S7 Fig. Assessment of Fatty Acid Tail Composition by LC-MS/MS. (A) Mass spectra can be used to identify the fatty acid tails associated with a given phospholipid population using the S2 scan from the LC-MS/MS analysis. For example, phosphatidylcholine (PtdCho) 38:7 shows the mass of two fragments (279.33, 301.25) indicating that the species consists of a C18:2 and a C20:5 fatty acid tail. (B) The MS2 scan of phosphatidylethanolamine (PtdEtn) 36:2 population reveals two different species. Fragment masses 279.27, 281.33, and 283.40 correspond to fatty acid tails C18:2, C18:1, and C18:0. The MS2 scan shows that the PtdEtn 36:2 consists of one molecule with two C18:1 tails and another with C18:0 and C18:2 tails. (C) Table specifying fatty acid tail breakdown estimates for each listed PL species for both control RNAi and fat-7 RNAi.