



Supplementary Figure 2. Electron density maps calculated without the palmitate molecule. Palmitate is in cyan and *cis*-vaccenate in magenta. The maps are $2F_o-F_c$ at 2.5σ (orange) and F_o-F_c at 5.0σ contour level. Top: side view, bottom: view turned approximately 100° about the x-axis to show the position of the double bond in *cis*-vaccenate.