

Additional file 12:

Table S9. Genes encoding proteins involved in regulation of the cytoskeleton and vesicle trafficking and sphingolipid/sterol synthesis and transport that are switched off in epidermal cells transiting to a TC fate and those specifically expressed in epidermal cells undergoing *trans*-differentiation to a TC morphology. TC -specific genes are separated into genes expressed throughout uniform wall (UW) and wall ingrowth (WI) formation and those that are specific to each of these wall-building phases. Genes expressed throughout ingrowth wall formation are separated into groups depending on their differential expression patterns of no change, up-regulated during UW or WI formation (for more details, see – Results, Transcriptome networks in epidermal cells of *in planta* and cultured cotyledons). Unigene sequences were annotated by alignment to publically available databases (see Methods) using BLASTX with an e-value threshold of $<1e^{-5}$.

Epidermal switched off		Transfer cell specific expressed genes:									
		UW/WI no change		UW upregulated		UW specific		WI upregulated		WI specific	
Contig ID	Gene	Contig ID	Gene	Contig ID	Gene	Contig ID	Gene	Contig ID	Gene	Contig ID	Gene
Cytoskeleton and vesicle trafficking											
U22353	Kinesin-4	U1553	Similar to gb U06698 neuronal kinesin heavy chain from Homo sapiens and contains a PF 00225 Kinesin motor domain. EST gb AA042507 comes from this gene [Arabidopsis thaliana]			CL2210 C1	actin			CL2130 C1	65-kDa microtubule-associated protein 3-like [Glycine max] MAP65-5 in Arabidopsis
U10534	Kinesin-like protein	U1054	Formin-like protein			U8030	actin-97-like			U16493	Kinesin-like polypeptide
CL6198 C2	125 kDa kinesin-related protein-like					CL6200 C1	Myosin XI			CL7887 C2	Villin-4
U36967	formin-like protein 8-like										
U11691	Protein ABIL1										
U3882	Myosin-like protein										
CL6120 C6	Rab-GDP dissociation inhibitor	CL6109 C2	GTP-binding protein SAR1A	U18006	ADP-ribosylation factor GTPase-activating protein AGD12	U21725	ADP-ribosylation factor GTPase-activating protein	U9470	syntaxin-112-like	U12467	ADP-ribosylation factor GTPase-activating protein AGD14-like isoform X1
U15938	GTPase obg	CL4945 C3	ER-derived vesicles protein ERV14	U12722	Dynamin-related protein 1C-like isoform 2	U4133	Rab-GDP dissociation inhibitor			CL4811 C2	Exocyst complex component SEC3A-like

CL1125 C1	small GTP-binding protein, partial	U19005	signal peptide peptidase-like 2B-like			U35180	Brefeldin A-inhibited guanine nucleotide-exchange protein			U9471	Syntaxin-112
U5119	Probable exocyst complex component 6-like	U7624	Plant synaptotagmin [U21554	Exocyst complex component			CL3098 C3	Dynamamin-2B-like
						U5838	Endoplasmic oxidoreductin-1				
						U9284	Vesicle-associated protein 2-1-like				
						U2172	Vesicle-associated membrane protein				
Sphingolipid and sterol biosynthesis and transport											
		CL2667 C2	3-ketoacyl-CoA synthase	U6945	Biotin carboxyl carrier protein of acetyl-CoA carboxylase	U32221	Oxysterol-binding protein-related protein	U12386	Epoxide hydrolase	U11800	3-ketoacyl-CoA synthase 21-like
		U7625	non-specific lipid-transfer protein AKCS9-like	CL6235C 1	3-ketoacyl-CoA synthase	CL10929 C1	Long-chain-fatty-acid-CoA ligase			U35890	Elongation of fatty acids protein
		CL9118C 2	bax inhibitor 1-like	CL5837C 1	3-ketoacyl-CoA synthase	CL4043	Remorin			U31293	Squalene epoxidase
				U7915	beta-ketoacyl-CoA synthase					U14071	Epoxide hydrolase
				U8918	non-specific lipid-transfer protein AKCS9-like					U40880	lipid transfer protein precursor
										U12302	PCTP-like protein-like
										U32592	Long-chain-alcohol O-fatty-acyltransferase