

**Table S2. Genes downregulated in *scr-3* and enriched in the root stele**

Gene ID	Fold decrease in <i>scr-3</i>	Fold enrichment in the stele*	TAIR8 annotation	Reference <sup>†</sup>
At2g18800	24.89	5.90	Xyloglucan:xyloglucosyl transferase, putative, AtXTH21	Liu et al., 2007
At1g73220	21.16	3.46	ARABIDOPSIS THALIANA ORGANIC CATION/CARNITINE TRANSPORTER 1 (ATOCT1)	Lelandais-Briere et al., 2007
At2g39510	18.61	4.05	Nodulin MtN21 family protein	–
At1g80100	17.72	5.64	AHP6, ARABIDOPSIS HISTIDINE PHOSPHOTRANSFER PROTEIN 6 (AHP6)	Mähönen et al., 2006
At3g26610	17.60	3.66	Polygalacturonase, putative	–
At4g30450	14.42	4.33	Glycine-rich protein	–
At3g53980	14.21	4.34	Protease inhibitor/seed storage/lipid transfer protein (LTP) family protein	Wenzel et al., 2008
At5g10580	12.61	3.31	Unknown protein	–
At4g33550	12.19	3.06	Protease inhibitor/seed storage/lipid transfer protein (LTP) family protein	–
At4g20210	12.09	10.37	Terpene synthase/cyclase family protein	–
At3g02850	11.24	3.18	Stellar K <sup>+</sup> outward rectifying channel (SKOR)	Gaymard et al., 1998
At1g78090	11.12	5.38	TREHALOSE-6-PHOSPHATE PHOSPHATASE	–
At3g62040	10.17	3.42	Similar to haloacid dehalogenase-like hydrolase family protein	–
At5g25840	9.37	5.37	Unknown protein	–
At3g13810	8.58	5.77	Unknown protein	–
At4g36740	8.08	6.69	ARABIDOPSIS THALIANA HOMEBOX PROTEIN 40 (ATHB40)	–
At1g01070	6.72	9.03	Nodulin MtN21 family protein	–
At1g67710	6.19	3.41	ARABIDOPSIS RESPONSE REGULATOR 11 (ARR11)	Tajima et al., 2004
At1g44800	5.85	6.88	Nodulin MtN21 family protein	–
At3g25190	5.42	4.63	Nodulin, putative	–
At4g11310	4.66	6.94	Cysteine proteinase precursor-like protein	–
At4g01450	4.45	4.34	Nodulin MtN21 family protein	–
At4g30460	4.28	3.23	Glycine-rich protein	Ko et al., 2006
At3g45700	4.27	7.33	Proton-dependent oligopeptide transport (POT) family protein	–
At3g49760	3.64	5.41	ARABIDOPSIS THALIANA BASIC LEUCINE-ZIPPER 5 (ATBZIP5)	Dinneny et al., 2008
At1g24530	3.55	3.07	Transducin family protein/WD-40 repeat family protein	–
At1g18140	3.40	6.17	LACCASE 1 (LAC1)	–
At5g06730	3.17	4.10	Peroxidase 54 precursor (PER54)	–
At2g21560	3.12	5.39	Unknown protein	–
At5g47450	3.10	3.42	TONOPLAST INTRINSIC PROTEIN 2;3 (ATTIP2;3)	–

\*Fold enrichment in the stele was derived from the microarray data of Birnbaum et al. (Birnbaum et al., 2003) by the following calculation: expression in the stele (average of three developmental zones)/expression in the cell layer with the second highest expression (average of three developmental zones).

<sup>†</sup>References are shown only for those demonstrating expression and/or functions in the root stele.

#### References

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