Additional file 14:

Table S11. Genes encoding membrane transporters 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 separated into those 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 cell genes switched off		Transfer cell specific expressed genes									
		UW/WI shared		UW up-regulated		UW specific		WI up-regulated		WI specific	
Contig	Gene	Contig	Gene	Contig	Gene	Contig	Gene	Contig ID	Gene	Contig ID	Gene
ID U33031	Bidirectional sugar transporter SWEET4-like	ID CL700 4C1	Amino acid permease AAP4	ID CL708 2C1	Amino-acid permease,	ID U1824 6	Sugar transporter	U2598	ABC transporter G family	CL2123C 2	Hexose transporter
U20727	Mannitol transporter	CL877 2.C1	Peptide/nitrate transporter	CL526 9C1	Proline transporter	U4071 8	Cl-channel clc-7		,	U4242	Carbohydrate transporter
U13817	Metal transporter CNNM4	CL265 4C2	Sodium-coupled neutral amino acid transporter	U1641 2	Ammonium transporter 1 member	U1206 8	K(+)/H(+) antiporter			U4615	Peptide transporter PTR3-B
U33928	Zn/Cd P(IB)-type ATPase	U2478 7	High affinity nitrate transporter 2.5-like	U8713	Inorganic phosphate transporter 1-4	U1161 6	Sulfate transporter			CL8772. C1	Peptide/nitrate transporter
U10474	Equilibrative nucleoside transporter 3-like	U1793 5	Ammonium transporter 3	U1948 6	Zn/Cd P(IB)-type ATPase	U3485	ABC transporter B family member			U38725	Potassium channel AKT1-like
U15675	Equilibrative nucleoside transporter 3-like	U1993 7	Adenine/guanine permease AZG1-like	CL540 6C1	Metal transporter CNNM4	U2910 3	Multidrug resistance protein ABC transporter family,			U36661	SST1-like protein
U36010	TRANSPARENT TESTA 12-like	CL703 C7	Equilibrative nucleoside transporter 3-like	CL734 C1	PREDICTED: pleiotropic drug resistance protein 1-like	U2911 0	ABC transporter C family member 10-like			U40089	Magnesium- transporting ATPase, P-type 1-like
U25453	ABC transporter	CL895 4C2	Aquaporin NIP1-2	U2911 0	ABC transporter C family member 10-like	U4110	ABC transporter C family member 9-like			U5521	ABC transporter C family member 10-lik
U1457	ABC transporter B family member	U2097 7	Nodulin26-like intrinsic protein	U1660 9	ABC transporter C family member 9-like	U3473	TRANSPARENT TESTA			U2872	ABC transporter
U10945	ABC transporter G	U1933 2	K(+)/H(+) antiporter	U2259 0	Multidrug and toxin extrusion protein (MATE)	U3010	MATE efflux family protein DTX1-like			U36776	ABC transporter
U3778	Ripening regulated protein DDTFR18	CL102 33C2	Potassium transporter	U2961 2	Ripening regulated protein DDTFR18	U3510 3	Ripening regulated protein DDTFR18			U5686	TRANSPARENT TESTA
U32217	Multidrug resistance protein ABC transporter	U2487 4	ABC transporter I			U1765 7	Zinc finger protein STOP1 homolog			U539	Heavy metal transport/detoxification protein
		U3474	TRANSPARENT TESTA							U29622	Metal tolerance protein 10-like