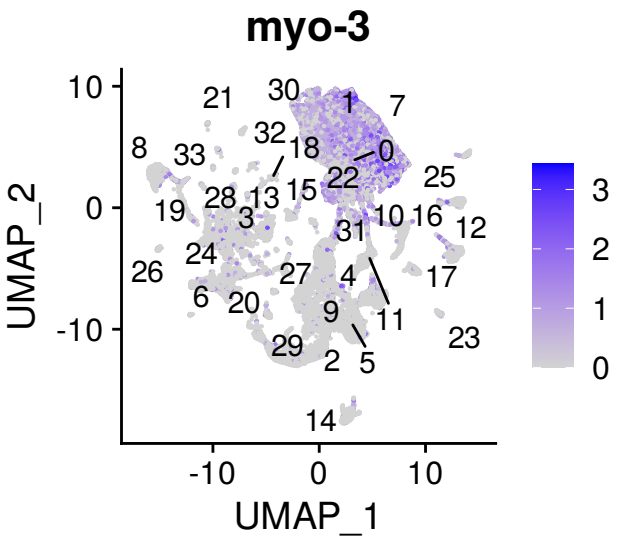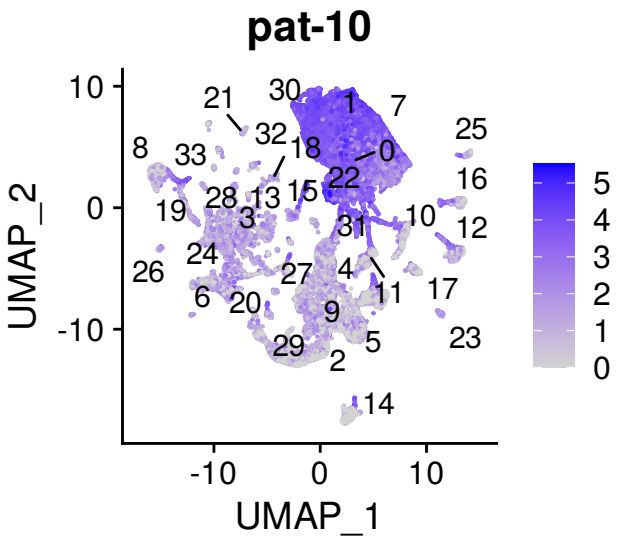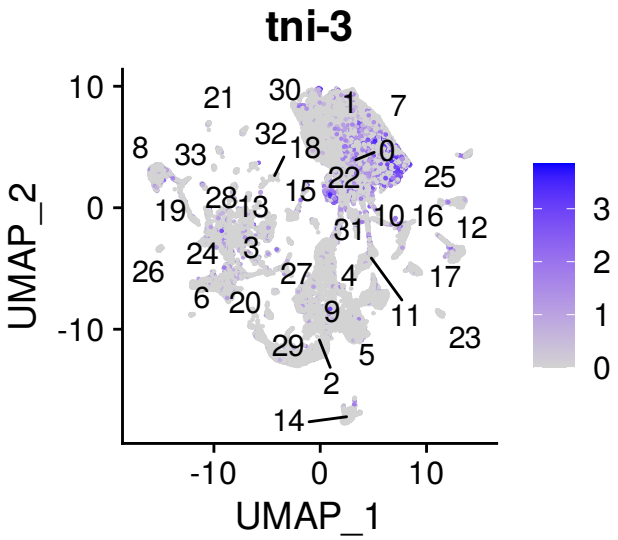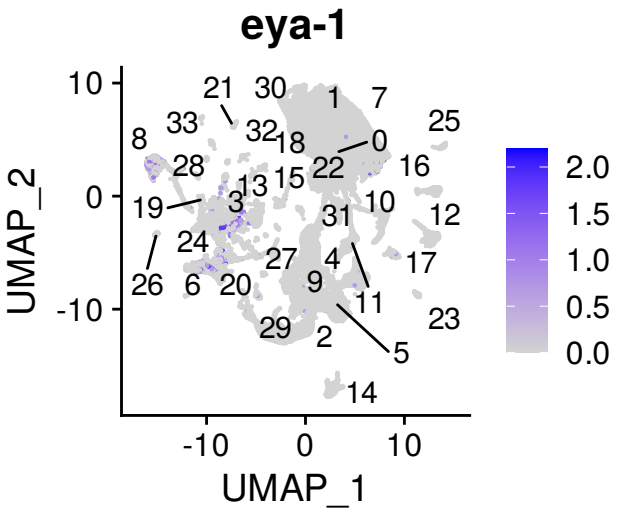BWM_head_row_1 markers