



Supplemental Figure 2. Comparison of protein levels identified between WiDr:mock and WiDr:GnT-V using DIGE method. Fifty μg of proteins from WiDr:mock and WiDr:GnT-V were minimally labeled with 400 pmol of cy3 or cy5-fluorescent dyes, respectively, on ice for 30 min. Labeling reaction was terminated in 1 mM lysine solution for 10 min on ice in the dark. Both the labeled proteins were mixed and resolved on a conventional 2-D gel. This figure is a representative data of five separate experiments in which proteins were resolved firstly on a pI 3-10 IEF strip and secondly on an 8% SDS-PAGE gel. After washed briefly in distilled water, the gel was subjected to a measurement of fluorescence intensity in a Typhoon 9410 Image scanning system at the excitation wavelengths of 532nm and 633 nm for cy3 and cy5 labeling, respectively. The relative protein level was determined from each fluorescent intensity. Each spot was picked and sequenced in an ESI/Q-TOF mass spectrometer for confirming the protein identity. Numbers marked in the spots indicate the proteins as numbered in Fig. 1C.