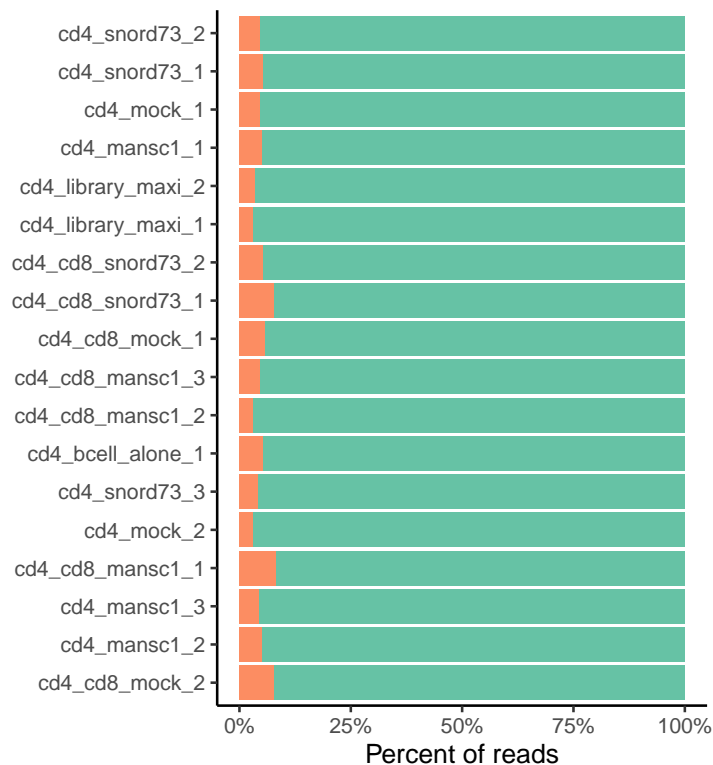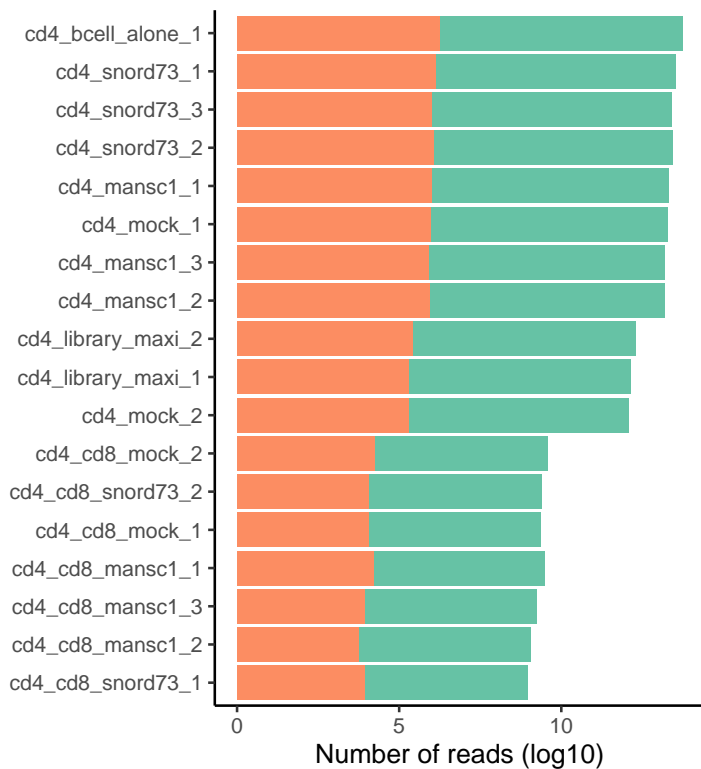CD4: mapping rate