

Figure 1 displays four panels of Raman spectra, showing the intensity of Raman bands (Y-axis) versus Wavenumber (X-axis, cm<sup>-1</sup>). The panels are labeled: RcaT-Eco1, RcaT-Eco9, RcaT-Sen2, and Retron-Eco1. The X-axis ranges from 3500 to 500 cm<sup>-1</sup>. The Y-axis represents intensity, with a scale bar indicating 1000 units. The spectra show characteristic Raman bands, including the D band (around 1350 cm<sup>-1</sup>) and the G band (around 1500 cm<sup>-1</sup>). The RcaT-Eco1 panel shows a prominent D band. The RcaT-Eco9 panel shows a prominent G band. The RcaT-Sen2 panel shows a prominent D band. The Retron-Eco1 panel shows a prominent G band. The spectra are plotted for various genes, including P1\_gp002, P1\_gp001, P1\_gp031, P1\_gp050, P1\_gp077, P1\_gp082, P1\_gp046, P1\_gp048, P1\_gp062, P1\_gp069, P1\_gp017, T5\_GG\_002, T5\_GG\_007, T5\_GG\_008, T5\_GG\_026, T5\_GG\_032, T5\_GG\_035, T5\_GG\_036, T5\_GG\_085, T5\_GG\_089, T5\_GG\_096, T5\_GG\_114, T5\_Gibson\_083, T5\_GG\_142, T5\_GG\_144, T5\_GG\_130, and T5\_Gibson\_084.