

## Supplementary Material: 1-FFT amino acids involved in high DP inulin accumulation in Viguiera discolor

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**Fructans and RFOs in plants** 

## **1 SUPPLEMENTARY TABLES AND FIGURES**



**Supplementary Figure 1.** Concentration of sucrose and 1,1-kestotetraose produced, in function of time when only 1-kestotriose is used as substrate for the *Ht* and *Vd* 1-FFT wild types and the M19F and H308T single and double mutant of *Vd* 1-FFT, with the linear trend line and its function and  $R^2$  value. Also present in the graphs is the concentration of fructose, in function of time.



**Supplementary Figure 2.** Concentration of sucrose and 1,1-kestotetraose produced, in function of time when 1-kestotriose supplemented with inulin is used as substrate for the Ht and Vd 1-FFT wild types and the M19F and H308T single and double mutant of Vd 1-FFT, with the linear trend line and its function and R<sup>2</sup> value. Also present in the graphs is the concentration of fructose, in function of time.

**Supplementary Table 1.** Mean (with n=3 for the WT and double mutant enzymes and n=2 for the single mutant enzymes) of the ratios of the production rates of sucrose and 1,1-kestotetraose when 1-kestotriose (A) is used as sole substrate or supplemented with inulin (B) with the standard deviation.

enzyme	А	StDev	В	StDev
Ht WT	1.389	0.445	1.401	0.267
Vd WT	1.240	0.238	4.330	0.786
<i>Vd</i> M19F	1.128	0.043	3.096	0.017
<i>Vd</i> H308T	1.119	0.120	2.149	0.001
Vd M19F H308T	1.414	0.396	1.830	0.422