



**Extended Data Figure 2 | Infrared and optical imaging of SPT0311–58.**  $8'' \times 8''$  thumbnails of SPT0311–58 in the observed optical and infrared filters are shown. ALMA band 6 continuum contours at 30% and 4% of the image peak are shown in blue; the ALMA synthesized beam is depicted as a blue ellipse in the corner of each image.