

Table S2. Gene lists of identified KEGG pathways

Pathway	Genes											
Protein processing in endoplasmic reticulum	AT1G02620	AT1G02980	AT1G04980	AT1G05520	AT1G07400	AT1G08450	AT1G09080	AT1G09180	AT1G09210	AT1G10230	AT1G11560	
	AT1G11905	AT1G16030	AT1G16190	AT1G17280	AT1G18260	AT1G18830	AT1G19310	AT1G20140	AT1G21750	AT1G24320	AT1G27520	
	AT1G29310	AT1G30000	AT1G32210	AT1G34130	AT1G35620	AT1G43140	AT1G50670	AT1G51590	AT1G52260	AT1G52560	AT1G53540	
	AT1G54050	AT1G56330	AT1G56340	AT1G56410	AT1G59790	AT1G59800	AT1G59860	AT1G61790	AT1G64230	AT1G65040	AT1G67490	
	AT1G71220	AT1G72280	AT1G75950	AT1G76400	AT1G77510	AT1G78720	AT1G79650	AT1G79940	AT2G01470	AT2G01650	AT2G01720	
	AT2G03160	AT2G03170	AT2G03190	AT2G04030	AT2G16595	AT2G16740	AT2G17190	AT2G17200	AT2G18710	AT2G20160		
	AT2G21160	AT2G21270	AT2G21630	AT2G23780	AT2G25700	AT2G29070	AT2G29500	AT2G30050	AT2G32920	AT2G34250	AT2G35520	
	AT2G38960	AT2G40290	AT2G45070	AT2G47470	AT2G47970	AT3G01340	AT3G02540	AT3G07100	AT3G07190	AT3G07370	AT3G07770	
	AT3G08690	AT3G09350	AT3G09440	AT3G09840	AT3G12580	AT3G16090	AT3G16110	AT3G17000	AT3G18860	AT3G20450	AT3G20920	
	AT3G21160	AT3G21660	AT3G21830	AT3G21840	AT3G21850	AT3G21860	AT3G23660	AT3G25650	AT3G42830	AT3G44110	AT3G44340	
	AT3G46230	AT3G46460	AT3G48570	AT3G51980	AT3G52190	AT3G53060	AT3G53230	AT3G53800	AT3G54130	AT3G54960	AT3G55380	
	AT3G57340	AT3G58030	AT3G59410	AT3G60010	AT3G60020	AT3G60540	AT3G62560	AT3G62600	AT3G63000	AT3G63460	AT4G02080	
	AT4G02570	AT4G03510	AT4G04210	AT4G04860	AT4G10250	AT4G14160	AT4G15410	AT4G16660	AT4G20310	AT4G21150	AT4G21180	
	AT4G21810	AT4G21870	AT4G22150	AT4G24190	AT4G24280	AT4G24920	AT4G25200	AT4G25230	AT4G27470	AT4G27670	AT4G28270	
	AT4G29330	AT4G32640	AT4G32670	AT4G34100	AT4G34210	AT4G34470	AT4G38930	AT5G02150	AT5G02490	AT5G02500	AT5G03160	
	AT5G03340	AT5G05470	AT5G05750	AT5G07340	AT5G09590	AT5G12020	AT5G12030	AT5G14030	AT5G15400	AT5G16090	AT5G19660	
	AT5G19690	AT5G20570	AT5G20970	AT5G22060	AT5G28540	AT5G35080	AT5G37670	AT5G38470	AT5G42020	AT5G42190	AT5G42570	
	AT5G43670	AT5G43710	AT5G48660	AT5G49060	AT5G49570	AT5G49910	AT5G50430	AT5G50460	AT5G50550	AT5G50650	AT5G51440	
	AT5G51450	AT5G52640	AT5G56000	AT5G56010	AT5G56030	AT5G56150	AT5G56360	AT5G59300	AT5G59720	AT5G60460	AT5G60640	
	AT5G61790	AT5G63840	AT5G66680									
	Plant-pathogen interaction	AT1G01120	AT1G01340	AT1G05990	AT1G06700	AT1G12220	AT1G12310	AT1G15990	AT1G18210	AT1G18530	AT1G18890	AT1G19230
		AT1G19780	AT1G21550	AT1G24620	AT1G32250	AT1G35670	AT1G50060	AT1G50700	AT1G51660	AT1G61950	AT1G62820	AT1G64060
		AT1G66400	AT1G66410	AT1G73630	AT1G74740	AT1G76040	AT1G76640	AT1G76650	AT1G80460	AT2G04030	AT2G04880	AT2G13790
		AT2G14580	AT2G14610	AT2G15680	AT2G17290	AT2G17890	AT2G19190	AT2G23980	AT2G24610	AT2G26250	AT2G27030	AT2G27480
		AT2G28260	AT2G30250	AT2G31500	AT2G35890	AT2G36180	AT2G38470	AT2G38910	AT2G41090	AT2G41110	AT2G41110	AT2G41410
		AT2G41860	AT2G43290	AT2G43790	AT2G46430	AT2G46450	AT3G01830	AT3G03000	AT3G03400	AT3G03410	AT3G03430	AT3G07040
		AT3G07490	AT3G07770	AT3G10190	AT3G10300	AT3G10660	AT3G17690	AT3G17700	AT3G19690	AT3G20410	AT3G21220	AT3G21630
		AT3G22930	AT3G24110	AT3G25070	AT3G25600	AT3G28910	AT3G43810	AT3G45640	AT3G47450	AT3G47480	AT3G48010	AT3G48080
AT3G48090		AT3G50360	AT3G50770	AT3G51850	AT3G51920	AT3G56800	AT3G57530	AT3G59350	AT3G62220	AT4G01010		
AT4G01250		AT4G01370	AT4G03290	AT4G04695	AT4G04700	AT4G04710	AT4G04720	AT4G04740	AT4G08500	AT4G09570	AT4G11230	
AT4G11260		AT4G12860	AT4G14440	AT4G14640	AT4G20780	AT4G21940	AT4G23550	AT4G23570	AT4G23650	AT4G24190	AT4G25090	
AT4G26090		AT4G26470	AT4G30360	AT4G30560	AT4G33430	AT4G33720	AT4G35310	AT4G36070	AT4G37010	AT4G38230	AT4G39090	
AT5G04170		AT5G04870	AT5G07390	AT5G12180	AT5G12480	AT5G13160	AT5G14870	AT5G15410	AT5G17470	AT5G17480	AT5G19360	
AT5G19450		AT5G20480	AT5G21274	AT5G23580	AT5G37770	AT5G37780	AT5G42380	AT5G44460	AT5G45250	AT5G45260	AT5G46330	
AT5G47910		AT5G51060	AT5G51700	AT5G52640	AT5G53130	AT5G56000	AT5G56010	AT5G56030	AT5G56270	AT5G56580	AT5G57940	
AT5G66210												
Proteasome		AT1G04810	AT1G09100	AT1G13060	AT1G16470	AT1G20200	AT1G21720	AT1G29150	AT1G45000	AT1G47250	AT1G53750	AT1G53780
		AT1G53850	AT1G56450	AT1G64520	AT1G64750	AT1G67250	AT1G75990	AT1G77440	AT1G79210	AT2G05840	AT2G20140	AT2G20580
		AT2G27020	AT2G32730	AT3G05530	AT3G11270	AT3G13330	AT3G14290	AT3G22110	AT3G22630	AT3G26340	AT3G27430	AT3G51260
		AT3G53970	AT3G60820	AT4G14800	AT4G19006	AT4G24820	AT4G28470	AT4G29040	AT4G31300	AT4G38630	AT5G05780	AT5G09900
	AT5G19990	AT5G20000	AT5G23540	AT5G35590	AT5G38650	AT5G40580	AT5G42040	AT5G42790	AT5G43010	AT5G45010	AT5G45620	
	AT5G58290	AT5G64760	AT5G66140									
Glutathione metabolism	AT1G02920	AT1G02930	AT1G02940	AT1G02950	AT1G07890	AT1G09420	AT1G10360	AT1G10370	AT1G17170	AT1G17180	AT1G17190	
	AT1G23820	AT1G24280	AT1G27130	AT1G27140	AT1G49860	AT1G53680	AT1G54340	AT1G59670	AT1G59700	AT1G63460	AT1G63770	
	AT1G64190	AT1G65820	AT1G65930	AT1G69820	AT1G69920	AT1G69930	AT1G70310	AT1G74590	AT1G77490	AT1G78320	AT1G78340	
	AT1G78360	AT1G78370	AT1G78380	AT2G02930	AT2G21790	AT2G24200	AT2G25080	AT2G29420	AT2G29440	AT2G29450	AT2G29460	
	AT2G29470	AT2G29480	AT2G29490	AT2G30860	AT2G30870	AT2G31570	AT2G43350	AT2G47730	AT2G48150	AT3G02360	AT3G03190	
	AT3G09270	AT3G09640	AT3G23580	AT3G24170	AT3G27060	AT3G27300	AT3G43800	AT3G54660	AT3G55040	AT3G62760	AT3G63080	
	AT4G02520	AT4G08390	AT4G09010	AT4G11600	AT4G23100	AT4G29210	AT4G30910	AT4G31070	AT4G31870	AT4G32320	AT4G35000	
	AT4G35970	AT4G39640	AT4G39650	AT5G02780	AT5G02790	AT5G13110	AT5G14590	AT5G17220	AT5G27380	AT5G35790	AT5G37830	
	AT5G40760	AT5G41210	AT5G41670	AT5G53120	AT5G62480							
	Protein export	AT1G06870	AT1G09080	AT1G15310	AT1G21650	AT1G23465	AT1G24490	AT1G29310	AT1G29960	AT1G48160	AT1G48900	AT1G52600
		AT1G53530	AT1G67650	AT1G67680	AT1G78720	AT1G79940	AT2G01110	AT2G18710	AT2G18770	AT2G22425	AT2G28800	AT2G30440
AT2G34250		AT2G39960	AT2G43640	AT2G45070	AT2G45770	AT2G46470	AT3G08980	AT3G15710	AT3G20920	AT3G24590	AT3G48570	
AT3G49100		AT3G60540	AT4G01800	AT4G04200	AT4G21180	AT4G24920	AT4G30600	AT4G40042	AT5G03940	AT5G05670	AT5G27430	
AT5G28540		AT5G28750	AT5G42020	AT5G49500	AT5G50460	AT5G60460	AT5G61970	AT5G62050	AT5G66970			
Phagosome		AT1G04820	AT1G08450	AT1G09210	AT1G11890	AT1G12840	AT1G19910	AT1G20010	AT1G20090	AT1G20260	AT1G22740	AT1G29310
	AT1G32270	AT1G34260	AT1G50010	AT1G51740	AT1G52280	AT1G56340	AT1G60490	AT1G64200	AT1G64740	AT1G71010	AT1G75630	
	AT1G75780	AT1G75840	AT1G76030	AT1G78720	AT1G78900	AT2G16510	AT2G17800	AT2G18710	AT2G21410	AT2G25610	AT2G28520	
	AT2G29550	AT2G34250	AT2G44690	AT2G45070	AT3G01390	AT3G08560	AT3G14270	AT3G16100	AT3G18820	AT3G28710	AT3G28715	
	AT3G42050	AT3G48040	AT3G48570	AT3G51300	AT3G58730	AT3G60540	AT4G02620	AT4G09720	AT4G11150	AT4G14960	AT4G17730	
	AT4G20890	AT4G23710	AT4G24920	AT4G25950	AT4G26710	AT4G28950	AT4G32530	AT4G33240	AT4G33240	AT4G35950		
	AT4G38510	AT4G38920	AT4G39080	AT5G07340	AT5G12250	AT5G16830	AT5G19770	AT5G19780	AT5G23860	AT5G44340	AT5G45970	
	AT5G46860	AT5G50460	AT5G52270	AT5G55290	AT5G60460	AT5G61790	AT5G62690	AT5G62700	AT5G62880			
	alpha-Linolenic acid metabolism	AT1G04710	AT1G06290	AT1G06310	AT1G09400	AT1G13280	AT1G17420	AT1G18020	AT1G19640	AT1G20510	AT1G67560	AT1G72520
AT1G76680		AT1G76690	AT1G77120	AT2G06050	AT2G06925	AT2G33150	AT2G35690	AT2G44810	AT3G01420	AT3G03480	AT3G06690	
AT3G06860		AT3G25760	AT3G25770	AT3G25780	AT3G45140	AT3G51840	AT3G57140	AT4G15440	AT4G16760	AT4G29010	AT5G04040	
AT5G42650		AT5G48880	AT5G65110									
Carbon fixation in photosynthetic organisms	AT1G04410	AT1G12900	AT1G13440	AT1G16300	AT1G17290	AT1G23310	AT1G32060	AT1G42970	AT1G43670	AT1G53240	AT1G53310	
	AT1G56190	AT1G62800	AT1G63290	AT1G67090	AT1G68750	AT1G70580	AT1G71100	AT1G72330	AT1G79530	AT1G79550	AT1G79750	
	AT2G01140	AT2G01290	AT2G13560	AT2G19900	AT2G21170	AT2G21330	AT2G22780	AT2G30970	AT2G36460	AT2G42600	AT2G45290	
	AT3G01850	AT3G04120	AT3G04790	AT3G12780	AT3G14940	AT3G15020	AT3G26650	AT3G27520	AT3G29300	AT3G54050	AT3G55440	
	AT3G55800	AT3G60750	AT4G00570	AT4G15530	AT4G26520	AT4G26530	AT4G37870	AT4G38970	AT5G03690	AT5G09660	AT5G11520	
	AT5G11670	AT5G19550	AT5G25880	AT5G38410	AT5G38420	AT5G38430	AT5G43330	AT5G44520	AT5G56720	AT5G58330	AT5G61410	
	AT5G64380	AT5G65690	ArthCp030									
Carbon metabolism	AT1G01090	AT1G04410	AT1G06550	AT1G09420	AT1G09780	AT1G11860	AT1G12230	AT1G12550	AT1G12900	AT1G13440	AT1G13700	
	AT1G16300	AT1G17290	AT1G17650	AT1G17745	AT1G18640	AT1G20620	AT1G20630	AT1G22020	AT1G22170	AT1G22430	AT1G22440	
	AT1G23310	AT1G24180	AT1G24280	AT1G30120	AT1G32060	AT1G32380	AT1G32440	AT1G32480	AT1G34430	AT1G36370	AT1G42970	
	AT1G43670	AT1G47840	AT1G48030	AT1G48430	AT1G50460	AT1G50480	AT1G53240	AT1G53310	AT1G54220	AT1G54340	AT1G55880	
	AT1G55920	AT1G56190	AT1G59900	AT1G62800	AT1G63290	AT1G64190	AT1G65930	AT1G67090	AT1G68010	AT1G68750	AT1G70580	
	AT1G71100	AT1G72330	AT1G74030	AT1G78050	AT1G79530	AT1G79550	AT1G79750	AT1G79780	AT1G80380	AT2G01140	AT2G01290	
	AT2G05710	AT2G13360	AT2G13560	AT2G14170	AT2G16790	AT2G17130	AT2G17630	AT2G17640	AT2G18450	AT2G19860	AT2G19900	
	AT2G20420	AT2G21170	AT2G21330	AT2G22480	AT2G22780	AT2G24270	AT2G26080	AT2G29560	AT2G30650	AT2G30660	AT2G30970	
	AT2G34590	AT2G35390	AT2G36460	AT2G36530	AT2G36580	AT2G38040	AT2G41530	AT2G				

	AT3G04940	AT3G06810	AT3G08590	AT3G09810	AT3G10050	AT3G12780	AT3G13110	AT3G13930	AT3G14130	AT3G14150	AT3G14415
	AT3G14420	AT3G14940	AT3G15020	AT3G16950	AT3G17240	AT3G17770	AT3G19480	AT3G20040	AT3G21720	AT3G22460	AT3G22960
	AT3G25530	AT3G25860	AT3G25960	AT3G26650	AT3G27300	AT3G27380	AT3G47520	AT3G49160	AT3G49360	AT3G50520	AT3G52200
	AT3G52930	AT3G52990	AT3G54050	AT3G55410	AT3G55440	AT3G55650	AT3G55800	AT3G55810	AT3G58740	AT3G58750	AT3G59760
	AT3G59970	AT3G60100	AT3G60510	AT3G60750	AT3G61440	AT4G00570	AT4G13890	AT4G13930	AT4G14880	AT4G15530	AT4G16155
	AT4G18360	AT4G22110	AT4G24620	AT4G26270	AT4G26390	AT4G26520	AT4G26530	AT4G26910	AT4G26970	AT4G29130	AT4G29220
	AT4G31810	AT4G32210	AT4G32520	AT4G32840	AT4G33010	AT4G34200	AT4G35090	AT4G35260	AT4G35630	AT4G35640	AT4G35650
	AT4G35830	AT4G37550	AT4G37560	AT4G37840	AT4G37870	AT4G37930	AT4G38970	AT5G03290	AT5G03690	AT5G03860	AT5G04120
	AT5G07440	AT5G08300	AT5G08570	AT5G09600	AT5G09660	AT5G11520	AT5G11670	AT5G13110	AT5G13420	AT5G14590	AT5G14780
	AT5G15530	AT5G16390	AT5G18170	AT5G19550	AT5G22620	AT5G23250	AT5G24400	AT5G24410	AT5G24420	AT5G25880	AT5G26780
	AT5G28020	AT5G28030	AT5G35360	AT5G35790	AT5G36700	AT5G36790	AT5G36880	AT5G38410	AT5G38420	AT5G38430	AT5G40650
	AT5G40760	AT5G41670	AT5G42250	AT5G42740	AT5G43330	AT5G43940	AT5G44520	AT5G47720	AT5G47760	AT5G47810	AT5G48230
	AT5G50850	AT5G50950	AT5G52920	AT5G55070	AT5G56350	AT5G56630	AT5G56720	AT5G56760	AT5G56790	AT5G61410	AT5G61580
	AT5G63680	AT5G64380	AT5G65165	AT5G65690	AT5G65750	AT5G65940	AT5G66720	ArthCp030	ArthCp031		
Biosynthesis of amino acids	AT1G02500	AT1G07780	AT1G08250	AT1G08630	AT1G09780	AT1G09795	AT1G10060	AT1G10070	AT1G11790	AT1G12230	AT1G13440
	AT1G14810	AT1G15710	AT1G16300	AT1G17290	AT1G17745	AT1G18500	AT1G18640	AT1G22020	AT1G22170	AT1G22410	AT1G23310
	AT1G24807	AT1G24909	AT1G25083	AT1G25155	AT1G25220	AT1G29410	AT1G31180	AT1G31230	AT1G31860	AT1G32380	AT1G32440
	AT1G32480	AT1G33320	AT1G36370	AT1G44820	AT1G48470	AT1G48850	AT1G48860	AT1G50090	AT1G50110	AT1G54100	AT1G54340
	AT1G55880	AT1G55920	AT1G56190	AT1G58080	AT1G62800	AT1G63290	AT1G65930	AT1G69370	AT1G70580	AT1G71100	AT1G71920
	AT1G72330	AT1G72810	AT1G74030	AT1G74040	AT1G75330	AT1G78050	AT1G79530	AT1G79550	AT1G80560	AT1G80600	AT2G01140
	AT2G01290	AT2G04400	AT2G05710	AT2G13810	AT2G17130	AT2G17265	AT2G17630	AT2G17640	AT2G19940	AT2G21170	AT2G21330
	AT2G21940	AT2G22250	AT2G22480	AT2G22910	AT2G24850	AT2G27820	AT2G29560	AT2G29690	AT2G30970	AT2G31100	AT2G31810
	AT2G35390	AT2G36230	AT2G36460	AT2G36530	AT2G36580	AT2G36880	AT2G37500	AT2G39800	AT2G42790	AT2G43090	AT2G43100
	AT2G43750	AT2G44040	AT2G44350	AT2G44530	AT2G45290	AT2G45300	AT2G45440	AT3G01120	AT3G01850	AT3G02020	AT3G03630
	AT3G03780	AT3G04050	AT3G04120	AT3G04520	AT3G04790	AT3G04940	AT3G06350	AT3G07630	AT3G08590	AT3G09810	AT3G10050
	AT3G12780	AT3G13110	AT3G14390	AT3G17390	AT3G17820	AT3G19480	AT3G19710	AT3G22425	AT3G22460	AT3G22960	AT3G23940
	AT3G25960	AT3G29200	AT3G44720	AT3G48560	AT3G49160	AT3G49680	AT3G50520	AT3G52930	AT3G52990	AT3G53580	AT3G54640
	AT3G55440	AT3G55610	AT3G55650	AT3G55810	AT3G55870	AT3G57050	AT3G57560	AT3G58610	AT3G58750	AT3G58990	AT3G59760
	AT3G59760	AT3G59890	AT3G60100	AT3G60750	AT3G60880	AT3G61440	AT4G01850	AT4G02610	AT4G08870	AT4G08900	AT4G13430
	AT4G13890	AT4G13930	AT4G14880	AT4G14910	AT4G17830	AT4G19710	AT4G23590	AT4G23600	AT4G24830	AT4G26270	AT4G26390
	AT4G26520	AT4G26530	AT4G26900	AT4G26970	AT4G27070	AT4G28410	AT4G28420	AT4G29220	AT4G29840	AT4G31990	AT4G32520
	AT4G32840	AT4G33510	AT4G33680	AT4G34200	AT4G35260	AT4G35630	AT4G35640	AT4G35650	AT4G35830	AT4G37670	AT4G37930
	AT4G38220	AT4G38970	AT4G39120	AT4G39540	AT4G39980	AT5G03290	AT5G03690	AT5G04120	AT5G05590	AT5G05730	AT5G08570
	AT5G10330	AT5G10870	AT5G10920	AT5G11520	AT5G11880	AT5G13280	AT5G13420	AT5G14060	AT5G14200	AT5G14590	AT5G14800
	AT5G16290	AT5G16570	AT5G17920	AT5G17990	AT5G19550	AT5G20980	AT5G22620	AT5G22630	AT5G26780	AT5G28020	AT5G28030
	AT5G28237	AT5G34930	AT5G35630	AT5G36160	AT5G37600	AT5G38530	AT5G44520	AT5G47810	AT5G48220	AT5G52920	AT5G53460
	AT5G53970	AT5G54810	AT5G56350	AT5G56630	AT5G56760	AT5G57890	AT5G61410	AT5G61580	AT5G63680	AT5G63890	AT5G65770
	AT5G65780	AT5G66120									
Glyoxylate and dicarboxylate metabolism	AT1G04410	AT1G11860	AT1G12550	AT1G17650	AT1G20620	AT1G20630	AT1G22020	AT1G23310	AT1G32470	AT1G36370	AT1G48030
	AT1G48470	AT1G53240	AT1G67090	AT1G68010	AT1G70580	AT1G79870	AT1G80380	AT2G05710	AT2G21360	AT2G22780	AT2G26080
	AT2G35120	AT2G35370	AT2G41220	AT2G42790	AT2G44350	AT3G14130	AT3G14150	AT3G14415	AT3G14420	AT3G15020	AT3G16950
	AT3G17240	AT3G17820	AT3G21720	AT3G25530	AT3G47520	AT3G58740	AT3G58750	AT3G60100	AT4G13890	AT4G13930	AT4G16155
	AT4G17360	AT4G18360	AT4G26970	AT4G32520	AT4G33010	AT4G35090	AT4G35830	AT4G37550	AT4G37560	AT4G37930	AT5G03860
	AT5G04140	AT5G09660	AT5G14780	AT5G16570	AT5G26780	AT5G35630	AT5G36700	AT5G36790	AT5G37600	AT5G38410	AT5G38420
	AT5G38430	AT5G43330	AT5G47435	AT5G47720	AT5G47760	AT5G48230	AT5G56720	ArthCp030			
Tryptophan metabolism	AT1G04180	AT1G04610	AT1G20620	AT1G20630	AT1G21430	AT1G23320	AT1G23800	AT1G24100	AT1G44170	AT1G47600	AT1G48910
	AT1G51470	AT1G51490	AT1G54100	AT1G70560	AT1G74100	AT2G20610	AT2G22330	AT2G30770	AT2G33230	AT3G43600	AT3G44300
	AT3G44310	AT3G44320	AT3G48000	AT3G55410	AT4G13260	AT4G24670	AT4G28720	AT4G31500	AT4G32540	AT4G34240	AT4G34880
	AT4G35090	AT4G36250	AT4G39950	AT5G11320	AT5G20960	AT5G25620	AT5G25980	AT5G26000	AT5G43890	AT5G47720	AT5G48230
	AT5G48375	AT5G65750									
Pentose phosphate pathway	AT1G09420	AT1G12000	AT1G12230	AT1G13700	AT1G17160	AT1G20950	AT1G23190	AT1G24280	AT1G32380	AT1G43670	AT1G63290
	AT1G64190	AT1G70730	AT1G71100	AT1G76550	AT2G01140	AT2G01290	AT2G16790	AT2G21330	AT2G22480	AT2G24270	AT2G35390
	AT2G36460	AT2G44530	AT2G45290	AT3G01850	AT3G02360	AT3G04790	AT3G27300	AT3G49360	AT3G52930	AT3G54050	AT3G60750
	AT4G04040	AT4G24620	AT4G26270	AT4G26520	AT4G26530	AT4G29220	AT4G32840	AT4G38970	AT5G03690	AT5G13110	AT5G13420
	AT5G24400	AT5G24410	AT5G24420	AT5G35790	AT5G40760	AT5G41670	AT5G42740	AT5G44520	AT5G47810	AT5G51820	AT5G56630
	AT5G61410	AT5G61580	AT5G64380								
Photosynthesis	AT1G03130	AT1G03600	AT1G06680	AT1G08380	AT1G10960	AT1G14150	AT1G15700	AT1G20020	AT1G20340	AT1G30380	AT1G30510
	AT1G31330	AT1G32550	AT1G44575	AT1G52230	AT1G55670	AT1G60950	AT1G67740	AT1G76100	AT1G79040	AT2G07707	AT2G20260
	AT2G27510	AT2G30570	AT2G30790	AT3G01440	AT3G16140	AT3G50820	AT3G55330	AT4G02770	AT4G03280	AT4G04640	AT4G05180
	AT4G05390	AT4G09650	AT4G12800	AT4G14890	AT4G21280	AT4G28660	AT4G28750	AT4G32260	AT5G10000	AT5G45040	AT5G64040
	AT5G66190	AT5G66570	ArthCp002	ArthCp005	ArthCp006	ArthCp007	ArthCp008	ArthCp009	ArthCp010	ArthCp015	ArthCp016
	ArthCp017	ArthCp018	ArthCp019	ArthCp021	ArthCp022	ArthCp028	ArthCp029	ArthCp032	ArthCp035	ArthCp036	ArthCp037
	ArthCp038	ArthCp039	ArthCp041	ArthCp042	ArthCp049	ArthCp050	ArthCp052	ArthCp053	ArthCp054	ArthCp075	ArthMp040
Porphyrin and chlorophyll metabolism	AT1G03475	AT1G03630	AT1G04620	AT1G08520	AT1G09940	AT1G19670	AT1G44318	AT1G44446	AT1G58290	AT1G58300	AT1G69720
	AT1G69740	AT1G74470	AT2G26540	AT2G26670	AT2G30390	AT2G31250	AT2G40490	AT2G44520	AT3G09150	AT3G14930	AT3G44880
	AT3G48730	AT3G51820	AT3G56940	AT4G01690	AT4G03205	AT4G03240	AT4G13250	AT4G16690	AT4G18480	AT4G25080	AT4G27440
	AT4G37000	AT5G04900	AT5G08280	AT5G13630	AT5G14220	AT5G18660	AT5G26030	AT5G26710	AT5G43860	AT5G45930	AT5G54190
	AT5G56090	AT5G63290	AT5G63570	AT5G64050							
Glycine, serine and threonine metabolism	AT1G08630	AT1G09780	AT1G11860	AT1G12550	AT1G14810	AT1G17745	AT1G18640	AT1G22020	AT1G22170	AT1G23310	AT1G31230
	AT1G31670	AT1G31690	AT1G31710	AT1G32470	AT1G36370	AT1G48030	AT1G54100	AT1G62810	AT1G68010	AT1G70580	AT1G72810
	AT1G74920	AT1G78050	AT1G79870	AT1G80380	AT2G13360	AT2G17265	AT2G17630	AT2G24580	AT2G26080	AT2G35120	AT2G35370
	AT2G38400	AT2G42490	AT3G02020	AT3G04520	AT3G08590	AT3G08860	AT3G10050	AT3G16950	AT3G17240	AT3G19480	AT3G43670
	AT3G48170	AT3G50520	AT3G54640	AT4G02610	AT4G11640	AT4G12290	AT4G13890	AT4G13930	AT4G14940	AT4G16155	AT4G19710
	AT4G27070	AT4G29840	AT4G29890	AT4G32520	AT4G33010	AT4G34200	AT4G35630	AT4G37930	AT4G39660	AT5G04120	AT5G13280
	AT5G14060	AT5G22620	AT5G26780	AT5G28237	AT5G38530	AT5G54810					