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**Expression of peach sucrose transporters in heterologous systems points out their different physiological role**

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- We demonstrate the functionality of PpSUT1 and PpSUT4 peach sucrose transporters
- PpSUT1 and PpSUT4 localize at plasma membrane and tonoplast, respectively
- PpSUT2 failed to give clear indication about its localization
- A protein-protein interaction post-transcriptionally regulates the transporters
- We model peach sucrose transporters role in whole plant carbohydrates partitioning