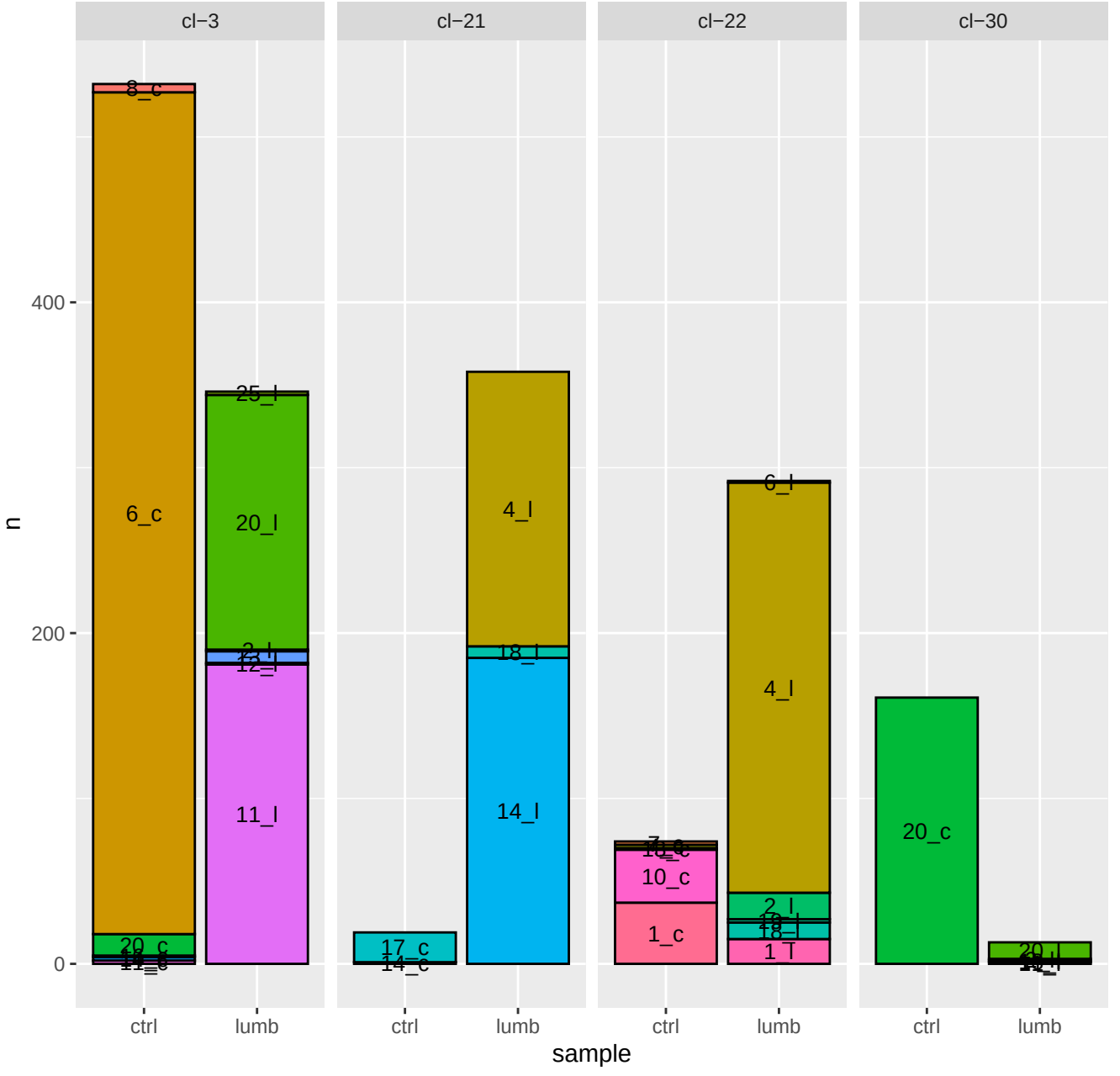BL10int cluster contributions