

Highlights

• A novel prestalk cell subtype, $pstV^A$ is defined by reporter expression via the *omt12*

promoter

- Vegetative cells show heterogeneous and dynamic activity of the *omt12* promoter
- The pstV^A cells are lineage-primed as vegetative cells
- The lineage-primed pstV^A cells are involved in cell aggregation and tip formation