

[print this page](#)[close this window](#)**Glycosyltransferase Gene Families****Source:** [Carbohydrate-Active enZymes server \(CAZy\)](#)[Carbohydrate Esterases Family Server](#)[Glycoside Hydrolases Family Server](#)[Glycosyltransferase Family Server](#)[Polysaccharide Lyases Family Server](#)**Source:** [Glycosyltransferase Family 1 Site at PlaCe](#)[Dr. Soren Bak](#)**Gene Family****Criteria:****Contact:** [Bernard Henrissat](#)[Pedro M.Coutinho](#)[Emeline Deleury](#)

Gene Family Name:	Protein Name:	Genomic Locus:	Accession:	TIGR Annotation:
Glycosyltransferase- Family 1		K21L13.6 At5g65550	BAA98174.1	anthocyanidin-3-glucoside rhamnosyltransferase
			AAB58497.1	
		MJP23.2 At5g54060	BAA97127.1	flavonol 3-O-glucosyltransferase-like
		K2I5.5 At5g49690	BAA98157.1	anthocyanidin-3-glucoside rhamnosyltransferase-like
		T15G18_80 AT4g09500	CAB78073.1	putative protein
		FCAALL.191 AT4g14100	CAB10189.1	
		dl3680c AT4g15270	CAB10306.1	UTP-glucose glucosyltransferase like protein
		T29A15_50 AT4g27560	CAB38268.1	UDP rhamnose-anthocyanidin-3-glucoside rhamnosyltransferase - like protein
		F9O13.3 At2g15480	AAD17392.1	putative glucosyltransferase
		F9O13.4 At2g15490	AAD17393.1	putative glucosyltransferase
		F12A24.7 At2g16890	AAC64220.1	putative glucosyltransferase
		T20K9.14 At2g22930	AAC32440.1	putative flavonol 3-O-glucosyltransferase
		T27A16.19 At2g29710	AAC35240.1	putative flavonol 3-O-glucosyltransferase

	T27A16.17 At2g29730	AAC35239.1	putative flavonol 3-O-glucosyltransferase
	T27A16.16 At2g29740	AAC35238.1	putative flavonol 3-O-glucosyltransferase
	T27A16.15 At2g29750	AAC35226.1	putative flavonol 3-O-glucosyltransferase
	F20M17.21 At2g31750	AAD32297.1	putative glucosyltransferase
	F20M17.17 At2g31790	AAD32293.1	putative glucosyltransferase
	T1J8.15 At2g36970	AAD31582.1	putative glucosyltransferase
	MSD21_6 AT3g21750	AAK32764.1	putative UDP-glucose glucosyltransferase
	MSD21_7 AT3g21760	AAK50110.1	putative UDP-glucose glucosyltransferase
	F2N1_15 AT4g01070	CAB80916.1	putative flavonol glucosyltransferase
	C7A10_590 AT4g36770	CAB16822.1	glucosyltransferase-like protein
	dl3675w AT4g15260	CAB10305.1	glucosyltransferase
	dl3685w AT4g15280	CAB10307.1	UTP-glucose glucosyltransferase
	dl3780c AT4g15480	CAB10326.1	indole-3-acetate beta-glucosyltransferase like protein
	dl3785c AT4g15490	CAB10327.1	indole-3-acetate beta-glucosyltransferase like protein
	dl3790c AT4g15500	CAB10328.1	indole-3-acetate beta-glucosyltransferase like protein
	dl3815c AT4g15550	CAB10333.1	glucosyltransferase like protein
	F10K1.3 At1g07260	AAF82195.1	UDP-glucose glucosyltransferase, putative
	F10K1.4 At1g07250	AAG18592.1	UDP-glucose glucosyltransferase, putative
	F10K1.5 At1g07240	AAG18591.1	UDP-glucose glucosyltransferase, putative
	F11B9.23 F24K9.1	AAG50970	
	F11F12.10 F17J6.10 At1g50580	AAF87877.1	putative indole-3-acetate beta-glucosyltransferase
	F11M15.8	AAD30635.1	putative glucosyl transferase

	At1g51210		
	F12A12.170 At3g46650	CAB62335.1	glucosyltransferase-like protein
	F12A12.180 At3g46660	CAB62336.1	glucosyltransferase-like protein
	F12A12.190 At3g46670	CAB62336.1	glucosyltransferase-like protein
	F12A12.200 At3g46680	CAB62338.1	glucosyltransferase-like protein
	F12E4_260 AT5g03490	CAB83309.1	putative protein
	F12K8.26 At1g22400	AAF18537.1	UDP-glucose glucosyltransferase, putative
	F13K3.15 At2g36750	AAD20151.1	putative glucosyl transferase
	F13K3.16 At2g36760	AAD20152.1	putative glucosyl transferase
	F13K3.17 At2g36770	AAD20153.1	putative glucosyl transferase
	F13K3.18 At2g36780	AAD20154.1	putative glucosyl transferase
	F13K3.19 At2g36790	AAD20155.1	putative glucosyl transferase
	F13K3.20 At2g36800	AAD20156.1	putative glucosyl transferase
	F13O11.21 At1g64910	AAD38265.1	rhamnosyltransferase, putative
	F13O11.22 At1g64920	AAD38266.1	anthocyanidin-3-glucoside rhamnosyltransferase, putative
	F14N23.30 At1g10400	AAD32892.1	putative glucosyl transferase
	F16F17.1 At5g38010	BAA97533.1	glucosyltransferase-like protein
	F16F17.6 At5g38035	BAA97538.1	Expressed protein
	F18B3.20 At3g50740	CAB42903.1	UTP-glucose glucosyltransferase - like protein
	F18O19.5 At2g43840	AAB64022.1	putative glucosyltransferase
	F18O19.7 At2g43820	AAB64024.1	putative glucosyltransferase
	F1C9.11 At3g02100	AAF14850.1	putative UDP-glucosyl transferase

	F1I16_110 AT3g55700	CAB81595.1	glucuronosyl transferase - like protein
	F1I16_120 AT3g55710	CAB81596.1	glucuronosyl transferase - like protein
	F24D13.13 At2g28080	AAC98458.1	putative glucosyltransferase
	F24H14.8 At2g18570	AAD12210.1	putative flavonol 3-O-glucosyltransferase
	F24H14.9 At2g18560	AAD12211.1	putative flavonol 3-O-glucosyltransferase
	F26G16.15 At1g30530	AAF19756.1	UDP glucose:flavonoid 3-o-glucosyltransferase,,putative
	F28A23.110 At4g34130	CAA17559.1	
	F2K13_180 AT5g17030	CAC01716.1	UDP glucose:flavonoid 3-o-glucosyltransferase -like protein
	F2K13_190 AT5g17040	CAC01717.1	UDP glucose:flavonoid 3-o-glucosyltransferase -like protein
	F2K13_200 AT5g17050	CAC01718.1	UDP glucose:flavonoid 3-o-glucosyltransferase -like protein
	F2O15.25 At5g59520	BAA97492.1	putative zinc transporter ZIP2 - like
	F2O15.26 At5g59530	BAA97493.1	1-aminocyclopropane-1-carboxylate oxidase - like protein
	F2P9.25 At1g73880	AAF36747.1	putative glucosyltransferase
	F3F20.12 At1g05670	AAD30619.1	putative indole-3-acetate beta-glucosyltransferase
	F3F20.13 At1g05680	AAD30627.1	putative indole-3-acetate beta-glucosyltransferase
	F3F9.19 At1g78280	AAF71803.1	unknown protein
	F3I6.2 At1g24100	AAC00570.1	putative indole-3-acetate beta-glucosyltransferase
	F6F3.19 At1g01390	AAF97324.1	flavonol 3-o-glucosyltransferase,,putative
	F6F3.22 At1g01420	AAF97321.1	flavonol 3-o-glucosyltransferase,,putative
	F9D12.4 At5g26310	AAC26233.1	UTP-glucose glucosyltransferase - like protein
	K18J17.2 At5g05870	BAB10792.1	glucuronosyl transferase-like protein
	K18J17.3 At5g05880	BAB10793.1	glucuronosyl transferase-like protein

K18J17.4 At5g05890	BAB10794.1	glucuronosyl transferase-like protein
K18J17.5 At5g05900	BAB10795.1	glucuronosyl transferase-like protein
K18L3.15	BAB09041.1	
K19P17.16 At5g53990	BAB10729.1	glycosyltransferase family
K19P17.18 At5g54010	BAB10731.1	glycosyltransferase family
MDC8.15 At3g16520	AAK59856.1	putative glucosyltransferase
MJJ3.28 At5g05860	BAB10791.1	glucuronosyl transferase-like protein
MMP21.3 At3g22250	BAB01943.1	glycosyltransferase family
MSD21.10 At3g21770	BAB02841.1	peroxidase, putative
MSD21.11 At3g21780	BAB02842.1	putative UDP-glucose glucosyltransferase
MSD21.9 At3g21760	BAB02840.1	glycosyltransferase family
MSN2.8 At5g66690	BAA97275.1	UTP-glucose glucosyltransferase
MTO24.16	BAB01199.1	
F17A9.17 At3g07020	AAF27006.1	UDP-glucose:sterol glucosyltransferase
T10P12.7 At1g43620	AAD39269.1	sterol glucosyltransferase, putative
T16E15.1 fragment At1g22380	AAF87254.1	UDP-glucose glucosyltransferase, putative
T16E15.2 At1g22370	AAF87255.1	UDP-glucose glucosyltransferase, putative
T16E15.2 At1g22370	AAF87255.1	UDP-glucose glucosyltransferase, putative
T16E15.4	AAF87258.1	
T16E15.5 At1g22340	AAF87257.1	UDP-glucose glucosyltransferase, putative
T20D16.11 At2g23260	AAB87119.1	putative glucosyltransferase
T20D16.12 At2g23250	AAB87106.1	putative glucosyltransferase
T20D16.16 At2g23210	AAB87110.1	putative glucosyltransferase

	T21E18.5 At1g06000	AAF80123.1	unknown protein
	T24H18_60 AT5g12890	CAB88253.1	glucosyltransferase -like protein
	T25N20.18 At1g05530	AAF79732.1	UDP-glucose:indole-3-acetate beta-D-glucosyltransferase, putative
	T27E13.11 At2g30150	AAC16957.1	putative glucosyltransferase
	T27E13.12 At2g30140	AAC16958.1	putative glucosyltransferase
	T29A15.60 AT4g27570	CAB38269.1	
	T4D2.80	CAB64218.1	
	T4D2.90 At3g53160	CAB64219.1	glucosyltransferase - like protein
	T6H20.250 AT3g46720	CAB51193.1	glucuronosyl transferase-like protein
	T6H20.270 AT3g46700	CAB51195.1	glucuronosyl transferase-like protein
	T6H20.280 AT3g46690	CAB51196.1	glucuronosyl transferase-like protein
	T9I22.3 At2g22590	AAD15567.1	putative anthocyanidin-3-glucoside rhamnosyltransferase
	T9J22.15 At2g26480	AAC14497.1	putative glucosyltransferase
	T9L3_160 AT5g14860	CAC01885.1	glucosyltransferase -like protein
	AT4g34130	AAK59668.1	
	T16E15.3 At1g22360	BAA34687.1	UDP-glucose glucosyltransferase
	MIL23.13 At3g21560	BAB02351.1	UDP-glucosyltransferase, putative
	T25N20_20 At1g05560	AAK32944.1	
Glycosyltransferase- Family 2	K2A11.4 At5g05170	AAC39336.1	cellulose synthase catalytic subunit (gb AAC39336.1)
	F28A21.190 AT4g18780	CAB37463.1	cellulose synthase - like protein
	F28A21.190 AT4g18780	AAD32031.1	cellulose synthase - like protein
	T22F8.250 AT4g39350	AAC39335.1	
		AAC29067.1	

dl3690c AT4g15290	CAB10308.1	cellulose synthase like protein
dl3705c AT4g15320	CAB10311.1	cellulose synthase like protein
F28M20.220 AT4g31590	CAA19764.1	putative protein
F25P17.7 At2g24630	AAD23884.1	putative glucosyltransferase
F13B15.20 At2g25540	AAD20713.1	putative cellulose synthase catalytic subunit
MVP7_7 AT5g64740	AAK53023.1	cellulose synthase catalytic subunit
dl4320w AT4g16590 (fragment)	CAB10434.1	cellulose synthase like protein
F14J16.9 At1g55850	AAF79313.1	cellulose synthase catalytic subunit, putative
F17C15_180 (MED24.4) AT5g03760	BAB08601.1	putative protein
F1K3.3 AT4g07960	AAD15482.1	putative glucosyltransferase
F20D10.310 AT4g38190	CAB37559.1	putative protein
F21O3.4 AT3g07330	AAF02144.1	unknown protein
F22D16.26	AAF02892.1	
F25I18.16 At2g33100	AAC04910.1	putative cellulose synthase
F27K19_180 AT3g56000	CAB87854.1	putative protein
F28C11.11 At1g23480	AAF79586.1	hypothetical protein
F2D10.6 At1g20570	AAF80640.1	dolichol-phosphate-mannose synthase, putative
F2K13_60 AT5g16910	CAC01704.1	cellulose synthase catalytic subunit -like protein
F3C3.4 At1g32180	AAG23436.1	cellulose synthase catalytic subunit, putative
F5M15.10	AAF79605.1	
F5O8.4	AAC98005.1	
F7D8.9 At2g21770	AAD20396.1	putative cellulose synthase catalytic subunit
F8B4.110 AT4g32410	AAC39334.1	cellulose synthase catalytic subunit (RSW1)

	MDJ22.16 At5g22740	BAB11680.1	glucosyltransferase-like protein
	MIG10.8 At3g28180	BAB01433.1	expressed protein
	MRH10.14 At5g44030	BAB09063.1	cellulose synthase catalytic subunit-like protein
	MYH9.8 At5g09870	BAB09408.1	cellulose synthase catalytic subunit
	T19F6.17	AAB63622.1	
	T19F6.18	AAB63623.1	
	T19F6.19	AAB63624.1	
	T20F21.16 At2g35650	AAD15455.1	putative glucosyltransferase
	T21H19_110 AT5g16190	CAC01860.1	putative protein
	T23E23.23 At1g24070	AAF87149.1	glucosyltransferase, putative
	T26B15.10 At2g32540	AAC25936.1	putative cellulose synthase
	T26B15.17 At2g32610	AAC25943.1	putative cellulose synthase
	T26B15.18 At2g32620	AAC25944.1	putative cellulose synthase
	T26B15.9 At2g32530	AAC25935.1	putative cellulose synthase
	T32A16.160 AT4g23990	CAB43899.1	cellulose synthase catalytic subunit - like protein
	T32A16.170 AT4g24000	CAB43900.1	putative protein
	T32A16.180 AT4g24010	CAB43901.1	putative protein
	T9E8.150 AT4g13410	CAB40776.1	putative protein
	T17B22.26 AT3g03050	AAF26119.1	putative cellulose synthase catalytic subunit
	T17B22.26 AT3g03050	AAF26119.1	putative cellulose synthase catalytic subunit
Glycosyltransferase- Family 4	T19F11.7 AT3g11670	AAD42378.1	digalactosyldiacylglycerol synthase
	F6N23.24 AT4g00550	AAC13625.1	predicted protein of unknown function
	F13M14.8(F18K10.25) AT3g10630	AAF04165.1	unknown protein

	F13M7.9 At1g04920	AAF40445.1	sucrose-phosphate synthase..putative
	F1B16.5 At1g75420	AAG13070.1	unknown protein
	F24J7.20 AT4g19460	CAB78948.1	putative protein
	F28M11.40 AT4g10120	AAC62812.1	sucrose-phosphate synthase - like protein
	F3N23.36 (T18K17.18) At1g73160	AAD55663.1	putative glycosyl transferase
	F5O24_170 AT5g20280	AAK64015.1	sucrose-phosphate synthase-like protein
	F6D8.36 (F19K6.13) At1g52420	AAD55621.1	hypothetical protein
	F6F9.24 At1g19710	AAG12556.1	hypothetical protein
	F7J8.200 AT5g01220	CAB69850.1	putative protein
	F7K15_40 AT3g43190	AAK59464.1	sucrose synthase -like protein
	F9K20.16 At1g78800	AAC83030.1	hypothetical protein
	K18B18.7	BAB10782.1	
	K21P3.6 AT5g49190	BAB10337.1	sucrose synthase
	MJG14.25 At5g37200	BAB11375.1	putative protein
	MVC8.8 At3g15940	BAB02880.1	hypothetical protein
	T07M07.7	AAD25934.1	
	T14D3.40 AT3g45100	CAB72148.1	n-acetylglucosaminyI-phosphatidylinositol-like protein
	T2H3.8 AT4g02280	AAC28175.1	putative sucrose synthetase
		CAA50317.1	
		CAA43303.1	
Glycosyltransferase- Family 5	F25C20.13 At1g11720	AAD30251.1	putative glycogen synthase
	F9L11.8 At1g32900	AAF31273.1	starch synthase..putative
	T4P13.13 AT3g01180	AAF26156.1	putative glycogen synthase
	T9A21.90	CAA16796.1	starch synthase-like protein

	AT4g18240		
		AAF24126.1	
Glycosyltransferase- Family 8	F5H14.22 At2g20810	AAD20914.1	unknown protein
	T6A23.15 At2g38650	AAC67353.1	hypothetical protein
	dl4325w AT4g16600	CAB10435.1	glucosyltransferase like protein
	F11A12.4 AT3g02350	AAG12603.1	unknown protein
	F13A10.1 At2g46480	AAD20159.1	hypothetical protein
	F14J9.1 At1g09350	AAC33195.1	putative galactinol synthase
	F17M5.90 AT4g33330	CAB38791.1	putative protein
	F18O14.2 At1g19300	AAF79456.1	unknown protein
	F20P5.18 At1g70090	AAB61117.1	unknown protein
	F22I13.40 AT4g38270	CAB37483.1	putative protein
	F25P12.95 At1g56600	AAG09103.1	water stress-induced protein, putative
	F26K9_90 AT3g62660	CAB83116.1	putative protein
	F28L1.20 AT3g06260	AAF30319.1	putative glycosyl transferase
	F3I6.10 At1g24170	AAC00579.1	putative glycosyl transferase
	F4H5.13 At1g06780	AAF63140.1	unknown protein
	F7G19.14 At1g08990	AAB70408.1	unknown protein
	K5F14.3 AT5g54690	BAB09935.1	putative protein
	MCA23.10 AT5g47780	BAB11325.1	putative protein
	MJL12.8 AT3g25140	BAB02072.1	glycosyl transferase, putative
	MRO11.17 AT5g23790	BAB10052.1	galactinol synthase
	MVE11.2	BAB01792.1	hypothetical protein

	AT3g18660		
	MZF16.15	BAB02626.1	pseudogene
	T10M13.14 AT4g02130	AAC78704.1	predicted glycosyl transferase
	T14N5.1 At1g77130	AAC34345.1	hypothetical protein
	T14P4.1	AAG10630.1	
	T20F21.10 At2g35710	AAD15444.1	putative glycogenin
	T20K12.30 AT3g61130	CAB71043.1	putative protein
	T20K14_80 AT5g15470	CAC01746.1	putative protein
	T20N10_140 AT3g58790	CAB88296.1	putative protein
	T24C10.6 (F14C21.11)	AAG00875.1	
	T25K17.60 AT4g26250	CAB38954.1	putative protein
	T3A5.140 (F18B3.40) AT3g50760	CAB42905.1	putative protein
	T4P13.28 AT3g01040	AAF26170.1	unknown protein
	T6J4.1 At1g13250	AAG09558.1	hypothetical protein
	T08I13.2	AAB63818.1	
	F8A5.2 At1g60470	AAB71970.1	galactinol synthase, putative
	T13D8.32 At1g60450	AAC24075.1	galactinol synthase, putative
Glycosyltransferase- Family 10	F14J22.8 At1g49710	AAG13053.1	fucosyltransferase c3 protein, putative
	F17M19.14 At1g71990	CAC38049.1	hypothetical protein
	MVI11.20 AT3g19280	BAB02969.1	fucosyltransferase, putative
Glycosyltransferase- Family 13		CAB45521.1	
	F20D10.360 AT4g38240	CAB37480.1	glycosyltransferase like protein
Glycosyltransferase- Family 14	F13M22.8 At2g37580	AAC23649.1	putative RING zinc finger protein
	T12J13_3 AT3g03690	AAF03464.1	hypothetical protein

	F14O13.23 AT3g24040	BAB03022.1	hypothetical protein
	F21B7.14 At1g03520	AAF86534.1	putative glycosylation enzyme
	F23N20.6 At1g71070	AAF26009.1	unknown protein
	F27G19.80 AT4g27480	CAB43880.1	putative protein
	F2G14_170 AT5g15050	CAC01824.1	putative protein
	F4C21.27 AT4g03340	AAD14462.1	putative glycosylation enzyme
	F8L10.4	AAF87858.1	
	K7L4.15 AT3g15350	AAF34844.1	unknown protein
	MYH19.19	BAB10223.1	
Glycosyltransferase- Family 17	F15O11.7 At2g13290	AAD20428.1	putative N-acetylglucosaminyltransferase
	F18O22_270 AT5g14480	CAB87787.1	putative protein
	F3F19.2 At1g12990	AAD31053.1	putative beta-1,4-N-acetylglucosaminyltransferase
	F4P13.16 AT3g01620	AAF01546.1	hypothetical protein
	MMJ24.9 AT3g27540	AAF16573.1	hypothetical protein
	T23K23.27 At1g67880	AAF16573.1	unknown protein
Glycosyltransferase- Family 19	T1O3.3 At2g04560	AAD25824.1	hypothetical protein
Glycosyltransferase- Family 20		CAA69879.1	
	dl4920w AT4g17770	CAB10557.1	trehalose-6-phosphate synthase like protein
	T29A15_40 AT4g27550	CAB81405.1	trehalose-6-phosphate synthase - like protein
	F17O7.18 At1g70290	AAC18810.1	trehalose-6-phosphate synthase,.putative
	F20D23.30	AAD50035.1	
	F6I1.1 At1g16980	AAF99834.1	trehalose-6-phosphate synthase,.putative
	MSF3.8 At2g18700	AAD08939.1	putative trehalose-6-phosphate synthase
	T13D8.4	AAC24048.1	trehalose-6-phosphate synthase,.putative

	At1g60140		
	T23E23.3 At1g23870	AAF87136.1	trehalose 6-phosphate synthase, putative
	T23K23.13 At1g68020	AAF16560.1	putative trehalose-6-phosphate synthase
	T2D23.11 At1g06410	AAF82169.1	trehalose-6-phosphate synthase, putative
	T30F21.9 At1g78580	AAD30578.1	trehalose-6-phosphate synthase, putative
Glycosyltransferase- Family 22	F6I1.10 At1g16900	AAF99843.1	Ser Thr protein kinase, putative
	T9L3_150 AT5g14850	CAC01884.1	dolichyl-phosphate-mannose--glycolipid alpha-mannosyltransferase -like protein
Glycosyltransferase- Family 24	F3I17.13 At1g71220	AAF26036.1	putative UDP-glucose:glycoprotein glucosyltransferase
Glycosyltransferase Family- 28		BAB12041.1	
	F5O24_300 AT5g20410	CAA04005.1	monogalactosyldiacylglycerol synthase
	F28M20.30 AT4g31780	AAF65066.1	monogalactosyldiacylglycerol synthase - like protein
	F25P22.16 At1g73740	AAG52070.1	putative UDP-N-acetylglucosamine--N-acetylmuramyl- (pentapeptide)-pyrophosphoryl-undecaprenol N-acetylglucosamine transferase
Glycosyltransferase Family- 29	F22O13.14 At1g08660	AAF99778.1	unknown protein
	T21J18_90 AT3g48820	CAB87910.1	putative protein
Glycosyltransferase Family- 30	F17C15_190 (MED24.5) AT5g03770	CAB82942.1	3-deoxy-D-manno-octulosonic acid transferase -like protein
Glycosyltransferase Family- 31		BAA97209.1	
	F10M23.280 AT4g26940	CAB36540.1	Avr9 elicitor response like protein
	YUP8H12_22 At1g05170	AAB71461.1	putative AVR9 elicitor response protein
	T22F11.11 At2g25300	AAD23661.1	unknown protein
	F24P17_7 AT3g06440	AAF08572.1	unknown protein
	A_IG005I10_16 AT4g00300	AAB62835.1	not found
	F8L21_140 AT4g11350	CAB51419.1	putative protein
	F16G20.190	CAA20470.1	putative protein

	AT4g23490		
	dl3665c AT4g15240	CAB10303.1	hypothetical protein
	F10C21.10 At1g33430	AAG21603.1	elicitor response protein, putative
	F10N7.80 AT4g32110	CAA16578.1	putative protein
	F12M16.19 At1g53290	AAF69535.1	hypothetical protein
	F13M22.23 At2g37730	AAC23643.1	putative zinc finger protein
	F22L4.11 At1g01570	AAF81315.1	hypothetical protein
	F24B9.5 At1g07850	AAF75069.1	hypothetical protein
	F24K9.9 AT3g11420	AAF00656.1	unknown protein
	F25A4.23 At1g74800	AAD55296.1	hypothetical protein
	F25C20.12 At1g11730	AAD30250.1	Avr9 elicitor response-like protein
	F28K19.2 At1g77810	AAF17702.1	Avr9 elicitor response protein, putative
	F2E2.6	AAF86563.1	
	F9L11.10 At1g32930	AAF31275.1	Avr9 elicitor response protein, putative
	K15M2.10 AT3g14960	BAA97059.1	galactosyltransferase, putative
	K19E1.14 AT5g53340	AAK62387.1	Avr9 elicitor response protein-like
	MUA2.7 AT5g57500	BAB08785.1	putative protein
	MYC6.16 AT5g41460	BAB08517.1	strong similarity to unknown protein (pir T13026)
	T13K14.220 AT4g21060	CAB45901.1	putative protein
	T16O9.11 At1g33250	AAG27909.1	unknown protein
	T19L18.9 At2g26100	AAC31227.1	unknown protein
	T24P13.20 At1g26810	AAF87039.1	hypothetical protein
	T32E8.14	AAF08567.1	

		T32F6.5 At2g32430	AAC69935.1	unknown protein
		T7N9.18 At1g27120	AAF79857.1	unknown protein
		YUP8H12.11 At1g05280	AAB71450.1	hypothetical protein
Glycosyltransferase Family- 32		F16M14.8 At2g38150	AAC27164.1	hypothetical protein
		F18F4.6 AT4g19900	CAB52870.1	putative protein
		F7J8.230 AT5g01250	CAB69853.1	putative protein
		T16O11.2 AT3g09020	AAD56318.1	unknown protein
		T7P1.18 At1g61050	AAF27676.1	hypothetical protein
Glycosyltransferase Family- 33		F19K19.11 At1g16570	AAG10823.1	unknown protein
Glycosyltransferase Family- 34		F22I13.80 AT4g38310 (fragment)	CAB37487.1	putative protein
		F19F18.180 AT4g37690	CAB38308.1	
		F1M20.6 At1g74380	AAF15910.1	putative alpha galactosyltransferase
		F26K9_150 AT3g62720	CAB83122.1	alpha galactosyltransferase-like protein
		F6A14.20 At1g18690	AAF27110.1	alpha galactosyltransferase, putative
		MBK20.18 AT5g07720	BAB11451.1	alpha galactosyltransferase protein
		T14P8.23 T10P11.20 AT4g02500	AAC78266.1	putative glycosyltransferase
		T20K9.11	AAC32437.1	
Glycosyltransferase Family- 35		F13I12.20 AT3g46970	CAB61943.1	starch phosphorylase H (cytosolic form) - like protein
		MUO10.2 AT3g29320	BAB02576.1	alpha-glucan phosphorylase, putative
Glycosyltransferase Family- 37		F26H6.13 At2g15350	AAD22289.1	unknown protein
		F26H6.11 At2g15370	AAD22287.1	unknown protein
		F26H6.9 At2g15390	AAD22285.1	unknown protein

	F16A14.28 At1g14070	AAF79408.1	xyloglucan fucosyltransferase, putative
	F1M20.10 At1g74420	AAF15914.1	putative xyloglucan fucosyltransferase
	F7A19.15 At1g14070	AAD39292.1	xyloglucan fucosyltransferase, putative
	F7A19.16 At1g14080	AAD39293.1	xyloglucan fucosyltransferase, putative
	F7A19.18 At1g14100	AAD39294.1	hypothetical protein
	F7A19.19 At1g14110	AAD39295.1	hypothetical protein
	T18E12.12 At2g03210	AAC34481.1	unknown protein
	T18E12.11 At2g03220	AAC34480.1	unknown protein
Glycosyltransferase Family- 41	T6K12.14 AT3g04240	AAF26789.1	putative O-linked GlcNAc transferase
	F24K9.29 AT3g11540	AAC49446.1	spindly (gibberellin signal transduction protein)
Glycosyltransferase Family- 43	T2N18.15 At2g37090	AAD18150.1	unknown protein
	C7A10.470 AT4g36890	CAB16800.1	UDP-glucuronyltransferase-like protein
	T17H3.10 At1g27600	AAD45998.1	expressed protein
	T22C5.4 At1g27600	AAF24965.1	hypothetical protein
Glycosyltransferase Family- 47	F27K19_10 AT3g55830	CAB87837.1	putative protein
	F5I6.4 At1g80290	AAF27686.1	hypothetical protein
	T27B3.50 AT3g42180	CAB68119.1	putative protein
	T32M21_100 AT5g04500	CAB85556.1	putative protein
Glycosyltransferase Family- 48	F3F20.1 At1g05570	AAD30609.1	putative glucan synthase
	F22D22.29 At2g31960	AAD15408.1	putative glucan synthase
	T1J8.3 At2g36850	AAD31571.1	putative glucan synthase
	F9H3.18 T5L23.4 AT4g03550	AAD11597.1	putative glucan synthase component

	T32N4.8 AT4g04970	AAD48971.1	not found
	F12K11.17 At1g06490	AAF24822.1	glucan synthase, putative
	F17J16_150 AT3g59100	CAB86938.1	putative protein
	F5H8.14 At5g36870	BAA98065.1	callose synthase (1,3-beta-glucan synthase) family
	MIE1.7 AT3g14570	BAB02389.1	hypothetical protein
	T1B9.18 AT3g07170	AAF20230.1	unknown protein
	T24H18_170 AT5g13000	CAB88264.1	callose synthase catalytic subunit -like protein
	T25N20.22 (probable fragment)	AAF79729.1	
Glycosyltransferase Family- 50	At5g22130	CAC34506.1	
Non-Classified GT		CAB90610.1	


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