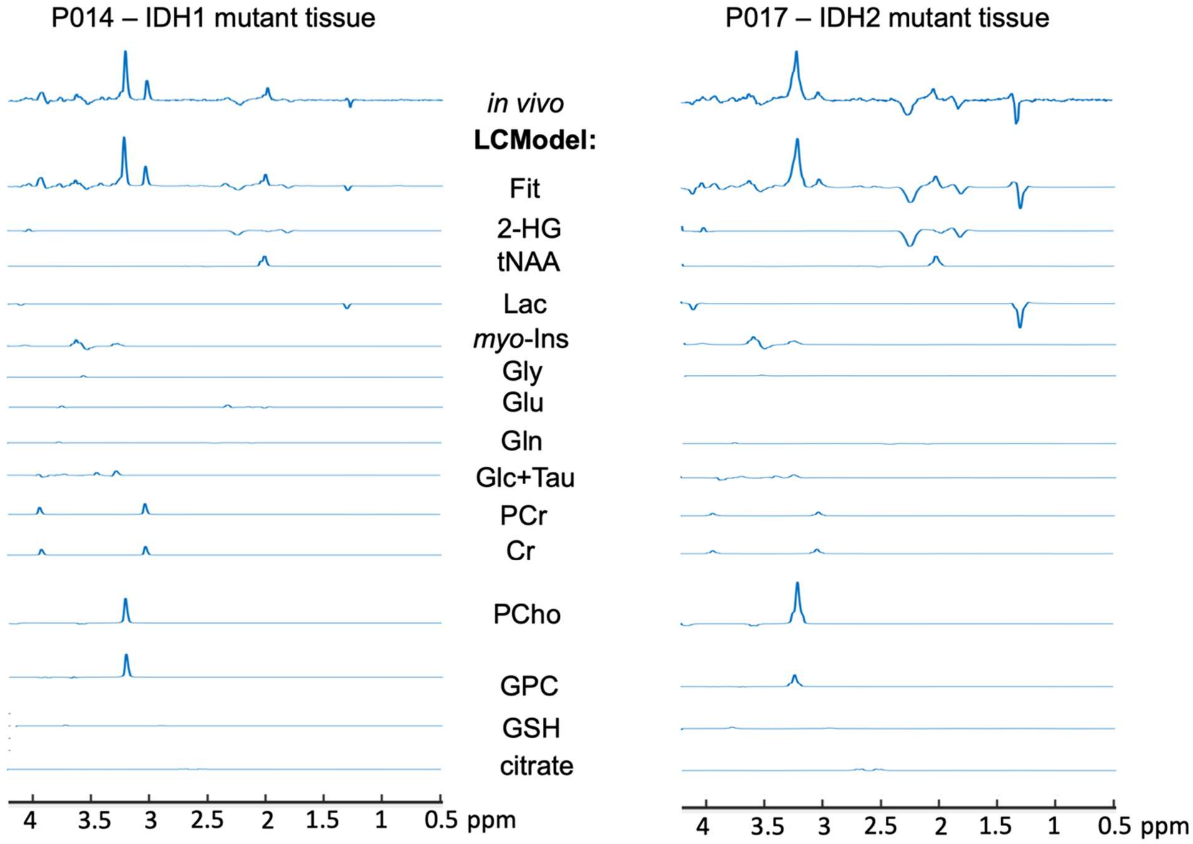

Figure S1: LCModel analysis. In vivo semi-LASER spectra from IDH1 and IDH2 patients (volume of interest, 8 ml, TE = 110 ms, TR = 5s and number of transients, 128) and LCModel fit, modelling metabolite contributions to the neurochemical profile. The vertical scale was normalized to the total choline signal. Model spectra for 2-hydroxyglutarate (2-HG), alanine (Ala), glycerophosphocholine (GPC), phosphocholine (PC), citrate, creatine (Cr), phosphocreatine (PCr), glucose+taurine (Glc+Tau), glutamine (Gln), Glutamate (Glu), glutathione (GSH), glycine (Gly), lactate (Lac), myo-inositol (myo-Ins) and total NAA (tNAA) generated by using GAMMA/PyGAMMA simulation library of VESPA were imported into LCModel and used for spectroscopic quantification.