

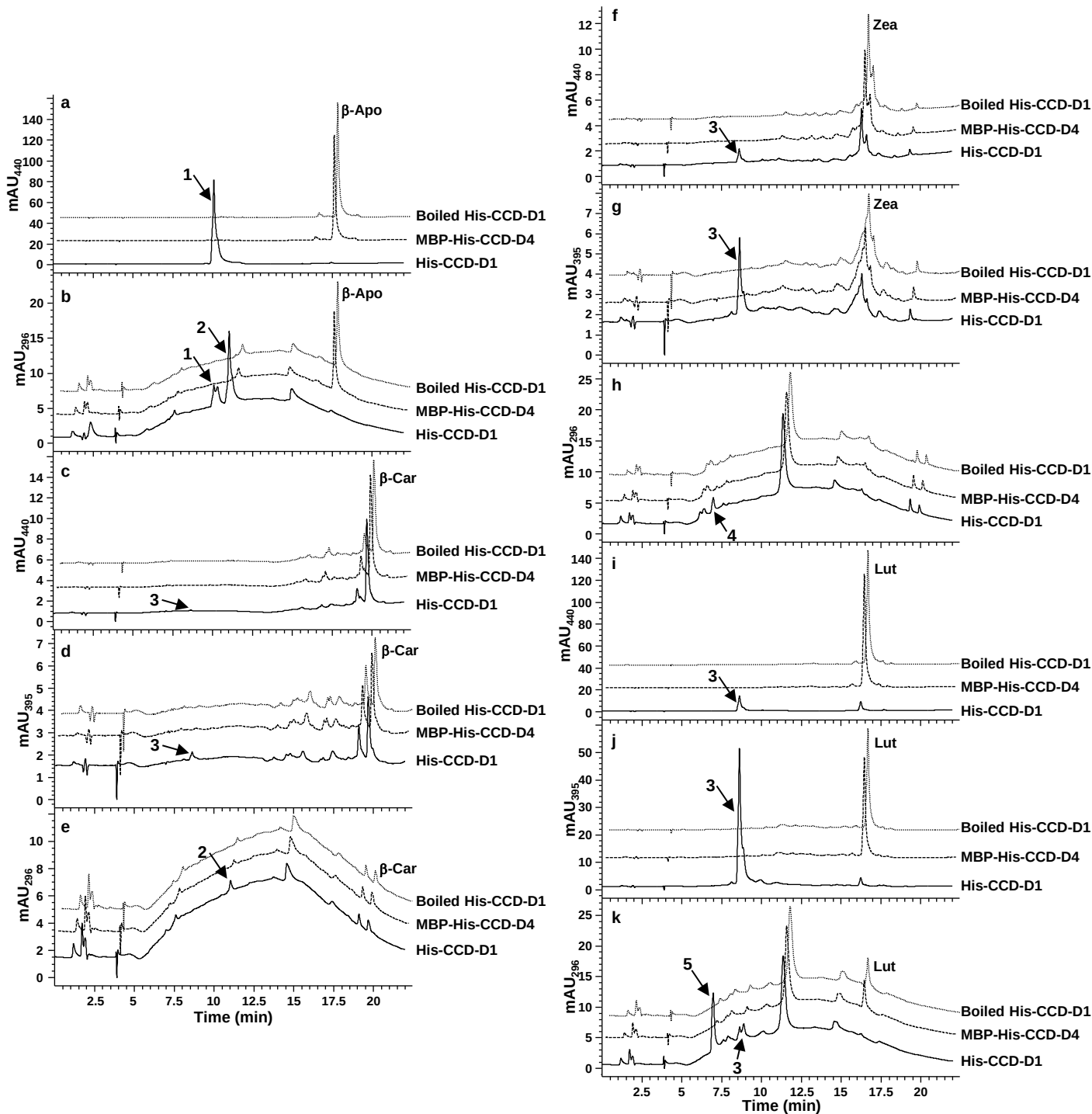


Figure S4. *In vitro* activities of wheat CCD-D1 and CCD-D4 homeologs. β -apo-8'-carotenal (β -apo; a,b), β -carotene (β -Car; c-e), zeaxanthin (Zea; f-h), and lutein (Lut; i-k) were used as substrates in the enzyme assays. Product peaks are indicated by arrows. Absorption and MS spectra of the product peaks are shown in Fig. 3.