The interplay of magnetism and superconductivity gives rise to the emergence of various interesting phenomena in condensed matter physics, such as the Yu-Shiba-Rusinov in-gap modes created by local magnetic moments in superconducting hosts. Using normal-metal and superconducting tips, the authors have formed contacts to an individual magnetic molecule adsorbed on a conventional superconductor. Spectroscopy of the differential conductance with tunable junction transparency has unveiled the crossover from quasiparticle tunneling, which probes the Bardeen-Cooper-Schrieffer energy gap as well as the Yu-Shiba-Rusinov levels, to the contact range where multiple Andreev reflection takes over.