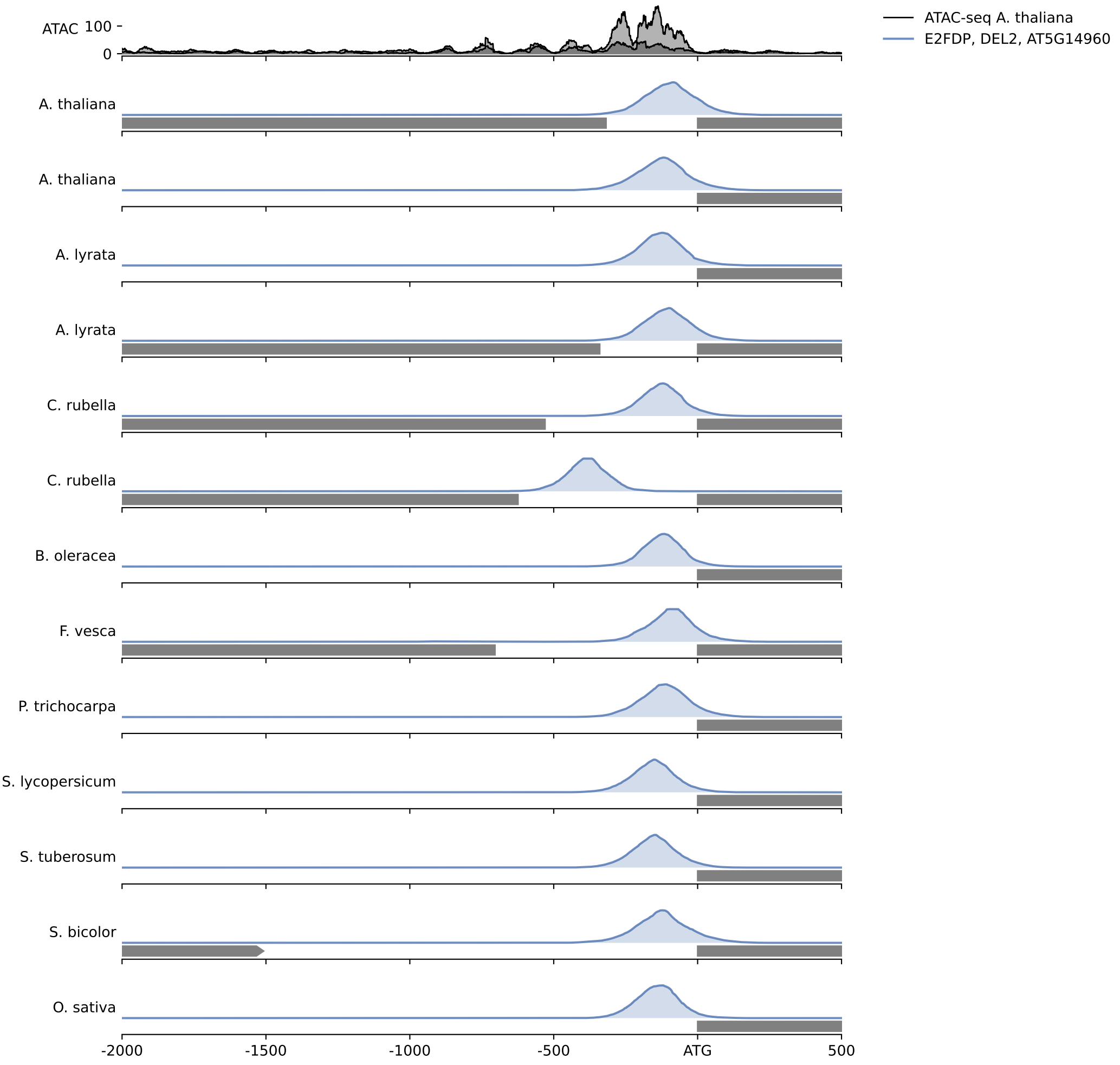


A. thaliana target: AT4G14330, Orphan kinesin with processive motility on single microtubules.



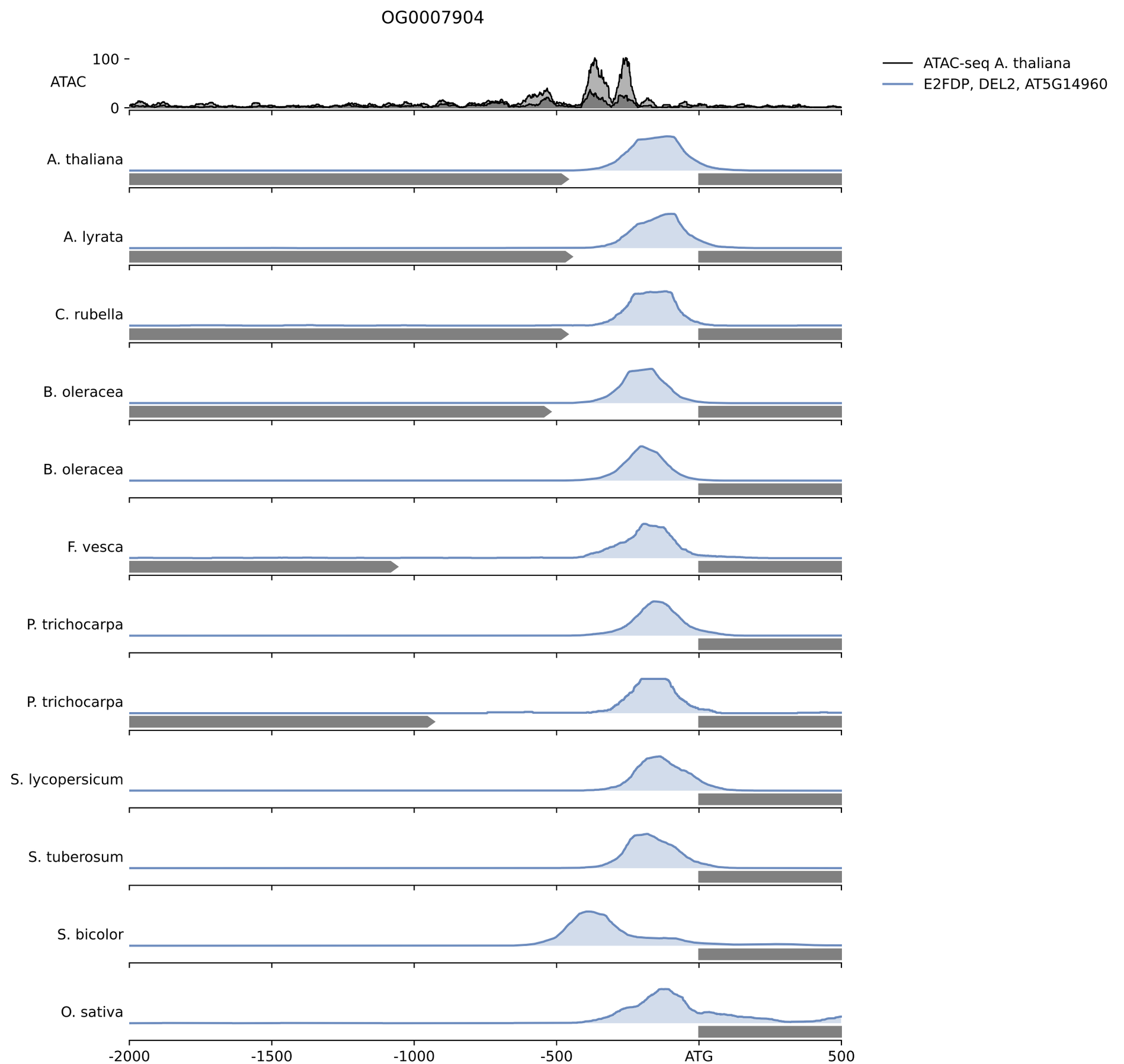
A. thaliana target: AT4G22580, Exostosin family protein;(source:Araport11)

OG0007892

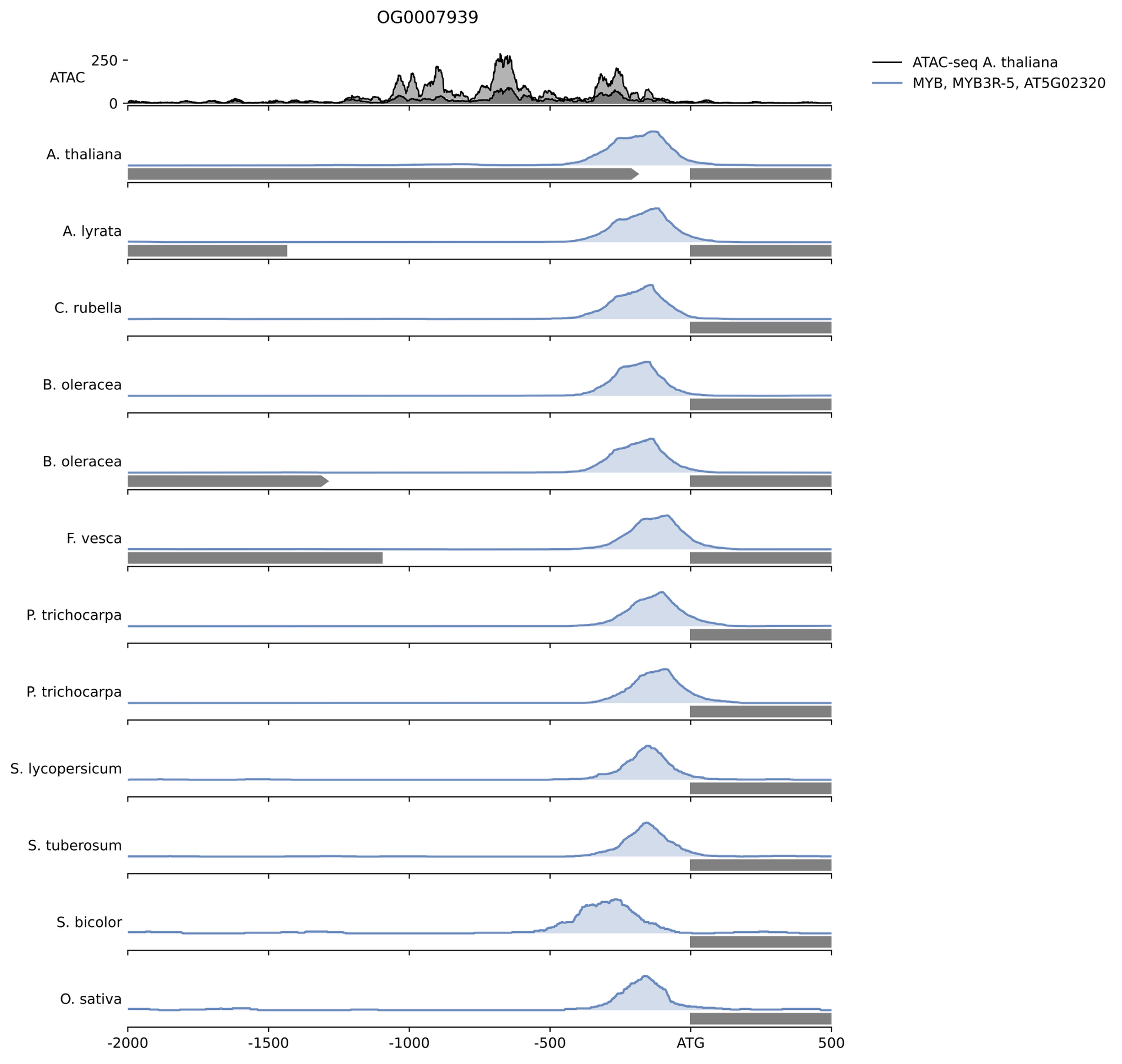


A. thaliana target: AT4G14120, hypothetical protein;(source:Araport11)

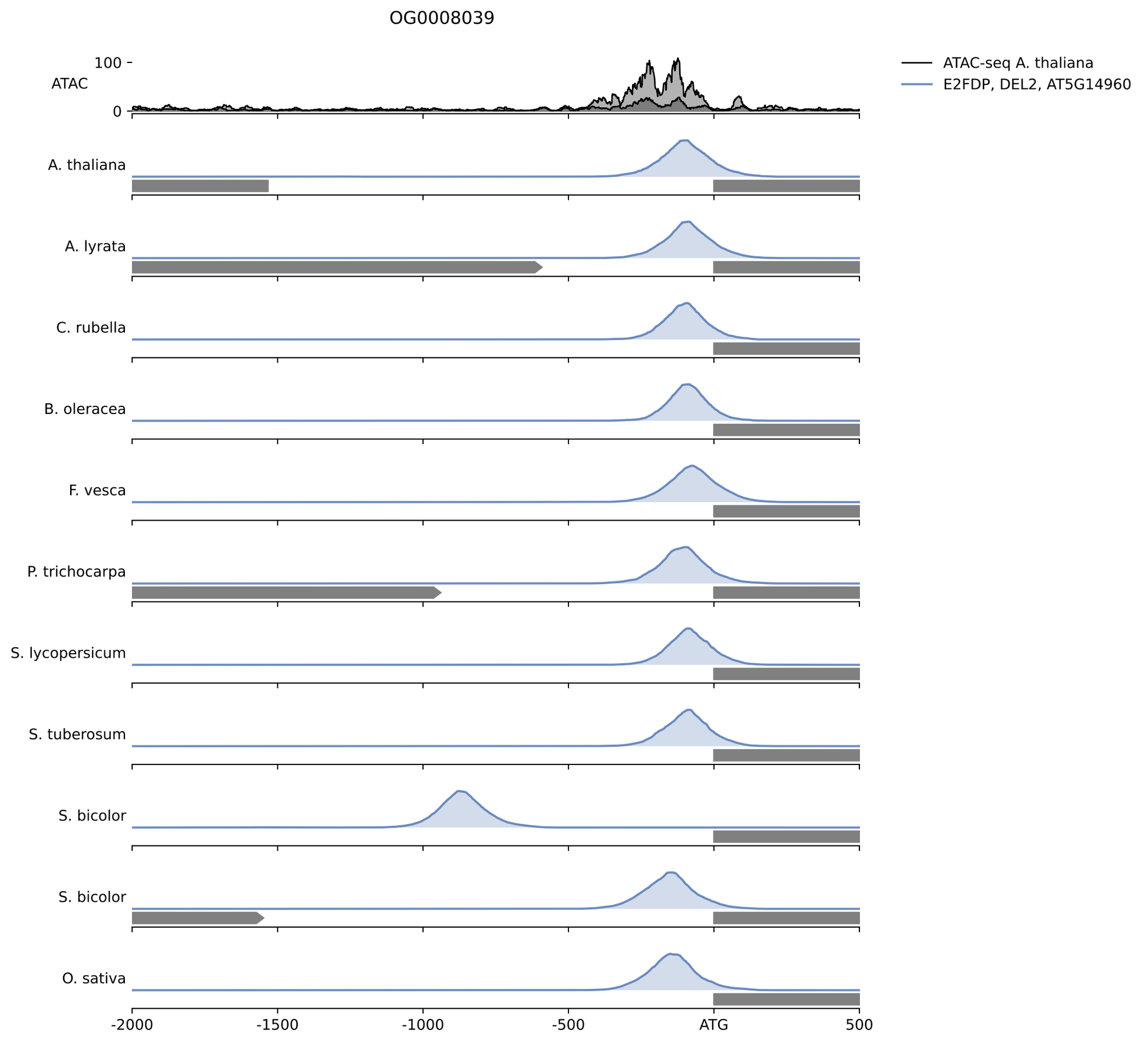
A. thaliana target: AT3G23740, hypothetical protein;(source:Araport11)



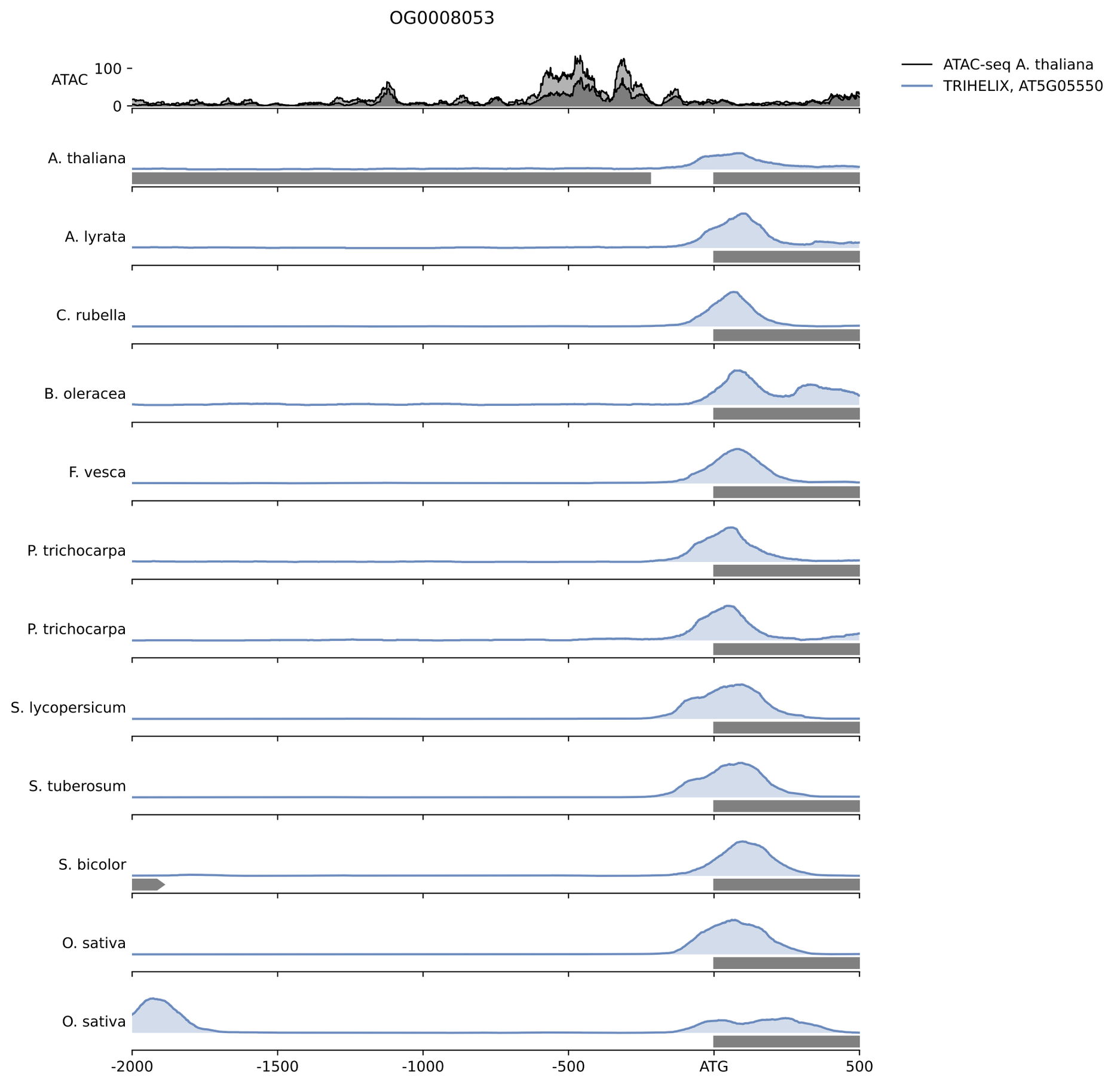
A. thaliana target: AT3G14740, RING/FYVE/PHD zinc finger superfamily protein;(source:Araport11)



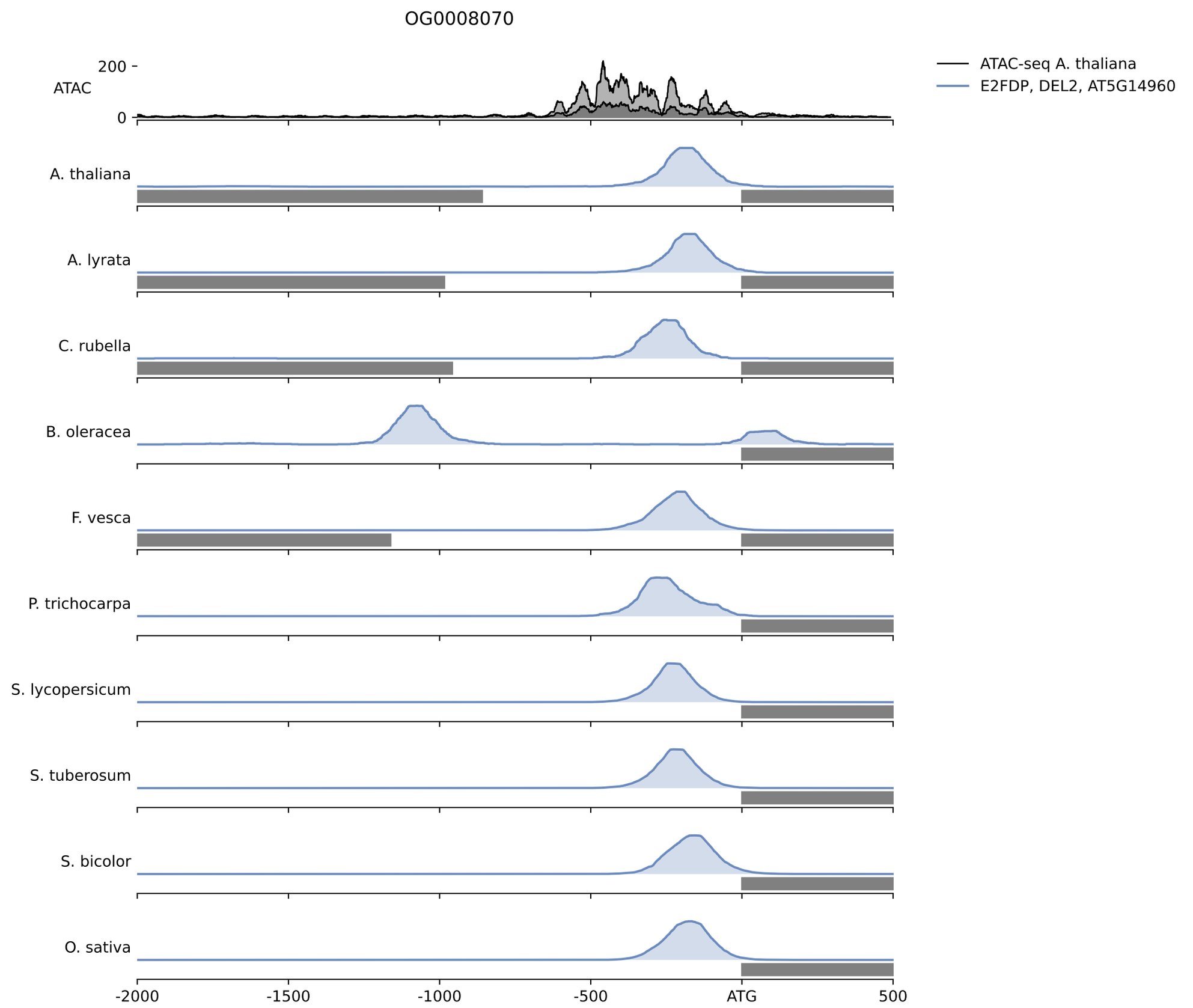
A. thaliana target: AT3G15550, trichohyalin;(source:Araport11)



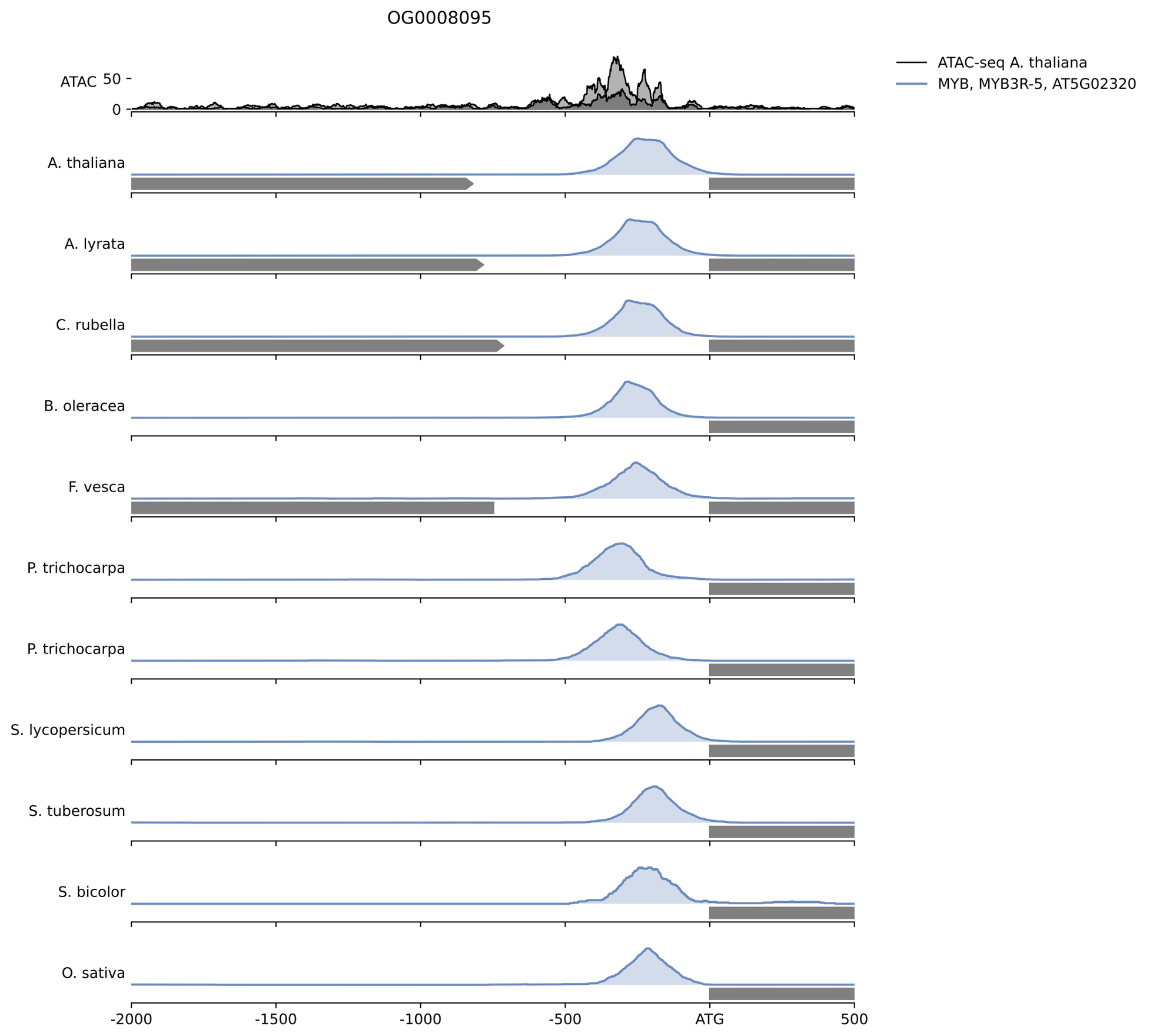
A. thaliana target: AT1G67630, POLA2, DNA polymerase alpha 2;(source:Araport11)



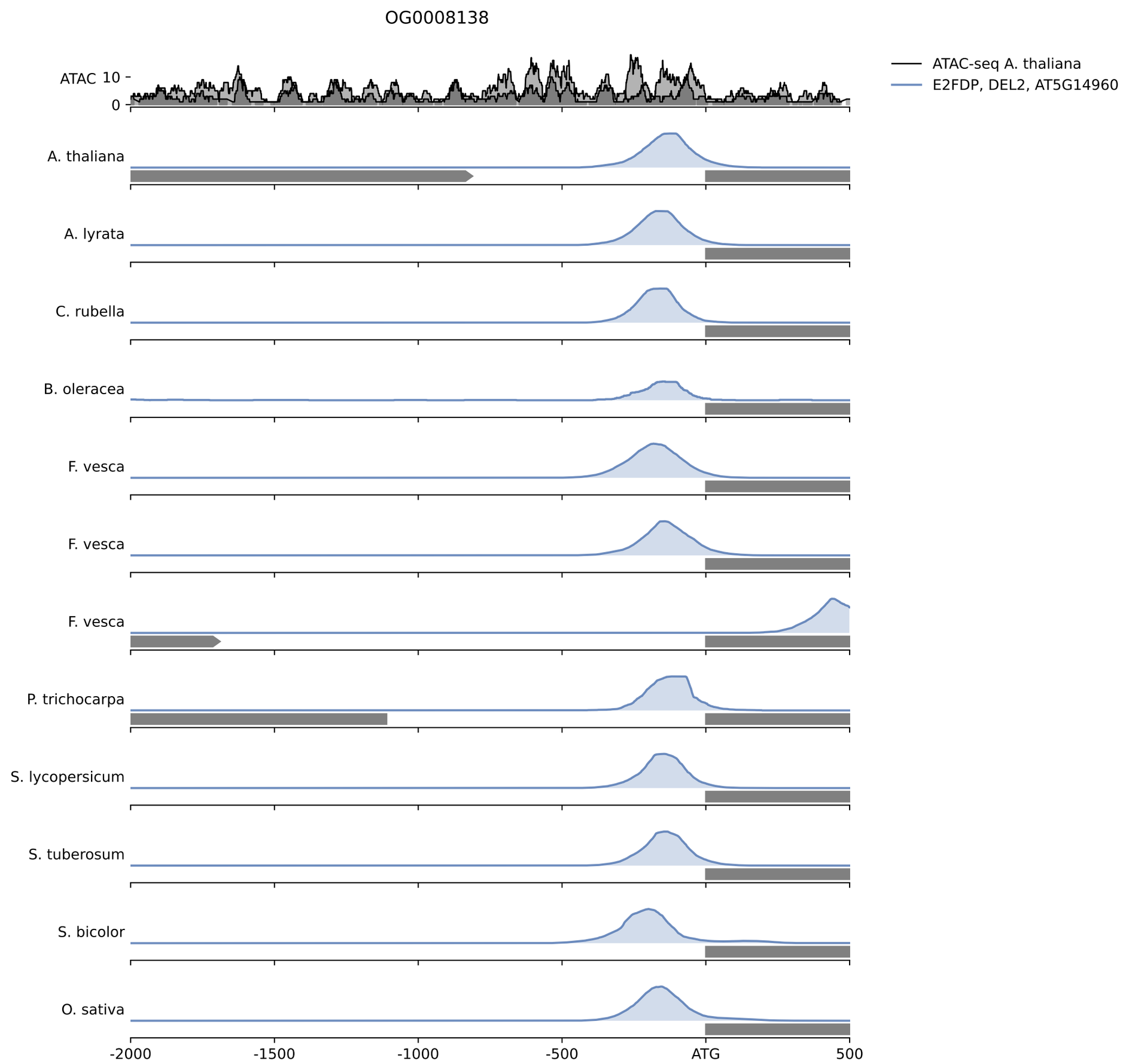
A. thaliana target: AT1G70210, CYCD1;1, Encodes a D-type cyclin that physically interacts with CDC2A. Its expression is upregulated early during germination.



A. thaliana target: AT1G77620, P-loop containing nucleoside triphosphate hydrolases superfamily protein;(source:Araport11)

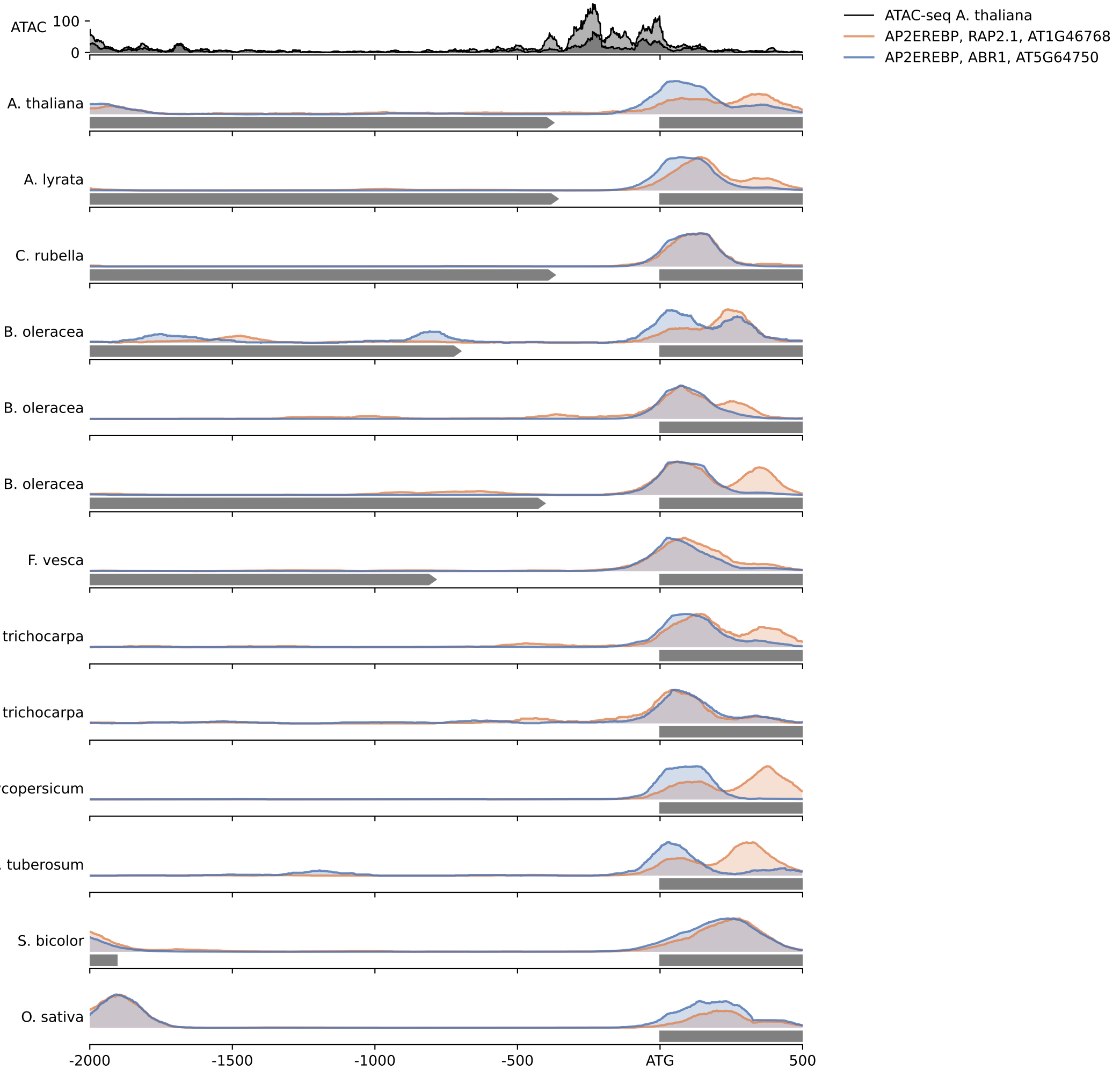


A. thaliana target: AT5G56120, RNA polymerase II elongation factor;(source:Araport11)

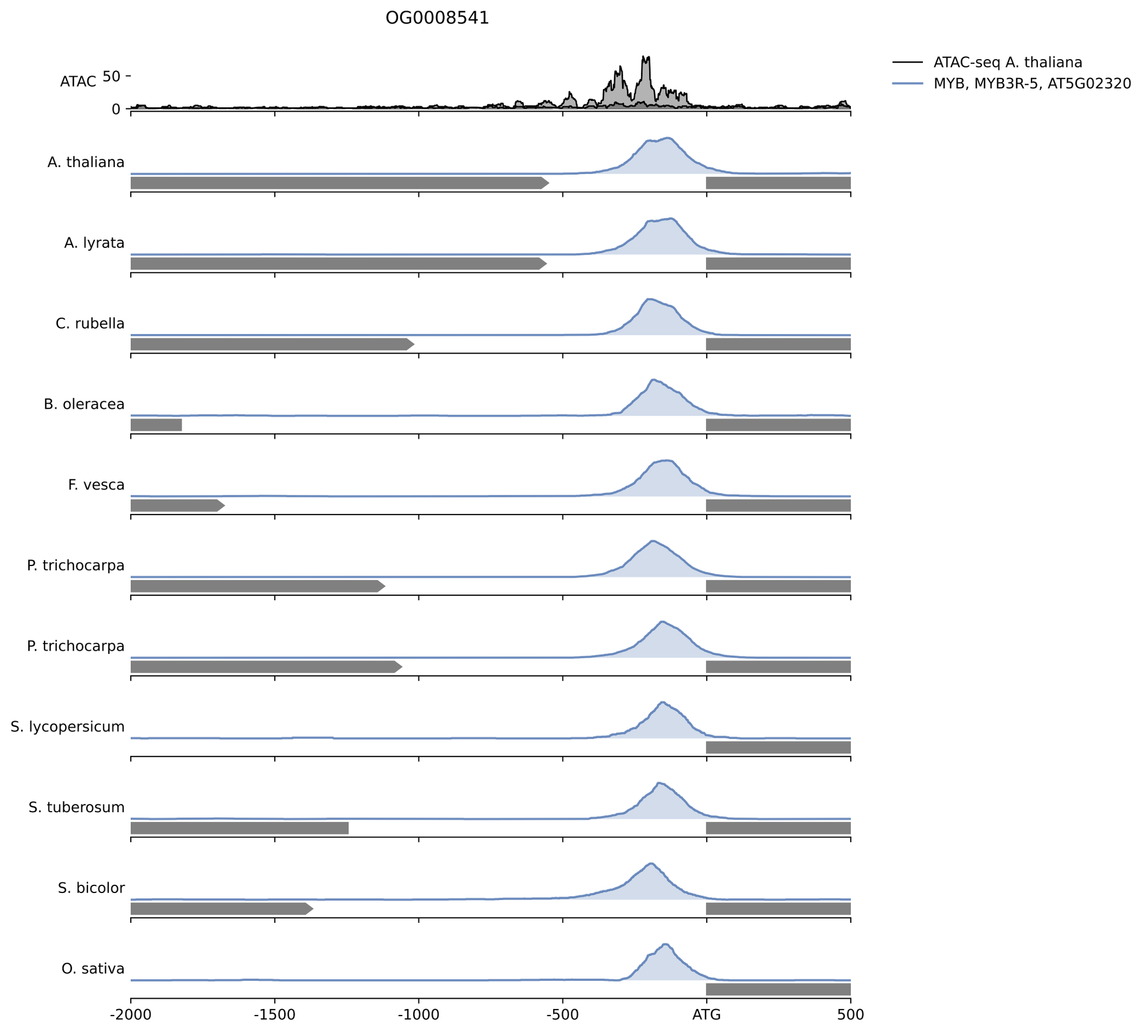


A. thaliana target: AT5G43530, Helicase protein with RING/U-box domain-containing protein;(source:Araport11)

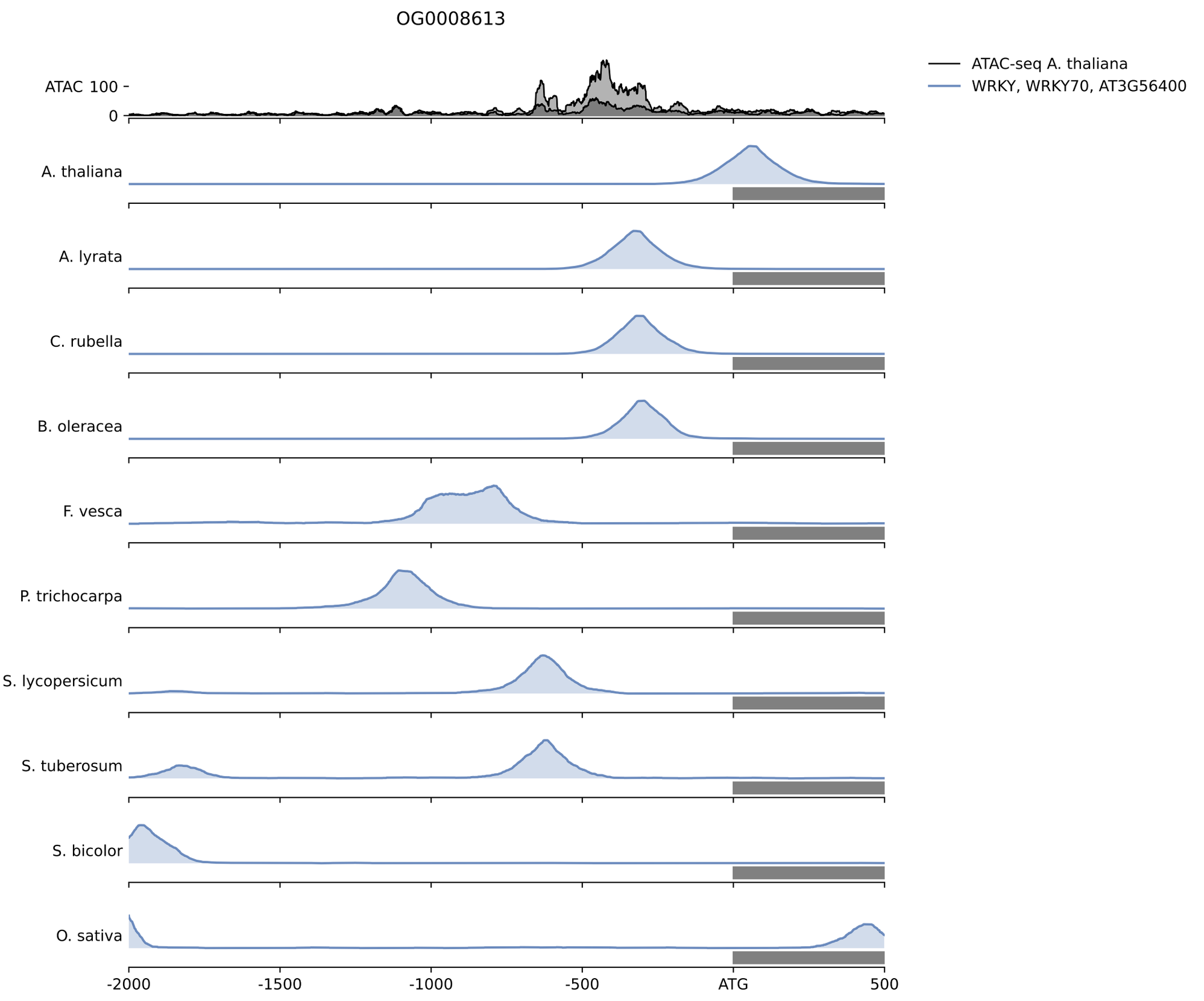
OG0008171



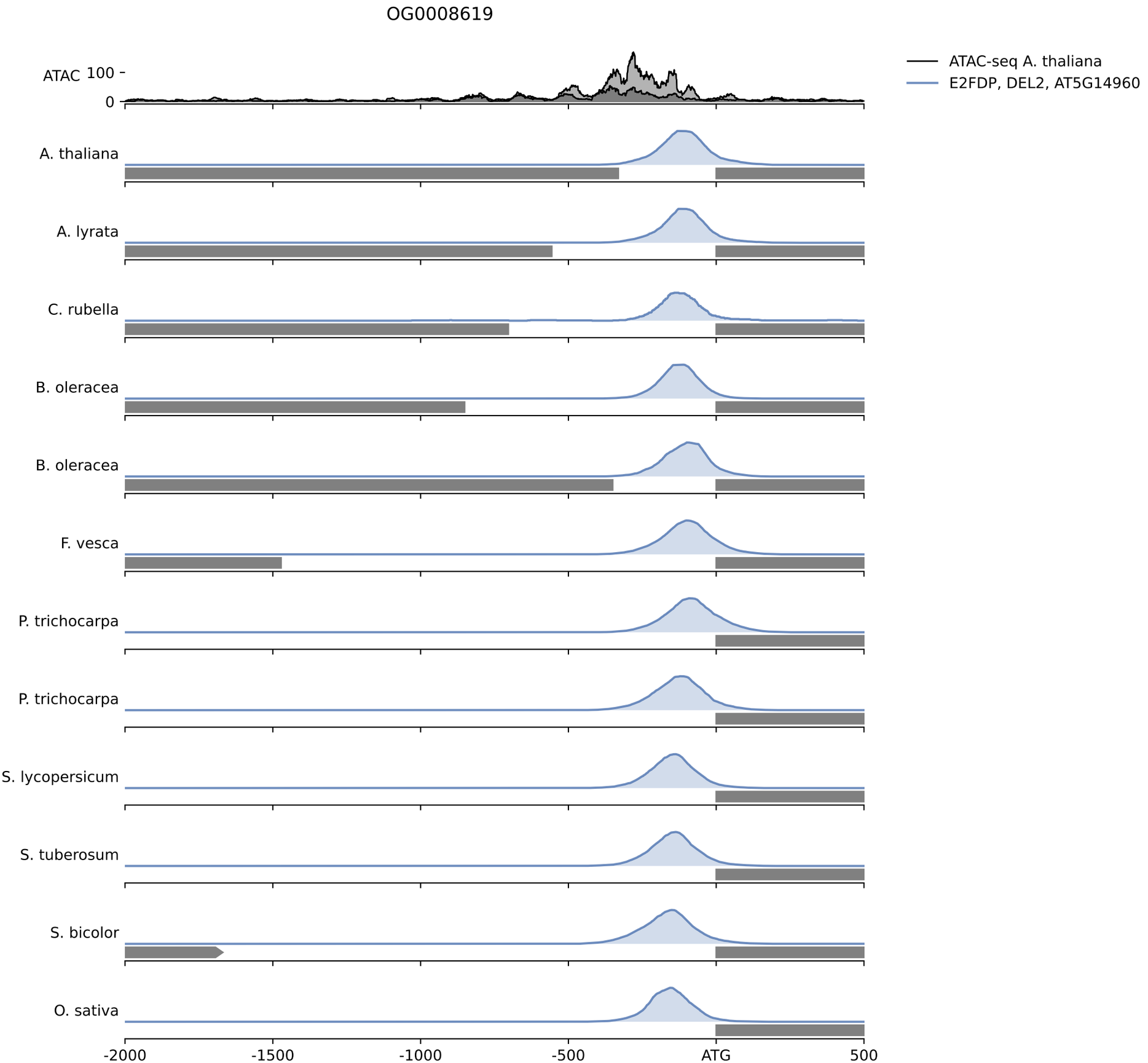
A. thaliana target: AT5G58470, TAF15b, TBP-associated factor 15B;(source:Araport11)



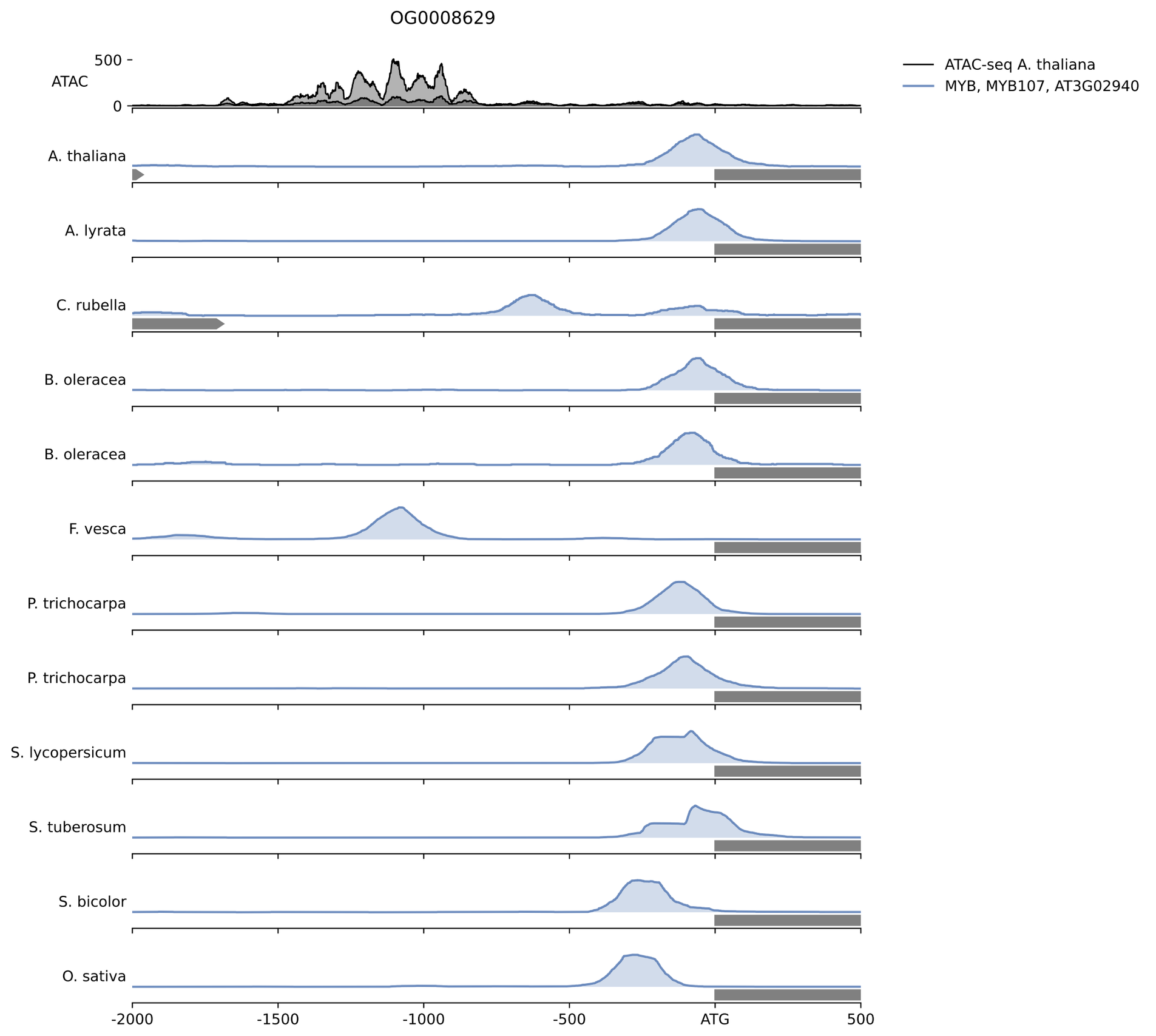
A. thaliana target: AT2G42110, hypothetical protein;(source:Araport11)



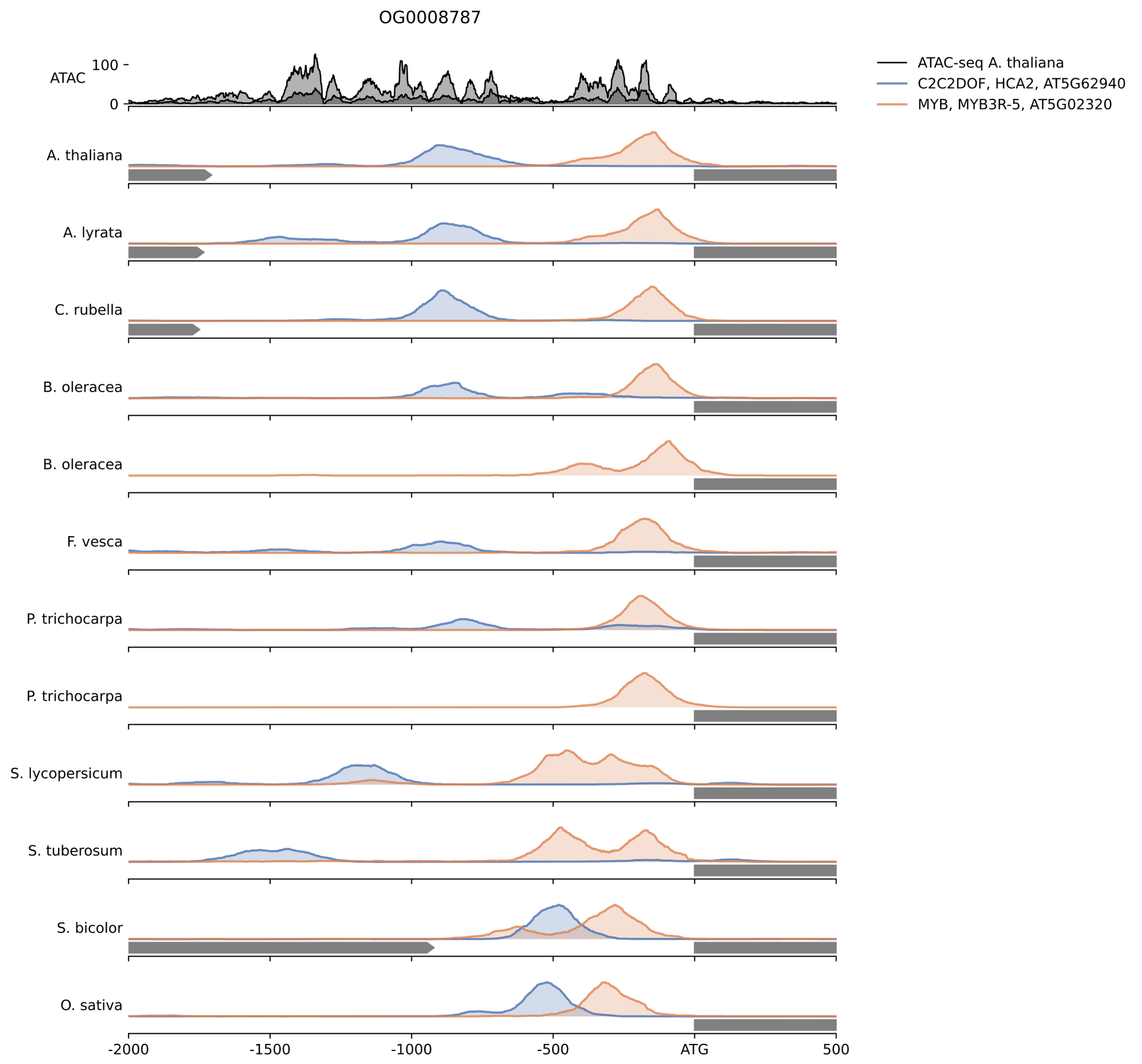
A. thaliana target: AT4G13040, Encodes a member of the AP2/EREBP transcription factor family that has only one AP2 domain. It is a positive regulator of disease defense that functions upstream of SA accumulation.



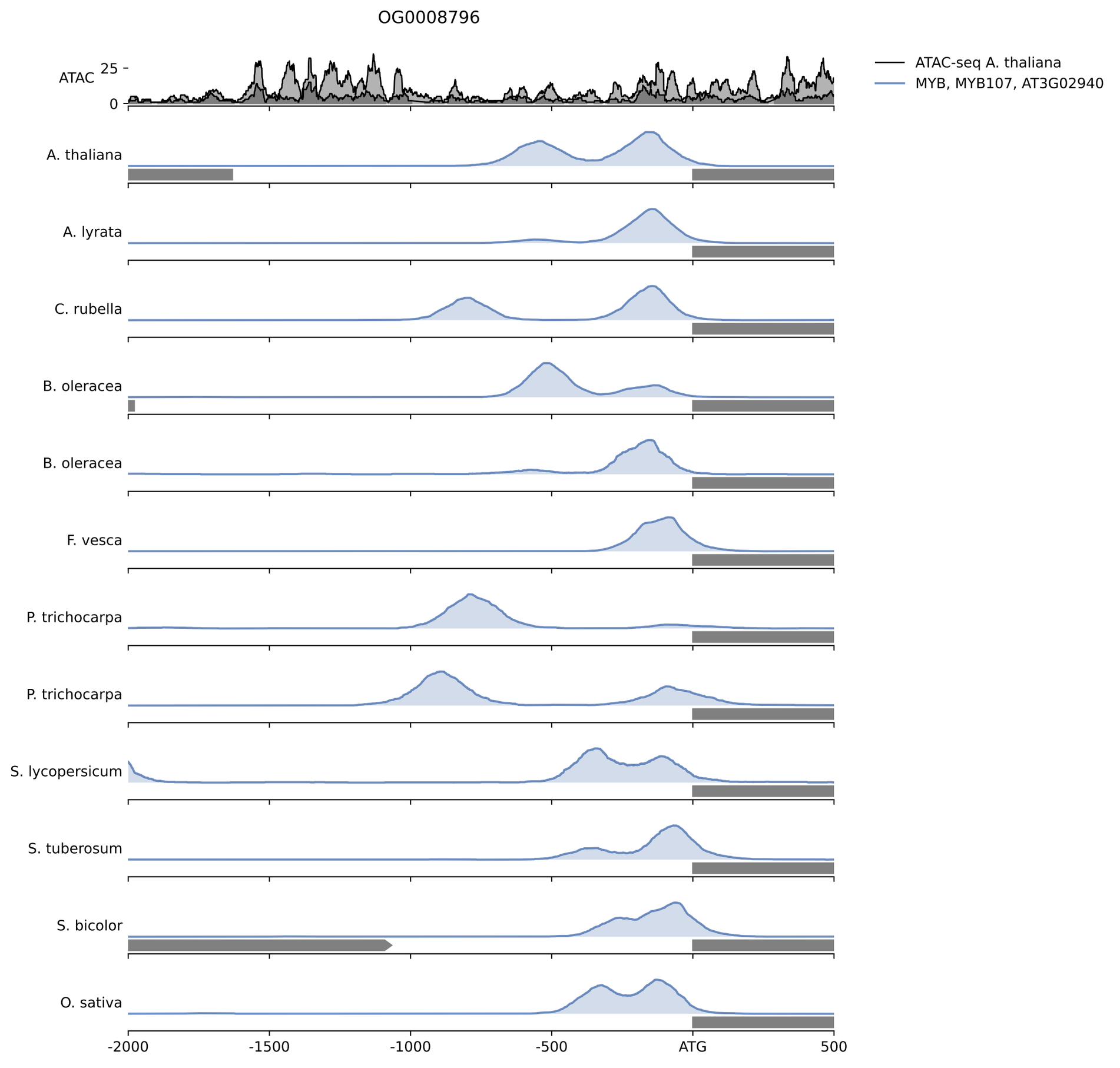
A. thaliana target: AT5G24330, ATXR6, Encodes a SET-domain protein, a H3K27 monomethyltransferases required for chromatin structure and gene silencing. Regulates heterochromatic DNA replication. Contains a PCNA-binding domain. ATXR6 accumulates preferentially during the late G1 or S phase, suggesting that it plays a role in cell-cycle regulation or progression.



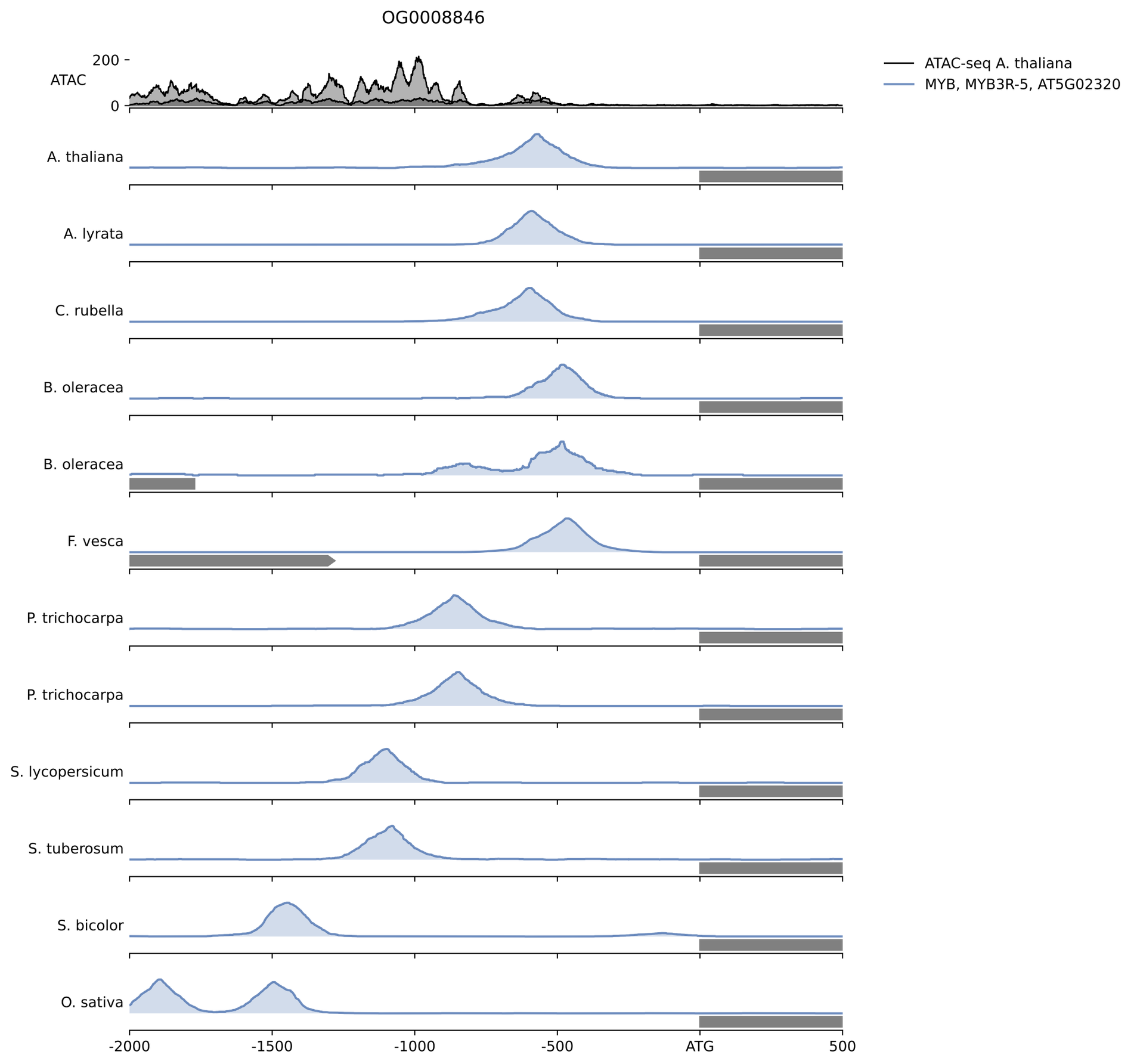
A. thaliana target: AT5G18830, SPL7, Encodes a member of the Squamosa Binding Protein family of transcriptional regulators. SPL7 is expressed highly in roots and appears to play a role in copper homeostasis. Mutants are hypersensitive to copper deficient conditions and display a retarded growth phenotype. Copper deficiency response regulator.SPL7 binds to the promoter of the copper responsive miRNAs miR398b and miR389c and appears to regulate the expression of a number of genes under copper deficient conditions.



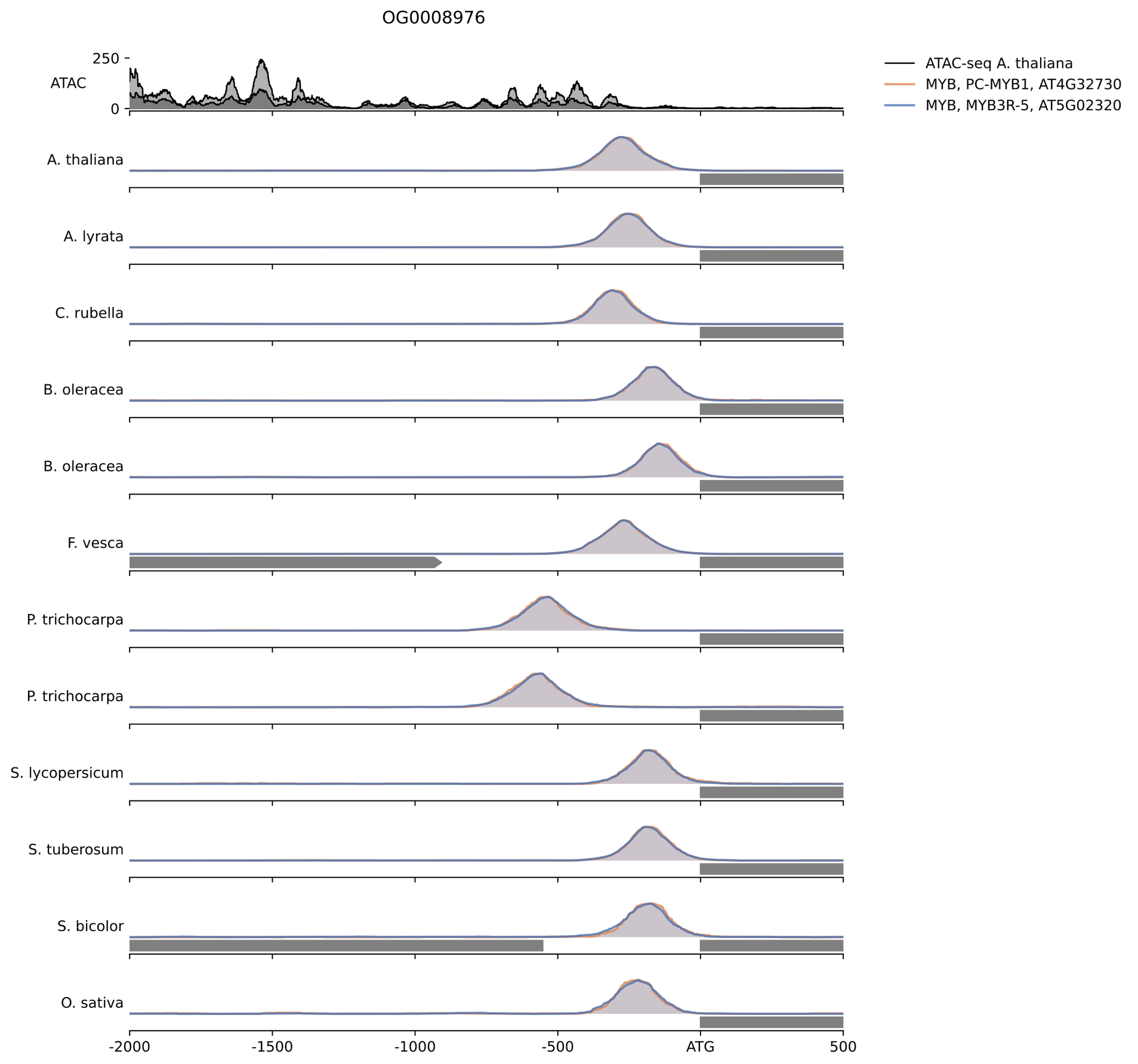
A. thaliana target: AT5G03870, Glutaredoxin family protein;(source:Araport11)



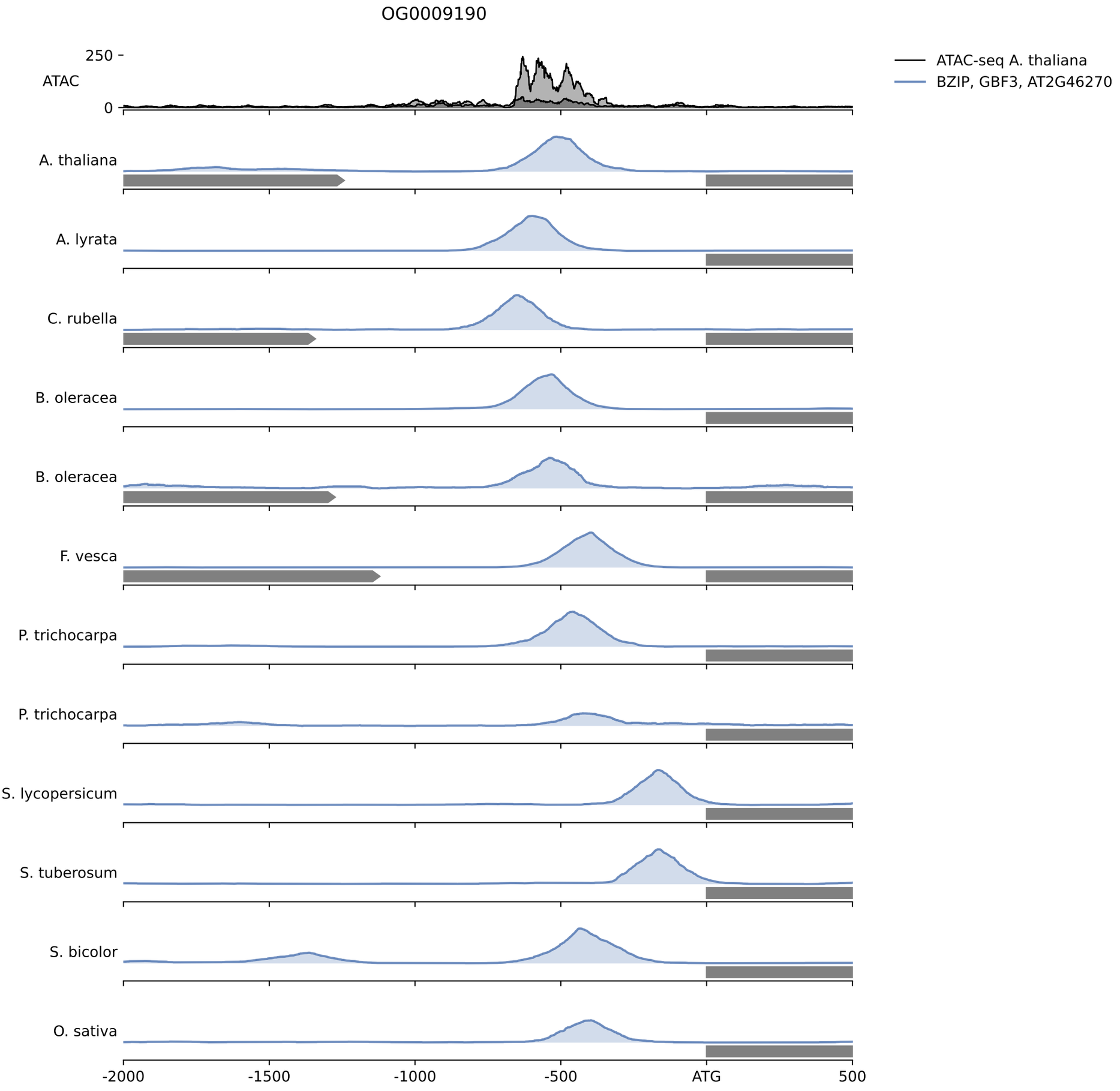
A. thaliana target: AT5G07475, Cupredoxin superfamily protein;(source:Araport11)



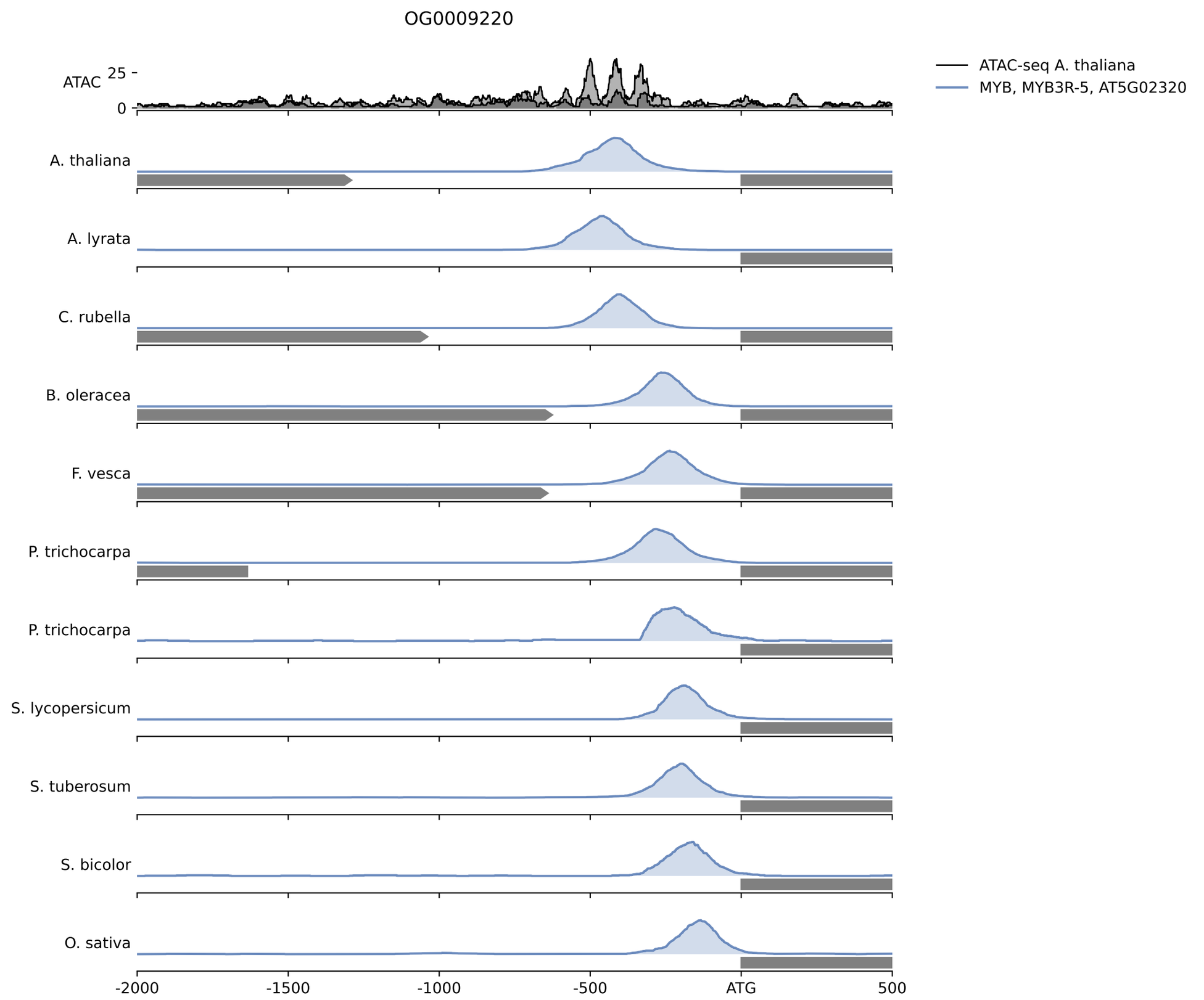
A. thaliana target: AT1G18370, HIK, Encodes a kinesin HINKEL. Required for cytokinesis in pollen.
Mutant has cytokinesis defects; seedling lethal.



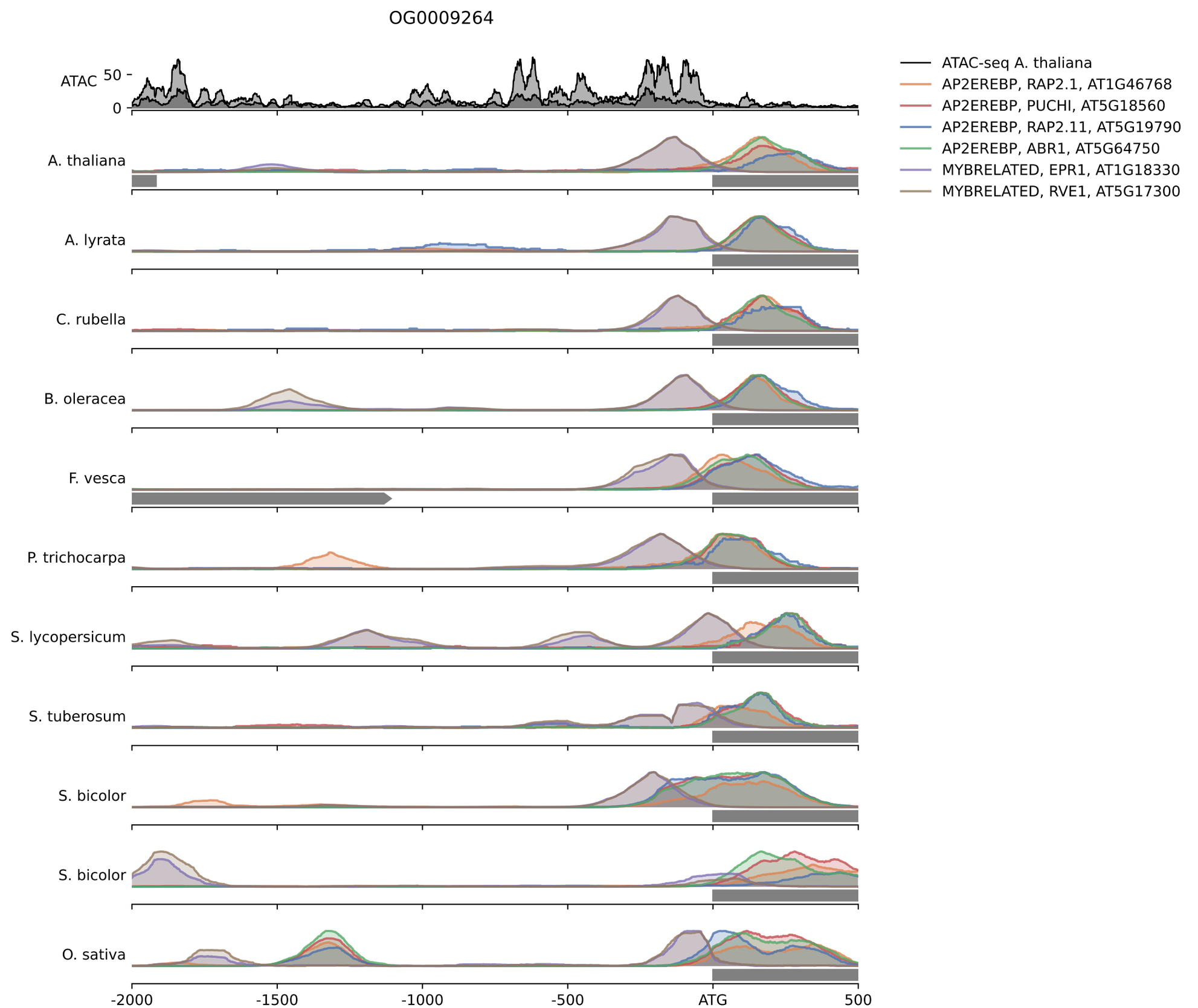
A. thaliana target: AT1G08560, SYP111, member of SYP11 syntaxin Gene Family localized in the trans-Golgi network.



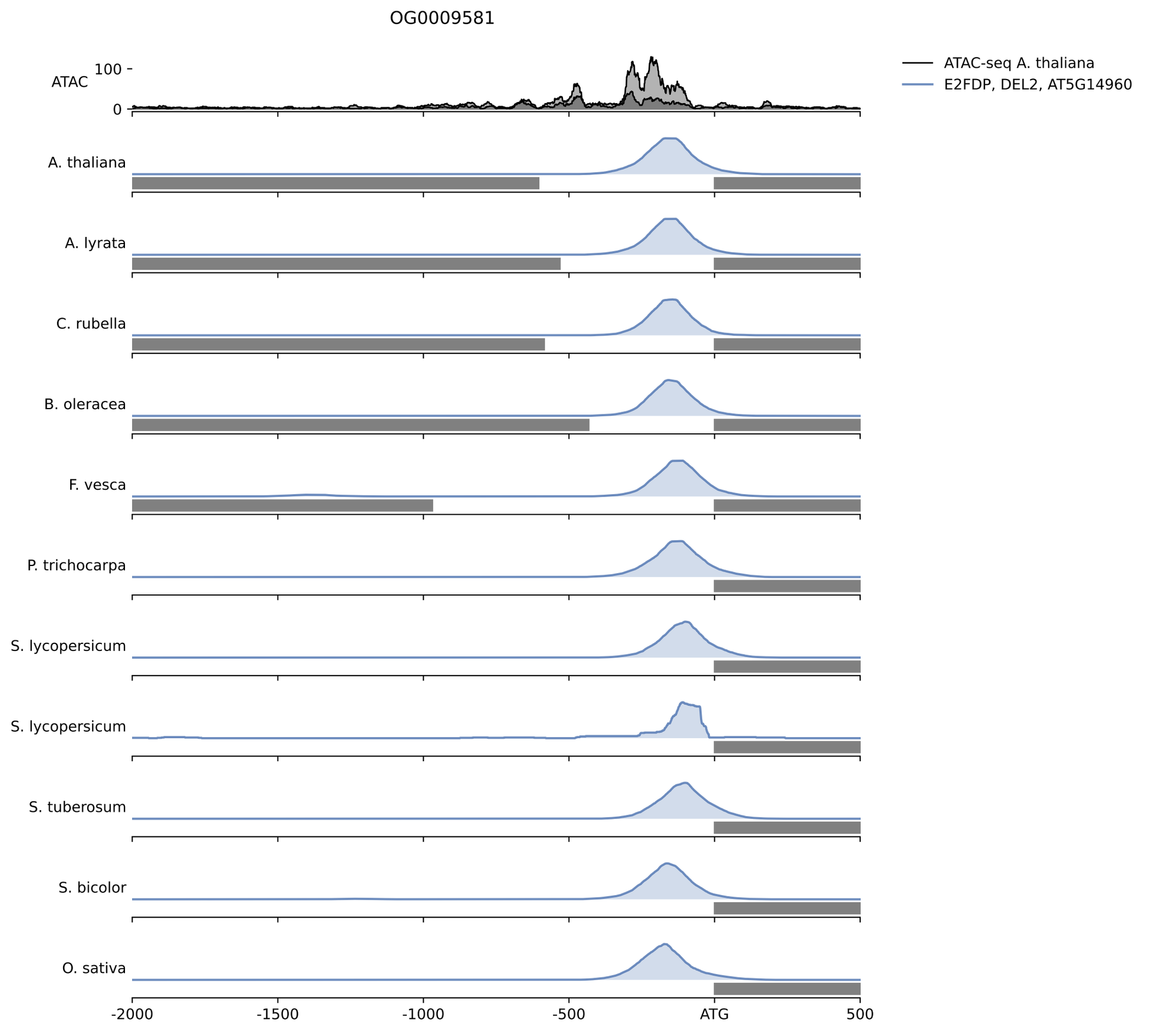
A. thaliana target: AT4G16660, Heat shock protein 70 (Hsp 70) family protein.



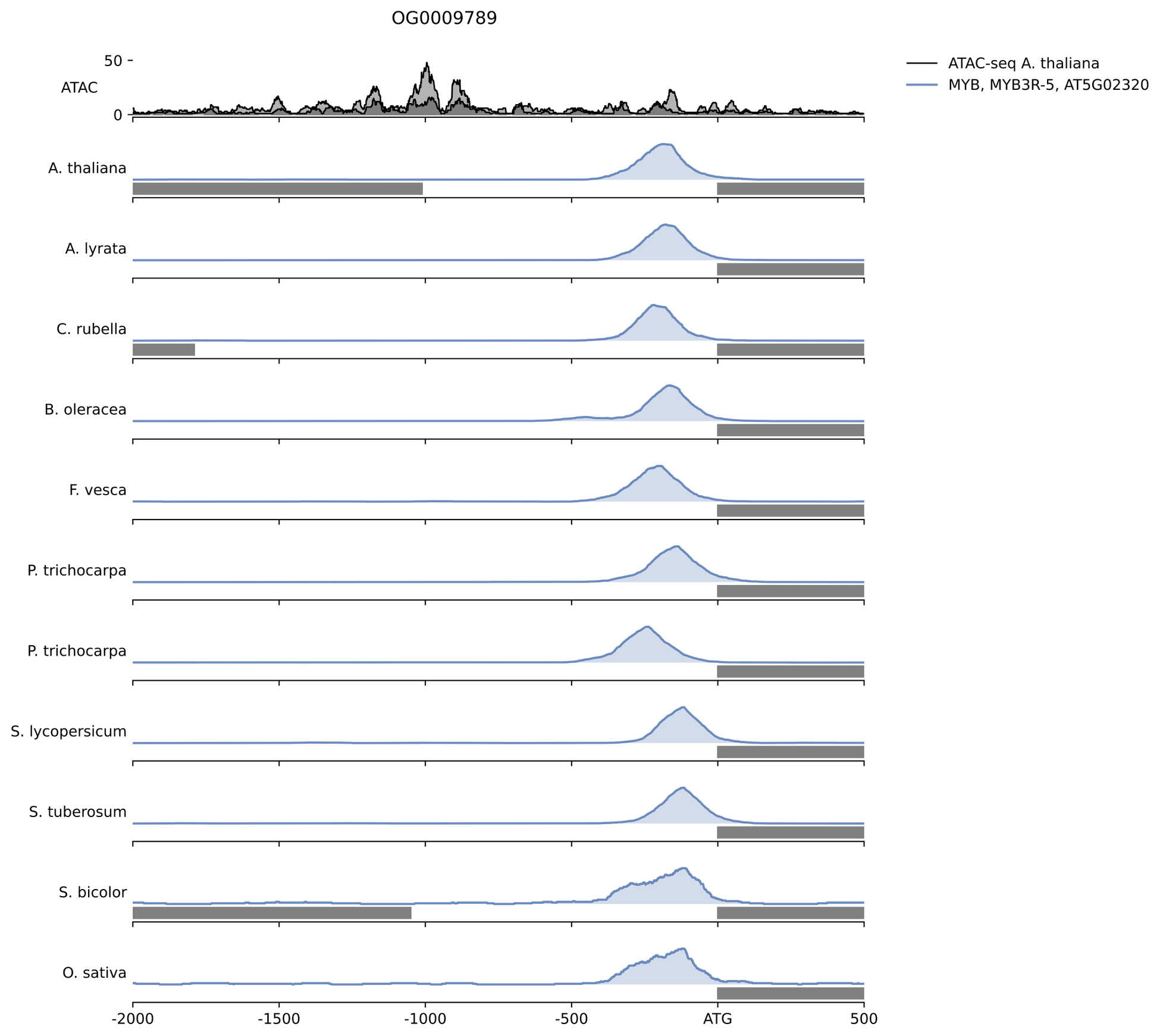
A. thaliana target: AT3G05330, ATN, Encodes a protein with moderate sequence similarity to the maize microtubule-binding protein TANGLED1. A single base-pair deletion (-A) at position Chr3:1519176 in Columbia relative to the Landsberg erecta and Achkarren-2 ecotype (see ESTs DR378436 and CB26450) introduces a frame-shift and premature termination codon. The protein encoded from the Columbia gene is truncated by 29 amino acids relative to the Landsberg erecta and Achkarren-2 encoded proteins. Involved in the identification of the division plane during mitosis amd cytokinesis



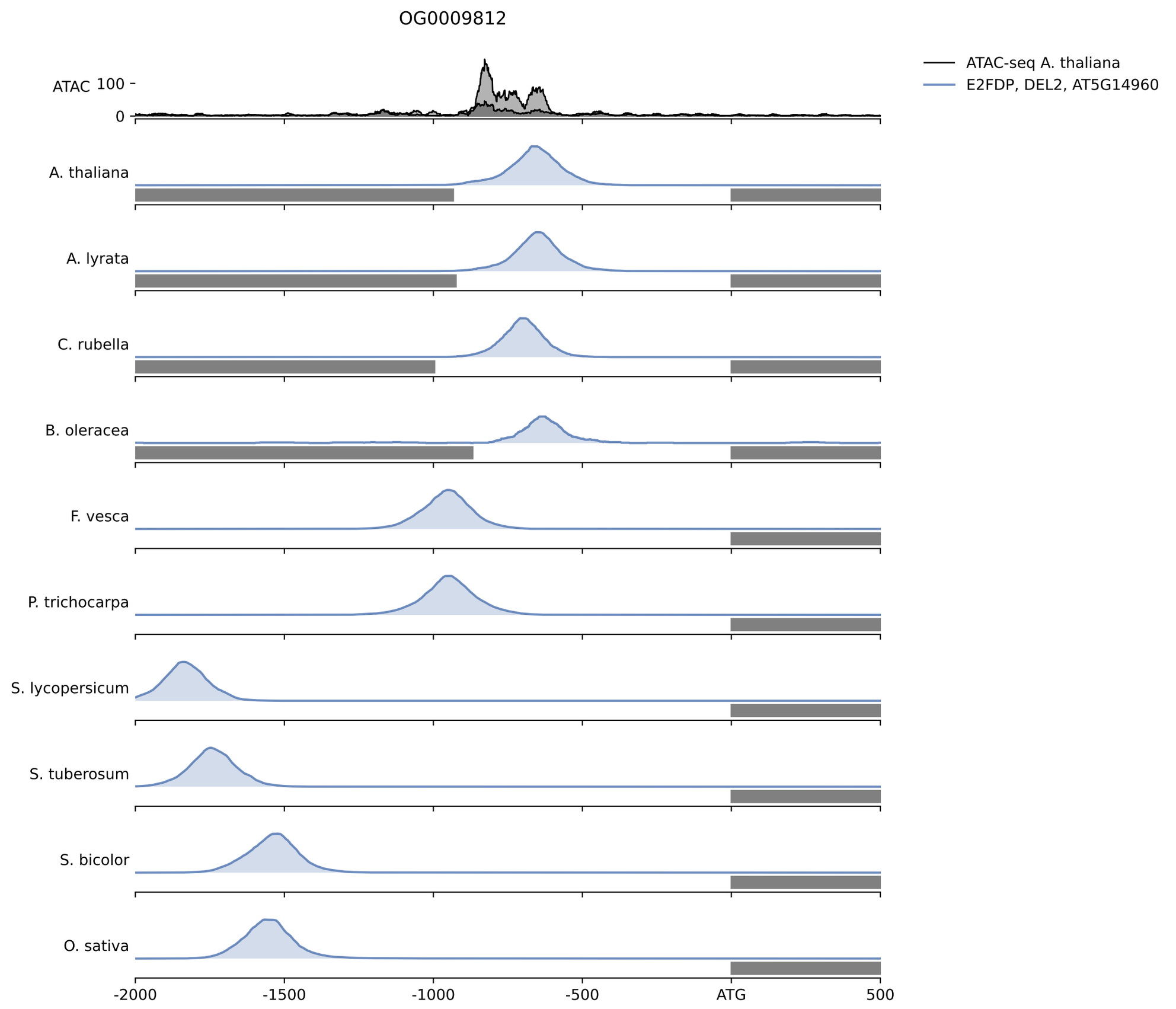
A. thaliana target: AT3G20810, JMJD5, JMJD5 encodes a protein which contains a jumonji-C (jmjC) domain. jmjd5 mutant plants have a short-period circadian phenotype. JMJD5 has histone demethylase activity and interacts with EFM to repress FT.



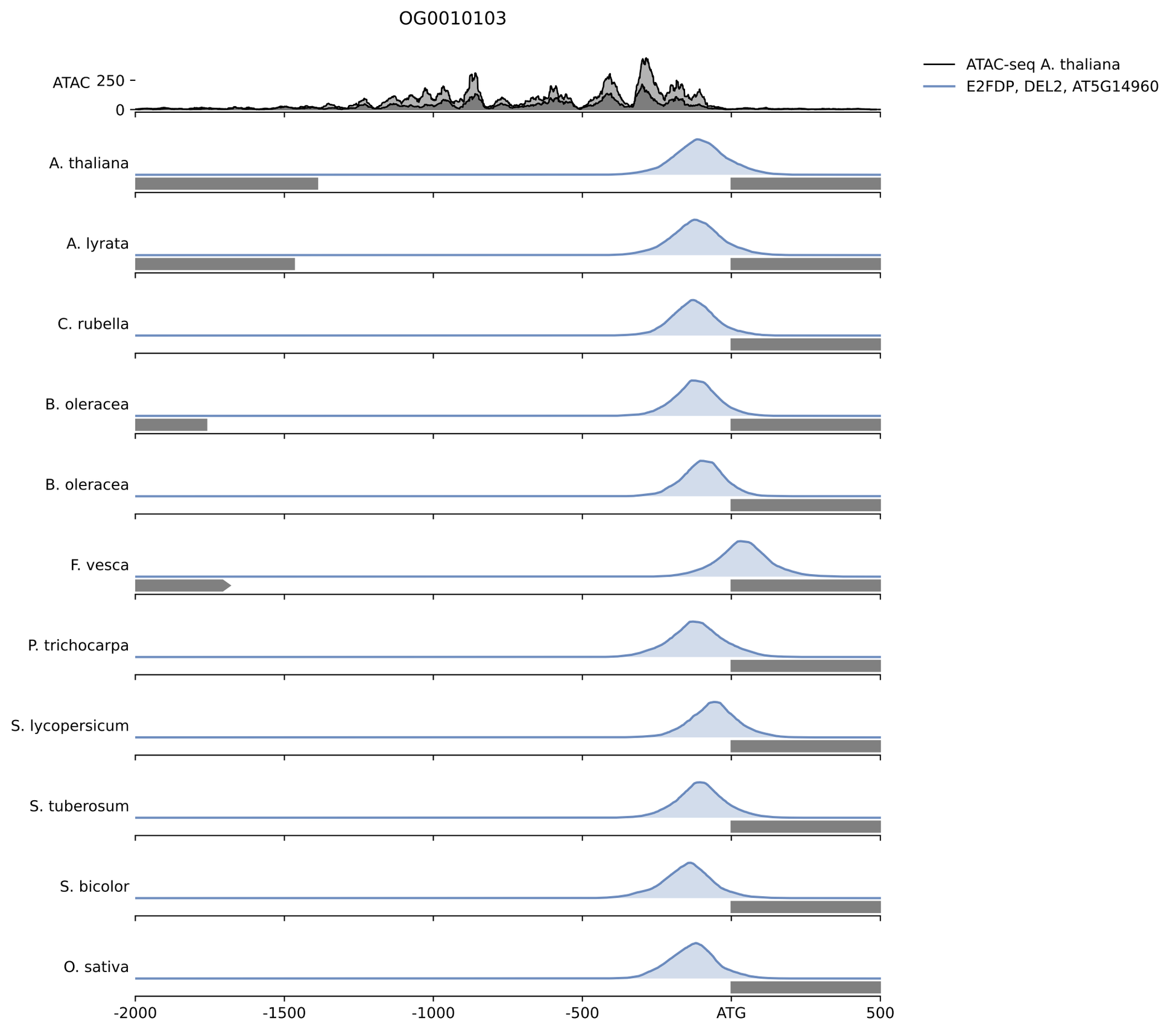
A. thaliana target: AT5G44635, MCM6, minichromosome maintenance (MCM2/3/5) family protein;(source:Araport11)



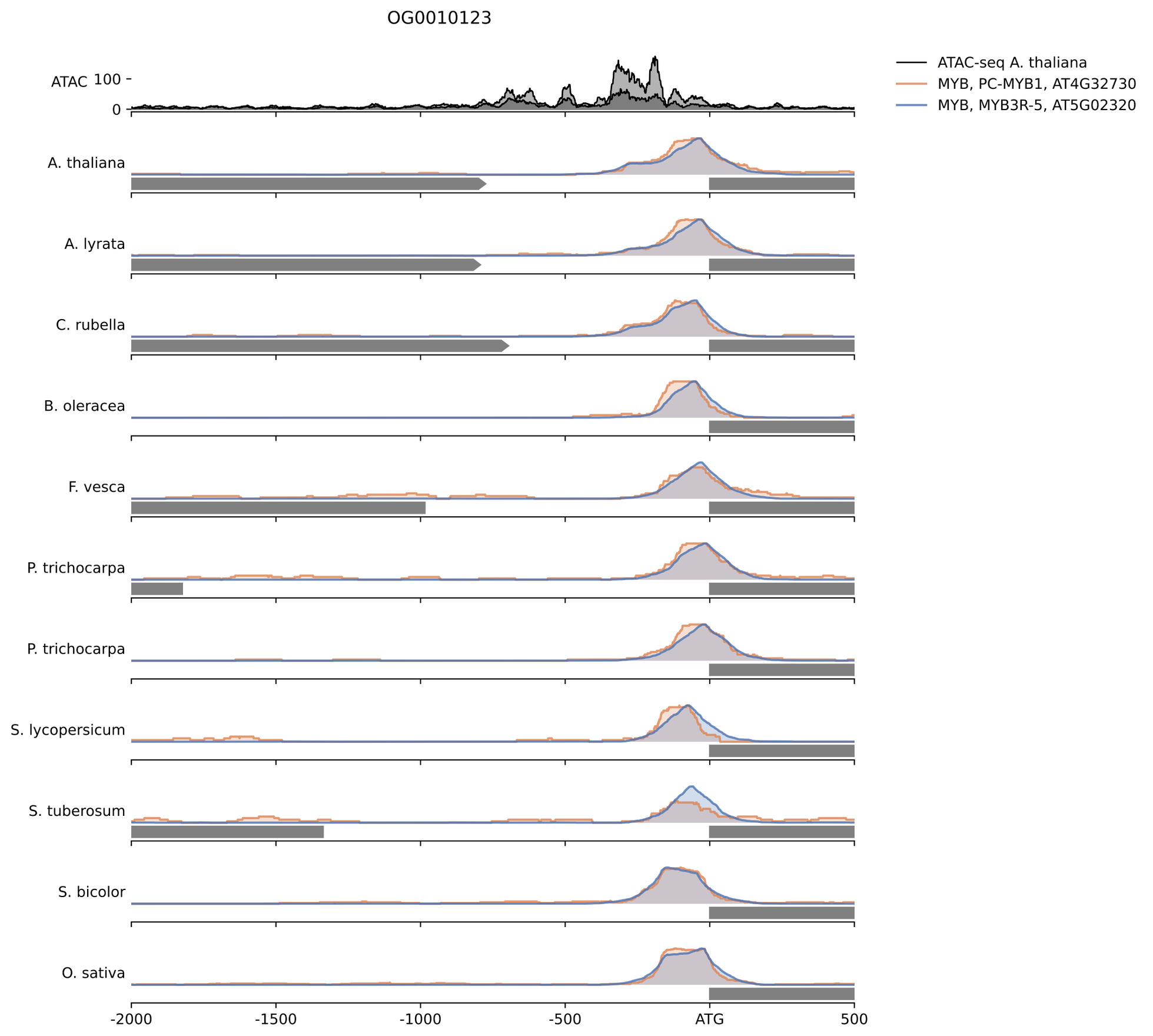
A. thaliana target: AT3G25980, MAD2, Encodes MAD2 (MITOTIC ARREST-DEFICIENT 2). May have the spindle assembly checkpoint protein functions conserved from yeast to humans.



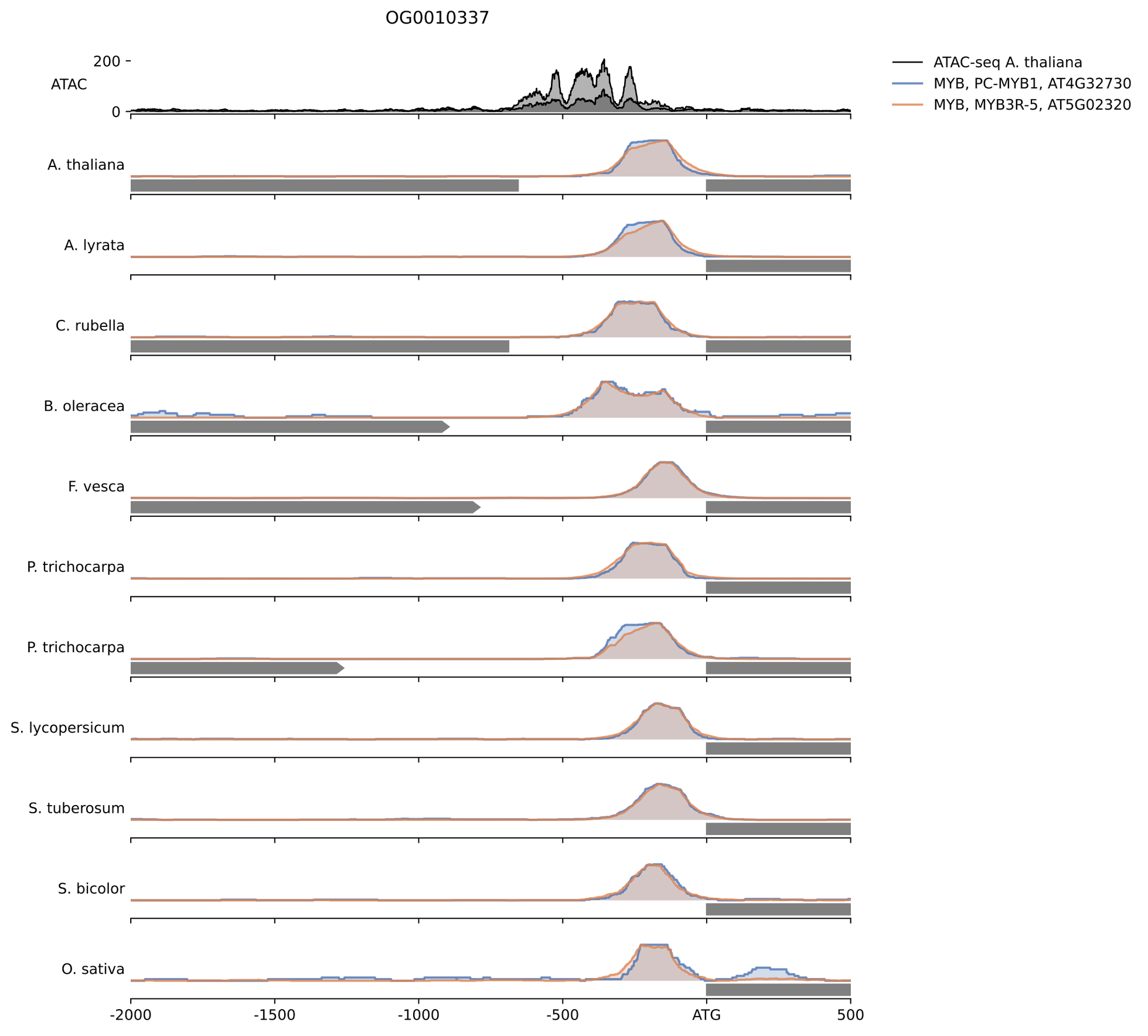
A. thaliana target: AT3G56870, hypothetical protein;(source:Araport11)



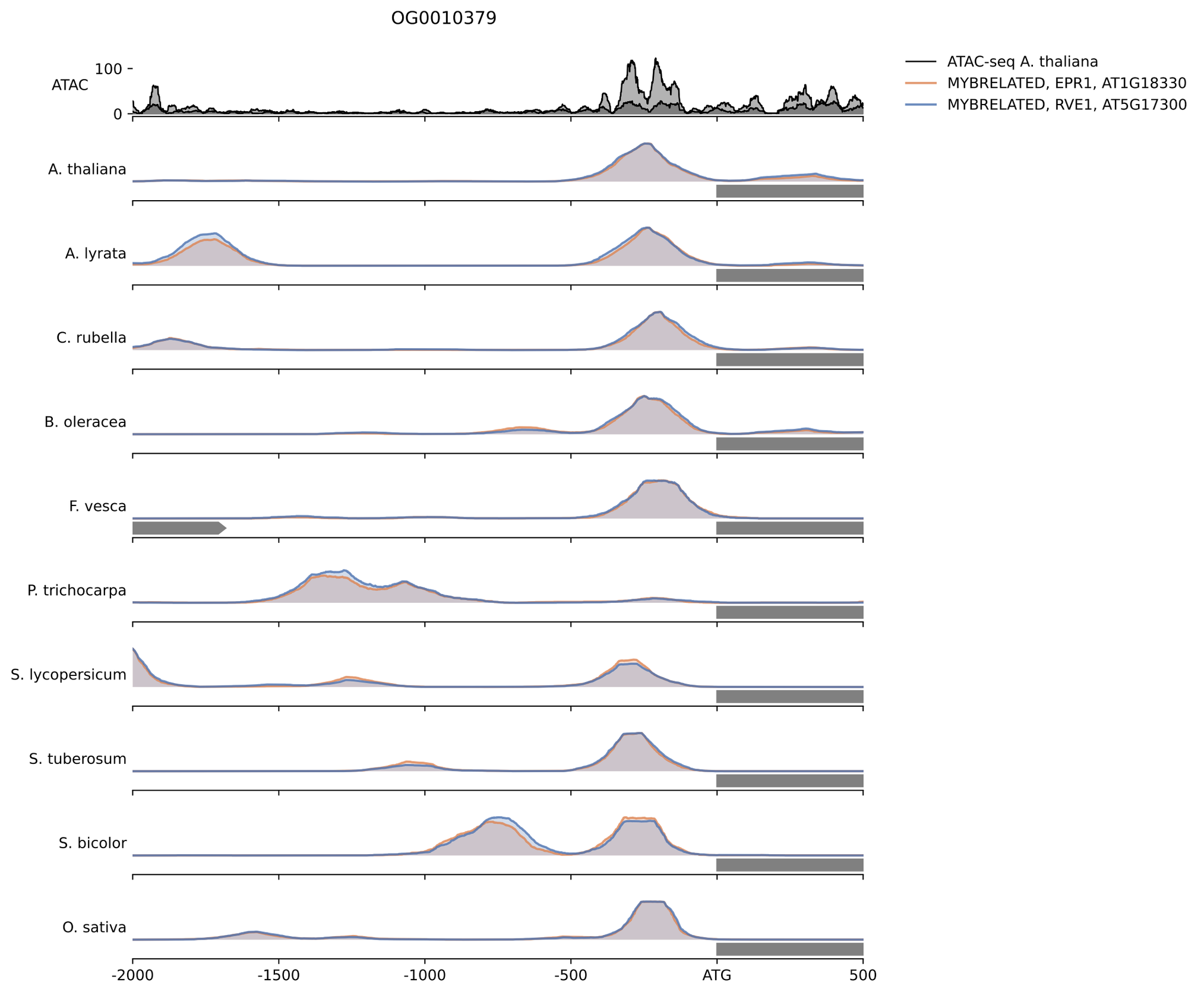
A. thaliana target: AT4G02060, PRL, Member of the minichromosome maintenance complex, involved in DNA replication initiation. Abundant in proliferating and endocycling tissues. Localized in the nucleus during G1, S and G2 phases of the cell cycle, and are released into the cytoplasmic compartment during mitosis. Binds chromatin.



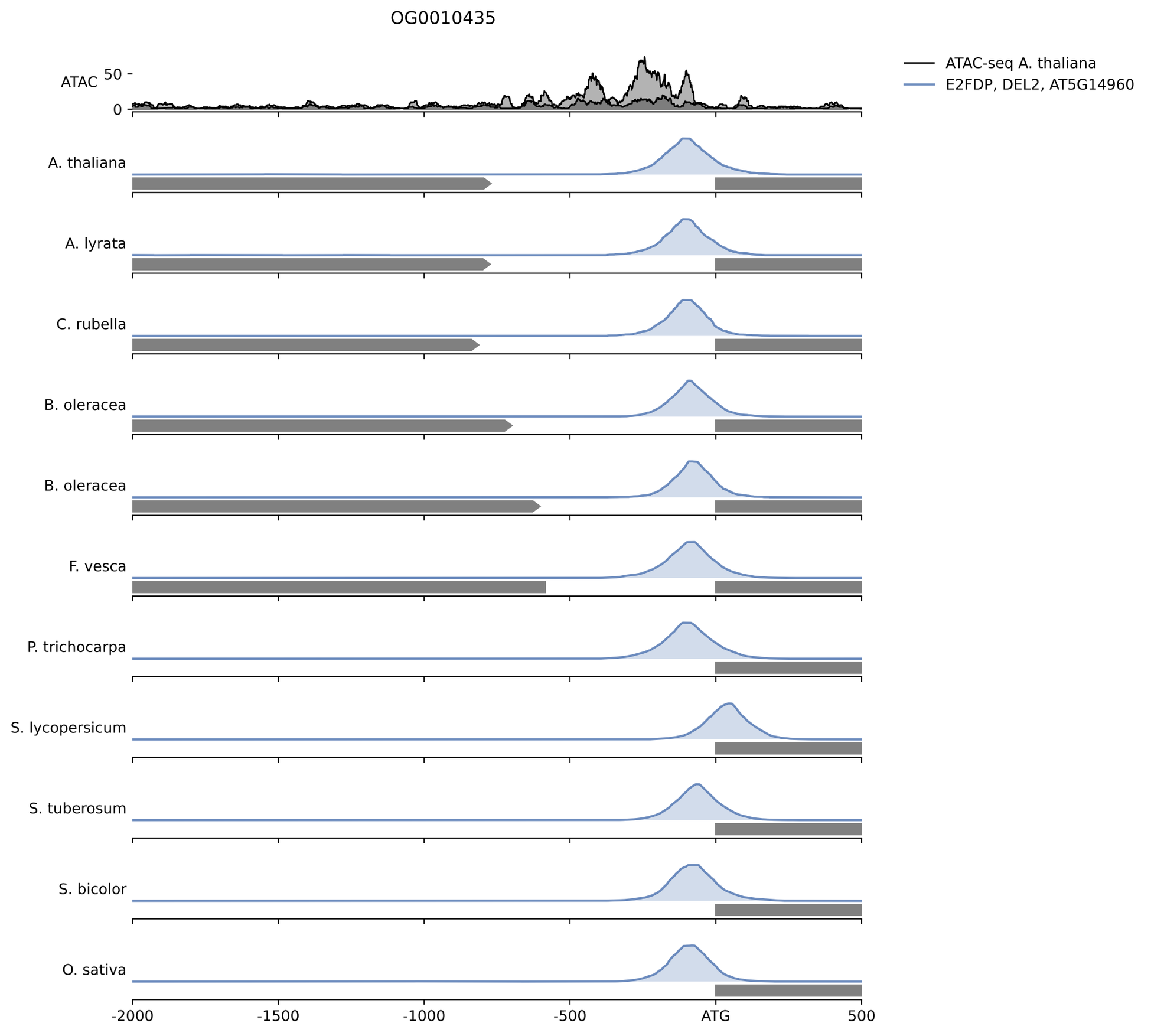
A. thaliana target: AT4G02800, GRIP/coiled-coil protein;(source:Araport11)



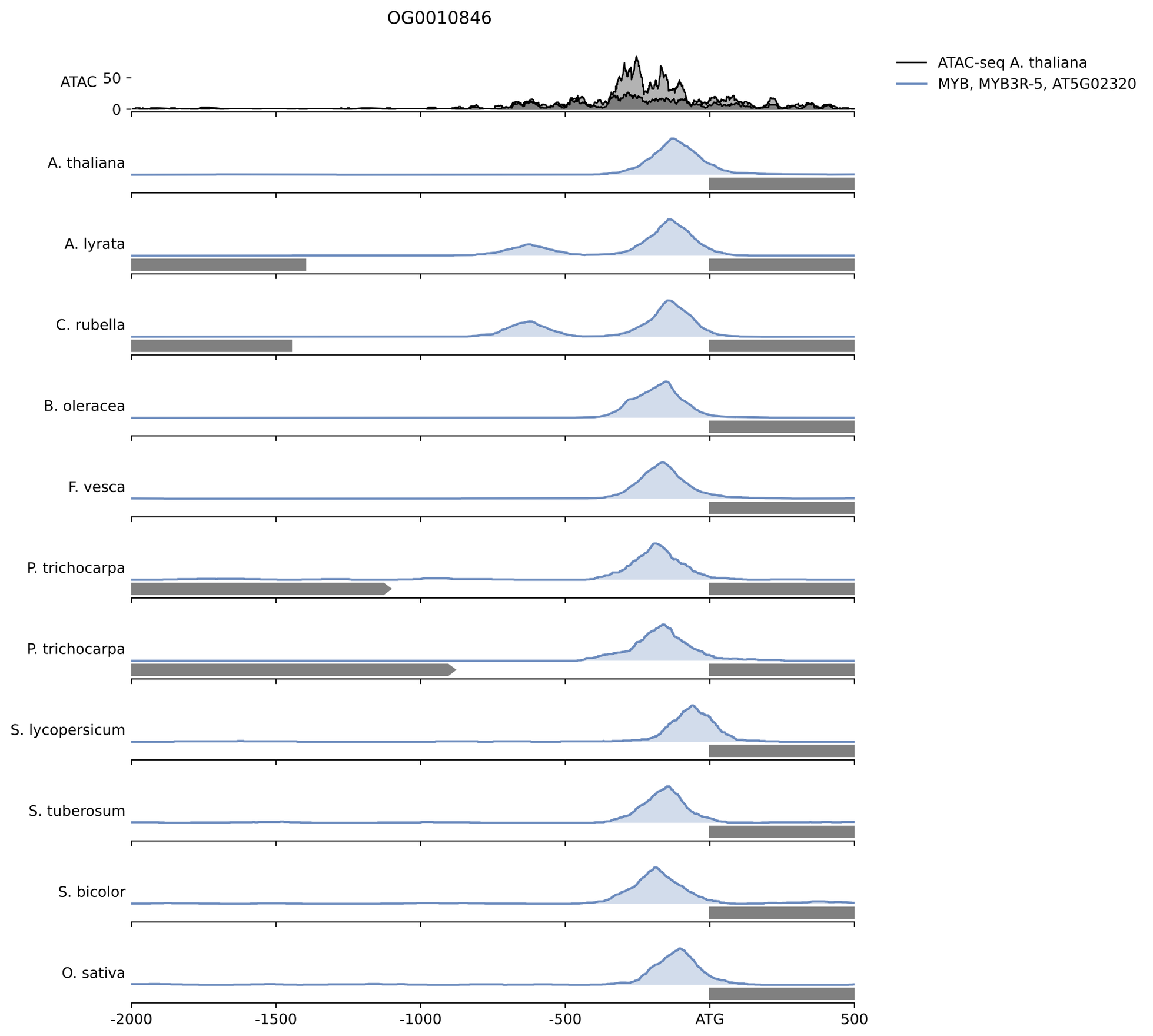
A. thaliana target: AT5G13840, FZR3, FIZZY-related 3;(source:Araport11)



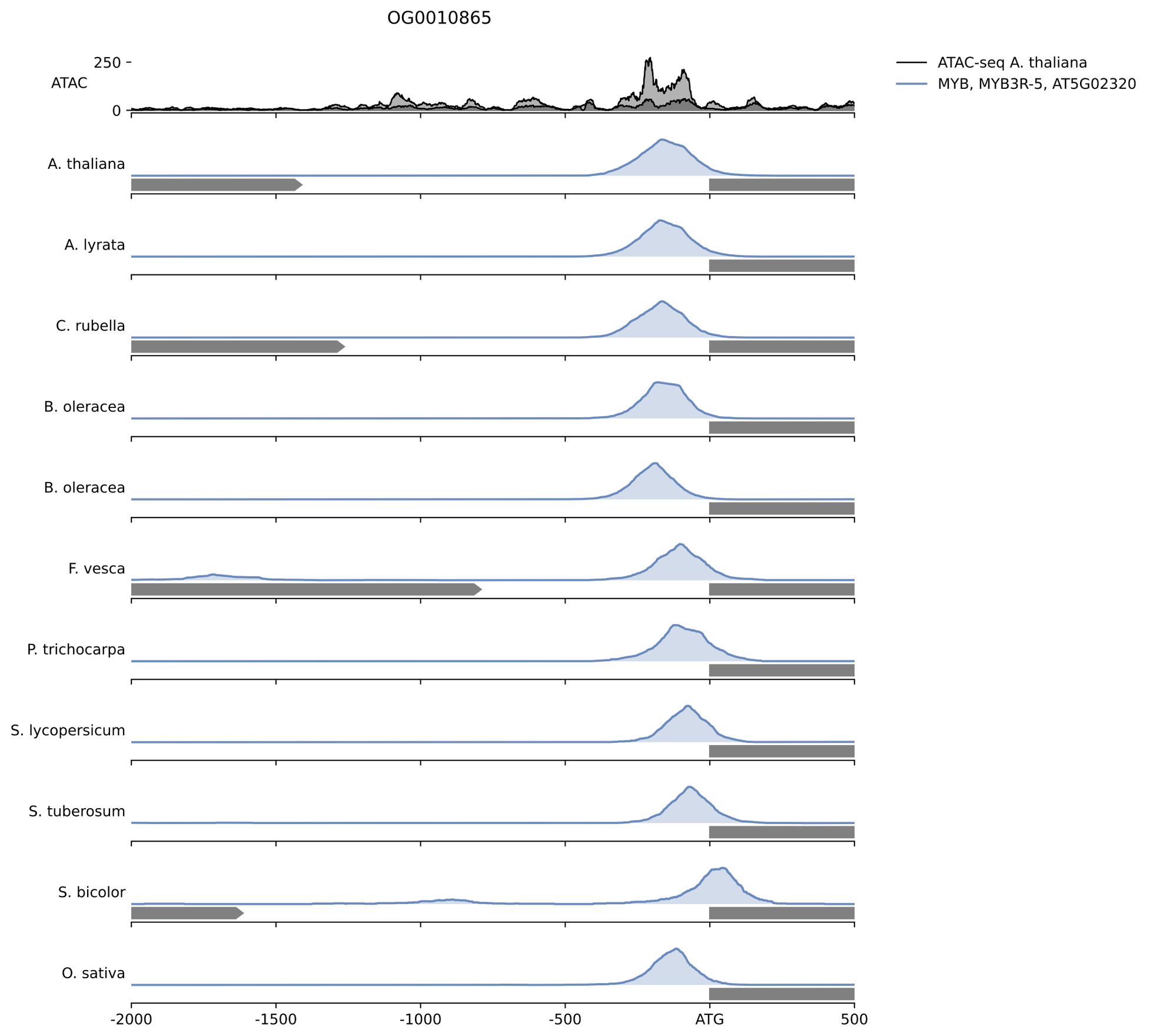
A. thaliana target: AT1G56300, Chaperone DnaJ-domain superfamily protein;(source:Araport11)



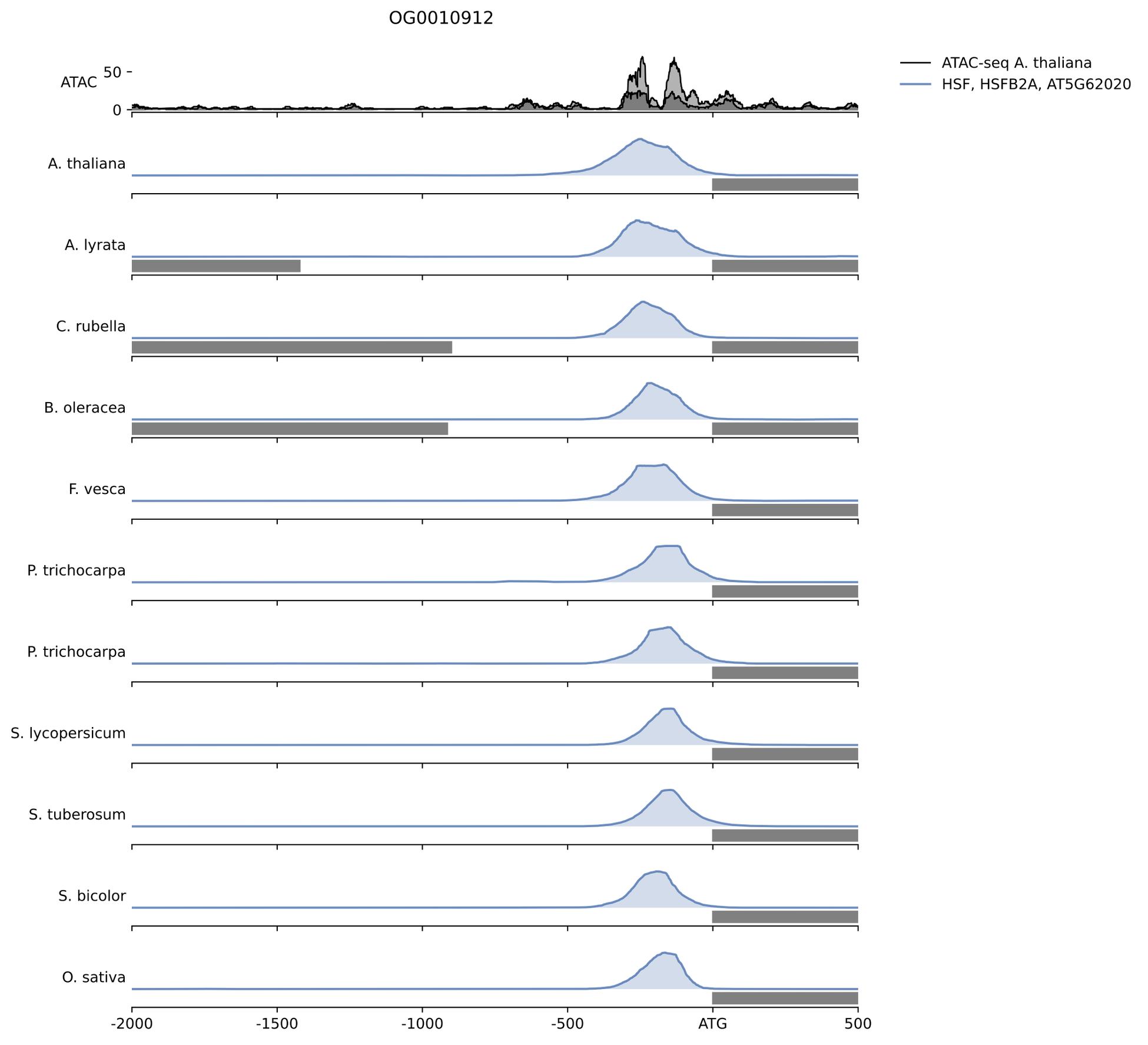
A. thaliana target: AT1G04730, CTF18, Necessary for sister chromatid cohesion. Acts in synergy with ETG1.



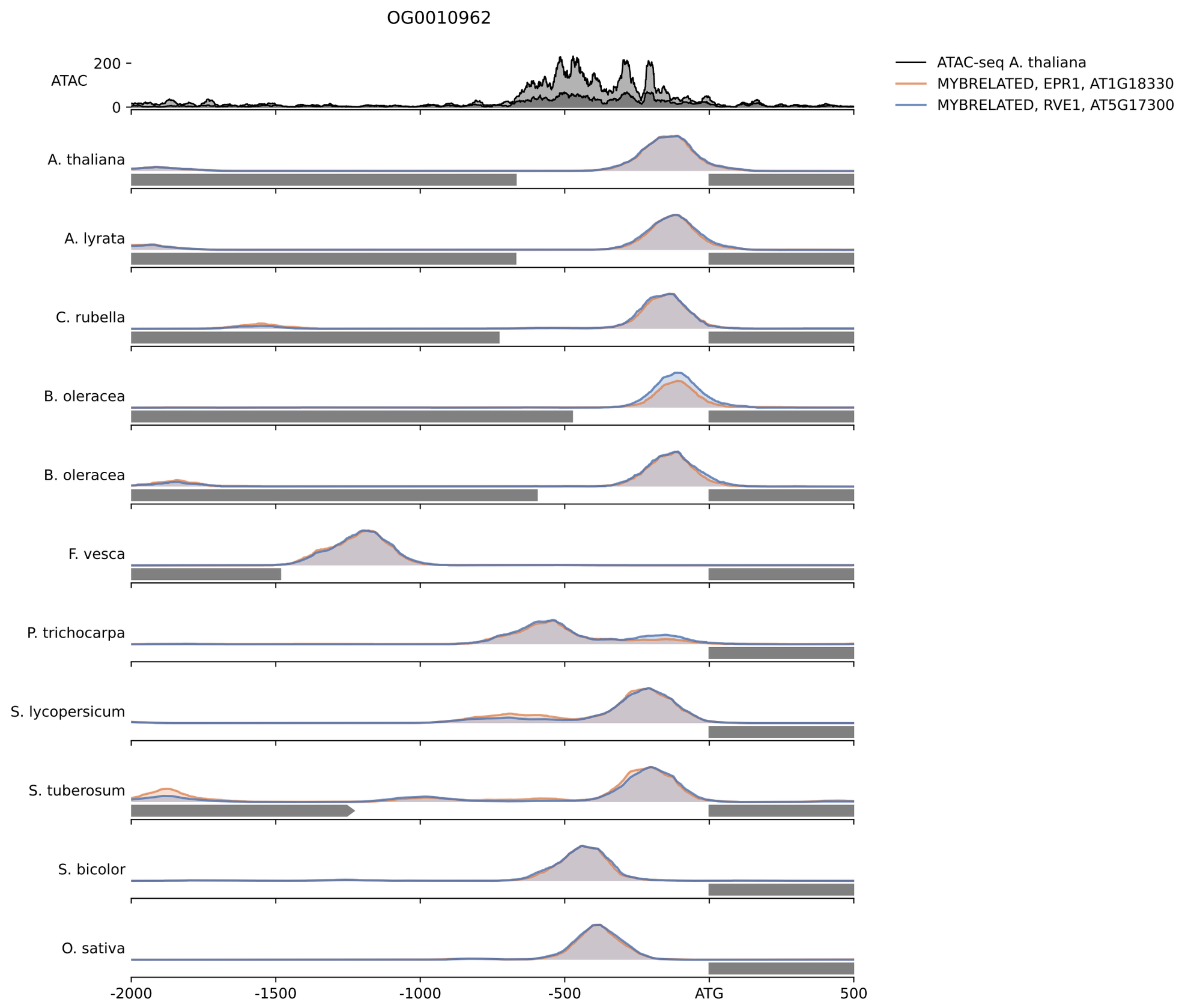
A. thaliana target: AT4G17000, neurofilament heavy protein;(source:Araport11)



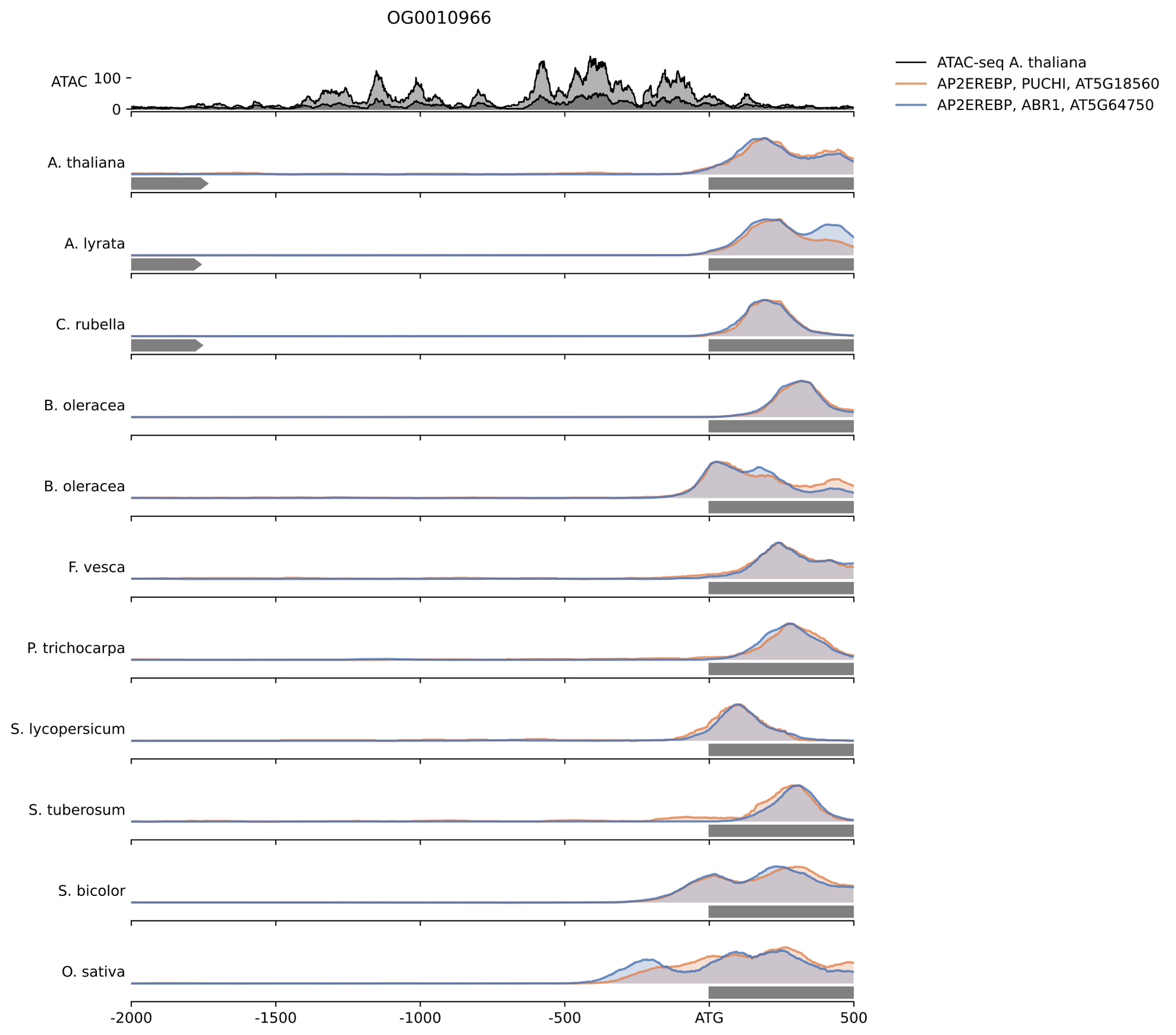
A. thaliana target: AT4G15140, hypothetical protein;(source:Araport11)



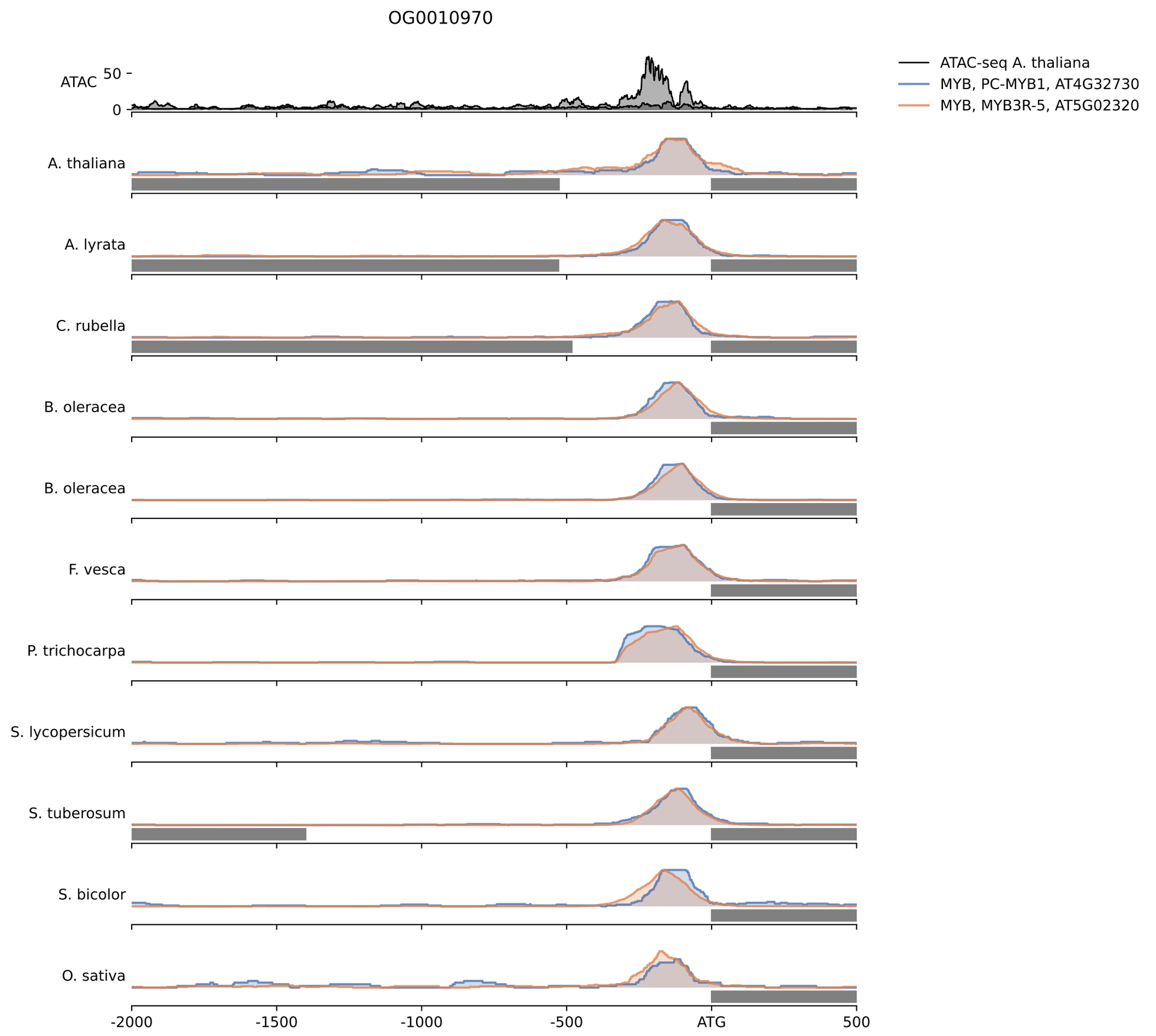
A. thaliana target: AT3G12050, Aha1 domain-containing protein;(source:Araport11)



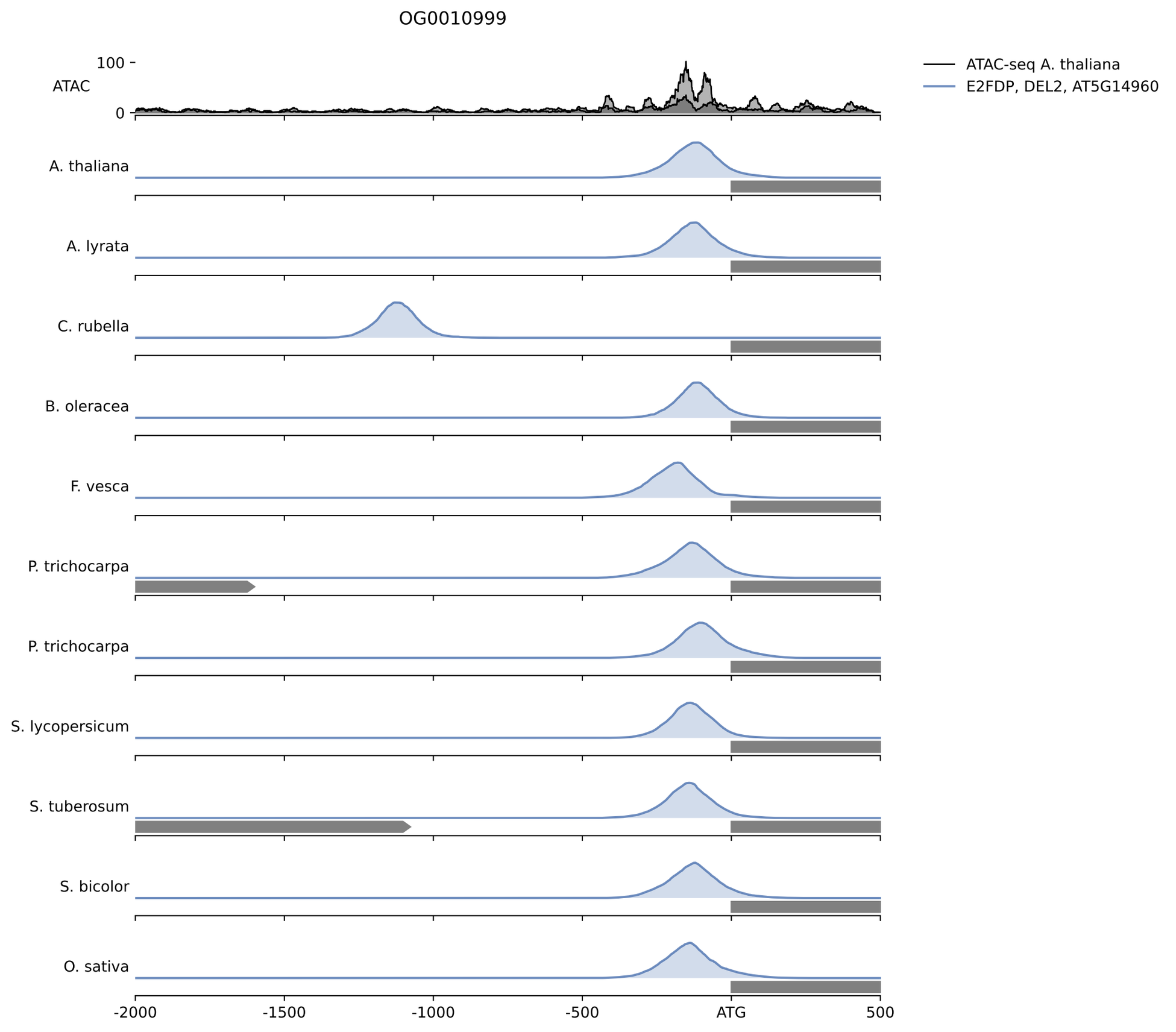
A. thaliana target: AT3G15840, PIFI, Encodes a chloroplast-targeted protein localized in the stroma that is a novel component essential for NDH-mediated non-photochemical reduction of the plastoquinone pool in chlororespiratory electron transport.



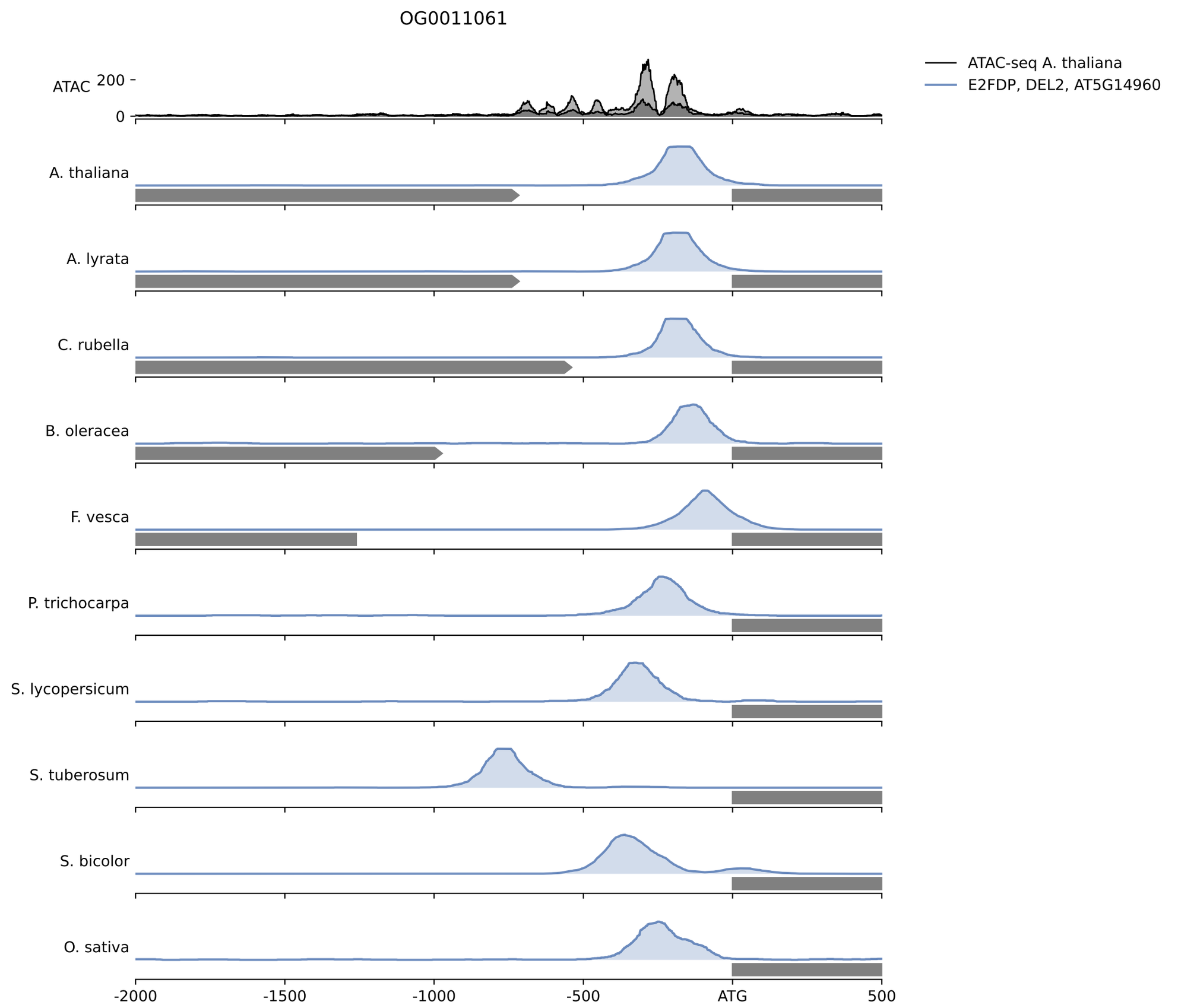
A. thaliana target: AT3G18930, RING/U-box superfamily protein;(source:Araport11)



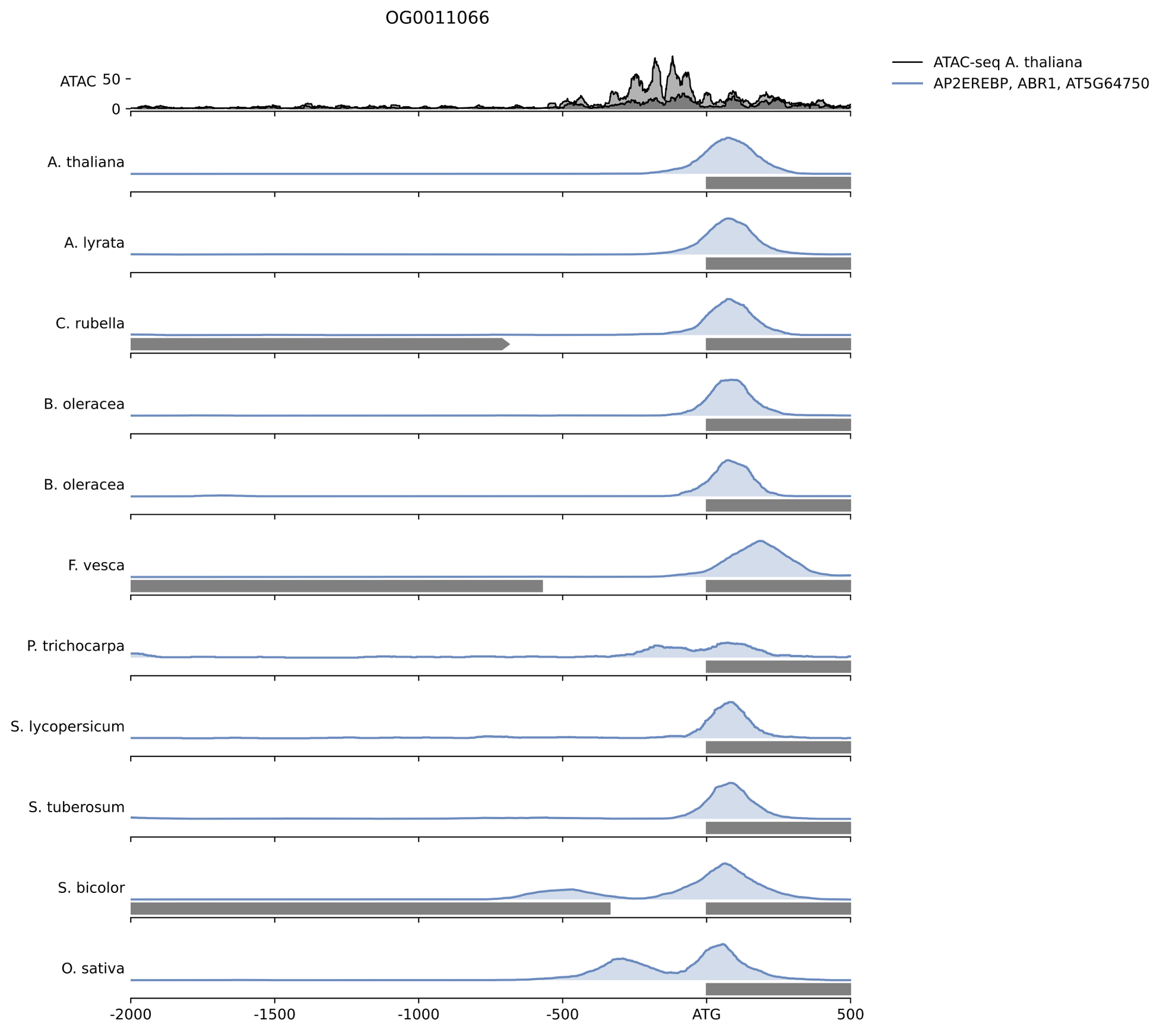
A. thaliana target: AT3G12870, transmembrane protein;(source:Araport11)



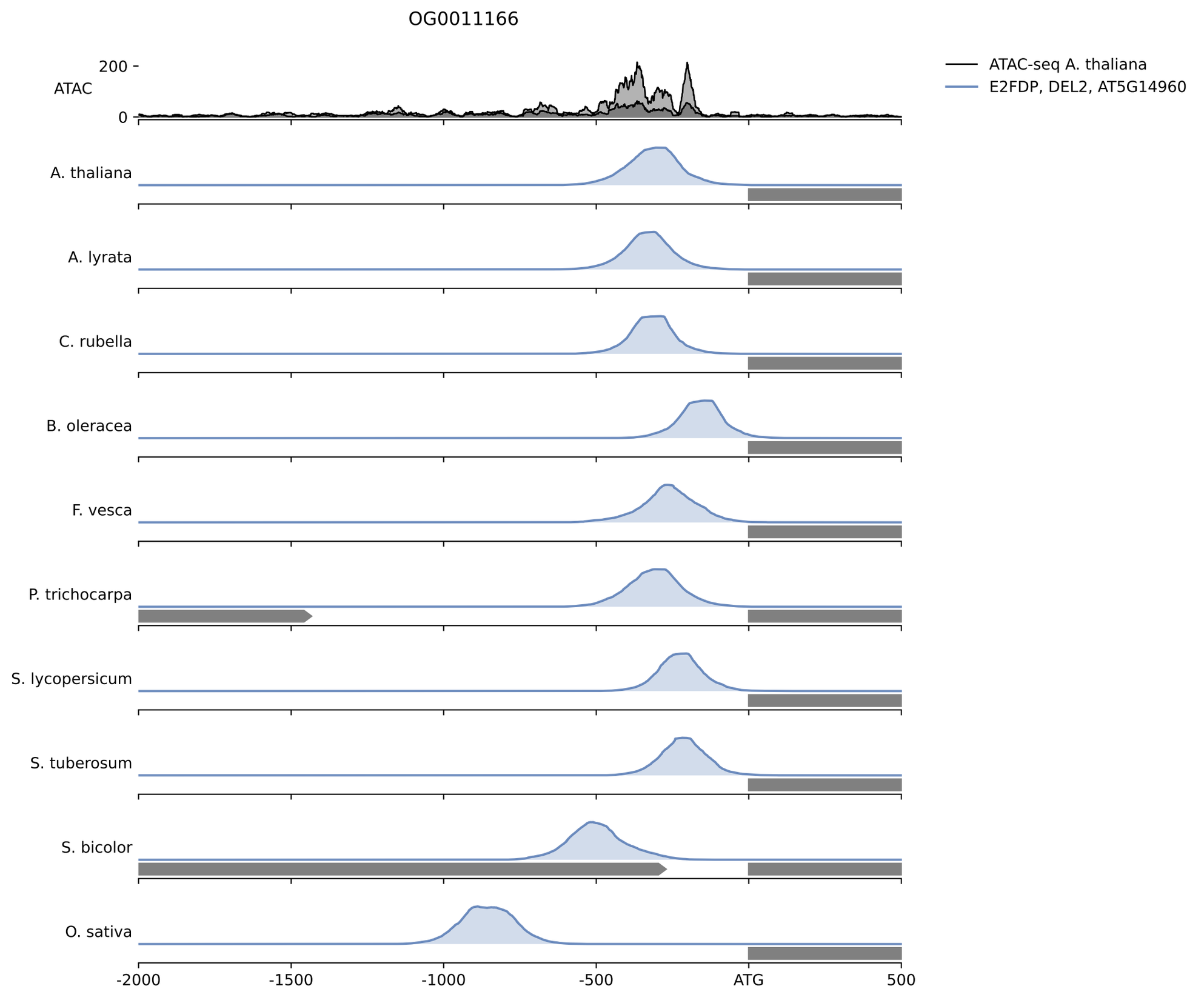
A. thaliana target: AT2G07690, MCM5, Member of the minichromosome maintenance complex, involved in DNA replication initiation. Abundant in proliferating and endocycling tissues. Localized in the nucleus during G1, S and G2 phases of the cell cycle, and are released into the cytoplasmic compartment during mitosis. Binds chromatin.



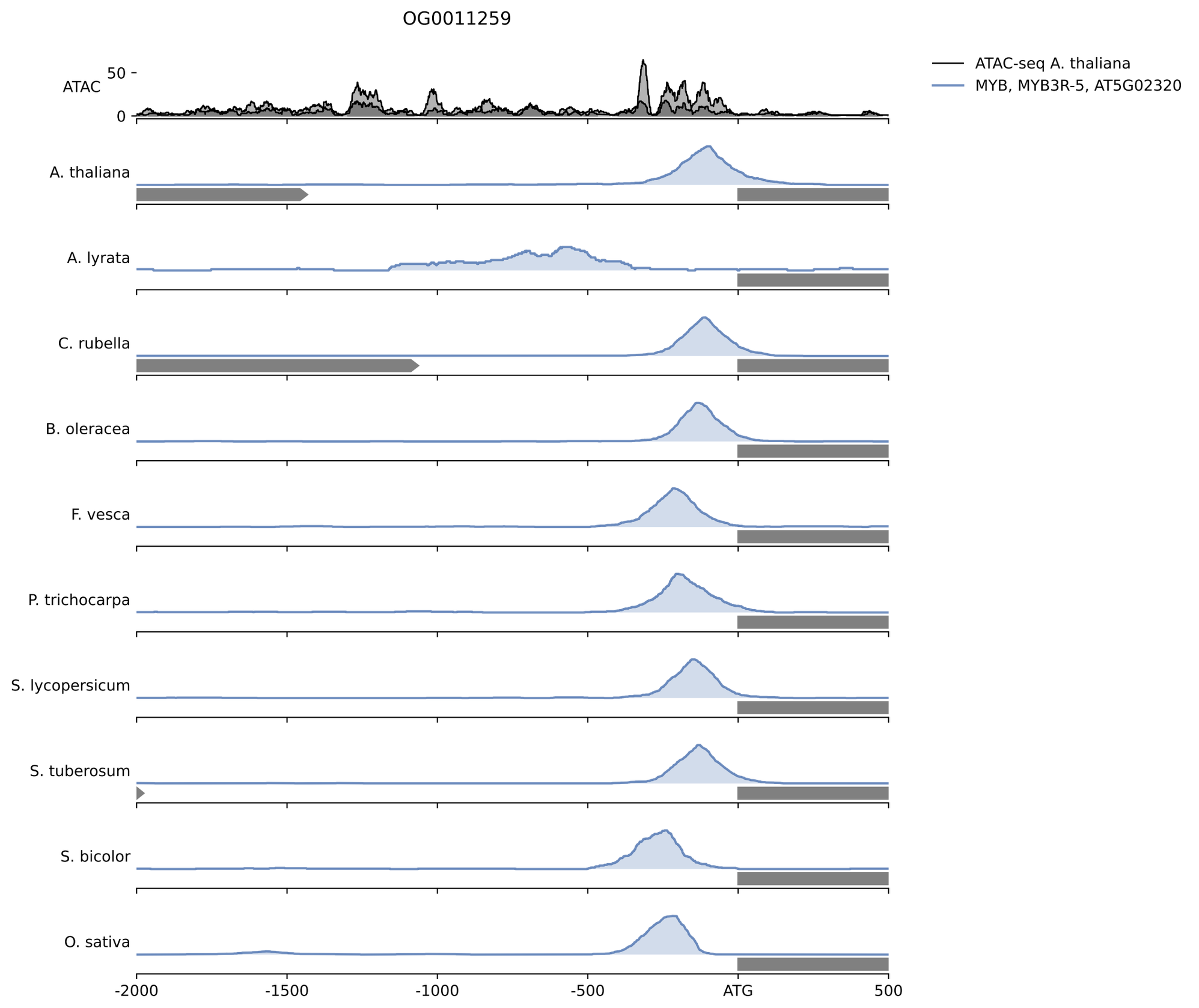
A. thaliana target: AT3G21480, BRCT domain-containing DNA repair protein;(source:Araport11)



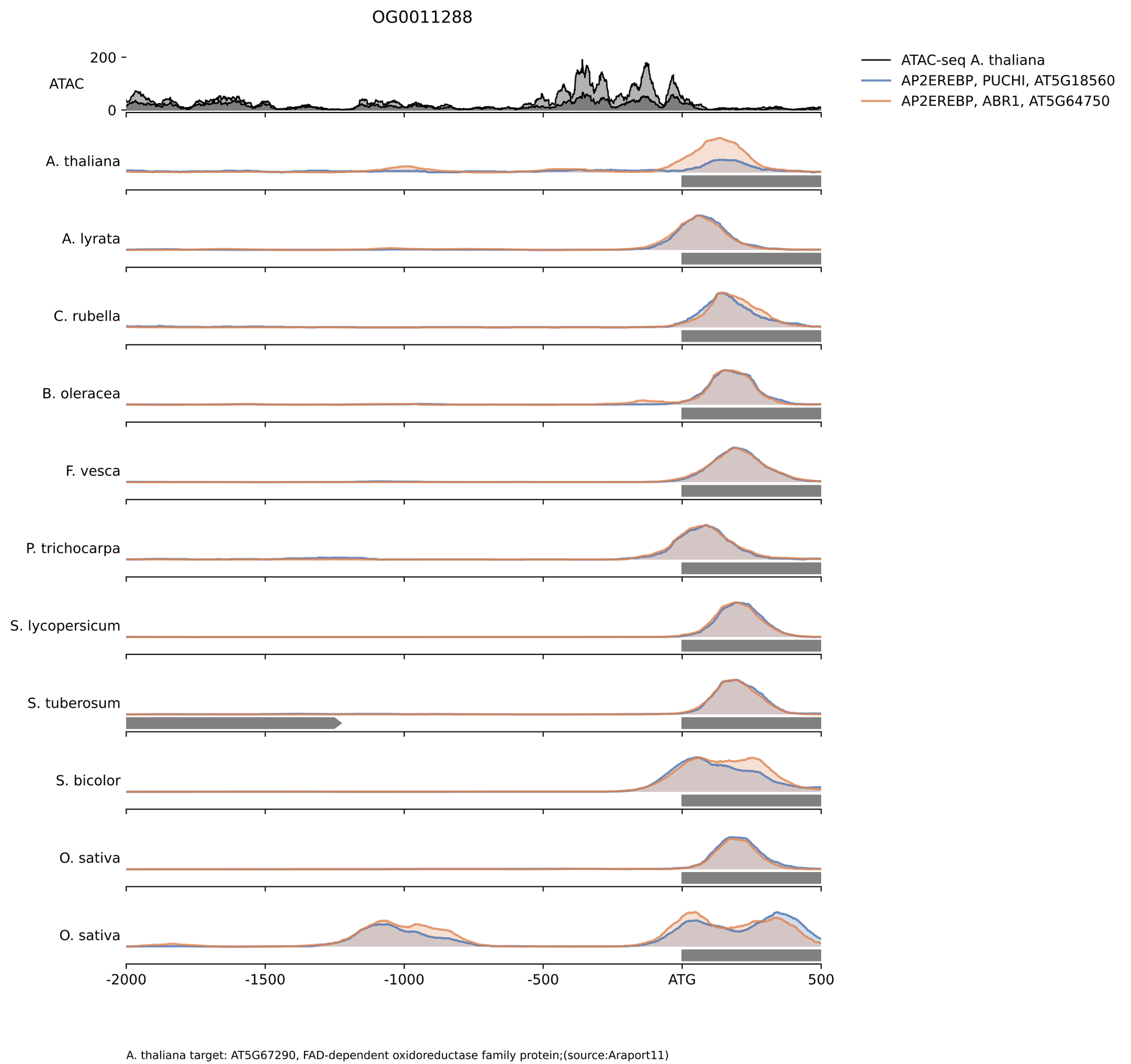
A. thaliana target: AT3G09180, Mediator complex subunit.



A. thaliana target: AT1G65470, FAS1, Chromatin Assembly Factor-1 (CAF-1) p150 subunit. Mutants have reduced heterochromatin content. In Arabidopsis, the three CAF-1 subunits are encoded by FAS1, FAS2 and, most likely, MSI1, respectively. Mutations in FAS1 or FAS2 lead to increased frequency of homologous recombination and T-DNA integration in Arabidopsis.



A. thaliana target: AT5G48310, Protein of unknown function that may be involved in stress response.
Strongly expressed in vascular tissues.Mutants are ABA- insensitive.


OG0011288
ATAC
200
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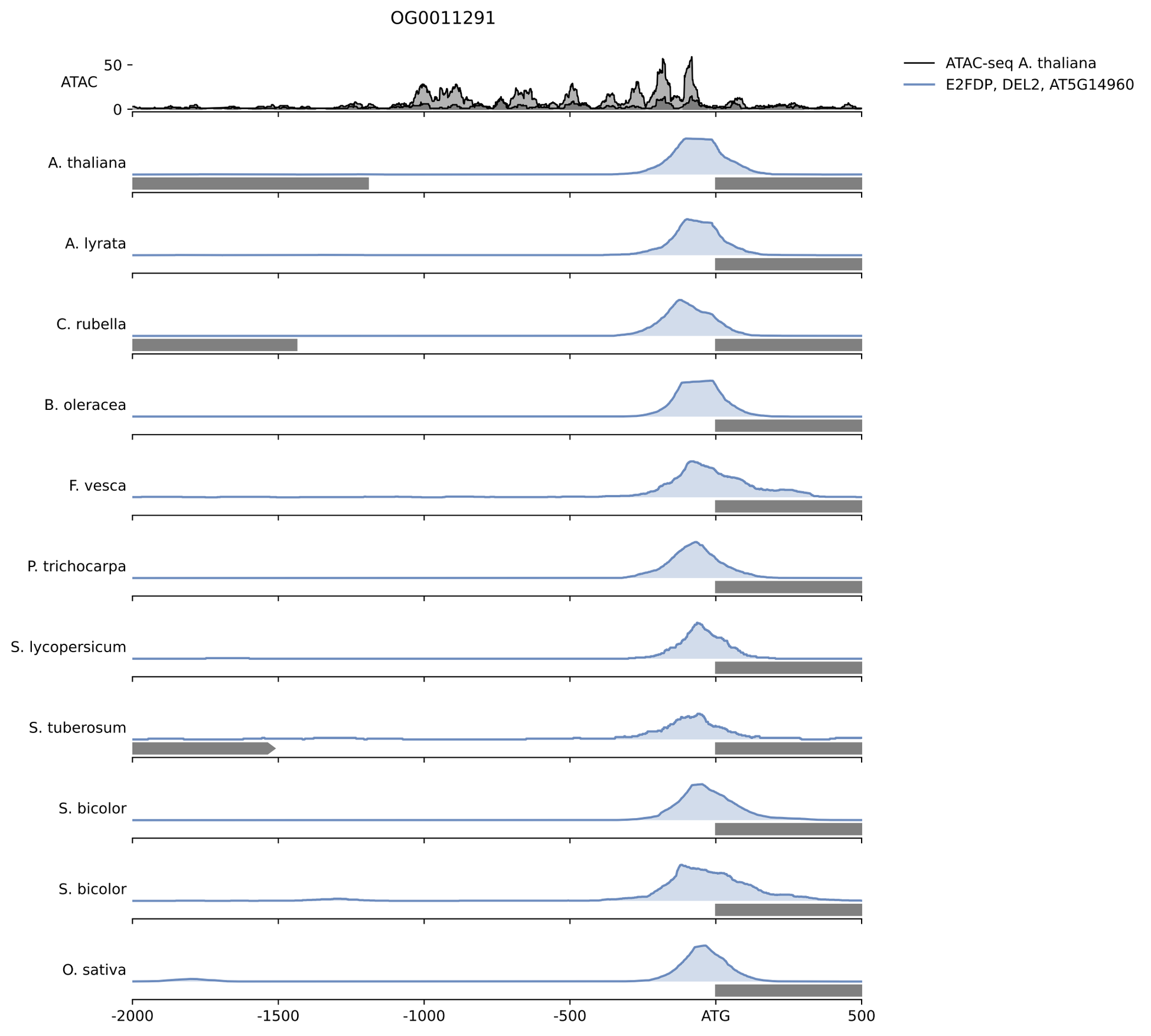
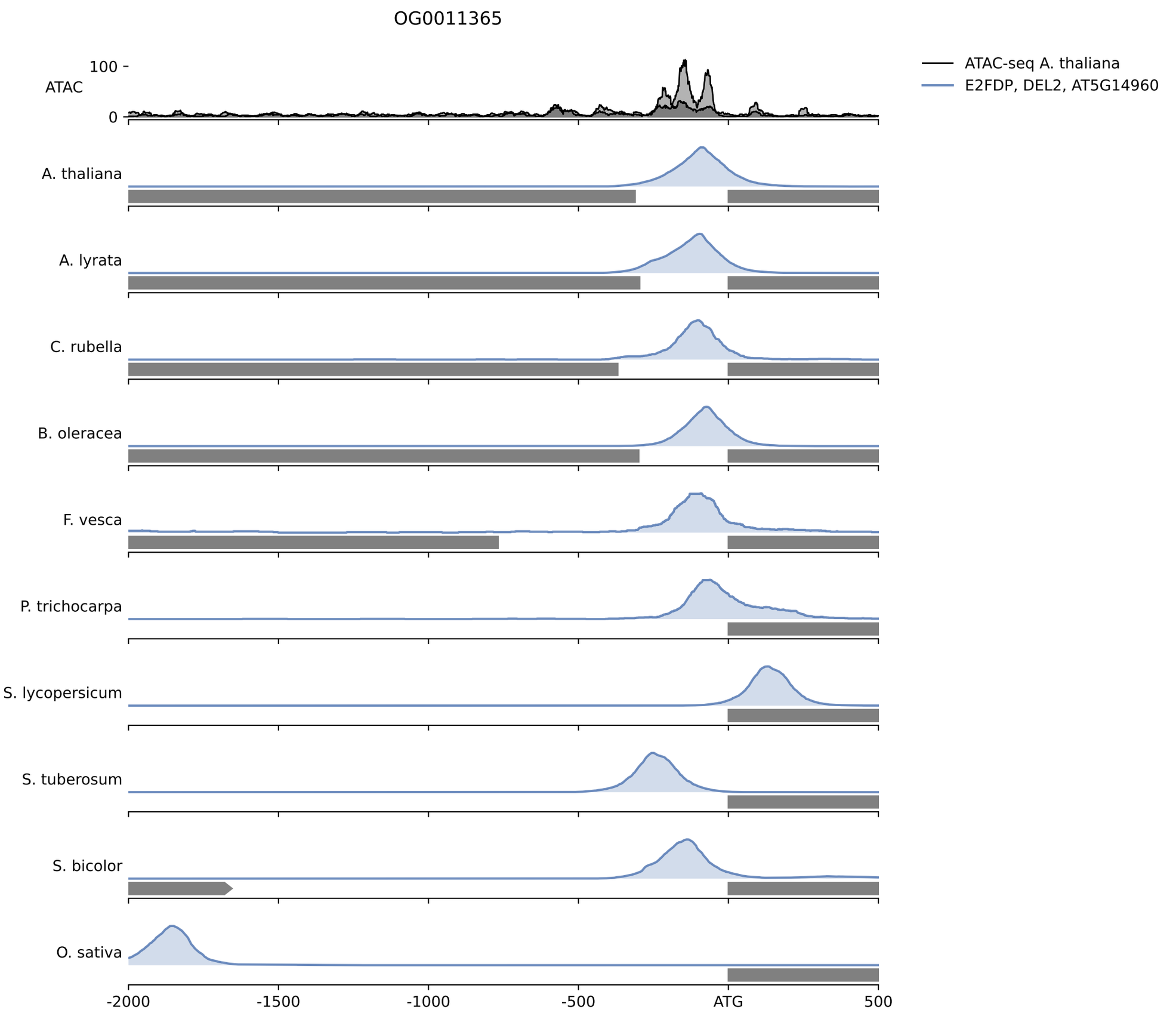
ATAC-seq A. thaliana
AP2EREBP, PUCHI, AT5G18560
AP2EREBP, ABR1, AT5G64750
A. thaliana
A. lyrata
C. rubella
B. oleracea
F. vesca
P. trichocarpa
S. lycopersicum
S. tuberosum
S. bicolor
O. sativa
O. sativa
-2000
-1500
-1000
-500
ATG
500
A. thaliana target: AT5G67290, FAD-dependent oxidoreductase family protein;(source:Araport11)



A. thaliana target: AT5G63960, Encodes the catalytic subunits of DNA polymerase δ, which is involved in the deposition of epigenetic marks.



A. thaliana target: AT5G52950, LIM domain protein;(source:Araport11)