Carotenoids are tetraterpenoids which are natural pigments responsible for colours mainly in fruits and vegetables.A relatively large DNA fragment of 5.2 kb carotenoid biosynthesis cassette was inserted using an optimized CRISPR/Cas9-based method generating marker-free high carotenoid-enriched rice (Dong et al., 2020).This approach has also developed a ?-carotene-enriched banana with the accumulation of ?-carotene content up to 6-fold (~24 ug/g) by targeting the fifth exon of the lycopene epsilon-cyclase (LCY?) (Kaur et al., 2020).CRISPR/Cas-mediated genome editing has been reported for enhancing carotenoid accumulation in many plants.

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