

ZW001714

TCP4 Antibody



- 50ul
- 100 uL

Order 021-34695924
orders@ab-mart.com
Support 400-6123-828
support1@ab-mart.com
Web www.ab-mart.com.cn

Description:

Transcription factor playing a pivotal role in the control of morphogenesis of shoot organs by negatively regulating the expression of boundary-specific genes such as CUC genes, probably through the induction of miRNA (e.g. miR164) (PubMed:12931144, PubMed:17307931). Required during early steps of embryogenesis (PubMed:15634699). Participates in ovule development (PubMed:25378179). Activates LOX2 expression by binding to the 5'-GGACCA-3' motif found in its promoter (PubMed:18816164, PubMed:12931144, PubMed:15634699, PubMed:17307931, PubMed:25378179). Activates YUC5 transcription by binding to the 5'-GTGGCCA-3' motif found in its promoter (PubMed:27597774). Through the activation of YUC5 transcription, integrates the auxin response to a brassinosteroid-dependent molecular circuit that promotes cell elongation in hypocotyls (PubMed:27597774). Activates GIS transcription by binding to the 5'-TGGTCC-3' motif found in its promoter (PubMed:29165850). Involved in the regulation of trichome branching through the activation of GIS transcription (PubMed:29165850). Activates CO transcription by binding to the 5'-GGACCAC-3' motif found in its promoter (PubMed:28628608). Involved in the regulation of photoperiodic flowering through the activation of CO transcription (PubMed:28628608). Activates TCL1 and TCL2 transcription by binding to the 5'-TGGCCA-3' and 5'-GTGGACCA-3' motifs found in their respective promoters (PubMed:31575625). Involved in the suppression of trichome initiation through the activation of TCL1 and TCL2 transcription (PubMed:31575625). Activates HAT2 transcription by binding to the 5'-TGGTCCAC-3' motif found in its promoter (PubMed:30742619). Through the activation of HAT2 transcription, involved in the auxin-independent reprogramming of mitotic cells to exit division and acquire differentiation competence within the transition zone (PubMed:30742619).

Uniprot:Q8LPR5; At3g15030

Alternative Names:

Transcription factor TCP4; Protein MATERNAL EFFECT EMBRYO ARREST 35; MEE35;

Predicted reactivity:

Arabidopsis thaliana, Oryza sativa, Glycine max, Solanum lycopersicum, Solanum tuberosum, Zea mays, Triticum aestivum;

Reactivity: Arabidopsis thaliana

Source: Mouse

Mol.Wt.: 45.96kDa

Storage Condition: Store at -20 °C. Stable for 12 months from date of receipt.

Application: WB 1:1000-1:2000; IHC/IF 1:50-1:500