

Table S1. Key outlining base datafile names of sample replicates at ProteomeXchange with sample designations used in this study.

Sample	Base filename	MS/MS Method	MS/MS Viewer (pdResult / byrslt)¹
WT_Ros-1	160713_Wei_4B	HCD → ETD repeat	Yes / Yes
	160713_Wei_4	ETD only	Yes / Yes
	160601_Wei1	HCD → ETD	Yes / Yes
WT_Ros-2	160713_Wei_5	ETD only	Yes / Yes
	160601_Wei2	HCD → ETD	Yes / Yes
WT_Ros-3	160713_Wei_6B	HCD → ETD repeat	Yes / Yes
	160713_Wei_6	ETD only	Yes / Yes
	160601_Wei_3	HCD → ETD	Yes / Yes
WT_Ros-4	160610_Wei_16	HCD → ETD	Yes / Yes
WT_Ros-5	160610_Wei_17	HCD → ETD	Yes / Yes
WT_Ros-6	160610_Wei_18	HCD → ETD	Yes / Yes
WT_Flower	160913_Wei_F70	HCD → ETD repeat 2	Yes / Yes
	160913_Wei_F60	HCD → ETD repeat	Yes / Yes
	160913_Wei_F50	HCD → ETD	Yes / Yes
WT_Stem	160913_Wei_570	HCD → ETD repeat 2	Yes / Yes
	160913_Wei_560	HCD → ETD repeat	Yes / Yes
	160913_Wei_550	HCD → ETD	Yes / Yes
xylt_Ros-1	160713_Wei_1B	HCD → ETD repeat	Yes / Yes
	160713_Wei_1	ETD only	Yes / Yes
	160601_Wei4	HCD → ETD	Yes / Yes
xylt_Ros-2	160713_Wei_2	ETD only	Yes / Yes
	160601_Wei5	HCD → ETD	Yes / Yes
xylt_Ros-3	160601_Wei6	HCD → ETD	Yes / Yes
	160713_Wei_3	ETD only	Yes / Yes

¹Annotated spectra can be viewed for all matched data in Table S3 using the Proteome Discoverer Viewer (.pdResult) or Byonic Viewer (.byrslt).