

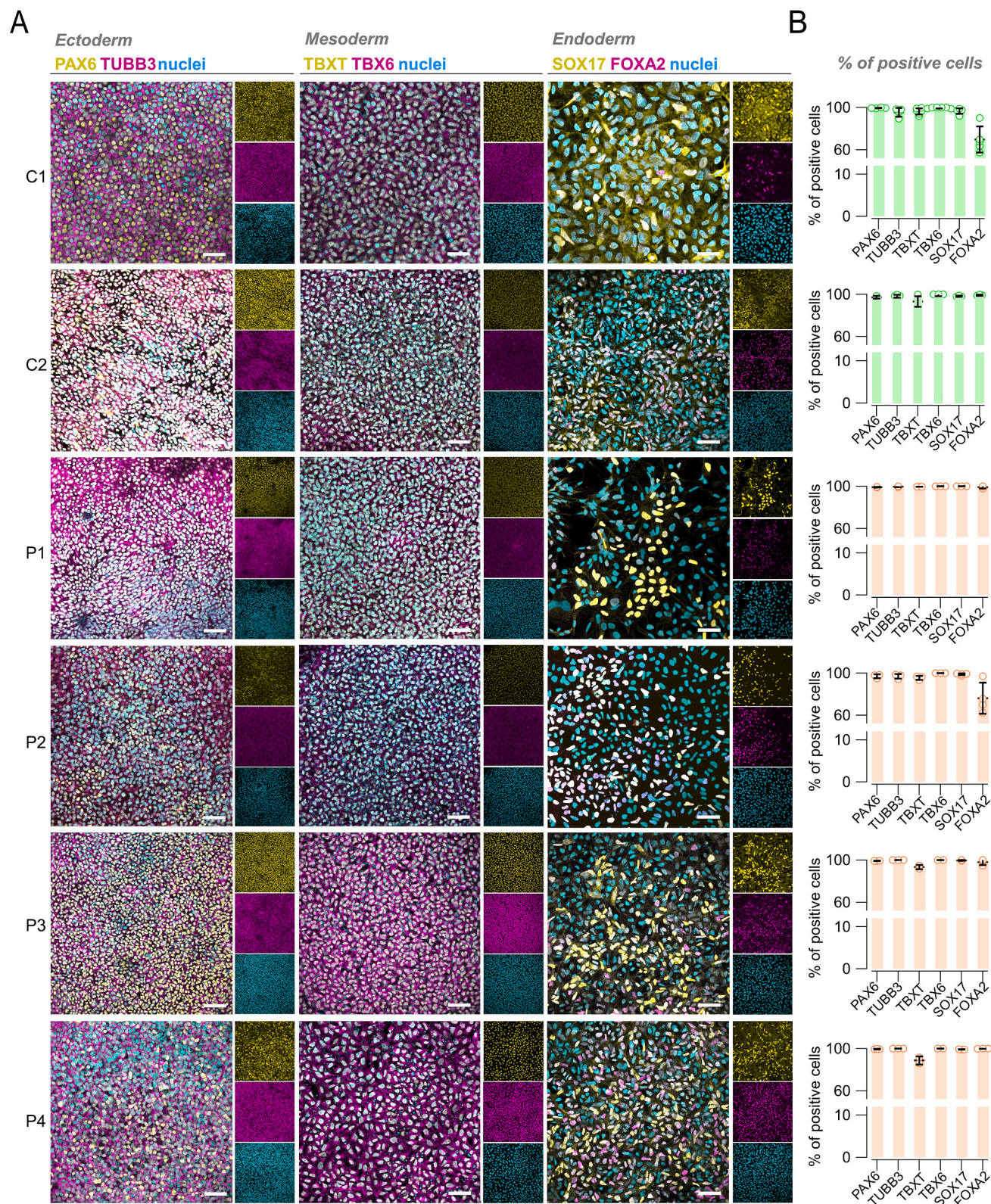


Fig. 2. Pluripotency analysis of MWS iPSC lines. The ability of MWS iPSC lines to differentiate into all three germ layers was assessed via in vitro differentiation followed by immunofluorescence analysis of lineage-specific markers. (A) Representative confocal images showing expression of ectodermal (PAX6, β 3-tubulin), mesodermal (TBXT, TBX6), and endodermal (SOX17, FOXA2) markers. (B) Quantification of marker expression across control and patient-derived iPSC lines. Scale bar: 25 μ m. Bar graphs represent mean $\pm$ S.D.; individual biological replicates are shown as dots ($n = 3-6$). Statistical analysis was performed by grouping data by condition (C1 and C2 as controls vs. P1-P4 as patient-derived lines). No statistically significant differences were detected by linear mixed models.