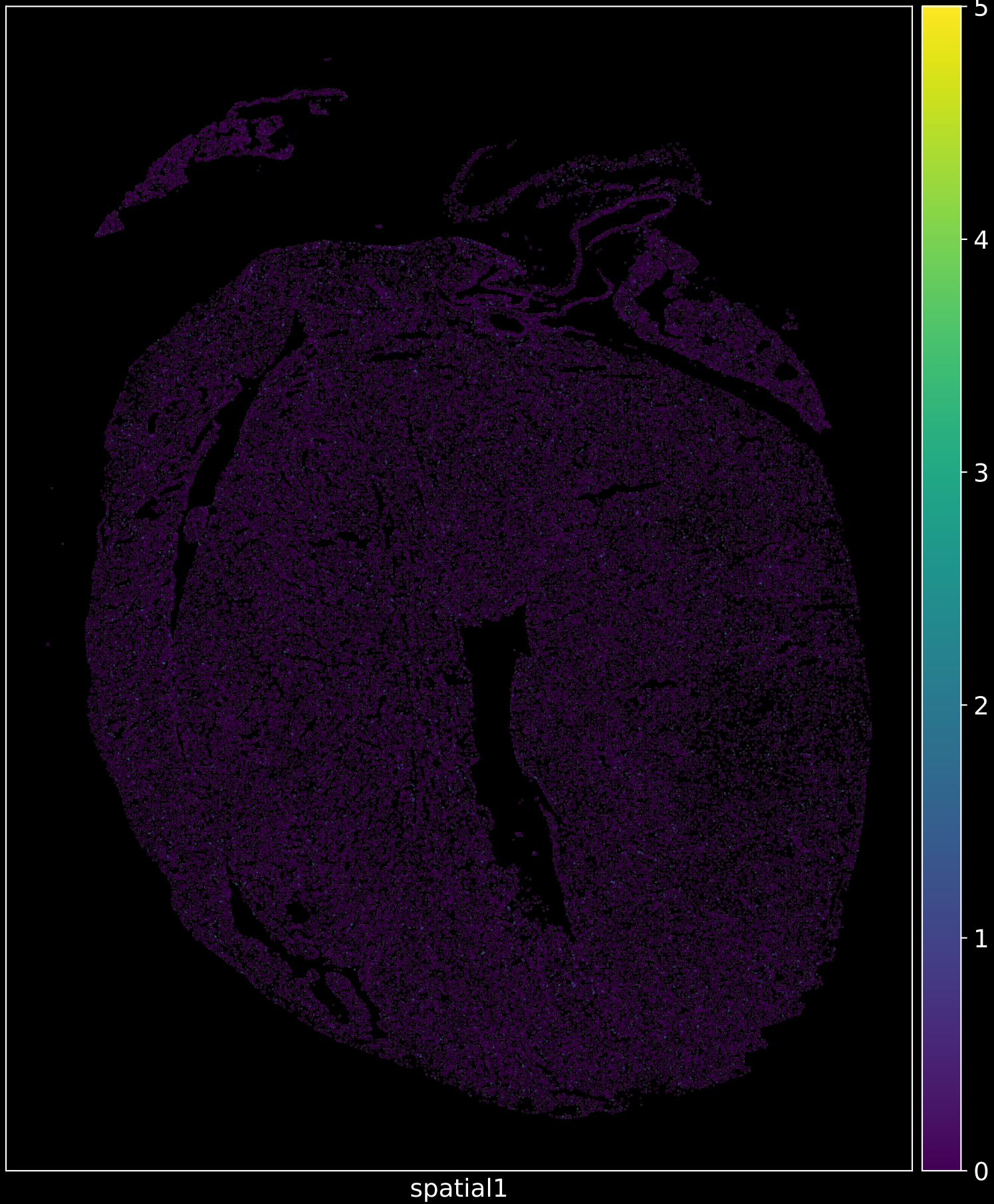Mrc1 in ctrl