

Figure S2: Visual display of bright visible light (BVL) and fluorescent microscopy of CEZ and 'low-β' fruit mesocarp protoplasts. Bars=20μm. A Microscopic visual display of a β-carotene crystal within a chromoplast of CEZ protoplast from mesocarp tissue under BVL; B. Microscopic view of the entire protoplast in which 'A' was captured under BVL; C. Microscopic view of CEZ protoplast with high β-carotene content; D Fluorescence analysis (excitation with 488 nm; emission was recorded with a BA 660 IF filter) of 'C' reveals the absence of chlorophylls and, indicating absence of chloroplasts; E. Fruit mesocarp protoplast of 'low-β' with high chloroplast content; F. Chlorophyll autofluorescence emission of 'E' indicates the presence of chloroplasts; G. Microscopic visual display of typical β-carotene crystals shapes: thin polygons sheets and long rods; H. Microscopic visual display of a β-carotene aggregate; I. Microscopic visual display of a relatively small-sized protoplasts of CEZ fruit mesocarp containing β-carotene crystals and chromoplasts.