

Supplemental Table S3. Gene Ontology (GO) analysis of the up- or down-regulated DEGs in

GOBPID	Pvalue	OddsRatio	ExpCount	Count	Size	Term	Genes	up- or do
GO:004549	2.88E-09	14.2311	0.978847		11	52 xylan bioPotri.001down-regu		
GO:001008	0.006395	3.842842	1.65651		6	88 xylem devPotri.001down-regu		
GO:000969	4.77E-21	6.53233	8.263727		46	439 phenylproPotri.001down-regu		
GO:001041	1.92E-09	6.68903	3.049485		18	162 hemicelluPotri.001down-regu		
GO:000980	2.08E-06	4.777818	3.425964		15	182 lignin biPotri.001down-regu		
GO:000980	2.22E-14	7.109888	4.555403		28	242 lignin mePotri.001down-regu		
GO:004548	0.004324	2.661065	4.310691		11	229 pectin mePotri.001down-regu		
GO:000983	3.36E-21	11.10476	3.576556		32	190 plant-typPotri.001down-regu		
GO:000973	0.009596	1.762147	13.45915		23	715 response Potri.001down-regu		
GO:003024	0.000796	4.389605	1.957694		8	104 cellulosePotri.004down-regu		
GO:003015	0.005195	1.621045	23.64292		37	1256 cell diffPotri.001down-regu		
GO:004254	7.20E-21	6.296806	8.734327		47	464 cell wallPotri.001down-regu		
GO:004403	3.86E-08	6.715528	2.522413		15	134 cell wallPotri.001down-regu		
GO:000983	8.04E-19	6.861416	6.644865		39	353 plant-typPotri.001down-regu		
GO:004455	4.57E-15	5.449486	7.717832		37	410 secondaryPotri.001down-regu		
GO:007059	2.84E-08	6.88988	2.465941		15	131 cell wallPotri.001down-regu		
GO:001605	1.36E-05	2.668126	10.72967		27	570 carbohydrPotri.001down-regu		
GO:200065	1.42E-07	10.80366	1.110615		10	59 regulatioPotri.001down-regu		
GO:007155	1.10E-08	2.978544	14.55094		40	773 cell wallPotri.001down-regu		
GO:001038	3.91E-10	5.528526	4.649523		23	247 cell wallPotri.001down-regu		
GO:000969	3.88E-16	6.337526	6.362505		35	338 phenylproPotri.001down-regu		
GO:001974	1.66E-19	4.534952	15.2286		60	809 secondaryPotri.001down-regu		
GO:004627	1.45E-10	13.83497	1.185911		13	63 lignin caPotri.005down-regu		
GO:004627	1.45E-10	13.83497	1.185911		13	63 phenylproPotri.005down-regu		
GO:007166	3.02E-15	4.97295	9.336694		41	496 plant-typPotri.001down-regu		
GO:190333	8.53E-07	8.674958	1.336503		10	71 regulatioPotri.001down-regu		
GO:200028	0.003324	4.439803	1.449446		6	77 regulatioPotri.002down-regu		
GO:004549	9.36E-09	9.340648	1.637686		13	87 xylan metPotri.001down-regu		
GO:000701	0.009989	3.090909	2.371821		7	126 actin filPotri.004down-regu		
GO:000333	4.92E-06	5.579858	2.371821		12	126 amino aciPotri.001down-regu		
GO:000686	2.71E-05	4.639608	2.804773		12	149 amino aciPotri.001down-regu		
GO:005127	0.001615	3.900344	2.183582		8	116 beta-glucPotri.004down-regu		
GO:005127	0.002123	3.387226	2.804773		9	149 beta-glucPotri.004down-regu		
GO:000597	6.01E-05	1.842949	31.02192		54	1648 carbohydrPotri.001down-regu		
GO:190503	2.90E-05	4.605837	2.823597		12	150 carboxyliPotri.001down-regu		
GO:004403	3.01E-08	4.306043	5.835434		23	310 cell wallPotri.001down-regu		
GO:007155	1.02E-15	3.485209	21.08286		65	1120 cell wallPotri.001down-regu		
GO:003463	1.3E-06	3.538257	6.682513		22	355 cellular Potri.001down-regu		
GO:004426	2.92E-07	2.81009	13.36503		35	710 cellular Potri.001down-regu		
GO:007058	3.86E-08	6.715528	2.522413		15	134 cellular Potri.001down-regu		
GO:004886	0.001905	1.67186	26.16533		42	1390 cellular Potri.001down-regu		
GO:000607	0.000418	2.693892	6.626041		17	352 cellular Potri.003down-regu		
GO:003369	1.19E-07	4.295141	5.327186		21	283 cellular Potri.001down-regu		
GO:004426	7.69E-08	3.389275	9.242574		29	491 cellular Potri.001down-regu		
GO:003024	0.001188	3.706231	2.578885		9	137 cellulosePotri.004down-regu		
GO:004522	2.34E-09	2.975226	16.0945		44	855 external Potri.001down-regu		
GO:001039	0.004612	2.636701	4.348339		11	231 galacturoPotri.001down-regu		
GO:004404	0.000432	2.685786	6.644865		17	353 glucan mePotri.003down-regu		
GO:001976	0.00592	2.687984	3.87774		10	206 glucosinoPotri.001down-regu		
GO:001975	0.00592	2.687984	3.87774		10	206 glycosinoPotri.001down-regu		
GO:004274	0.008966	2.881608	2.898893		8	154 hydrogen Potri.002down-regu		

GO:001569	0.007575	2.754163	3.40714	9	181 inorganicPotri.001down-regu
GO:001087	0.006282	2.406884	5.176594	12	275 lipid locPotri.001down-regu
GO:000686	0.002352	2.743181	4.574227	12	243 lipid traPotri.001down-regu
GO:007233	0.00982	1.949491	8.997862	17	478 monocarboPotri.001down-regu
GO:000685	0.00222	3.694339	2.296526	8	122 oligopeptPotri.001down-regu
GO:190382	2.90E-05	4.605837	2.823597	12	150 organic aPotri.001down-regu
GO:001584	8.15E-05	3.417055	4.668347	15	248 organic aPotri.001down-regu
GO:004548	0.004273	4.202466	1.524742	6	81 pectin biPotri.001down-regu
GO:000027	6.99E-07	3.683572	6.437801	22	342 polysacchPotri.001down-regu
GO:000597	1.37E-06	2.656449	13.66621	34	726 polysacchPotri.001down-regu
GO:000989	0.009338	1.652194	18.10867	29	962 positive Potri.001down-regu
GO:003132	0.009734	1.662109	17.37453	28	923 positive Potri.001down-regu
GO:190350	0.008654	1.734513	14.87094	25	790 positive Potri.001down-regu
GO:190268	0.008654	1.734513	14.87094	25	790 positive Potri.001down-regu
GO:004589	0.008029	1.746216	14.77682	25	785 positive Potri.001down-regu
GO:004408	0.000736	3.003126	4.555403	13	242 regulatioPotri.001down-regu
GO:000973	0.001625	1.749169	22.02406	37	1170 response Potri.001down-regu
GO:000110	6.26E-06	2.463116	14.66388	34	779 response Potri.001down-regu
GO:009730	0.002136	1.719216	22.38171	37	1189 response Potri.001down-regu
GO:001003	0.000502	1.677813	33.80787	54	1796 response Potri.001down-regu
GO:003399	3.50E-05	1.832575	34.20317	59	1817 response Potri.001down-regu
GO:000697	1.31E-06	2.207488	24.24529	50	1288 response Potri.001down-regu
GO:000965	5.60E-06	2.17654	22.00523	45	1169 response Potri.001down-regu
GO:000941	6.67E-06	2.492562	14.06151	33	747 response Potri.001down-regu
GO:000941	4.50E-06	2.543598	13.79798	33	733 response Potri.001down-regu
GO:000961	1.39E-06	2.978198	10.05201	28	534 response Potri.001down-regu
GO:001614	0.00592	2.687984	3.87774	10	206 S-glycosiPotri.001down-regu
GO:000962	0.00965	2.842482	2.936541	8	156 systemic Potri.001down-regu
GO:005508	0.001112	1.682043	28.5748	46	1518 transmembPotri.001down-regu
GO:001034	9.97E-13	27.73883	0.658839	12	35 suberin bPotri.001down-regu
GO:001943	5.44E-11	1.956399	84.04907	143	4465 aromatic Potri.001down-regu
GO:190136	8.39E-10	1.859684	89.03742	145	4730 organic cPotri.001down-regu
GO:000635	8.33E-09	1.935775	61.46029	107	3265 regulatioPotri.001down-regu
GO:190350	8.74E-09	1.933728	61.51677	107	3268 regulatioPotri.001down-regu
GO:200114	8.74E-09	1.933728	61.51677	107	3268 regulatioPotri.001down-regu
GO:000635	4.54E-08	1.854923	65.0745	109	3457 transcripPotri.001down-regu
GO:009765	4.74E-08	1.853059	65.13097	109	3460 nucleic aPotri.001down-regu
GO:003277	5.67E-08	1.845638	65.35686	109	3472 RNA biosyPotri.001down-regu
GO:005125	7.59E-08	1.842946	64.1333	107	3407 regulatioPotri.001down-regu
GO:200011	1.07E-07	1.810238	67.78515	111	3601 regulatioPotri.001down-regu
GO:001055	1.31E-07	1.802079	68.04869	111	3615 regulatioPotri.001down-regu
GO:001921	2.89E-07	1.78636	65.88393	107	3500 regulatioPotri.001down-regu
GO:003132	3.18E-07	1.753796	71.70054	114	3809 regulatioPotri.001down-regu
GO:000988	3.90E-07	1.741764	72.81115	115	3868 regulatioPotri.001down-regu
GO:004424	4.19E-07	1.565562	146.6012	200	7788 cellular Potri.001down-regu
GO:000905	8.48E-07	1.537702	155.2978	208	8250 biosynthePotri.001down-regu
GO:190157	1.35E-06	1.528048	152.606	204	8107 organic sPotri.001down-regu
GO:008009	6.17E-06	1.614609	81.30077	120	4319 regulatioPotri.001down-regu
GO:190170	8.03E-06	1.688926	60.85793	95	3233 response Potri.001down-regu
GO:003465	8.08E-06	1.636253	72.47232	109	3850 nucleobasPotri.001down-regu
GO:003132	1.13E-05	1.579879	85.78088	124	4557 regulatioPotri.001down-regu
GO:005117	1.29E-05	1.598098	78.32658	115	4161 regulatioPotri.001down-regu
GO:001055	2.14E-05	12.62795	0.583543	6	31 response Potri.001down-regu
GO:001046	2.20E-05	1.589559	75.01356	110	3985 regulatioPotri.001down-regu

GO:001813	3.13E-05	1.56067	79.90779	115	4245 heterocycPotri.001down-regu
GO:000905	3.29E-05	1.502297	103.5319	142	5500 macromolePotri.001down-regu
GO:001041	3.68E-05	16.41934	0.395304	5	21 glucuronoPotri.001down-regu
GO:001041	3.68E-05	16.41934	0.395304	5	21 glucuronoPotri.001down-regu
GO:003464	5.53E-05	1.487589	101.9695	139	5417 cellular Potri.001down-regu
GO:000972	6.65E-05	1.616778	57.58255	87	3059 response Potri.001down-regu
GO:006025	7.18E-05	1.515636	84.95262	119	4513 regulatioPotri.001down-regu
GO:000971	0.000105	1.592424	58.35434	87	3100 response Potri.001down-regu
GO:001003	0.000167	1.51697	72.77351	103	3866 response Potri.001down-regu
GO:001922	0.000229	1.450751	94.43991	127	5017 regulatioPotri.001down-regu
GO:004222	0.000264	1.43208	101.8942	135	5413 response Potri.001down-regu
GO:000672	0.000405	1.375253	134.8362	170	7163 cellular Potri.001down-regu
GO:190133	0.000512	26.18995	0.169416	3	9 negative Potri.002down-regu
GO:190235	0.000512	26.18995	0.169416	3	9 sulfate tPotri.001down-regu
GO:001011	0.000577	12.3413	0.395304	4	21 photoprotPotri.002down-regu
GO:190136	0.000846	1.345402	139.6928	173	7421 organic cPotri.001down-regu
GO:000980	0.000978	19.64118	0.207064	3	11 cinnamic Potri.008down-regu
GO:000980	0.000978	19.64118	0.207064	3	11 cinnamic Potri.008down-regu
GO:000827	0.001546	9.120047	0.508247	4	27 sulfate tPotri.001down-regu
GO:003526	0.001649	15.71193	0.244712	3	13 multicellPotri.002down-regu
GO:004408	0.001807	1.539913	40.77274	60	2166 cellular Potri.001down-regu
GO:000995	0.001857	6.249695	0.884727	5	47 positive Potri.003down-regu
GO:001614	0.002031	8.389898	0.545895	4	29 S-glycosiPotri.001down-regu
GO:001975	0.002031	8.389898	0.545895	4	29 glycosinoPotri.001down-regu
GO:001976	0.002031	8.389898	0.545895	4	29 glucosinoPotri.001down-regu
GO:190134	0.002069	14.2831	0.263536	3	14 positive Potri.005down-regu
GO:190334	0.002069	14.2831	0.263536	3	14 positive Potri.005down-regu
GO:004647	0.00207	52.29762	0.075296	2	4 glycerophPotri.001down-regu
GO:200002	0.002551	13.09242	0.28236	3	15 regulatioPotri.002down-regu
GO:000990	0.003298	7.231729	0.621191	4	33 anther dePotri.001down-regu
GO:001040	0.003407	34.86395	0.09412	2	5 rhamnagalPotri.006down-regu
GO:001960	0.003407	34.86395	0.09412	2	5 butyrate Potri.006down-regu
GO:000962	0.003473	1.372154	76.03005	99	4039 response Potri.001down-regu
GO:011012	0.004386	10.47291	0.338832	3	18 phloem loPotri.007down-regu
GO:199093	0.005046	26.14711	0.112944	2	6 xylan acePotri.008down-regu
GO:004624	0.005137	9.818037	0.357656	3	19 salicylicPotri.008down-regu
GO:000655	0.00596	9.240204	0.37648	3	20 L-phenylaPotri.008down-regu
GO:190134	0.00596	9.240204	0.37648	3	20 negative Potri.005down-regu
GO:190222	0.00596	9.240204	0.37648	3	20 erythrosePotri.008down-regu
GO:190333	0.00596	9.240204	0.37648	3	20 negative Potri.005down-regu
GO:001576	0.006857	8.726576	0.395304	3	21 disaccharPotri.013down-regu
GO:001577	0.006857	8.726576	0.395304	3	21 sucrose tPotri.013down-regu
GO:001577	0.006857	8.726576	0.395304	3	21 oligosaccPotri.013down-regu
GO:004265	0.006857	8.726576	0.395304	3	21 regulatioPotri.001down-regu
GO:003064	0.006977	20.91701	0.131768	2	7 cellular Potri.001down-regu
GO:004645	0.006977	20.91701	0.131768	2	7 short-chaPotri.006down-regu
GO:007250	0.006977	20.91701	0.131768	2	7 cellular Potri.001down-regu
GO:000981	0.00783	8.267013	0.414128	3	22 drought rPotri.008down-regu
GO:000656	0.00888	7.853407	0.432952	3	23 proline mPotri.001down-regu
GO:200006	0.00888	7.853407	0.432952	3	23 regulatioPotri.002down-regu
GO:000173	0.009187	17.43027	0.150592	2	8 establishPotri.010down-regu
GO:000173	0.009187	17.43027	0.150592	2	8 morphogenPotri.010down-regu
GO:000200	0.009187	17.43027	0.150592	2	8 morphogenPotri.010down-regu
GO:000991	0.009187	17.43027	0.150592	2	8 phloem suPotri.013down-regu

GO:003000	0.009187	17.43027	0.150592	2	8 cellular Potri.001down-regu
GO:004620	0.009187	17.43027	0.150592	2	8 nitric oxPotri.002down-regu
GO:004872	0.009187	17.43027	0.150592	2	8 tissue moPotri.010down-regu
GO:009050	0.009187	17.43027	0.150592	2	8 axillary Potri.002down-regu
GO:007234	0.009304	5.241126	0.828255	4	44 sulfur coPotri.001down-regu
GO:000982	0.000132	6.985646	1.132757	7	56 plant-typPotri.004up-regula
GO:000982	0.000649	4.550561	1.901413	8	94 plant-typPotri.004up-regula
GO:003024	0.000113	4.285625	2.771209	11	137 cellulosePotri.001up-regula
GO:000973	2.03E-08	3.369008	10.29595	32	509 response Potri.001up-regula
GO:001605	2.39E-11	4.183529	9.264333	35	458 carbohydrPotri.001up-regula
GO:000600	8.73E-10	10.32711	1.638452	14	81 glucose mPotri.002up-regula
GO:003024	0.00426	6.717022	0.667517	4	33 cellulosePotri.001up-regula
GO:000983	0.003051	5.539999	0.991162	5	49 plant-typPotri.001up-regula
GO:001699	1.17E-06	7.309553	1.719363	11	85 cell wallPotri.001up-regula
GO:000966	0.00142	2.928253	4.308522	12	213 plant-typPotri.004up-regula
GO:003024	0.005259	3.523307	2.103691	7	104 cellulosePotri.001up-regula
GO:004403	0.00022	2.860212	6.270619	17	310 cell wallPotri.001up-regula
GO:007155	5.83E-07	2.600128	15.63609	38	773 cell wallPotri.001up-regula
GO:001038	0.004754	2.501799	4.996267	12	247 cell wallPotri.001up-regula
GO:007166	0.000563	2.292994	10.03299	22	496 plant-typPotri.001up-regula
GO:004254	0.005064	2.480524	5.036723	12	249 cell wallPotri.001up-regula
GO:007155	1.17E-08	2.534211	22.65514	53	1120 cell wallPotri.001up-regula
GO:001605	2.67E-07	2.980993	11.52985	32	570 carbohydrPotri.001up-regula
GO:004427	0.003799	3.370387	2.508247	8	124 cellular Potri.001up-regula
GO:004426	6.15E-05	2.273683	14.36174	31	710 cellular Potri.001up-regula
GO:000609	1.25E-05	5.572173	2.184603	11	108 glycolytiPotri.002up-regula
GO:004636	0.000105	5.313427	1.860958	9	92 monosacchPotri.004up-regula
GO:000609	7.3E-08	5.907356	3.03417	16	150 pyruvate Potri.002up-regula
GO:001599	6.42E-08	7.818841	1.921641	13	95 chlorophyPotri.001up-regula
GO:001599	8.87E-08	6.282207	2.690298	15	133 chlorophyPotri.001up-regula
GO:000965	4.54E-05	2.94449	7.201098	20	356 chloroplaPotri.001up-regula
GO:000985	0.000604	4.604247	1.881186	8	93 photorespPotri.001up-regula
GO:001597	2.25E-45	10.42589	9.547523	76	472 photosyntPotri.001up-regula
GO:000976	3.4E-19	18.99713	1.618224	22	80 photosyntPotri.001up-regula
GO:001968	3.8E-29	10.47278	5.663785	47	280 photosyntPotri.001up-regula
GO:000976	2.39E-12	8.979077	2.649842	20	131 photosyntPotri.001up-regula
GO:001020	0.000117	7.131413	1.112529	7	55 photosystPotri.001up-regula
GO:004614	0.000378	2.940548	5.380595	15	266 pigment bPotri.001up-regula
GO:004244	0.001949	2.472948	6.331302	15	313 pigment mPotri.001up-regula
GO:000677	2.98E-07	6.746029	2.184603	13	108 porphyrinPotri.001up-regula
GO:000677	5.14E-07	5.407592	3.074626	15	152 porphyrinPotri.001up-regula
GO:001010	4.38E-05	6.995208	1.294579	8	64 regulatioPotri.002up-regula
GO:000963	0.00813	2.937952	2.85212	8	141 response Potri.004up-regula
GO:001021	0.000649	4.550561	1.901413	8	94 response Potri.002up-regula
GO:000964	8.78E-07	5.569589	2.791437	14	138 response Potri.001up-regula
GO:000964	1.58E-08	4.306781	6.108796	24	302 response Potri.001up-regula
GO:001011	8.17E-05	4.905288	2.225058	10	110 response Potri.002up-regula
GO:000941	0.001749	2.714647	5.016495	13	248 response Potri.001up-regula
GO:003301	5.07E-07	6.407681	2.285742	13	113 tetrapyrrPotri.001up-regula
GO:003301	6.08E-07	5.329436	3.115082	15	154 tetrapyrrPotri.001up-regula
GO:001002	0.001938	4.274382	1.759819	7	87 thylakoidPotri.002up-regula
GO:004603	1.92E-05	5.298162	2.285742	11	113 ADP metabPotri.002up-regula
GO:190160	4.56E-11	5.428961	5.380595	26	266 alpha-amiPotri.001up-regula
GO:190160	4.37E-09	3.90906	8.111349	29	401 alpha-amiPotri.001up-regula

GO:004360	0.000115	1.898505	24.94088	45	1233 amide bioPotri.001up-regula
GO:000675	1.25E-05	5.572173	2.184603	11	108 ATP generPotri.002up-regula
GO:004603	0.001212	2.836228	4.814217	13	238 ATP metabPotri.002up-regula
GO:005127	0.009402	3.134191	2.346425	7	116 beta-glucPotri.001up-regula
GO:005127	0.000237	3.911427	3.013943	11	149 beta-glucPotri.001up-regula
GO:190113	0.006901	1.844663	12.31873	22	609 carbohydrPotri.001up-regula
GO:190113	1.61E-06	2.206717	23.70698	49	1172 carbohydrPotri.001up-regula
GO:004639	3.05E-07	2.535129	17.76001	42	878 carboxyliPotri.001up-regula
GO:004545	0.000756	3.165958	4.005105	12	198 cell redoPotri.001up-regula
GO:004360	0.000212	1.783037	29.47191	50	1457 cellular Potri.001up-regula
GO:000865	5.45E-11	5.16914	5.845835	27	289 cellular Potri.001up-regula
GO:000906	0.00688	3.029447	2.771209	8	137 cellular Potri.003up-regula
GO:000652	4.38E-11	3.665415	12.01531	40	594 cellular Potri.001up-regula
GO:000607	0.000118	2.818155	7.120186	19	352 cellular Potri.001up-regula
GO:004309	0.000521	3.828751	2.791437	10	138 cellular Potri.001up-regula
GO:004424	0.001582	4.441351	1.699135	7	84 cellular Potri.001up-regula
GO:004426	9.87E-06	2.781353	9.931851	26	491 cellular Potri.001up-regula
GO:003459	0.001502	3.5808	2.67007	9	132 cellular Potri.001up-regula
GO:004233	0.000408	5.702897	1.355263	7	67 cuticle dPotri.006up-regula
GO:000653	6.81E-06	9.331203	1.01139	8	50 cysteine Potri.003up-regula
GO:000645	0.001341	4.033069	2.123919	8	105 'de novo' Potri.001up-regula
GO:004364	6.58E-05	4.21254	3.074626	12	152 dicarboxyPotri.001up-regula
GO:002290	5.08E-09	5.004775	4.8749	22	241 electron Potri.001up-regula
GO:004522	2.56E-06	2.401193	17.29477	39	855 external Potri.001up-regula
GO:000663	0.001815	2.217289	8.920461	19	441 fatty aciPotri.001up-regula
GO:001939	0.007596	3.704346	1.719363	6	85 fatty aciPotri.001up-regula
GO:004204	0.009533	4.129503	1.294579	5	64 fluid traPotri.004up-regula
GO:000609	8.28E-27	5.699134	14.19992	68	702 generatioPotri.001up-regula
GO:000925	0.002461	2.881881	4.005105	11	198 glucan biPotri.001up-regula
GO:004404	0.000122	2.809625	7.140414	19	353 glucan mePotri.001up-regula
GO:000908	0.001214	5.526259	1.19344	6	59 glutaminePotri.001up-regula
GO:000906	0.009402	3.134191	2.346425	7	116 glutaminePotri.001up-regula
GO:190165	0.001279	4.621859	1.638452	7	81 glycosyl Potri.001up-regula
GO:001931	3.72E-07	4.863286	3.843282	17	190 hexose mePotri.002up-regula
GO:001604	0.000982	2.237926	9.790256	21	484 lipid catPotri.001up-regula
GO:003444	0.001911	3.797388	2.245286	8	111 lipid oxiPotri.001up-regula
GO:003278	0.000278	1.960239	19.23664	36	951 monocarboPotri.001up-regula
GO:000599	3.76E-06	3.855372	5.036723	18	249 monosacchPotri.002up-regula
GO:000982	0.007459	3.28541	2.245286	7	111 multidimePotri.005up-regula
GO:000674	0.003636	5.298783	1.031618	5	51 NADPH regPotri.002up-regula
GO:005508	0.000568	2.162852	12.076	25	597 nucleobasPotri.001up-regula
GO:000913	3.49E-07	6.06013	2.589159	14	128 nucleosidPotri.001up-regula
GO:000616	6.22E-07	6.28163	2.326197	13	115 nucleosidPotri.001up-regula
GO:000675	0.000711	2.354761	8.880005	20	439 nucleosidPotri.001up-regula
GO:000911	0.0006	2.389444	8.758638	20	433 nucleotidPotri.001up-regula
GO:004693	1.23E-06	5.876878	2.467792	13	122 nucleotidPotri.001up-regula
GO:000922	0.003957	5.185874	1.051846	5	52 nucleotidPotri.004up-regula
GO:001605	2.03E-06	2.341766	19.11527	42	945 organic aPotri.001up-regula
GO:001963	0.000186	2.050085	17.39591	34	860 organophoPotri.001up-regula
GO:004304	2.69E-05	2.04791	22.71582	44	1123 peptide bPotri.001up-regula
GO:000651	4.91E-05	1.945313	25.50726	47	1261 peptide mPotri.001up-regula
GO:001819	2.89E-08	8.43777	1.800274	13	89 peptidyl-Potri.001up-regula
GO:000966	0.002505	4.070308	1.84073	7	91 plastid mPotri.002up-regula
GO:000965	3.13E-07	3.230695	9.325017	28	461 plastid oPotri.001up-regula

GO:000027	1.56E-06	3.770823	5.724468	20	283 polysacchPotri.001up-regula
GO:000597	1.23E-07	2.782108	14.68538	38	726 polysacchPotri.001up-regula
GO:005126	0.005872	4.686468	1.152985	5	57 protein hPotri.003up-regula
GO:004202	6.17E-05	5.728582	1.739591	9	86 protein rPotri.001up-regula
GO:001829	1.70E-08	7.947868	2.043008	14	101 protein-cPotri.001up-regula
GO:006500	0.005711	1.719175	17.43637	29	862 protein-cPotri.001up-regula
GO:000913	1.92E-05	5.298162	2.285742	11	113 purine nuPotri.002up-regula
GO:000616	0.000817	2.615489	6.412213	16	317 purine nuPotri.001up-regula
GO:000917	1.92E-05	5.298162	2.285742	11	113 purine riPotri.002up-regula
GO:000915	0.000436	2.783492	6.048113	16	299 purine riPotri.001up-regula
GO:007252	0.002669	2.312507	7.201098	16	356 purine-coPotri.001up-regula
GO:000622	0.005042	4.874245	1.112529	5	55 pyrimidinPotri.001up-regula
GO:000622	0.005042	4.874245	1.112529	5	55 pyrimidinPotri.001up-regula
GO:007252	0.001279	4.621859	1.638452	7	81 pyrimidinPotri.001up-regula
GO:007252	0.003797	3.756349	1.982325	7	98 pyrimidinPotri.001up-regula
GO:004346	6.81E-06	9.331203	1.01139	8	50 regulatioPotri.002up-regula
GO:000961	0.004738	1.642104	22.69559	36	1122 response Potri.001up-regula
GO:004668	2.41E-10	3.383249	13.26944	41	656 response Potri.001up-regula
GO:000940	7.05E-12	3.457792	15.00903	47	742 response Potri.001up-regula
GO:001003	1.13E-09	2.929494	17.47682	47	864 response Potri.001up-regula
GO:000926	1.89E-12	3.018969	22.39218	61	1107 response Potri.001up-regula
GO:000918	2.45E-05	5.146281	2.346425	11	116 ribonuclePotri.002up-regula
GO:000925	0.00018	2.810466	6.756086	18	334 ribonuclePotri.001up-regula
GO:001969	0.000286	2.698259	7.019047	18	347 ribose phPotri.001up-regula
GO:000907	2.00E-09	10.87502	1.456402	13	72 serine faPotri.001up-regula
GO:000906	5.13E-10	9.640182	1.860958	15	92 serine faPotri.001up-regula
GO:004428	4.57E-10	2.602073	25.64885	61	1268 small molPotri.001up-regula
GO:000009	3.47E-06	7.329219	1.557541	10	77 sulfur amPotri.003up-regula
GO:000009	7.56E-05	4.954999	2.20483	10	109 sulfur amPotri.003up-regula
GO:004427	3.09E-07	4.423253	4.69285	19	232 sulfur coPotri.001up-regula
GO:004427	0.005446	4.778516	1.132757	5	56 sulfur coPotri.003up-regula
GO:000679	7.44E-05	2.318628	13.1683	29	651 sulfur coPotri.001up-regula
GO:000641	2.32E-05	2.06177	22.57423	44	1116 translatiPotri.001up-regula
GO:000683	0.009533	4.129503	1.294579	5	64 water traPotri.004up-regula
GO:000976	4.29E-17	39.14208	0.687745	15	34 photosyntPotri.001up-regula
GO:000815	2.23E-14	1.91506	363.4734	455	17969 metabolicPotri.001up-regula
GO:190156	3.57E-14	2.437288	50.44814	108	2494 organonitPotri.001up-regula
GO:004343	4.78E-14	2.65562	37.78553	89	1868 oxoacid mPotri.001up-regula
GO:000597	5.43E-14	2.764504	33.33542	82	1648 carbohydrPotri.001up-regula
GO:004428	1.73E-13	2.294412	58.1347	117	2874 small molPotri.001up-regula
GO:001975	4.14E-13	2.683729	33.33542	80	1648 carboxyliPotri.001up-regula
GO:000608	6.68E-13	2.519878	39.60604	89	1958 organic aPotri.001up-regula
GO:001701	3.40E-12	24.6664	0.728201	12	36 protein nPotri.001up-regula
GO:001811	3.40E-12	24.6664	0.728201	12	36 peptidyl-Potri.001up-regula
GO:000962	4.51E-12	2.023115	81.70009	144	4039 response Potri.001up-regula
GO:001925	1.41E-11	21.13987	0.809112	12	40 reductivePotri.002up-regula
GO:001968	1.96E-11	20.41025	0.82934	12	41 photosyntPotri.002up-regula
GO:001597	8.79E-11	17.4059	0.930479	12	46 carbon fiPotri.002up-regula
GO:000941	1.57E-10	2.499012	30.80694	70	1523 response Potri.001up-regula
GO:000931	3.63E-10	2.445948	31.41378	70	1553 response Potri.001up-regula
GO:000010	1.31E-08	38.08258	0.323645	7	16 sulfate aPotri.001up-regula
GO:190157	3.06E-08	1.958442	52.00568	93	2571 organic sPotri.001up-regula
GO:000976	4.24E-08	20.64234	0.546151	8	27 photosyntPotri.001up-regula
GO:007170	8.12E-08	1.542624	338.8966	404	16754 organic sPotri.001up-regula

GO:000977	1.06E-07	17.82573	0.606834	8	30 photosyntPotri.001up-regula
GO:001003	1.26E-07	2.084114	36.32913	70	1796 response Potri.001up-regula
GO:000905	6.56E-07	1.522336	166.8794	222	8250 biosynthePotri.001up-regula
GO:000905	1.72E-06	1.753064	59.32814	96	2933 catabolicPotri.001up-regula
GO:003254	2.04E-06	20.94745	0.404556	6	20 plastid tPotri.001up-regula
GO:000609	2.08E-06	11.2	0.869795	8	43 gluconeogPotri.004up-regula
GO:001934	2.08E-06	11.2	0.869795	8	43 cysteine Potri.003up-regula
GO:001941	2.41E-06	97.48254	0.121367	4	6 sulfate rPotri.004up-regula
GO:003009	4.49E-06	12.68675	0.687745	7	34 proteain rPotri.002up-regula
GO:001931	5.82E-06	9.559105	0.991162	8	49 hexose biPotri.004up-regula
GO:000964	6.60E-06	16.29034	0.485467	6	24 response Potri.001up-regula
GO:001020	8.54E-06	15.43245	0.505695	6	25 photosystPotri.002up-regula
GO:011010	1.09E-05	48.7381	0.161822	4	8 ribulose Potri.004up-regula
GO:190157	1.10E-05	1.451686	163.9868	212	8107 organic sPotri.001up-regula
GO:004423	1.16E-05	1.413968	324.9596	378	16065 cellular Potri.001up-regula
GO:190156	3.45E-05	1.415171	170.5204	216	8430 organonitPotri.001up-regula
GO:004222	7.54E-05	1.458397	109.4931	147	5413 response Potri.001up-regula
GO:000610	7.77E-05	9.770382	0.728201	6	36 malate mePotri.001up-regula
GO:000694	0.000103	12.83993	0.485467	5	24 syncytiumPotri.004up-regula
GO:004254	0.000124	8.881297	0.788884	6	39 regulatioPotri.002up-regula
GO:004434	0.000124	8.881297	0.788884	6	39 cell wallPotri.001up-regula
GO:190125	0.000186	11.08795	0.546151	5	27 chloroplaPotri.004up-regula
GO:000909	0.000249	16.2418	0.323645	4	16 homoserinPotri.003up-regula
GO:007012	0.000271	36.49564	0.141595	3	7 mitochondPotri.001up-regula
GO:001043	0.000428	29.19556	0.161822	3	8 regulatioPotri.001up-regula
GO:000678	0.000505	12.99217	0.384328	4	19 protoporPotri.002up-regula
GO:004650	0.000505	12.99217	0.384328	4	19 protoporPotri.002up-regula
GO:000657	0.000571	8.409627	0.687745	5	34 valine mePotri.009up-regula
GO:001020	0.000621	12.17976	0.404556	4	20 photoinhiPotri.002up-regula
GO:004315	0.000621	12.17976	0.404556	4	20 negative Potri.002up-regula
GO:007184	0.000724	1.393298	99.66238	130	4927 cellular Potri.001up-regula
GO:000983	0.000963	7.389314	0.768656	5	38 plant-typPotri.006up-regula
GO:001967	0.001204	18.24544	0.222506	3	11 GDP-mannoPotri.005up-regula
GO:001043	0.001209	97.17722	0.060683	2	3 cellular Potri.002up-regula
GO:190342	0.001209	97.17722	0.060683	2	3 positive Potri.002up-regula
GO:190515	0.001277	9.74254	0.485467	4	24 negative Potri.002up-regula
GO:004254	0.001368	6.772876	0.82934	5	41 cell wallPotri.006up-regula
GO:000654	0.001581	16.21764	0.242734	3	12 glutaminePotri.004up-regula
GO:004423	0.001636	1.270963	311.8723	349	15418 primary mPotri.001up-regula
GO:000654	0.00174	8.856277	0.525923	4	26 glycine mPotri.001up-regula
GO:001946	0.002025	14.5954	0.262961	3	13 glycine dPotri.003up-regula
GO:004856	0.002308	8.117725	0.566378	4	28 photosystPotri.002up-regula
GO:007148	0.002308	8.117725	0.566378	4	28 cellular Potri.002up-regula
GO:004235	0.002386	48.58703	0.080911	2	4 'de novo' Potri.005up-regula
GO:000597	0.002539	13.26812	0.283189	3	14 glycogen Potri.005up-regula
GO:004635	0.002539	13.26812	0.283189	3	14 mannan caPotri.005up-regula
GO:001604	0.002761	1.357322	87.86957	113	4344 cellular Potri.001up-regula
GO:005089	0.002929	1.257458	230.2126	264	11381 response Potri.001up-regula
GO:001614	0.003051	5.539999	0.991162	5	49 S-glycosiPotri.001up-regula
GO:001975	0.003051	5.539999	0.991162	5	49 glycosinoPotri.001up-regula
GO:001976	0.003051	5.539999	0.991162	5	49 glucosinoPotri.001up-regula
GO:004424	0.003102	1.281712	157.5341	188	7788 cellular Potri.001up-regula
GO:000654	0.003126	12.16204	0.303417	3	15 glycine cPotri.003up-regula
GO:001041	0.00379	11.22614	0.323645	3	16 mannan mePotri.005up-regula

GO:000208	0.003923	32.3903	0.101139	2	5 regulatioPotri.008up-regula
GO:190358	0.003923	32.3903	0.101139	2	5 positive Potri.008up-regula
GO:190386	0.003923	32.3903	0.101139	2	5 positive Potri.008up-regula
GO:000678	0.00426	6.717022	0.667517	4	33 heme biosPotri.002up-regula
GO:005127	0.00426	6.717022	0.667517	4	33 beta-glucPotri.001up-regula
GO:000662	0.004522	1.483709	39.92968	57	1974 lipid metPotri.001up-regula
GO:000624	0.004534	10.42393	0.343873	3	17 CTP biosyPotri.001up-regula
GO:000920	0.004534	10.42393	0.343873	3	17 pyrimidinPotri.001up-regula
GO:000920	0.004534	10.42393	0.343873	3	17 pyrimidinPotri.001up-regula
GO:003122	0.004534	10.42393	0.343873	3	17 arabinan Potri.001up-regula
GO:003122	0.004534	10.42393	0.343873	3	17 arabinan Potri.001up-regula
GO:004603	0.004534	10.42393	0.343873	3	17 CTP metabPotri.001up-regula
GO:000037	0.004752	6.49291	0.687745	4	34 Group II Potri.001up-regula
GO:000921	0.004752	6.49291	0.687745	4	34 pyrimidinPotri.001up-regula
GO:000922	0.004752	6.49291	0.687745	4	34 pyrimidinPotri.001up-regula
GO:000914	0.005359	9.728685	0.3641	3	18 pyrimidinPotri.001up-regula
GO:000998	0.005396	1.265215	443.7575	473	21938 cellular Potri.001up-regula
GO:004408	0.005725	1.446605	43.81342	61	2166 cellular Potri.001up-regula
GO:000909	0.005806	24.29193	0.121367	2	6 homoserinPotri.013up-regula
GO:004235	0.005806	24.29193	0.121367	2	6 GDP-L-fucPotri.005up-regula
GO:004636	0.005806	24.29193	0.121367	2	6 GDP-L-fucPotri.005up-regula
GO:004216	0.005848	6.086706	0.728201	4	36 heme metaPotri.002up-regula
GO:000909	0.00627	9.120345	0.384328	3	19 valine biPotri.009up-regula
GO:000963	0.00627	9.120345	0.384328	3	19 response Potri.001up-regula
GO:001019	0.00627	9.120345	0.384328	3	19 nonphotocPotri.001up-regula
GO:199006	0.00627	9.120345	0.384328	3	19 energy quPotri.001up-regula
GO:001026	0.007266	8.583574	0.404556	3	20 somatic ePotri.019up-regula
GO:000622	0.00802	19.43291	0.141595	2	7 UTP biosyPotri.001up-regula
GO:001026	0.00802	19.43291	0.141595	2	7 response Potri.001up-regula
GO:004605	0.00802	19.43291	0.141595	2	7 UTP metabPotri.001up-regula
GO:007081	0.00802	19.43291	0.141595	2	7 hydrogen Potri.008up-regula
GO:003109	0.008352	8.106445	0.424784	3	21 regeneratPotri.019up-regula
GO:000656	0.009289	5.26332	0.82934	4	41 L-serine Potri.005up-regula

