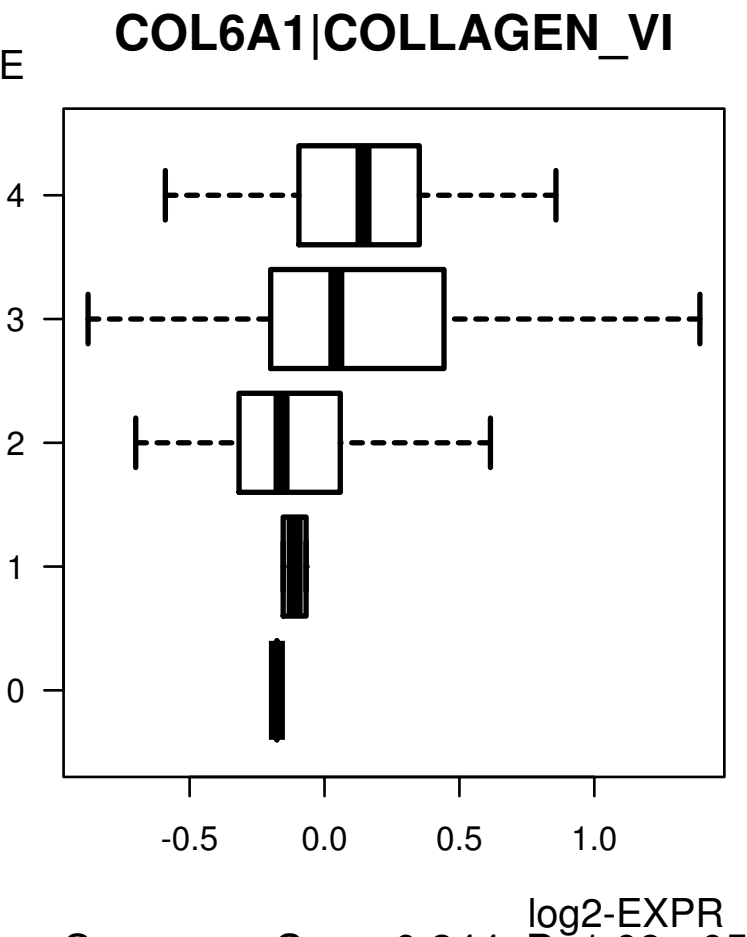THOLOGY_T_STAGE