

Appendix A The sugar transporter coding gene of Arabidopsis thaliana

Classification	Protein Name	Genomic Locus	Classification	Protein Name	Genomic Locus	
sucrose transporters (SUTs)	AtSUT1	AT1G71880	H <sup>+</sup> -Symporter family for polyols and monosaccharides (plasma membrane)	AtPLT1	At2g16120	
	AtSUT2	AT1G22710		AtPLT2	At2g16130	
	AtSUT3	AT2G02860		AtPLT3	At2g18480	
	AtSUT4	AT1G09960		AtPLT4	At2g20780	
	AtSUT5	AT1G71890		AtPLT5	At3g18830	
	AtSUT6	AT5G43610		AtPLT6	At4g36670	
	AtSUT7	AT1G66570		Putative polyol (cyclic)-H <sup>+</sup> symporter family (tonoplast membrane ?)	AtINT1	At2g43330
	AtSUT8	AT2G14670			AtINT2	At1g30220
	AtSUT9	AT5G06170			AtINT3	At2g35740
sugars will eventually be exported transporters (SWEET)	AtSWEET1	AT1G21460	Putative monosaccharide transporter family (homology to bacterial xylose transporters) AtVGT-like	AtINT4	At4g16480	
	AtSWEET2	AT3G14770		AtVGT1	At3g03090	
	AtSWEET3	AT5G53190		AtVGT2	At5g17010	
	AtSWEET4	AT3G28007	Putative monosaccharide transporter family (large central loop)	AtVGT3	At5g59250	
	AtSWEET5	AT5G62850		AtMT1	At1g20840	
	AtSWEET6	AT1G66770		AtMT3	At3g51490	
	AtSWEET7	AT4G10850		AtMT2	At4g35300	
	AtSWEET8	AT5G40260	Putative monosaccharide transporter family (plastidic localization)		At1g05030	
	AtSWEET9	AT2G39060		AtSGB2	At1g67300	
	AtSWEET10	AT5G50790		AtSGB1	At1g79820	
	AtSWEET11	AT3G48740		AtpGlcT1	At5g16150	

	AtSWEET12	AT5G23660		At1g08890
	AtSWEET13	AT5G50800		At1g08900
	AtSWEET14	AT4G25010		At1g08920
	AtSWEET15	AT5G13170		At1g08930
	AtSWEET16	AT3G16690		At1g19450
	AtSWEET17	AT4G15920		At1g54730
				At1g75220
	AtSTP1	At1g11260	Putative monosaccharide transporter family (ERD-group = induced by early dehydration)	At2g48020
	AtSTP2	At1g07340		At3g05150
	AtSTP3	At5g61520		At3g05160
	AtSTP4	At3g19930		At3g05165
	AtSTP5	At1g34580		At3g05400
	AtSTP6	At3g05960		At3g20460
	AtSTP7	At4g02050		At4g04750
	AtSTP8	At5g26250		At4g04760
	AtSTP9	At1g50310		At3g05155
	AtSTP10	At3g19940		At5g18840
	AtSTP11	At5g23270		At5g27350
	AtSTP12	At4g21480		At5g27360
	AtSTP13	At5g26340		
	AtSTP14	At1g77210		
Monosaccharide (hexoses / pentoses)-H <sup>+</sup> symporter family (plasma membrane)				