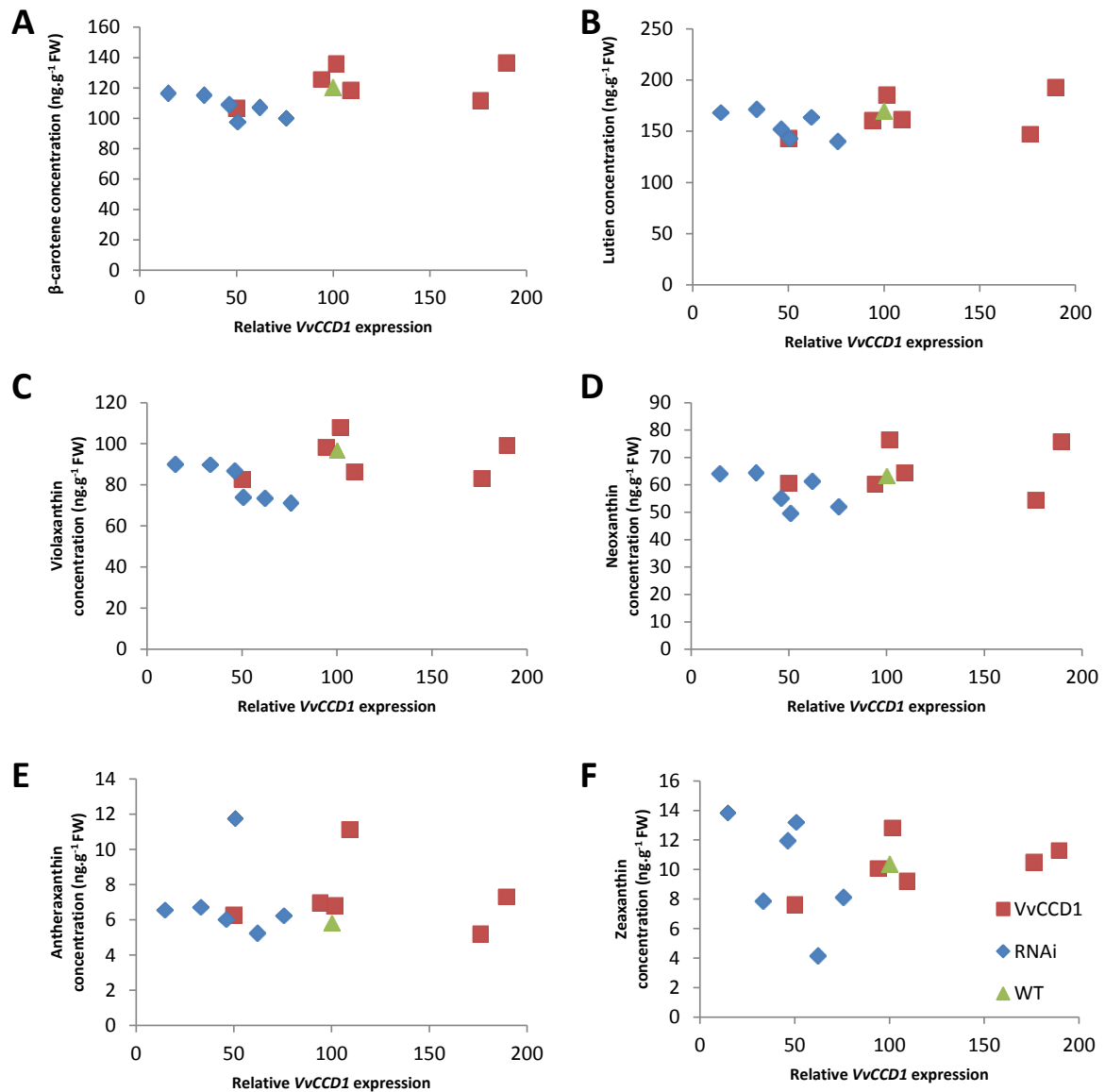




Additional file 8. Relationship between carotenoid concentration and *VvCCD1* expression levels in grapevine leaves. None of the major carotenoids in the leaves of the grapevine population (measured via HPLC) showed significant correlation with *VvCCD1* expression. The concentration of β -carotene (A), lutein (B), violaxanthin (C), neoxanthin (D), antheraxanthin (E) and zeaxanthin (F) found in wild-type ($\blacktriangle$), silenced ($\blacklozenge$) and overexpression ($\blacksquare$) lines is shown.