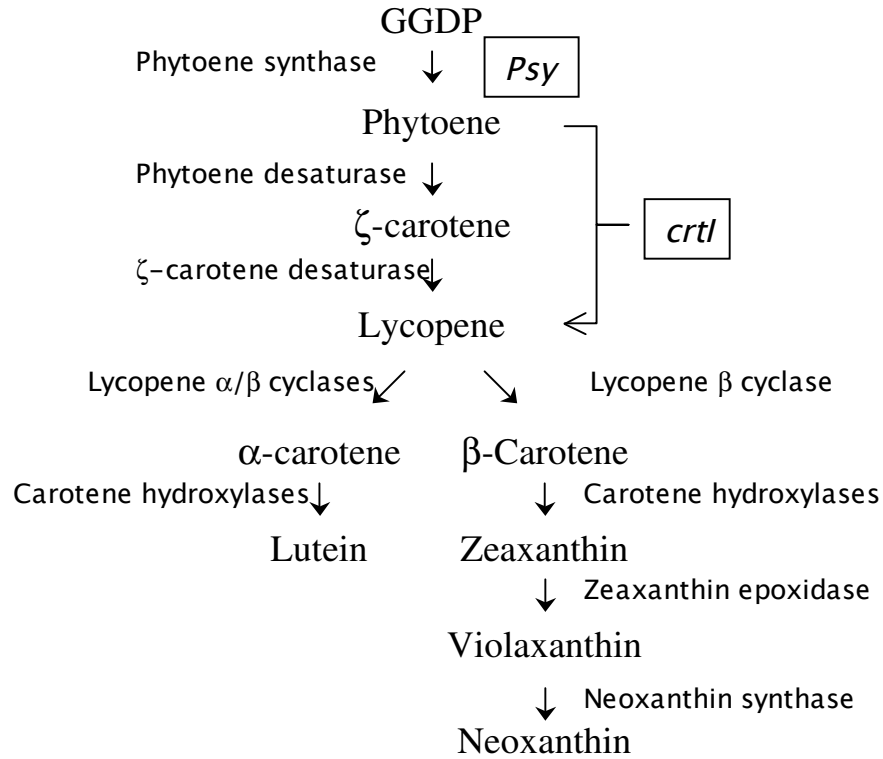


Supplementary Figure 1 Carotenoid Biosynthesis in plants



The isoprenoid precursor for carotenoid biosynthesis is geranyl geranyl diphosphate (GGDP). The transgenes present in Golden Rice are boxed. These encode the enzymes phytoene synthase (*Psy*) and the multifunctional carotene desaturase (*crtI*). The enzyme names of the plant biosynthetic pathway are shown in a simplified form. Carotenoids below α/β -carotene are xanthophylls.