Figure 2 – figure supplement 1| A schematic representation of the lipid metabolism and related pathways. *Lipid classes are shown in yellow*: AC, acylcarnitine; CE, cholesterol ester; Cer, ceramide; Cer1P, ceramide-1-phosphate; deoxyCer, deoxyceramides; DG, diacylglycerol; dhCer, dihydroceramide; GM3, GM3 ganglioside; GM1, GM1 ganglioside; Hex1Cer, hexosyl-1-cermaide; Hex2Cer, hexosyl-2-ceramide; Hex3Cer, hexosyl-3-ceramide; LPC, lysophosphatidylcholine; LPC (O), lyso alkylphosphatidylcholine; LPE, lysophospahtidylethanolamine; LPE(P), lyso-alkenylphosphatidylethanolamine; LPI, lysophosphatidylinsoitol; PC, phosphatidylcholine; PC (O), alkylphospahtidylcholine; PE, phosphatidylethanolamine; PE(O), alkylphosphatidylethanolamine; PE(P), alkenylphosphatidylethanolamine; PG, phosphatidylglycerol; PI, phosphatidylinositol; Sphn, sphingonine; SM, sphingomyelin; S1P, sphingosine-1-phosphate; Sph, sphingosine; TG, triacylglycerol; TG(O), alkyl-diacylglycerol; 1,2-diacyl G3P, 1,2-diacyl glycerol-3-phosphate;

Key intermediates are shown in green: Acyl-CoA, acyl-coenzymeA; Cho, choline; Etn, ethanolamine; CDP-Cho, cytidine 5´-diphosphate (CDP) -choline; CDP-Etn, CDP-ethanolamine; CDP-DG, CDP-diacylglcyerol; DHAP, di-hydroxy acetone phosphate; G-3-P, glycerol-3-phosphate; P-Etn, phosphoethanolamine; P-Cho, phosphocholine; 1-acyl-G-3-P, 1-acyl-glcyerol-3-phosphate; PGP, phosphatidylglycerol phosphate;

Enzymes are shown in pink: A4GALT6, lactosylceramide 4-α-galactosyltransferase; B4GALT6, β-1,4-galactosyltransferase 6; CDIPT, CDP-DAG–inositol 3-phosphatidyltransferase; CDS1, CDP-diacylglycerol synthase 1; CerS1-6, ceramide synthase 1–6; CLS, cardiolipin synthase; CPT-1, CDP choline:1,2-diacylglycerol cholinephosphotransferase; DEGS, dihydroceramide desaturase; DGAT, diacylglycerolacyltransferase; EPT-1: CDP-ethanolamine:1,2-diacylglycerol ethanolaminephosphotransferase; Lp-PLA-2, lipoprotein-associated phospholipase A2; PEMT, phosphatidylethanolamine N-methyltransferase; pgpA, Phosphatidylglycerophosphatase A; pgsA, phosphatidylglycerol phosphate synthase; PLC, phospholipase C; PPAP2, phosphatidate phosphatase; SPT1-3, serine palmitoyltransferase; SMGS, sphingomyelin synthase; UGCG, ceramide glucosyltransferase.