

Expressionswerte der überlappenden Knoten

Probe Set ID	Gene	p-Value	Col (N)	Col (W)	Arr345689 (N)	Arr345689 (W)
258277_at	At3g26830	1,50E-03	4,809498	0	4,49168	0,45205498
263539_at	At2g24850	7,35E-04	4,287345	4,8E-07	3,8706846	0,33055067
252060_at	At3g52430	1,18E-03	3,5989647	-2,4E-07	3,4815311	0,594888
249052_at	At5g44420	2,01E-03	3,3623576	-2,4E-07	3,0472274	-0,9767301
254265_s_at	At4g23140	1,26E-03	2,9514556	-2,4E-07	3,0048323	0,11212039
257623_at	At3g26210	3,23E-03	3,1324282	0	2,9325514	0,27727938
253485_at	At4g31800	4,03E-03	3,0565128	0	2,8288522	0,31779718
254231_at	At4g23810	1,87E-03	3,0524626	0	2,81734	-0,09265304
260904_at	At1g02450	1,40E-03	2,8209548	-2,4E-07	2,737174	0,10011983
247949_at	At5g57220	3,50E-03	3,2871566	0	2,6831188	-0,16887927
251336_at	At3g61190	7,20E-05	2,7839973	0	2,6687155	-0,00089169
259428_at	At1g01560	1,61E-04	2,3764853	0	2,5343776	0,23138785
252373_at	At3g48090	5,22E-05	2,0409932	0	2,4591613	0,6119418
261892_at	At1g80840	1,11E-03	2,769001	0	2,441186	-0,11929774
267436_at	At2g19190	3,10E-03	2,5604038	0	2,43253	0,44759417
259561_at	At1g21250	1,21E-03	2,39889	-4,8E-07	2,3494077	-0,06442022
251847_at	At3g54640	5,23E-04	2,4879408	0	2,290575	0,10969257
261692_at	At1g08450	9,65E-04	2,0041857	0	2,1892538	0,14712429
258941_at	At3g09940	3,80E-03	2,9179788	2,4E-07	2,1672945	-0,00707555
260399_at	At1g72520	8,46E-04	2,6894774	2,4E-07	2,1161327	-0,19066286
248332_at	At5g52640	1,75E-04	2,5859833	-2,4E-07	2,0911574	-0,3051281
249581_at	At5g37600	1,69E-03	1,8019538	0	2,0263324	0,56672764
263807_at	At2g04400	1,12E-03	2,2113953	0	1,9876199	0,00871325
253099_s_at	At4g37520	3,59E-04	2,2949977	2,4E-07	1,962668	0,40176558
267028_at	At2g38470	1,83E-03	2,08914	-4,8E-07	1,8349881	-0,30437756
262504_at	At1g21750	4,18E-03	1,504746	-4,8E-07	1,7872181	0,30145216

254166_at	At4g24190	2,46E-03	1,5648203	-4,8E-07	1,7179666	0,2521863
256183_at	At1g51660	2,56E-03	1,722094	-2,4E-07	1,7066555	0,13652754
252053_at	At3g52400	5,59E-04	1,8362837	-2,4E-07	1,7006726	-0,23308325
256245_at	At3g12580	9,25E-04	2,0930748	0	1,683182	0,07338572
246620_at	At5g36220	2,02E-03	2,2572856	0	1,6749744	-0,13083196
250014_at	At5g17990	1,48E-03	1,6469898	4,8E-07	1,6503048	0,40348625
247338_at	At5g63680	2,48E-03	1,8543711	0	1,6234183	0,38692093
250738_at	At5g05730	7,48E-04	1,98452	0	1,6163402	0,0254612
247493_at	At5g61900	2,81E-05	1,73136	-2,4E-07	1,5936975	-0,00154638
258787_at	At3g11840	7,70E-05	1,8873959	0	1,5855279	-0,318367
249372_at	At5g40760	3,14E-03	1,6256967	-2,4E-07	1,5765891	0,39025617
254211_at	At4g23570	2,93E-03	1,6052799	0	1,5309005	0,11175203
247864_s_at	At1g24807	4,20E-04	1,94978628	4,8E-07	1,5073762	0,07629442
253534_at	At4g31500	2,70E-03	1,497705	4,8E-07	1,5054212	0,06438875
246870_at	At5g26030	3,12E-03	1,5223107	4,8E-07	1,5037694	0,25896215
251200_at	At3g63010	3,32E-03	1,1561458	2,4E-07	1,4942312	0,3459177
258786_at	At3g11820	2,38E-03	1,6217041	-4,8E-07	1,4815354	0,04113531
259749_at	At1g71100	1,56E-03	1,5418122	2,4E-07	1,4459624	0,4851253
253987_at	At4g26270	2,50E-03	1,2117753	0	1,4203525	0,04946137
267142_at	At2g38290	7,38E-04	1,5593634	-4,8E-07	1,4154692	-0,11327124
258439_at	At3g17240	2,05E-03	1,2267084	0	1,4090843	0,34077263
253950_at	At4g26910	1,96E-03	1,3988442	0	1,4025927	-0,03847885
264746_at	At1g62300	1,82E-04	1,4722781	-2,4E-07	1,3942161	0,08762407
253646_at	At4g29810	3,45E-03	1,3748465	0	1,3912039	0,05927658
263134_at	At1g78570	2,00E-03	1,3015265	0	1,3680716	0,3594904
260387_at	At1g74100	3,39E-03	1,4583302	0	1,3151102	0,29172993
266181_at	At2g02390	9,82E-05	1,4155002	4,8E-07	1,2216287	0,05192757
245775_at	At1g30270	2,30E-03	1,0242965	0	1,1914115	0,19282079
264622_at	At2g17790	3,25E-04	1,1735587	-2,4E-07	1,169549	0,41554832
245911_at	At5g19690	3,36E-03	0,9511342	0	1,1465068	0,32756805
254922_at	At4g11370	1,49E-03	1,4706643	-2,4E-07	1,1457915	0,08820319

254847_at	At4g11850	2,06E-04	1,4566605	2,4E-07	1,1367137	-0,06982517
258133_at	At3g24500	8,08E-06	1,2095094	0	1,113395	0,08279014
262932_at	At1g65820	2,86E-05	1,1428351	0	1,0520754	0,0522747
260503_at	At1g47250	3,88E-03	0,95907927	0	1,0483332	0,40050507
266461_at	At2g47730	1,49E-06	1,1111221	0	1,0385547	0,01369524
250339_at	At5g11670	3,57E-03	1,1579409	4,8E-07	1,0370512	-0,02162838
258563_at	At3g05970	5,34E-04	1,1601295	0	1,0184002	0,05878401
248983_at	At5g45130	3,78E-03	1,0241003	4,8E-07	1,0167351	0,21551037
249161_at	At5g42790	3,57E-03	1,0052214	4,8E-07	0,9990072	0,29523468
250916_at	At5g03630	3,25E-04	1,2509131	4,8E-07	0,99639416	0,23910856
262716_at	At1g16470	2,26E-03	0,91914177	0	0,9897127	0,2749853
249638_at	At5g36880	3,74E-03	1,0147586	-4,8E-07	0,97401047	0,1722207
261412_at	At1g07890	8,08E-04	0,8130007	-4,8E-07	0,9735999	0,20243263
255624_at	At4g01370	2,15E-03	1,1035995	0	0,9699273	0,12568188
258588_s_at	At3g04120	1,85E-03	0,90292835	-4,8E-07	0,96241236	0,38902378
252592_at	At3g45640	9,29E-05	0,95456123	0	0,96165276	-0,20506096
245315_at	At4g14800	2,17E-04	0,8541012	4,8E-07	0,95463514	0,15518999
246789_at	At5g27600	3,82E-04	1,1023769	-2,4E-07	0,95450974	-0,31091976
254192_at	At4g23850	3,85E-03	0,955595	0	0,9488845	-0,11008692
265460_at	At2g46600	4,18E-03	0,85437536	0	0,9378047	-0,56927395
247080_at	At5g66140	3,53E-03	0,72628546	0	0,9306736	0,30782747
263105_at	At2g05320	8,19E-04	1,0795267	0	0,9246261	0,20791411
255966_at	At1g22300	3,22E-03	0,7317543	4,8E-07	0,91677666	0,3475175
263472_at	At2g31955	3,05E-03	0,85052824	-4,8E-07	0,91549635	0,06201887
256328_at	At3g02360	7,79E-04	0,87983704	-4,8E-07	0,9140234	0,23296547
253993_at	At4g26070	2,20E-03	1,04741	4,8E-07	0,89578676	-0,20422268
264657_at	At1g09100	7,09E-04	0,9299574	0	0,88891315	0,28737593
259604_at	At1g56450	9,26E-04	0,8470621	0	0,8699007	0,26299047
249796_at	At5g23540	1,14E-03	0,730526	-4,8E-07	0,84466124	0,19318676
267374_at	At2g26230	1,18E-03	0,6095791	-4,8E-07	0,8387666	0,19461107
254690_at	At4g17830	6,22E-05	0,85284233	-4,8E-07	0,83473396	-0,02165222

258555_at	At3g06860	1,96E-03	0,78052664	0	0,83052635	0,2503953
267103_at	At2g41490	4,32E-04	0,9495907	0	0,81709766	0,22135448
253755_at	At4g29040	3,68E-04	0,7425084	-4,8E-07	0,8154001	0,04756451
251121_at	At3g63420	1,10E-03	1,1030273	2,4E-07	0,81531715	0,01424575
251037_at	At5g02100	5,56E-06	1,1464343	0	0,8073058	0,00994825
266555_at	At2g46270	1,11E-04	0,9433317	0	0,8068032	-0,09318113
257713_at	At3g27380	2,69E-03	0,8592839	0	0,7759299	0,2741928
259518_at	At1g20510	4,19E-03	0,9069314	0	0,7357378	-0,04284
255941_at	At1g20350	1,85E-03	0,57131696	0	0,7217989	-0,28532028
263426_at	At2g31570	7,55E-04	0,5611143	-4,8E-07	0,7212248	-0,06005192
264044_at	At2g22480	1,08E-03	0,78944063	-4,8E-07	0,69583225	-0,05864
259764_at	At1g64280	1,12E-03	0,82640123	0	0,6873112	-0,10218239
250655_at	At5g06960	2,93E-03	0,7680118	-2,4E-07	0,68463254	0,10966396
249077_at	At5g43940	1,73E-03	0,46666288	-4,8E-07	0,682508	0,06616545
259512_at	At1g12360	2,66E-03	0,8128538	0	0,6719799	-0,04601955
251456_at	At3g60120	3,56E-03	0,8598671	-2,4E-07	0,6639395	-0,06196189
258072_at	At3g26090	2,50E-04	0,9556322	0	0,66359687	-0,0972259
249374_at	At5g40580	2,34E-04	0,6866102	4,8E-07	0,6381602	0,07168245
262137_at	At1g77920	2,41E-03	0,52878857	-4,8E-07	0,6275368	0,18967438
252602_at	At3g45040	4,10E-03	0,7120724	0	0,6022382	-0,3026209
262344_at	At1g64060	8,69E-04	0,36155438	0	0,5941036	0,20766354
251179_at	At3g63460	3,73E-04	0,5679455	4,8E-07	0,59262896	0,08984327
258759_at	At3g10800	1,14E-03	0,8088746	-4,8E-07	0,5824585	0,12356424
246147_s_at	At5g19990	2,34E-03	0,5647502	0	0,58068514	0,12074709
257252_at	At3g24170	3,79E-03	0,525012	0	0,5787387	0,09145117
259156_at	At3g10380	9,26E-04	0,5859766	0	0,5776124	0,10460997
249453_at	At5g39510	2,55E-03	0,5471473	0	0,5721736	0,02505159
260248_at	At1g74310	2,62E-03	0,5040517	2,4E-07	0,5672703	0,08191133
256682_at	At3g52200	1,53E-03	0,47348928	-4,8E-07	0,5664582	0,04319334
263241_at	At2g16500	3,73E-03	1,04249	0	0,56491137	0,07700348
267342_at	At2g44520	8,26E-04	0,70175457	-2,4E-07	0,5555067	0,1483221

249537_at	At5g38830	3,97E-03	0,5390396	0	0,53611183	0,24229717
248108_at	At5g55130	1,26E-03	0,5505643	0	0,5351248	-0,14410925
260842_at	At1g29150	5,62E-05	0,63517237	0	0,51586866	0,12254763
259019_at	At3g07370	3,26E-03	0,6536145	2,4E-07	0,5023794	-0,03372955
250831_at	At5g04920	2,35E-03	0,5363941	0	0,49866152	-0,18611431
247858_at	At5g58220	2,00E-03	0,5999384	0	0,49433756	-0,20662403
260581_at	At2g47190	7,71E-04	0,63740873	0	0,46984982	-0,154356
251449_at	At3g59920	1,62E-04	0,47255564	0	0,46007776	-0,11695623
249343_at	At5g40650	3,39E-03	0,52264404	0	0,45824242	0,06527472
258524_at	At3g06810	7,20E-05	0,51446486	0	0,45676756	0,17707992
260789_s_at	At1g06290	2,48E-03	0,84853125	0	0,4425335	-0,04366779
256263_at	At3g12290	6,62E-04	0,47672224	0	0,43531704	0,17387724
250334_at	At5g11770	1,83E-03	0,27359295	0	0,42898893	0,05063868
255681_at	At4g00550	1,58E-03	0,48445868	0	0,42022014	-0,20757055
250821_at	At5g05190	2,51E-03	0,46081114	2,4E-07	0,40947342	-0,28367066
255079_s_at	At1g35160	4,00E-05	0,31416893	4,8E-07	0,3534937	-0,06394005
256795_at	At3g22110	2,07E-03	0,19341469	4,8E-07	0,32854557	0,14037466
260966_at	At1g12220	2,15E-03	0,33824062	2,4E-07	0,28015804	-0,138551
261520_at	At1g71820	1,05E-03	0,24695969	0	0,2709713	-0,06222773
254478_at	At4g20330	2,48E-03	0,2892642	0	0,25538063	-0,02289867
264291_at	At1g78800	3,58E-03	0,23292279	0	0,2432096	-0,26585388
267610_at	At2g26650	3,09E-04	0,5196309	-2,4E-07	0,22740674	-0,06369567
265883_at	At2g42310	2,53E-04	0,15280294	4,8E-07	0,22211266	-0,09612989
265373_at	At2g06510	4,28E-03	0,36290264	0	0,11840677	-0,21533728
262519_at	At1g17160	1,79E-04	0,1706481	-4,8E-07	0,07069969	-0,13502693
257751_at	At3g18690	3,09E-04	0,46940947	0	0,05306959	-0,25358963
256461_s_at	At1g36280	3,29E-03	-0,29722548	0	0,01897001	0,72219515
254970_at	At4g10340	1,45E-04	-0,03354073	4,8E-07	-0,05422449	0,05746651
263664_at	At1g04250	4,03E-04	-0,3998475	-4,8E-07	-0,16465855	0,5682955
249083_at	At5g44140	5,53E-04	-0,40034652	0	-0,18183088	-0,0785265
254790_at	At4g12800	3,75E-03	-0,04783344	0	-0,19249153	0,11346388

262963_at	At1g54220	2,74E-03	-0,39883566	2,4E-07	-0,19735622	0,09157562
252223_at	At3g49850	3,63E-03	-0,250957	0	-0,22057605	0,03600597
258599_at	At3g04520	2,58E-04	-0,26349258	0	-0,24160337	0,11399126
262029_at	At1g35680	2,13E-03	-0,33449936	0	-0,2561221	0,19744825
255782_at	At1g19850	2,35E-03	-0,5826106	-2,4E-07	-0,25922847	0,06290054
259092_at	At3g04870	6,37E-04	-0,38932467	-4,8E-07	-0,26333237	0,12394428
255402_at	At4g03205	2,25E-03	-0,51328635	0	-0,27554345	0,15390301
261624_at	At1g02000	3,52E-03	-0,28773284	0	-0,3158617	-0,18896079
252261_at	At3g49500	4,48E-04	-0,20710468	4,8E-07	-0,32070112	-0,11261511
260730_at	At1g48030	2,47E-03	-0,5637622	-4,8E-07	-0,32073545	0,27311277
250105_at	At5g16630	4,37E-04	-0,42749882	-2,4E-07	-0,38740325	-0,23954177
251120_at	At3g63490	2,43E-03	-0,53317976	0	-0,40659142	0,25385952
251969_at	At3g53130	1,99E-03	-0,43594265	0	-0,41872072	0,29105043
247936_at	At5g57030	2,80E-03	-0,34779167	4,8E-07	-0,42540407	0,27811003
251860_at	At3g54660	2,23E-05	-0,45235348	4,8E-07	-0,43461275	0,09038067
247401_at	At5g62790	3,62E-04	-0,64317894	4,8E-07	-0,43561792	0,243474
247201_at	At5g65220	3,53E-03	-0,4877944	0	-0,43802547	0,0752635
262753_at	At1g16340	4,62E-04	-0,4784751	2,4E-07	-0,46093154	0,22661924
258285_at	At3g16140	2,64E-03	-0,30969095	0	-0,4687314	-0,04337072
257190_at	At3g13120	2,68E-04	-0,6193514	0	-0,47171068	0,15956402
258696_at	At3g09650	2,56E-03	-0,45028472	0	-0,4786501	-0,02855396
250125_at	At5g16390	1,55E-03	-0,4818387	-4,8E-07	-0,4806013	0,13409472
253411_at	At4g32980	3,46E-03	-0,9831989	-2,4E-07	-0,4952569	0,5001526
265415_at	At2g20890	2,76E-04	-0,46741772	-4,8E-07	-0,49737787	0,13102722
263906_at	At2g36250	2,40E-05	-0,7824111	4,8E-07	-0,4988799	0,09246063
255709_at	At4g00180	1,22E-03	-0,5747628	4,8E-07	-0,5050905	-0,13079596
267452_at	At2g33860	2,53E-04	-0,7258897	-4,8E-07	-0,50740814	0,03647995
256728_at	At3g25660	3,61E-04	-0,6902995	0	-0,5153413	0,10936356
249785_at	At5g24300	6,69E-05	-0,77817106	-4,8E-07	-0,532424	0,24348688
261078_at	At1g07320	2,68E-03	-0,70131636	-4,8E-07	-0,54464674	0,3011999
255623_at	At4g01310	1,53E-03	-0,63639164	4,8E-07	-0,57397795	0,22914553

246565_at	At5g15530	6,71E-04	-0,6554251	2,4E-07	-0,5804069	0,05263948
261695_at	At1g08520	3,97E-03	-0,5854926	0	-0,5936127	0,01084995
264313_at	At1g70410	3,35E-03	-0,53493834	0	-0,6235595	-0,134305
263053_at	At2g13440	1,94E-03	-0,6078439	-2,4E-07	-0,6286354	-0,06037903
250146_at	At5g14660	4,08E-03	-0,7083936	0	-0,6366968	0,35182762
249866_at	At5g23010	1,37E-03	-1,4571877	4,8E-07	-0,6598015	0,02320814
263174_at	At1g54040	3,49E-03	-0,7362766	0	-0,66492414	0,15176582
252130_at	At3g50820	8,00E-04	-0,6511383	0	-0,6819625	0,10508108
257895_at	At3g16950	1,42E-04	-0,98492956	0	-0,686074	0,11535072
253387_at	At4g33010	9,58E-04	-0,8137498	0	-0,6895232	0,1267004
251762_at	At3g55800	9,88E-05	-0,58919144	-4,8E-07	-0,70407295	0,15772343
245284_at	At4g14210	2,67E-03	-0,68160343	0	-0,7068243	-0,10828781
247034_at	At5g67260	3,85E-03	-0,77406645	0	-0,7169838	0,10928011
252975_s_at	At4g38430	1,42E-04	-0,8628502	-4,8E-07	-0,72603416	-0,08746958
249002_at	At5g44520	4,25E-04	-0,5874672	0	-0,7269249	0,03712559
246194_at	At4g37000	2,24E-03	-0,76121664	4,8E-07	-0,75233746	0,16876459
250041_at	At5g18410	3,41E-03	-0,64845324	0	-0,7736139	-0,23576832
266018_at	At2g18710	2,61E-03	-0,71208	4,8E-07	-0,781291	0,02352905
245291_at	At4g16155	3,40E-03	-0,5151229	4,8E-07	-0,7827015	-0,02068186
254105_at	At4g25080	1,15E-04	-0,79408836	-4,8E-07	-0,7968869	0,08748198
263846_at	At2g36990	2,85E-03	-0,7878885	0	-0,80633545	-0,08702898
245396_at	At4g14870	4,10E-03	-0,67790985	4,8E-07	-0,83656883	-0,11282969
267635_at	At2g42220	9,55E-04	-0,7708235	4,8E-07	-0,8447275	-0,01292896
251218_at	At3g62410	1,14E-03	-0,705482	0	-0,85168743	-0,05199146
247216_at	At5g64860	3,17E-03	-1,0212383	0	-0,8635297	-0,13586044
261422_at	At1g18730	4,33E-04	-0,6328926	0	-0,8667941	0,16316843
262728_at	At1g75820	1,96E-03	-0,82946205	4,8E-07	-0,91203547	-0,34371138
252116_at	At3g51510	7,56E-04	-0,8528061	-4,8E-07	-0,9438925	-0,09975243
260704_at	At1g32470	8,86E-04	-0,8504939	4,8E-07	-0,9566159	0,06563473
254020_at	At4g25700	2,29E-03	-0,65095377	0	-0,9650459	0,08684921
258025_at	At3g19480	4,60E-04	-0,8965523	0	-0,98691535	0,14540386

245806_at	At1g45474	1,31E-04	-0,8140893	0	-0,996325	-0,06901217
259707_at	At1g77490	2,21E-03	-0,79000616	0	-1,0041051	-0,12753487
248402_at	At5g52100	6,67E-04	-1,0054433	0	-1,0249858	0,0970521
252411_at	At3g47430	1,79E-03	-0,9604225	-4,8E-07	-1,0537474	0,12202215
252184_at	At3g50660	4,26E-03	-0,8350091	0	-1,063524	0,15694809
266979_at	At2g39470	1,69E-05	-1,0221782	-4,8E-07	-1,1202116	-0,00233698
261788_at	At1g15980	1,40E-03	-0,9747143	0	-1,1244617	0,0207901
253966_at	At4g26520	7,45E-04	-0,94473934	0	-1,1307161	0,11477876
266329_at	At2g01590	3,75E-03	-1,018784	4,8E-07	-1,1312857	-0,056458
245417_at	At4g17360	8,76E-04	-1,0195687	-2,4E-07	-1,1702492	0,13173366
262175_at	At1g74880	3,53E-03	-0,9700031	-4,8E-07	-1,2433085	0,17401266
247816_at	At5g58260	2,27E-03	-1,0424361	0	-1,2559686	0,08558893
249732_at	At5g24420	2,41E-03	-1,7127855	-4,8E-07	-1,2976978	0,30347633
262878_at	At1g64770	9,26E-04	-1,3055897	0	-1,330092	-0,1792531
254024_at	At4g25780	9,77E-05	-2,0599294	2,4E-07	-2,2502728	0,28915262

N= Hyaloperonospora arabidopsidis isolate Noco2 (Hpa)

W= Water

BiNGO-Analyse

File created with BiNGO (c) on 20.11.2012 at 14:16:47

ontology: namespace

curator: bingo

Selected ontology file : jar:file:C:\Dokumente und Einstellungen\Meik\.cytoscape\2.8\plugins\BiNGO-2.44\BiNGO.jar!/GO_Biological_Process

Selected annotation file : jar:file:C:\Dokumente und Einstellungen\Meik\.cytoscape\2.8\plugins\BiNGO-2.44\BiNGO.jar!/A_thaliana_default

Discarded evidence codes :

Overrepresentation

Selected statistical test : Hypergeometric test

Selected correction : Benjamini & Hochberg False Discovery Rate (FDR) correction

Selected significance level : 0.05

Testing option : Use whole annotation as reference set

The selected cluster :

AT3G53130 AT1G45474 AT3G52400 AT1G48030 AT2G1919 AT1G64280 AT4G23810 AT1G36280 AT2G33860

No annotations were retrieved for the following entities:

AT4G11370 AT1G35680 AT3G26210 AT4G37520 AT2G4660 AT2G41490 AT3G02360 AT3G63460 AT5G36220

GO-ID	p-value	corr p-value x	n	X	N	Description	Genes in test set
9987	1,16E-32	1,14E-29	161	7393	214	22304 cellular process	AT2G26230 AT4G37000 A1
50896	9,89E-30	4,87E-27	105	3207	214	22304 response to stimulus	AT4G37000 AT5G16630 A1
42221	2,51E-28	8,25E-26	77	1710	214	22304 response to chemical st	AT3G24500 AT1G54040 A1
44237	2,25E-23	5,53E-21	126	5407	214	22304 cellular metabolic proc	AT2G26230 AT4G37000 A1
6950	4,75E-22	9,35E-20	72	1853	214	22304 response to stress	AT3G24500 AT4G37000 A1
9607	8,93E-22	1,47E-19	42	550	214	22304 response to biotic stimu	AT3G55800 AT4G37000 A1
8152	1,34E-20	1,89E-18	138	6834	214	22304 metabolic process	AT2G26230 AT4G37000 A1
51707	2,01E-20	2,48E-18	40	528	214	22304 response to other organ	AT3G55800 AT4G37000 A1
51704	8,69E-19	9,51E-17	43	694	214	22304 multi-organism process	AT3G55800 AT4G37000 A1
10033	4,45E-16	4,38E-14	48	1037	214	22304 response to organic sub	AT3G24500 AT1G19850 A1
6952	1,34E-15	1,20E-13	38	637	214	22304 defense response	AT3G55800 AT4G37000 A1
9617	1,19E-13	9,78E-12	24	241	214	22304 response to bacterium	AT5G57220 AT3G55800 A1
9056	1,12E-11	8,45E-10	34	660	214	22304 catabolic process	AT4G37000 AT1G54040 A1
9814	4,33E-11	3,04E-09	16	105	214	22304 defense response, incor	AT4G37000 AT1G74100 A1
2376	5,06E-11	3,32E-09	23	283	214	22304 immune system proces	AT4G37000 AT5G61900 A1
10035	1,41E-10	8,66E-09	27	434	214	22304 response to inorganic s	AT3G49850 AT1G48030 A1
80134	2,18E-10	1,23E-08	14	78	214	22304 regulation of response t	AT3G26830 AT5G61900 A1
6955	2,25E-10	1,23E-08	22	272	214	22304 immune response	AT4G37000 AT5G61900 A1
42742	4,12E-10	2,11E-08	19	193	214	22304 defense response to bac	AT5G57220 AT3G55800 A1

31347	4,29E-10	2,11E-08	13	65	214	22304 regulation of defense re	AT3G26830 AT5G61900 A1
15979	2,60E-09	1,22E-07	15	113	214	22304 photosynthesis	AT5G52100 AT3G55800 A1
51716	6,66E-09	2,98E-07	32	729	214	22304 cellular response to stin	AT3G24500 AT5G16630 A1
45087	7,42E-09	3,17E-07	20	257	214	22304 innate immune respons	AT4G37000 AT5G61900 A1
46483	2,07E-08	8,50E-07	22	340	214	22304 heterocycle metabolic p	AT5G57220 AT1G08520 A1
44281	3,49E-08	1,37E-06	41	1248	214	22304 small molecule metabo	AT2G26230 AT5G27600 A1
71310	6,16E-08	2,33E-06	21	323	214	22304 cellular response to org	AT3G24500 AT3G50660 A1
70887	6,77E-08	2,47E-06	22	361	214	22304 cellular response to che	AT3G24500 AT3G50660 A1
9628	7,89E-08	2,77E-06	39	1168	214	22304 response to abiotic stim	AT3G24500 AT5G27600 A1
6091	9,43E-08	3,20E-06	17	199	214	22304 generation of precursor	AT5G52100 AT4G12800 A1
23033	1,21E-07	3,98E-06	28	623	214	22304 signaling pathway	AT3G24500 AT3G50660 A1
10038	2,80E-07	8,88E-06	21	350	214	22304 response to metal ion	AT2G47190 AT5G38830 A1
46686	2,94E-07	8,98E-06	19	279	214	22304 response to cadmium ic	AT2G47190 AT5G38830 A1
44248	3,01E-07	8,98E-06	25	513	214	22304 cellular catabolic proce	AT4G37000 AT1G54040 A1
48583	3,30E-07	9,54E-06	15	157	214	22304 regulation of response t	AT3G26830 AT5G61900 A1
51186	4,34E-07	1,22E-05	17	219	214	22304 cofactor metabolic proc	AT1G08520 AT3G12290 A1
42435	5,74E-07	1,57E-05	9	37	214	22304 indole derivative biosyn	AT5G57220 AT3G26830 A1
42440	8,26E-07	2,20E-05	12	92	214	22304 pigment metabolic proc	AT1G08520 AT4G37000 A1
44238	1,27E-06	3,30E-05	98	5719	214	22304 primary metabolic proc	AT2G26230 AT1G54040 A1
42430	1,56E-06	3,85E-05	9	41	214	22304 indole and derivative m	AT5G57220 AT3G26830 A1
42434	1,56E-06	3,85E-05	9	41	214	22304 indole derivative metab	AT5G57220 AT3G26830 A1
6807	2,11E-06	5,07E-05	43	1548	214	22304 nitrogen compound me	AT4G20330 AT2G26230 A1
19752	3,11E-06	7,04E-05	26	620	214	22304 carboxylic acid metabo	AT5G27600 AT4G33010 A1
43436	3,11E-06	7,04E-05	26	620	214	22304 oxoacid metabolic proc	AT5G27600 AT4G33010 A1
9266	3,15E-06	7,04E-05	20	359	214	22304 response to temperatur	AT3G24500 AT5G61900 A1
6082	3,22E-06	7,05E-05	26	621	214	22304 organic acid metabolic	AT5G27600 AT4G33010 A1
42180	4,38E-06	9,20E-05	26	630	214	22304 cellular ketone metabol	AT5G27600 AT4G33010 A1
19684	4,39E-06	9,20E-05	10	63	214	22304 photosynthesis, light re	AT5G52100 AT4G12800 A1
9751	6,34E-06	1,30E-04	13	135	214	22304 response to salicylic aci	AT2G47190 AT3G52400 A1
34641	7,10E-06	1,43E-04	41	1484	214	22304 cellular nitrogen compc	AT4G20330 AT2G26230 A1
44262	1,11E-05	2,19E-04	21	428	214	22304 cellular carbohydrate m	AT5G57220 AT1G71100 A1

9058	1,43E-05	2,76E-04	57	2610	214	22304 biosynthetic process	AT4G20330 AT5G65220 A1
18130	1,90E-05	3,59E-04	12	120	214	22304 heterocycle biosynthetic process	AT1G08520 AT4G31500 A1
46148	2,94E-05	5,47E-04	10	76	214	22304 pigment biosynthetic process	AT1G08520 AT3G53130 A1
19748	3,51E-05	6,40E-04	18	330	214	22304 secondary metabolic process	AT5G57220 AT3G53130 A1
2682	4,59E-05	8,06E-04	8	41	214	22304 regulation of immune system	AT3G26830 AT3G18690 A1
50776	4,59E-05	8,06E-04	8	41	214	22304 regulation of immune response	AT3G26830 AT3G18690 A1
44271	4,85E-05	8,38E-04	19	378	214	22304 cellular nitrogen compound	AT1G71100 AT5G52100 A1
71446	5,12E-05	8,54E-04	7	27	214	22304 cellular response to salicylic acid	AT4G01370 AT3G52400 A1
9863	5,12E-05	8,54E-04	7	27	214	22304 salicylic acid mediated response	AT4G01370 AT3G52400 A1
9408	5,21E-05	8,54E-04	12	131	214	22304 response to heat	AT4G29040 AT3G61190 A1
44282	6,45E-05	1,04E-03	13	163	214	22304 small molecule catabolic process	AT4G26270 AT5G44520 A1
6970	7,41E-05	1,18E-03	19	388	214	22304 response to osmotic stress	AT3G09940 AT2G47190 A1
9719	8,96E-05	1,40E-03	28	835	214	22304 response to endogenous signal	AT3G24500 AT1G19850 A1
9651	1,36E-04	2,09E-03	18	360	214	22304 response to salt stress	AT3G09940 AT2G47190 A1
5996	1,60E-04	2,42E-03	11	116	214	22304 monosaccharide metabolic process	AT4G26270 AT5G40760 A1
5975	3,78E-04	5,63E-03	26	782	214	22304 carbohydrate metabolic process	AT3G55800 AT1G54040 A1
44275	5,29E-04	7,77E-03	10	102	214	22304 cellular carbohydrate catabolic process	AT4G26270 AT5G40760 A1
44249	6,07E-04	8,78E-03	51	2444	214	22304 cellular biosynthetic process	AT4G20330 AT5G65220 A1
9611	6,65E-04	9,49E-03	11	133	214	22304 response to wounding	AT1G20510 AT4G01370 A1
6732	9,03E-04	1,27E-02	11	137	214	22304 coenzyme metabolic process	AT5G40760 AT3G12290 A1
16052	1,19E-03	1,65E-02	10	111	214	22304 carbohydrate catabolic process	AT4G26270 AT5G40760 A1
6007	1,37E-03	1,87E-02	8	62	214	22304 glucose catabolic process	AT4G26270 AT5G40760 A1
32787	1,48E-03	1,99E-02	15	290	214	22304 monocarboxylic acid metabolic process	AT3G12290 AT5G27600 A1
9743	1,51E-03	2,00E-02	12	177	214	22304 response to carbohydrate	AT3G11840 AT3G62410 A1
46365	1,55E-03	2,01E-02	8	63	214	22304 monosaccharide catabolic process	AT4G26270 AT5G40760 A1
19320	1,55E-03	2,01E-02	8	63	214	22304 hexose catabolic process	AT4G26270 AT5G40760 A1
51603	1,71E-03	2,18E-02	14	253	214	22304 proteolysis involved in	AT5G66140 AT5G23540 A1
23052	1,79E-03	2,26E-02	29	1023	214	22304 signaling	AT3G24500 AT3G50660 A1
6725	1,92E-03	2,40E-02	15	296	214	22304 cellular aromatic compound	AT2G26230 AT5G57220 A1
6006	1,99E-03	2,45E-02	8	65	214	22304 glucose metabolic process	AT4G26270 AT5G40760 A1
6090	2,16E-03	2,62E-02	5	15	214	22304 pyruvate metabolic process	AT5G62790 AT3G16950 A1

19318	2,31E-03	2,77E-02	9	91	214	22304 hexose metabolic proce	AT4G26270 AT5G40760 A1
44257	2,50E-03	2,96E-02	14	261	214	22304 cellular protein cataboli	AT5G66140 AT5G23540 A1
165	2,82E-03	3,29E-02	4	7	214	22304 MAPKKK cascade	AT1G51660 AT3G45640 A1
46164	2,84E-03	3,29E-02	8	68	214	22304 alcohol catabolic proce	AT4G26270 AT5G40760 A1
16051	3,22E-03	3,68E-02	13	227	214	22304 carbohydrate biosynthe	AT1G71100 AT5G57220 A1
9620	3,38E-03	3,83E-02	11	156	214	22304 response to fungus	AT5G57220 AT3G09940 A1
30163	4,12E-03	4,61E-02	14	272	214	22304 protein catabolic proces	AT5G66140 AT5G23540 A1
43900	4,37E-03	4,83E-02	5	17	214	22304 regulation of multi-org	AT3G09940 AT3G26830 A1
9057	5,85E-03	6,40E-02	15	323	214	22304 macromolecule catabol	AT5G66140 AT5G23540 A1
31348	6,01E-03	6,49E-02	5	18	214	22304 negative regulation of c	AT3G61190 AT3G52400 A1
44265	6,36E-03	6,80E-02	14	282	214	22304 cellular macromolecule	AT5G66140 AT5G23540 A1
10941	7,82E-03	8,27E-02	6	34	214	22304 regulation of cell death	AT4G37000 AT5G61900 A1
6511	9,19E-03	9,42E-02	13	249	214	22304 ubiquitin-dependent pr	AT5G66140 AT5G23540 A1
43632	9,19E-03	9,42E-02	13	249	214	22304 modification-dependen	AT5G66140 AT5G23540 A1
19941	9,19E-03	9,42E-02	13	249	214	22304 modification-dependen	AT5G66140 AT5G23540 A1
22900	1,06E-02	1,06E-01	7	56	214	22304 electron transport chain	AT1G18730 AT1G64770 A1
162	1,07E-02	1,06E-01	5	20	214	22304 tryptophan biosynthetic	AT4G31500 AT3G54640 A1
46219	1,07E-02	1,06E-01	5	20	214	22304 indolalkylamine biosyn	AT4G31500 AT3G54640 A1
71495	1,15E-02	1,13E-01	13	254	214	22304 cellular response to end	AT3G24500 AT3G50660 A1
16117	1,39E-02	1,34E-01	5	21	214	22304 carotenoid biosynthetic	AT3G53130 AT4G25700 A1
16109	1,39E-02	1,34E-01	5	21	214	22304 tetraterpenoid biosynth	AT3G53130 AT4G25700 A1
9725	1,45E-02	1,38E-01	23	767	214	22304 response to hormone sti	AT2G47190 AT3G24500 A1
45088	1,55E-02	1,47E-01	6	38	214	22304 regulation of innate im	AT3G26830 AT3G18690 A1
43648	1,70E-02	1,60E-01	7	60	214	22304 dicarboxylic acid meta	AT5G52100 AT4G31500 A1
9753	1,73E-02	1,60E-01	10	148	214	22304 response to jasmonic ac	AT3G09940 AT4G01370 A1
6568	1,79E-02	1,62E-01	5	22	214	22304 tryptophan metabolic p	AT4G31500 AT3G54640 A1
6586	1,79E-02	1,62E-01	5	22	214	22304 indolalkylamine metab	AT4G31500 AT3G54640 A1
6098	1,79E-02	1,62E-01	5	22	214	22304 pentose-phosphate shur	AT5G40760 AT5G11670 A1
50832	1,96E-02	1,76E-01	9	117	214	22304 defense response to fun	AT5G57220 AT5G58260 A1
6740	2,27E-02	2,01E-01	5	23	214	22304 NADPH regeneration	AT5G40760 AT5G11670 A1
2831	2,58E-02	2,23E-01	4	11	214	22304 regulation of response t	AT3G26830 AT1G80840 A1

23014	2,58E-02	2,23E-01	4	11	214	22304	signal transmission via	AT1G51660 AT3G45640 A1
7243	2,58E-02	2,23E-01	4	11	214	22304	intracellular protein kin	AT1G51660 AT3G45640 A1
6629	3,38E-02	2,90E-01	19	578	214	22304	lipid metabolic process	AT3G53130 AT5G27600 A1
10185	3,46E-02	2,93E-01	3	4	214	22304	regulation of cellular de	AT5G61900 AT3G52400 A1
9862	3,84E-02	3,20E-01	4	12	214	22304	systemic acquired resis	AT4G01370 AT3G48090 A1
16119	3,84E-02	3,20E-01	4	12	214	22304	carotene metabolic proc	AT4G25700 AT5G57030 A1
6066	3,91E-02	3,23E-01	11	200	214	22304	alcohol metabolic proc	AT4G26270 AT5G40760 A1
6739	4,33E-02	3,55E-01	5	26	214	22304	NADP metabolic proce	AT5G40760 AT5G11670 A1
6790	4,85E-02	3,94E-01	10	166	214	22304	sulfur metabolic proces	AT5G57220 AT5G23010 A1
6461	6,03E-02	4,82E-01	9	134	214	22304	protein complex assem	AT4G20330 AT4G29040 A1
70271	6,03E-02	4,82E-01	9	134	214	22304	protein complex bioger	AT4G20330 AT4G29040 A1
16116	6,37E-02	5,02E-01	5	28	214	22304	carotenoid metabolic p	AT3G53130 AT4G25700 A1
16108	6,37E-02	5,02E-01	5	28	214	22304	tetraterpenoid metaboli	AT3G53130 AT4G25700 A1
34637	6,99E-02	5,46E-01	10	173	214	22304	cellular carbohydrate bi	AT5G57220 AT1G71100 A1
43067	7,64E-02	5,88E-01	5	29	214	22304	regulation of programr	AT4G37000 AT3G52400 A1
60548	7,65E-02	5,88E-01	4	14	214	22304	negative regulation of c	AT5G61900 AT3G52400 A1
19438	8,55E-02	6,52E-01	10	177	214	22304	aromatic compound bic	AT3G26830 AT4G31500 A1
44255	9,08E-02	6,88E-01	15	404	214	22304	cellular lipid metabolic	AT3G53130 AT5G27600 A1
9773	1,04E-01	7,78E-01	4	15	214	22304	photosynthetic electron	AT1G18730 AT1G64770 A1
33554	1,23E-01	9,14E-01	14	364	214	22304	cellular response to stre	AT5G57220 AT5G16630 A1
46496	1,27E-01	9,36E-01	5	32	214	22304	nicotinamide nucleotid	AT5G40760 AT5G11670 A1
9306	1,37E-01	1,01E+00	4	16	214	22304	protein secretion	AT2G18710 AT4G14870 A1
9625	1,78E-01	1,30E+00	4	17	214	22304	response to insect	AT5G57220 AT5G44420 A1
6519	1,87E-01	1,36E+00	16	483	214	22304	cellular amino acid and	AT5G52100 AT1G78570 A1
44272	1,92E-01	1,38E+00	7	86	214	22304	sulfur compound biosyn	AT5G57220 AT5G23010 A1
52542	2,27E-01	1,62E+00	4	18	214	22304	defense response by cal	AT5G57220 AT4G31500 A1
19362	2,30E-01	1,63E+00	5	36	214	22304	pyridine nucleotide me	AT5G40760 AT5G11670 A1
6778	2,36E-01	1,66E+00	6	60	214	22304	porphyrin metabolic pr	AT1G08520 AT4G37000 A1
65007	2,54E-01	1,77E+00	54	3243	214	22304	biological regulation	AT3G24500 AT4G37000 A1
42401	2,63E-01	1,83E+00	5	37	214	22304	cellular biogenic amine	AT4G31500 AT3G54640 A1
6979	2,84E-01	1,95E+00	11	247	214	22304	response to oxidative st	AT1G07890 AT3G45640 A1

33013	2,86E-01	1,95E+00	6	62	214	22304	tetrapyrrole metabolic p	AT1G08520 AT4G37000 A1
16120	2,96E-01	2,01E+00	3	7	214	22304	carotene biosynthetic p	AT5G57030 AT4G14210 A1
9073	3,43E-01	2,28E+00	5	39	214	22304	aromatic amino acid fa	AT4G31500 AT3G54640 A1
46417	3,43E-01	2,28E+00	5	39	214	22304	chorismate metabolic p	AT4G31500 AT3G54640 A1
302	3,43E-01	2,28E+00	6	64	214	22304	response to reactive ox	AT1G07890 AT1G74310 A1
52545	3,54E-01	2,34E+00	4	20	214	22304	callose localization	AT5G57220 AT4G31500 A1
6733	3,88E-01	2,55E+00	5	40	214	22304	oxidoreduction coenzym	AT5G40760 AT5G11670 A1
33037	4,34E-01	2,83E+00	4	21	214	22304	polysaccharide localiza	AT5G57220 AT4G31500 A1
42542	4,39E-01	2,84E+00	5	41	214	22304	response to hydrogen p	AT1G07890 AT1G74310 A1
33036	4,66E-01	2,99E+00	16	521	214	22304	macromolecule localiz	AT5G57220 AT3G59920 A1
52317	4,71E-01	2,99E+00	3	8	214	22304	camalexin metabolic pr	AT3G26830 AT3G45640 A1
10120	4,71E-01	2,99E+00	3	8	214	22304	camalexin biosynthetic	AT3G26830 AT3G45640 A1
51188	4,92E-01	3,10E+00	8	135	214	22304	cofactor biosynthetic pr	AT1G08520 AT3G12290 A1
48519	5,11E-01	3,20E+00	13	362	214	22304	negative regulation of t	AT5G61900 AT3G52400 A1
6779	6,21E-01	3,87E+00	5	44	214	22304	porphyrin biosynthetic	AT1G08520 AT5G26030 A1
10200	6,56E-01	4,06E+00	7	104	214	22304	response to chitin	AT3G11840 AT3G45640 A1
8610	6,79E-01	4,08E+00	12	321	214	22304	lipid biosynthetic proce	AT1G20510 AT3G53130 A1
9737	6,81E-01	4,08E+00	11	272	214	22304	response to abscisic aci	AT2G47190 AT4G01370 A1
19757	6,94E-01	4,08E+00	5	45	214	22304	glycosinolate metabolic	AT5G57220 AT5G23010 A1
19760	6,94E-01	4,08E+00	5	45	214	22304	glucosinolate metabolic	AT5G57220 AT5G23010 A1
16143	6,94E-01	4,08E+00	5	45	214	22304	S-glycoside metabolic	AT5G57220 AT5G23010 A1
52315	7,01E-01	4,08E+00	3	9	214	22304	phytoalexin biosynthesi	AT3G26830 AT3G45640 A1
52314	7,01E-01	4,08E+00	3	9	214	22304	phytoalexin metabolic	AT3G26830 AT3G45640 A1
46217	7,01E-01	4,08E+00	3	9	214	22304	indole phytoalexin met	AT3G26830 AT3G45640 A1
42431	7,01E-01	4,08E+00	3	9	214	22304	indole metabolic proces	AT3G26830 AT3G45640 A1
9700	7,01E-01	4,08E+00	3	9	214	22304	indole phytoalexin bios	AT3G26830 AT3G45640 A1
15031	7,64E-01	4,40E+00	12	325	214	22304	protein transport	AT3G59920 AT2G18710 A1
45184	7,64E-01	4,40E+00	12	325	214	22304	establishment of protei	AT3G59920 AT2G18710 A1
6575	8,33E-01	4,76E+00	10	231	214	22304	cellular amino acid deri	AT1G20510 AT3G54660 A1
9072	8,58E-01	4,88E+00	5	47	214	22304	aromatic amino acid fa	AT4G31500 AT3G54640 A1
9767	8,90E-01	5,00E+00	4	25	214	22304	photosynthetic electron	AT1G18730 AT1G64770 A1

19321	8,90E-01	5,00E+00	4	25	214	22304 pentose metabolic proc	AT5G40760 AT1G17160 A7
50691	9,16E-01	5,09E+00	2	2	214	22304 regulation of defense re	AT1G80840 AT4G31800
51245	9,16E-01	5,09E+00	2	2	214	22304 negative regulation of c	AT3G52400 AT3G11820
33014	9,50E-01	5,25E+00	5	48	214	22304 tetrapyrrole biosynthesi	AT1G08520 AT5G26030 A7
48523	9,95E-01	5,47E+00	9	191	214	22304 negative regulation of c	AT4G29040 AT5G61900 A7
6576	1,16E+00	6,33E+00	5	50	214	22304 cellular biogenic amine	AT4G31500 AT3G54640 A7
8104	1,17E+00	6,36E+00	12	340	214	22304 protein localization	AT3G59920 AT2G18710 A7
9415	1,21E+00	6,54E+00	9	196	214	22304 response to water	AT3G09940 AT2G47190 A7
9816	1,22E+00	6,54E+00	4	27	214	22304 defense response to bac	AT1G12220 AT4G11850 A7
9861	1,36E+00	7,26E+00	3	11	214	22304 jasmonic acid and ethyl	AT4G01370 AT1G74100 A7
43623	1,39E+00	7,38E+00	6	82	214	22304 cellular protein comple	AT4G29040 AT5G58260 A7
65003	1,46E+00	7,75E+00	9	201	214	22304 macromolecular compl	AT4G20330 AT4G29040 A7
6520	1,62E+00	8,50E+00	11	300	214	22304 cellular amino acid met	AT3G19480 AT5G52100 A7
43069	1,80E+00	9,41E+00	3	12	214	22304 negative regulation of p	AT3G52400 AT1G64060 A7
19758	1,86E+00	9,57E+00	4	30	214	22304 glycosinolate biosynthe	AT5G57220 AT5G23010 A7
19761	1,86E+00	9,57E+00	4	30	214	22304 glucosinolate biosynthe	AT5G57220 AT5G23010 A7
16144	1,86E+00	9,57E+00	4	30	214	22304 S-glycoside biosynthesi	AT5G57220 AT5G23010 A7
16137	1,92E+00	9,86E+00	6	87	214	22304 glycoside metabolic pro	AT5G57220 AT5G23010 A7
22607	2,05E+00	1,05E+01	10	258	214	22304 cellular component ass	AT4G20330 AT2G06510 A7
9627	2,12E+00	1,07E+01	4	31	214	22304 systemic acquired resis	AT4G01370 AT3G48090 A7
9308	2,31E+00	1,17E+01	12	366	214	22304 amine metabolic proces	AT3G19480 AT5G52100 A7
9626	2,40E+00	1,20E+01	4	32	214	22304 plant-type hypersensitiv	AT5G61900 AT1G12220 A7
43933	2,51E+00	1,25E+01	9	216	214	22304 macromolecular compl	AT4G20330 AT4G29040 A7
34050	2,71E+00	1,32E+01	4	33	214	22304 host programmed cell d	AT5G61900 AT1G12220 A7
32260	2,73E+00	1,32E+01	2	3	214	22304 response to jasmonic ac	AT4G01370 AT1G74100
2697	2,73E+00	1,32E+01	2	3	214	22304 regulation of immune e	AT1G80840 AT4G31800
10258	2,73E+00	1,32E+01	2	3	214	22304 NADH dehydrogenase	AT5G58260 AT1G74880
10257	2,73E+00	1,32E+01	2	3	214	22304 NADH dehydrogenase	AT5G58260 AT1G74880
10618	2,73E+00	1,32E+01	2	3	214	22304 aerenchyma formation	AT3G48090 AT3G52430
50688	2,73E+00	1,32E+01	2	3	214	22304 regulation of defense re	AT1G80840 AT4G31800
16138	2,76E+00	1,32E+01	5	60	214	22304 glycoside biosynthetic	AT5G57220 AT5G23010 A7

50789	2,82E+00	1,34E+01	45	2783	214	22304 regulation of biological AT3G24500 AT4G37000 A7
32502	2,92E+00	1,39E+01	33	1820	214	22304 developmental process AT1G54040 AT1G19850 A7
9755	3,27E+00	1,55E+01	9	224	214	22304 hormone-mediated sign AT3G63010 AT3G24500 A7
44106	3,38E+00	1,59E+01	11	327	214	22304 cellular amine metaboli AT3G19480 AT5G52100 A7
55114	3,48E+00	1,63E+01	7	136	214	22304 oxidation reduction AT1G18730 AT1G64770 A7
32870	3,61E+00	1,68E+01	9	227	214	22304 cellular response to hor AT3G63010 AT3G24500 A7
80135	3,64E+00	1,69E+01	3	15	214	22304 regulation of cellular re AT3G45640 AT3G52400 A7
55086	3,87E+00	1,79E+01	8	182	214	22304 nucleobase, nucleoside AT1G71100 AT2G26230 A7
48856	3,93E+00	1,81E+01	27	1392	214	22304 anatomical structure de AT1G54040 AT1G19850 A7
65008	4,17E+00	1,91E+01	15	569	214	22304 regulation of biological AT3G10380 AT3G50660 A7
42214	4,25E+00	1,93E+01	4	37	214	22304 terpene metabolic proc AT4G25700 AT5G57030 A7
48585	4,31E+00	1,95E+01	5	66	214	22304 negative regulation of r AT3G61190 AT3G52400 A7
52544	4,45E+00	2,00E+01	3	16	214	22304 defense response by cal AT5G57220 AT4G31500 A7
52482	4,45E+00	2,00E+01	3	16	214	22304 defense response by cel AT5G57220 AT4G31500 A7
8652	4,52E+00	2,02E+01	7	142	214	22304 cellular amino acid bio AT3G19480 AT5G52100 A7
9414	4,80E+00	2,14E+01	8	188	214	22304 response to water depri AT3G09940 AT2G47190 A7
8299	5,05E+00	2,24E+01	6	104	214	22304 isoprenoid biosynthetic AT3G53130 AT5G62790 A7
9867	5,21E+00	2,29E+01	4	39	214	22304 jasmonic acid mediated AT4G01370 AT3G50660 A7
71395	5,21E+00	2,29E+01	4	39	214	22304 cellular response to jas AT4G01370 AT3G50660 A7
2679	5,43E+00	2,36E+01	2	4	214	22304 respiratory burst involv AT3G11840 AT1G64060
9759	5,43E+00	2,36E+01	2	4	214	22304 indole glucosinolate bic AT5G57220 AT4G31500
16054	5,66E+00	2,43E+01	5	70	214	22304 organic acid catabolic p AT1G32470 AT1G06290 A7
16114	5,66E+00	2,43E+01	5	70	214	22304 terpenoid biosynthetic p AT3G53130 AT4G25700 A7
46395	5,66E+00	2,43E+01	5	70	214	22304 carboxylic acid cataboli AT1G32470 AT1G06290 A7
52543	6,39E+00	2,73E+01	3	18	214	22304 callose deposition in ce AT5G57220 AT4G31500 A7
51641	7,10E+00	3,02E+01	12	415	214	22304 cellular localization AT5G57220 AT2G18710 A7
16043	7,12E+00	3,02E+01	20	935	214	22304 cellular component org AT4G20330 AT3G10380 A7
52386	7,53E+00	3,17E+01	3	19	214	22304 cell wall thickening AT5G57220 AT4G31500 A7
1666	7,53E+00	3,17E+01	3	19	214	22304 response to hypoxia AT3G48090 AT4G26520 A7
48569	7,69E+00	3,22E+01	8	202	214	22304 post-embryonic organ c AT3G63010 AT4G29040 A7
16053	8,03E+00	3,33E+01	10	307	214	22304 organic acid biosynthet AT3G19480 AT5G52100 A7

46394	8,03E+00	3,33E+01	10	307	214	22304	carboxylic acid biosynt	AT3G19480 AT5G52100 A7
9309	8,84E+00	3,65E+01	7	159	214	22304	amine biosynthetic proc	AT3G19480 AT5G52100 A7
45730	8,99E+00	3,65E+01	2	5	214	22304	respiratory burst	AT3G11840 AT1G64060
1676	8,99E+00	3,65E+01	2	5	214	22304	long-chain fatty acid m	AT5G27600 AT3G05970
19253	8,99E+00	3,65E+01	2	5	214	22304	reductive pentose-phos	AT3G55800 AT3G62410
32940	9,02E+00	3,65E+01	4	45	214	22304	secretion by cell	AT2G18710 AT4G14870 A7
46903	9,02E+00	3,65E+01	4	45	214	22304	secretion	AT2G18710 AT4G14870 A7
6508	9,09E+00	3,67E+01	15	614	214	22304	proteolysis	AT5G66140 AT5G23540 A7
70482	1,02E+01	4,06E+01	3	21	214	22304	response to oxygen lev	AT3G48090 AT4G26520 A7
42773	1,02E+01	4,06E+01	3	21	214	22304	ATP synthesis coupled	AT3G27380 AT5G11770 A7
42775	1,02E+01	4,06E+01	3	21	214	22304	mitochondrial ATP syn	AT3G27380 AT5G11770 A7
32501	1,18E+01	4,67E+01	30	1732	214	22304	multicellular organism	AT1G54040 AT1G19850 A7
7275	1,20E+01	4,73E+01	29	1655	214	22304	multicellular organism	AT1G54040 AT1G19850 A7
48518	1,26E+01	4,94E+01	8	218	214	22304	positive regulation of b	AT3G63010 AT3G24500 A7
10817	1,27E+01	4,98E+01	6	124	214	22304	regulation of hormone l	AT2G33860 AT4G31500 A7
9723	1,32E+01	5,09E+01	6	125	214	22304	response to ethylene sti	AT2G47190 AT3G24500 A7
2252	1,34E+01	5,09E+01	3	23	214	22304	immune effector proces	AT3G11840 AT1G64060 A7
6612	1,34E+01	5,09E+01	3	23	214	22304	protein targeting to mer	AT3G52400 AT3G11820 A7
19685	1,34E+01	5,09E+01	2	6	214	22304	photosynthesis, dark re	AT3G55800 AT3G62410
9051	1,34E+01	5,09E+01	2	6	214	22304	pentose-phosphate shur	AT5G40760 AT5G11670
10386	1,34E+01	5,09E+01	2	6	214	22304	lateral root primordium	AT4G29040 AT5G05730
10363	1,34E+01	5,09E+01	2	6	214	22304	regulation of plant-type	AT3G52400 AT3G11820
16123	1,34E+01	5,09E+01	2	6	214	22304	xanthophyll biosynthesi	AT4G25700 AT5G57030
6631	1,35E+01	5,11E+01	7	171	214	22304	fatty acid metabolic prc	AT1G20510 AT5G27600 A7
6720	1,38E+01	5,20E+01	6	126	214	22304	isoprenoid metabolic p	AT3G53130 AT5G62790 A7
35556	1,59E+01	5,99E+01	5	88	214	22304	intracellular signal tran	AT1G51660 AT3G45640 A7
48513	1,63E+01	6,09E+01	16	719	214	22304	organ development	AT1G54040 AT1G19850 A7
48731	1,65E+01	6,15E+01	16	720	214	22304	system development	AT1G54040 AT1G19850 A7
9741	1,67E+01	6,20E+01	4	53	214	22304	response to brassinoste	AT3G50660 AT5G58220 A7
46246	1,71E+01	6,34E+01	3	25	214	22304	terpene biosynthetic pr	AT5G57030 AT4G14210 A7
6721	1,85E+01	6,74E+01	5	91	214	22304	terpenoid metabolic prc	AT3G53130 AT4G25700 A7

10310	1,86E+01	6,74E+01	2	7	214	22304 regulation of hydrogen AT3G48090 AT3G52430
10158	1,86E+01	6,74E+01	2	7	214	22304 abaxial cell fate specific AT2G33860 AT4G00180
10112	1,86E+01	6,74E+01	2	7	214	22304 regulation of systemic AT3G26830 AT1G02450
42343	1,86E+01	6,74E+01	2	7	214	22304 indole glucosinolate me AT5G57220 AT4G31500
6121	1,86E+01	6,74E+01	2	7	214	22304 mitochondrial electron AT3G27380 AT5G40650
22904	1,92E+01	6,94E+01	3	26	214	22304 respiratory electron trar AT3G27380 AT5G11770 A7
45941	2,05E+01	7,36E+01	4	56	214	22304 positive regulation of tr AT3G24500 AT2G36990 A7
48584	2,19E+01	7,83E+01	4	57	214	22304 positive regulation of r AT3G63010 AT3G18690 A7
30154	2,32E+01	8,28E+01	9	296	214	22304 cell differentiation AT2G33860 AT4G29040 A7
9409	2,35E+01	8,36E+01	8	241	214	22304 response to cold AT4G01370 AT3G61190 A7
6546	2,47E+01	8,63E+01	2	8	214	22304 glycine catabolic proces AT1G32470 AT4G33010
9071	2,47E+01	8,63E+01	2	8	214	22304 serine family amino aci AT1G32470 AT4G33010
6783	2,47E+01	8,63E+01	2	8	214	22304 heme biosynthetic proc AT5G26030 AT2G44520
10628	2,48E+01	8,63E+01	4	59	214	22304 positive regulation of g AT3G24500 AT2G36990 A7
45333	2,48E+01	8,63E+01	4	59	214	22304 cellular respiration AT4G26910 AT3G27380 A7
15980	2,48E+01	8,63E+01	4	59	214	22304 energy derivation by ox AT4G26910 AT3G27380 A7
9117	2,80E+01	9,65E+01	6	145	214	22304 nucleotide metabolic pr AT5G40760 AT5G11670 A7
6753	2,80E+01	9,65E+01	6	145	214	22304 nucleoside phosphate n AT5G40760 AT5G11670 A7
10557	2,80E+01	9,65E+01	4	61	214	22304 positive regulation of n AT3G24500 AT2G36990 A7
44283	2,84E+01	9,74E+01	14	622	214	22304 small molecule biosynt AT5G52100 AT1G71100 A7
10043	2,92E+01	9,98E+01	3	30	214	22304 response to zinc ion AT1G21750 AT5G03630 A7
22414	3,10E+01	1,05E+02	18	911	214	22304 reproductive process AT3G10380 AT1G19850 A7
45935	3,15E+01	1,05E+02	4	63	214	22304 positive regulation of n AT3G24500 AT2G36990 A7
2213	3,16E+01	1,05E+02	2	9	214	22304 defense response to ins AT5G57220 AT3G52430
71704	3,16E+01	1,05E+02	2	9	214	22304 organic substance meta AT3G55800 AT3G62410
46685	3,16E+01	1,05E+02	2	9	214	22304 response to arsenic AT5G52640 AT5G42790
42743	3,16E+01	1,05E+02	2	9	214	22304 hydrogen peroxide met AT1G07890 AT1G64060
15977	3,16E+01	1,05E+02	2	9	214	22304 carbon fixation AT3G55800 AT3G62410
34622	3,20E+01	1,06E+02	6	149	214	22304 cellular macromolecula AT4G29040 AT5G58260 A7
31349	3,21E+01	1,06E+02	3	31	214	22304 positive regulation of d AT3G18690 AT5G61900 A7
51173	3,34E+01	1,10E+02	4	64	214	22304 positive regulation of n AT3G24500 AT2G36990 A7

70727	3,57E+01	1,17E+02	8	258	214	22304 cellular macromolecule AT5G57220 AT4G31500 A1
9891	3,73E+01	1,22E+02	4	66	214	22304 positive regulation of b AT3G24500 AT2G36990 A1
31328	3,73E+01	1,22E+02	4	66	214	22304 positive regulation of c AT3G24500 AT2G36990 A1
9063	3,84E+01	1,23E+02	3	33	214	22304 cellular amino acid cat AT1G32470 AT3G04520 A1
43401	3,84E+01	1,23E+02	3	33	214	22304 steroid hormone media AT5G58220 AT1G35160 A1
9742	3,84E+01	1,23E+02	3	33	214	22304 brassinosteroid mediate AT5G58220 AT1G35160 A1
71383	3,84E+01	1,23E+02	3	33	214	22304 cellular response to ster AT5G58220 AT1G35160 A1
71367	3,84E+01	1,23E+02	3	33	214	22304 cellular response to bra AT5G58220 AT1G35160 A1
48545	3,84E+01	1,23E+02	3	33	214	22304 response to steroid hor AT5G58220 AT1G35160 A1
3	3,88E+01	1,24E+02	18	931	214	22304 reproduction AT3G10380 AT1G19850 A1
10207	3,92E+01	1,25E+02	2	10	214	22304 photosystem II assembl AT3G50820 AT2G20890
9069	4,19E+01	1,33E+02	3	34	214	22304 serine family amino aci AT3G19480 AT1G32470 A1
10604	4,38E+01	1,39E+02	4	69	214	22304 positive regulation of r AT3G24500 AT2G36990 A1
9310	4,55E+01	1,43E+02	3	35	214	22304 amine catabolic proces AT1G32470 AT3G04520 A1
9312	4,55E+01	1,43E+02	3	35	214	22304 oligosaccharide biosynt AT3G63010 AT3G55800 A1
6749	4,76E+01	1,48E+02	2	11	214	22304 glutathione metabolic p AT3G54660 AT3G24170
51789	4,76E+01	1,48E+02	2	11	214	22304 response to protein stir AT4G29040 AT3G10800
42168	4,76E+01	1,48E+02	2	11	214	22304 heme metabolic proces AT5G26030 AT2G44520
34621	4,97E+01	1,54E+02	6	163	214	22304 cellular macromolecula AT4G29040 AT5G58260 A1
9791	5,24E+01	1,62E+02	17	884	214	22304 post-embryonic develo AT1G19850 AT3G49500 A1
9850	5,32E+01	1,64E+02	3	37	214	22304 auxin metabolic proces AT2G33860 AT4G31500 A1
5982	5,32E+01	1,64E+02	3	37	214	22304 starch metabolic proces AT3G55800 AT5G24300 A1
42445	5,35E+01	1,64E+02	4	73	214	22304 hormone metabolic pro AT2G33860 AT4G31500 A1
16122	5,68E+01	1,73E+02	2	12	214	22304 xanthophyll metabolic j AT4G25700 AT5G57030
50794	6,14E+01	1,87E+02	36	2448	214	22304 regulation of cellular pr AT3G24500 AT4G37000 A1
15994	6,17E+01	1,87E+02	3	39	214	22304 chlorophyll metabolic f AT1G08520 AT4G37000 A1
42398	6,24E+01	1,89E+02	6	171	214	22304 cellular amino acid deri AT4G31500 AT1G78570 A1
3006	6,46E+01	1,95E+02	16	829	214	22304 reproductive developm AT3G10380 AT1G19850 A1
6096	6,63E+01	1,99E+02	3	40	214	22304 glycolysis AT4G26270 AT2G22480 A1
42446	6,63E+01	1,99E+02	3	40	214	22304 hormone biosynthetic p AT4G31500 AT3G50660 A1
34976	6,67E+01	1,99E+02	2	13	214	22304 response to endoplasmic AT1G21750 AT3G10800

31325	6,76E+01	2,02E+02	4	78	214	22304 positive regulation of c	AT3G24500 AT2G36990 A7
10149	7,10E+01	2,11E+02	3	41	214	22304 senescence	AT1G54040 AT3G52430 A7
9893	7,71E+01	2,29E+02	4	81	214	22304 positive regulation of n	AT3G24500 AT2G36990 A7
9615	8,11E+01	2,39E+02	3	43	214	22304 response to virus	AT1G21250 AT3G49500 A7
9644	8,11E+01	2,39E+02	3	43	214	22304 response to high light i	AT1G74310 AT3G50820 A7
23034	8,38E+01	2,46E+02	6	182	214	22304 intracellular signaling p	AT1G51660 AT3G45640 A7
48468	8,59E+01	2,52E+02	6	183	214	22304 cell development	AT4G29040 AT1G71820 A7
6544	8,86E+01	2,57E+02	2	15	214	22304 glycine metabolic proc	AT1G32470 AT4G33010
19252	8,86E+01	2,57E+02	2	15	214	22304 starch biosynthetic proc	AT3G55800 AT5G24300
19319	8,86E+01	2,57E+02	2	15	214	22304 hexose biosynthetic prc	AT1G78570 AT3G04120
48869	9,58E+01	2,60E+02	10	435	214	22304 cellular developmental	AT2G33860 AT4G29040 A7
35266	9,59E+01	2,60E+02	1	1	214	22304 meristem growth	AT4G29040
2098	9,59E+01	2,60E+02	1	1	214	22304 tRNA wobble uridine n	AT2G13440
169	9,59E+01	2,60E+02	1	1	214	22304 activation of MAPK ac	AT3G45640
161	9,59E+01	2,60E+02	1	1	214	22304 MAPKKK cascade inv	AT3G45640
187	9,59E+01	2,60E+02	1	1	214	22304 activation of MAPK ac	AT3G45640
45944	9,59E+01	2,60E+02	1	1	214	22304 positive regulation of tr	AT3G10800
9052	9,59E+01	2,60E+02	1	1	214	22304 pentose-phosphate shur	AT5G44520
18149	9,59E+01	2,60E+02	1	1	214	22304 peptide cross-linking	AT3G62410
43406	9,59E+01	2,60E+02	1	1	214	22304 positive regulation of M	AT3G45640
7141	9,59E+01	2,60E+02	1	1	214	22304 male meiosis I	AT2G06510
43335	9,59E+01	2,60E+02	1	1	214	22304 protein unfolding	AT1G74310
6990	9,59E+01	2,60E+02	1	1	214	22304 positive regulation of g	AT3G10800
18316	9,59E+01	2,60E+02	1	1	214	22304 peptide cross-linking vi	AT3G62410
18198	9,59E+01	2,60E+02	1	1	214	22304 peptidyl-cysteine modif	AT3G62410
51262	9,59E+01	2,60E+02	1	1	214	22304 protein tetramerization	AT5G58220
51289	9,59E+01	2,60E+02	1	1	214	22304 protein homotetrameriz	AT5G58220
7231	9,59E+01	2,60E+02	1	1	214	22304 osmosensory signaling	AT3G45640
7172	9,59E+01	2,60E+02	1	1	214	22304 signal complex assemb	AT1G75820
46132	9,59E+01	2,60E+02	1	1	214	22304 pyrimidine ribonucleos	AT1G71100
46134	9,59E+01	2,60E+02	1	1	214	22304 pyrimidine nucleoside l	AT1G71100

46109	9,59E+01	2,60E+02	1	1	214	22304 uridine biosynthetic prc AT1G71100
46292	9,59E+01	2,60E+02	1	1	214	22304 formaldehyde metabol AT5G43940
19428	9,59E+01	2,60E+02	1	1	214	22304 allantoin biosynthetic p AT5G58220
80010	1,01E+02	2,71E+02	2	16	214	22304 regulation of oxygen an AT3G48090 AT3G52430
10498	1,01E+02	2,71E+02	2	16	214	22304 proteasomal protein cat AT4G29040 AT1G09100
46364	1,01E+02	2,71E+02	2	16	214	22304 monosaccharide biosyn AT1G78570 AT3G04120
6139	1,02E+02	2,73E+02	19	1104	214	22304 nucleobase, nucleoside, AT1G71100 AT4G20330 A7
48522	1,04E+02	2,79E+02	5	137	214	22304 positive regulation of c AT3G63010 AT3G24500 A7
48588	1,07E+02	2,84E+02	4	89	214	22304 developmental cell gro AT1G71820 AT3G10380 A7
44264	1,08E+02	2,86E+02	5	138	214	22304 cellular polysaccharide AT1G71100 AT3G55800 A7
10227	1,13E+02	3,01E+02	2	17	214	22304 floral organ abscission AT1G51660 AT4G32980
51649	1,16E+02	3,07E+02	9	381	214	22304 establishment of localiz AT2G18710 AT3G52400 A7
33692	1,19E+02	3,15E+02	4	92	214	22304 cellular polysaccharide AT1G71100 AT3G55800 A7
48437	1,24E+02	3,26E+02	5	143	214	22304 floral organ developme AT3G63010 AT1G51660 A7
44085	1,26E+02	3,31E+02	10	454	214	22304 cellular component bio AT4G20330 AT2G06510 A7
9934	1,27E+02	3,32E+02	2	18	214	22304 regulation of meristem AT4G24190 AT1G75820
48507	1,33E+02	3,47E+02	4	95	214	22304 meristem development AT4G29040 AT1G19850 A7
48589	1,38E+02	3,60E+02	6	203	214	22304 developmental growth AT4G29040 AT1G71820 A7
9838	1,41E+02	3,65E+02	2	19	214	22304 abscission AT1G51660 AT4G32980
271	1,48E+02	3,82E+02	4	98	214	22304 polysaccharide biosynt AT1G71100 AT3G55800 A7
6119	1,51E+02	3,90E+02	3	54	214	22304 oxidative phosphorylati AT3G27380 AT5G11770 A7
6081	1,55E+02	4,00E+02	2	20	214	22304 cellular aldehyde meta AT5G62790 AT5G43940
8219	1,57E+02	4,03E+02	6	209	214	22304 cell death AT5G61900 AT1G12220 A7
16265	1,57E+02	4,03E+02	6	209	214	22304 death AT5G61900 AT1G12220 A7
9311	1,58E+02	4,05E+02	3	55	214	22304 oligosaccharide metabo AT3G63010 AT3G55800 A7
10073	1,66E+02	4,23E+02	3	56	214	22304 meristem maintenance AT4G29040 AT4G24190 A7
48527	1,66E+02	4,23E+02	3	56	214	22304 lateral root developmen AT4G29040 AT5G05730 A7
9765	1,71E+02	4,32E+02	2	21	214	22304 photosynthesis, light ha AT1G45474 AT5G57030
9851	1,71E+02	4,32E+02	2	21	214	22304 auxin biosynthetic proc AT4G31500 AT5G05730
5976	1,75E+02	4,41E+02	5	156	214	22304 polysaccharide metabol AT1G71100 AT3G55800 A7
9749	1,87E+02	4,58E+02	2	22	214	22304 response to glucose stir AT3G26090 AT1G09100

1708	1,87E+02	4,58E+02	2	22	214	22304 cell fate specification AT2G33860 AT4G00180
6567	1,91E+02	4,58E+02	1	2	214	22304 threonine catabolic pro AT3G04520
35304	1,91E+02	4,58E+02	1	2	214	22304 regulation of protein an AT3G50820
43903	1,91E+02	4,58E+02	1	2	214	22304 regulation of symbiosis AT3G09940
2097	1,91E+02	4,58E+02	1	2	214	22304 tRNA wobble base mo AT2G13440
80136	1,91E+02	4,58E+02	1	2	214	22304 priming of cellular resp AT3G45640
10371	1,91E+02	4,58E+02	1	2	214	22304 regulation of gibberelli AT4G32980
10315	1,91E+02	4,58E+02	1	2	214	22304 auxin efflux AT1G78570
6971	1,91E+02	4,58E+02	1	2	214	22304 hypotonic response AT4G01370
10541	1,91E+02	4,58E+02	1	2	214	22304 acropetal auxin transpo AT3G63420
9868	1,91E+02	4,58E+02	1	2	214	22304 jasmonic acid and ethyl AT4G01370
42539	1,91E+02	4,58E+02	1	2	214	22304 hypotonic salinity resp AT4G01370
10186	1,91E+02	4,58E+02	1	2	214	22304 positive regulation of c AT5G61900
46108	1,91E+02	4,58E+02	1	2	214	22304 uridine metabolic proce AT1G71100
9270	1,91E+02	4,58E+02	1	2	214	22304 response to humidity AT5G61900
1560	1,91E+02	4,58E+02	1	2	214	22304 regulation of cell growt AT5G58220
6083	1,91E+02	4,58E+02	1	2	214	22304 acetate metabolic proce AT5G36880
6086	1,91E+02	4,58E+02	1	2	214	22304 acetyl-CoA biosynthesi AT3G16950
51791	1,91E+02	4,58E+02	1	2	214	22304 medium-chain fatty aci AT1G06290
6518	2,03E+02	4,84E+02	2	23	214	22304 peptide metabolic proce AT3G54660 AT3G24170
9746	2,03E+02	4,84E+02	2	23	214	22304 response to hexose stir AT3G26090 AT1G09100
34284	2,03E+02	4,84E+02	2	23	214	22304 response to monosacch AT3G26090 AT1G09100
6073	2,04E+02	4,84E+02	4	108	214	22304 cellular glucan metabol AT1G71100 AT3G55800 AT

signifikant regulierte Gene *Hpa* NoCo2

Gene	[Col, Noco](n [Col, wAter][arr345689, No AT3G54660, wAter](normalized)
At1g01010	0.85521555 0.00000000 0.80082130 -0.16989780

At1g01225	-0.26118088	-0.00000024	-0.34199238	0.14129782
At1g01340	2.18104740	-0.00000024	1.67296390	-0.30774070
At1g01560	2.37648530	0.00000000	2.53437760	0.23138785
At1g01800	0.40875626	-0.00000048	0.43995857	0.08397818
At1g01860	-0.69661117	0.00000024	-0.42923070	-0.02835441
At1g02000	-0.28773284	0.00000000	-0.31586170	-0.18896079
At1g02170	1.13947820	0.00000000	0.90529010	-0.06098843
At1g02270	0.60719633	-0.00000048	0.69164990	0.00085306
At1g02360	2.55904480	0.00000000	2.38492870	-0.06808567
At1g02450	2.82095480	-0.00000024	2.73717400	0.10011983
At1g03210	0.90639780	-0.00000048	0.92998743	-0.10366297
At1g03290	1.71733710	0.00000024	1.56455420	0.12723780
At1g03470	-0.45647573	-0.00000024	-0.33193707	0.06080222
At1g03600	-0.65869856	-0.00000048	-0.64146040	0.11020565
At1g03660	0.90469766	-0.00000024	0.95159435	-0.22140527
At1g03900	0.57276010	0.00000000	0.46913147	-0.00178003
At1g04250	-0.39984750	-0.00000048	-0.16465855	0.56829550
At1g04770	1.12914510	-0.00000024	0.61855700	0.20370865
At1g04980	2.17855830	0.00000024	2.24483300	0.61192894
At1g05350	0.87294006	0.00000000	0.87528800	0.22029924
At1g05570	1.20271640	0.00000000	1.05133720	0.04416561
At1g05630	1.00109360	0.00000000	0.87684274	-0.06990385
At1g06240	-0.59802914	0.00000000	-0.48663210	-0.06850004
At1g06290	0.84853125	0.00000000	0.44253350	-0.04366779
At1g07000	2.01048040	0.00000000	1.77894690	-0.02440000
At1g07220	0.49965740	0.00000024	0.62631510	-0.29318118
At1g07320	-0.70131636	-0.00000048	-0.54464674	0.30119990
At1g07440	-1.38886240	0.00000048	-1.36510560	0.25605917
At1g07670	0.59288740	-0.00000048	0.52223635	0.01580334
At1g07890	0.81300070	-0.00000048	0.97359990	0.20243263
At1g07910	-0.23078942	0.00000000	-0.32528900	-0.20975160

At1g08050	2.44425920	0.00000024	2.30706500	-0.30804467
At1g08250	0.48619175	-0.00000024	0.14739728	0.12238836
At1g08450	2.00418570	0.00000000	2.18925380	0.14712429
At1g08520	-0.58549260	0.00000000	-0.59361270	0.01084995
At1g08540	-0.66344595	0.00000000	-0.45069790	0.24077749
At1g08940	1.42764120	0.00000024	1.25415400	0.04899836
At1g09080	3.66404960	0.00000000	3.94452380	0.68302417
At1g09100	0.92995740	0.00000000	0.88891315	0.28737593
At1g09340	-0.49084760	0.00000000	-0.56875896	0.13103485
At1g09740	0.99140070	0.00000000	0.87587740	0.02080464
At1g09750	-0.74792814	-0.00000048	-0.54961777	0.11661243
At1g10050	0.80614567	0.00000000	0.73260950	-0.13712406
At1g10290	0.65940475	0.00000000	0.60747340	0.08022046
At1g10340	2.36502980	0.00000024	2.31395000	-0.02264595
At1g10410	1.06607530	-0.00000024	1.03685140	0.26519752
At1g10610	-0.32214737	-0.00000024	-0.33020425	-0.27833652
At1g10760	-1.07923360	0.00000048	-0.96624900	0.00316811
At1g10910	-1.03661420	-0.00000048	-1.14904710	-0.41659070
At1g11180	1.31301070	0.00000000	1.36095710	0.20506573
At1g11310	0.81270410	0.00000000	0.75828170	-0.21220780
At1g11330	1.26619050	0.00000000	1.06372360	-0.14517832
At1g11720	-0.94149256	0.00000000	-0.93094160	0.04101658
At1g12090	-0.61483290	0.00000048	-0.79536104	-0.04718781
At1g12140	0.26109362	0.00000000	0.22568798	-0.15602350
At1g12200	0.96569157	0.00000000	0.86688757	0.19918370
At1g12220	0.33824062	0.00000024	0.28015804	-0.13855100
At1g12290	1.73625710	-0.00000024	1.70564700	0.05043483
At1g12360	0.81285380	0.00000000	0.67197990	-0.04601955
At1g12460	-0.43921710	0.00000000	-0.65478900	-0.18885326
At1g12750	-0.14999819	0.00000000	-0.22826529	-0.09628010
At1g12860	-1.08298640	-0.00000048	-1.27289490	-0.04137945

At1g12900	-0.37082052	0.00000000	-0.40905428	0.12289095
At1g13470	3.39107280	0.00000000	3.38701150	0.22159982
At1g13900	0.18923998	-0.00000048	0.26809692	0.05797625
At1g14030	-0.72988080	-0.00000048	-0.74988030	0.25549412
At1g14070	0.70647620	0.00000000	0.38141537	0.01809692
At1g14150	-1.28534170	0.00000000	-1.41908450	0.05043316
At1g14230	-0.60943220	-0.00000048	-0.79329440	0.24977780
At1g14270	-0.36282730	0.00000048	-0.40709448	0.11260510
At1g14345	-1.03355930	-0.00000048	-1.20146850	-0.04803133
At1g14360	1.87320660	-0.00000048	1.71694800	0.25743198
At1g14370	1.52531050	0.00000000	1.30695820	-0.05459833
At1g14540	0.48597026	0.00000000	0.68178964	-0.26703262
At1g14720	-0.90271140	-0.00000048	-0.62551310	-0.11852121
At1g14760	-0.42787194	0.00000024	-0.23759246	-0.18410850
At1g14840	-0.63019300	0.00000024	-0.69970465	-0.04323149
At1g14870	2.48643640	0.00000000	2.39984460	0.25070380
At1g15130	0.42671728	-0.00000048	0.39407873	-0.14976883
At1g15260	-1.23437980	0.00000000	-1.46355300	-0.06957388
At1g15790	2.03247800	0.00000000	1.87106160	-0.07712030
At1g15980	-0.97471430	0.00000000	-1.12446170	0.02079010
At1g16080	-0.75141525	0.00000000	-0.79370785	-0.04633379
At1g16090	1.49299500	0.00000024	1.18765950	0.16229415
At1g16340	-0.47847510	0.00000024	-0.46093154	0.22661924
At1g16420	2.35423870	0.00000000	1.94711950	-0.03812552
At1g16470	0.91914177	0.00000000	0.98971270	0.27498530
At1g16670	1.19293790	-0.00000024	1.22050860	0.02494955
At1g16890	0.70074270	0.00000048	0.64893055	0.22133780
At1g16920	-0.37240458	-0.00000048	-0.33205032	0.05280447
At1g17080	0.69455480	0.00000048	0.62757490	-0.08975363
At1g17160	0.17064810	-0.00000048	0.07069969	-0.13502693
At1g17250	0.56366300	0.00000000	0.40670037	-0.29823947

At1g17430	1.03680900	0.00000024	0.92032910	-0.22115517
At1g17610	0.52030730	0.00000000	0.57213520	-0.43331242
At1g18060	-0.98777580	0.00000048	-0.89577150	0.16075230
At1g18360	-0.72037363	0.00000000	-0.70313025	0.26401280
At1g18490	-0.46839952	-0.00000048	-0.26372170	0.03462362
At1g18650	-1.46237830	0.00000000	-1.40530780	-0.09546614
At1g18730	-0.63289260	0.00000000	-0.86679410	0.16316843
At1g18870	-0.78407574	-0.00000024	-0.61133430	0.07175160
At1g19020	2.59476100	0.00000048	2.46105050	-0.14321160
At1g19150	-1.16162060	0.00000000	-1.19731380	0.29508066
At1g19250	4.97618700	0.00000000	4.55764600	0.43474483
At1g19300	1.28641560	0.00000024	1.18269110	0.14874315
At1g19360	1.05855940	-0.00000048	0.91046620	0.07799196
At1g19380	1.28281690	0.00000000	0.66042614	-0.51823710
At1g19550	-0.35571860	-0.00000048	-0.22065449	0.29462670
At1g19850	-0.58261060	-0.00000024	-0.25922847	0.06290054
At1g20030	-1.49843360	-0.00000048	-1.47031470	0.15540266
At1g20350	0.57131696	0.00000000	0.72179890	-0.28532028
At1g20510	0.90693140	0.00000000	0.73573780	-0.04284000
At1g20540	-0.36423160	-0.00000048	-0.31727790	0.06556892
At1g20590	-0.40645720	0.00000024	-0.25772667	0.15821695
At1g20810	-0.68597410	0.00000000	-0.46620512	0.18563128
At1g20850	-0.20354939	0.00000000	-0.17501593	0.08662367
At1g21110	2.55098900	-0.00000024	2.24990490	-0.05906189
At1g21120	2.02425100	0.00000000	1.27721550	-0.20603585
At1g21240	3.37595990	0.00000000	3.70944880	0.50728416
At1g21250	2.39889000	-0.00000048	2.34940770	-0.06442022
At1g21270	1.17938610	0.00000000	1.20425130	-0.29712105
At1g21370	1.15778590	0.00000000	1.10036330	-0.10304928
At1g21440	-1.10171990	0.00000000	-0.48805570	0.23368597
At1g21500	-0.95225286	0.00000000	-1.38256310	-0.24998188

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At1g21900	1.46460300	0.00000000	1.65353870	0.39236070
At1g22180	1.75183490	0.00000000	1.63741210	0.12370324
At1g22300	0.73175430	0.00000048	0.91677666	0.34751750
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At1g22700	-0.50491190	0.00000048	-0.18688583	0.27525330
At1g22850	-0.55597450	0.00000048	-0.49409485	0.03611755
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At1g23830	1.04070900	-0.00000024	0.69204090	-0.17925740
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At1g23850	1.30627080	0.00000000	0.84078720	-0.05746579
At1g24140	2.44004250	0.00000024	2.40328070	-0.14439440
At1g24150	1.83740640	0.00000024	2.05021070	0.05340838
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At1g24807	1.949786280	0.00000048	1.50737620	0.07629442
At1g25450	-0.47215605	0.00000000	-0.68952847	-0.15787983
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At1g25580	0.48584604	-0.00000024	0.51676180	-0.01423430
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At1g75690	-0.85268500	0.00000048	-1.06807570	0.01527309
At1g75820	-0.82946205	0.00000048	-0.91203547	-0.34371138
At1g75900	-1.05277060	0.00000000	-0.70768640	0.17688799
At1g75960	-1.46682330	-0.00000024	-1.72141620	-0.43515730
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At1g76130	0.59775780	0.00000000	0.43762040	0.17893219
At1g76390	0.40342950	0.00000000	0.43551922	-0.17613220
At1g76970	1.32475230	-0.00000024	1.34652570	-0.09886551
At1g77060	-1.05426410	0.00000000	-1.27142600	-0.14069033
At1g77090	-0.55028486	0.00000000	-0.57625914	0.27937222
At1g77220	0.03869033	0.00000000	0.11717057	-0.07665086
At1g77310	-0.37783290	-0.00000024	-0.39315748	-0.14205956
At1g77370	0.83160450	0.00000048	0.74117374	-0.16454506
At1g77420	0.57362270	0.00000048	0.40659142	-0.16520715
At1g77490	-0.79000616	0.00000000	-1.00410510	-0.12753487
At1g77500	0.69317530	-0.00000024	0.78780770	0.05613446
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At1g78410	3.75307420	0.00000000	3.49554970	0.21728158
At1g78450	-0.65394950	0.00000000	-0.86899710	0.10668421
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At2g17033	-0.55996180	0.00000000	-0.45194864	-0.11328650
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At2g17720	1.62509160	-0.00000048	1.48846820	0.08923245
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At2g40600	0.93684864	0.00000000	0.81404495	-0.23787642
At2g40620	-0.52810025	0.00000000	-0.75991750	-0.28899193
At2g41010	1.37343690	0.00000000	1.01489190	-0.01078129
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At2g41880	0.63339186	0.00000000	0.37175940	-0.33485390
At2g41990	-1.21546270	0.00000048	-1.30713460	-0.27783012
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At2g43560	-0.48742150	0.00000048	-0.62964580	0.25775576
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At2g45150	-0.46580482	-0.00000024	-0.21295261	0.10313416
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At2g45950	-0.38950825	0.00000000	-0.56667470	-0.03771210
At2g45960	1.17395350	0.00000000	1.12293390	-0.31533860
At2g45990	-0.36326647	0.00000000	-0.18402481	0.16324997
At2g46150	1.14599230	0.00000024	1.29801800	0.29565500
At2g46270	0.94333170	0.00000000	0.80680320	-0.09318113
At2g46400	2.77642680	0.00000000	2.84412670	0.16090060
At2g46600	0.85437536	0.00000000	0.93780470	-0.56927395
At2g46620	1.25551080	-0.00000024	1.34383200	-0.11620379
At2g46910	-0.86157750	0.00000048	-1.11419370	-0.08551502
At2g47060	0.21813393	0.00000000	0.22675419	-0.09189367
At2g47130	2.18633940	-0.00000024	2.13219240	-0.08557677
At2g47190	0.63740873	0.00000000	0.46984982	-0.15435600
At2g47320	0.30514240	0.00000048	0.44077778	0.03775072
At2g47380	0.84885790	0.00000048	0.73994540	0.21543694
At2g47470	1.37170270	-0.00000048	1.58629850	0.45496560
At2g47500	-0.38407730	0.00000024	-0.29725910	0.10856724
At2g47650	0.83809376	-0.00000048	1.08889530	0.28228950
At2g47730	1.11112210	0.00000000	1.03855470	0.01369524
At2g47800	2.36115400	0.00000024	2.52204080	0.48239970
At2g47830	0.50566506	0.00000024	0.29470180	-0.10274410
At2g47930	-1.19340990	0.00000000	-1.23881530	-0.29158830
At2g48070	-0.67945194	0.00000048	-0.76267670	-0.12929726
At3g01170	0.65084696	-0.00000024	0.57341003	-0.11802936
At3g01370	-0.53101730	0.00000048	-0.65690994	0.00735569
At3g01480	-0.31350850	-0.00000048	-0.52921534	0.25316525
At3g01720	1.34873770	-0.00000024	1.40322160	0.16801786
At3g01810	-0.63137674	-0.00000048	-0.50032760	0.01487160
At3g01830	3.89635470	0.00000000	3.43186100	-0.03429556

At3g02050	-0.48546076	0.00000000	-0.36798334	0.10739040
At3g02360	0.87983704	-0.00000048	0.91402340	0.23296547
At3g02555	-0.24139047	-0.00000024	-0.13991427	0.18948483
At3g02600	-0.39318180	0.00000000	-0.34245777	0.04214954
At3g02690	-0.67740200	0.00000048	-0.73795795	0.04808283
At3g02730	-0.55339956	0.00000000	-0.47608995	0.01971149
At3g02770	1.52958200	0.00000048	1.40966370	0.03777504
At3g02800	0.93641330	0.00000000	0.45092654	-0.37505865
At3g02840	2.13793560	0.00000000	1.83330250	-0.17339015
At3g03440	0.59781240	0.00000000	0.68348430	0.04640102
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At3g04120	0.90292835	-0.00000048	0.96241236	0.38902378
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At3g04640	1.37275890	0.00000048	1.04708100	0.00963187
At3g04720	2.04577350	0.00000000	1.87877800	0.02528572
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At3g04860	-0.62831880	0.00000000	-0.52609250	-0.11083102
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At3g05360	0.86858700	-0.00000024	0.49587893	-0.08713985
At3g05500	1.12603660	0.00000000	1.34410330	-0.00321770
At3g05880	-0.71080494	0.00000000	-0.70756720	-0.15270376
At3g05910	-1.01861240	0.00000000	-0.86196613	-0.22356892
At3g05970	1.16012950	0.00000000	1.01840020	0.05878401
At3g06130	-0.65816855	-0.00000024	-0.64037920	-0.12504530
At3g06160	-0.63174963	-0.00000024	-0.48976254	0.15059710
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At3g06860	0.78052664	0.00000000	0.83052635	0.25039530
At3g07200	-0.43881488	0.00000000	-0.17064285	0.08392906
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At3g07520	0.97571087	0.00000024	0.83899020	-0.22403050
At3g07540	-0.57895540	0.00000000	-0.70071316	-0.12871647
At3g07600	1.04351620	0.00000000	0.71533130	-0.41679263
At3g07680	0.80675983	0.00000000	0.86668680	0.11393786
At3g07690	0.49893498	-0.00000024	0.42423130	-0.22249556
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At3g08010	-0.52178670	-0.00000048	-0.70857525	-0.04096985
At3g08600	-0.79892540	0.00000000	-0.58730936	0.14229488
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At3g08920	-1.10400150	0.00000000	-1.09416100	-0.14158583
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At3g09010	1.80010700	0.00000000	1.58673430	-0.09558153
At3g09350	0.97483300	-0.00000024	0.97900724	0.26898885
At3g09410	2.23642830	0.00000000	1.82937100	0.04099107
At3g09490	1.76608800	0.00000000	1.54170160	-0.13051677
At3g09580	-0.78712130	0.00000000	-1.01090100	-0.15460396
At3g09650	-0.45028472	0.00000000	-0.47865010	-0.02855396
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At3g10010	0.48601103	0.00000000	0.50047493	-0.00852418
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At3g10320	0.95410633	-0.00000024	0.57374120	-0.08256960
At3g10350	-0.20099354	0.00000000	-0.17702866	0.12254429
At3g10380	0.58597660	0.00000000	0.57761240	0.10460997
At3g10450	-0.36147547	-0.00000024	-0.10544968	0.04294682
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At3g11340	4.60054300	0.00000000	4.04159450	0.24977064
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At3g11880	0.51291750	0.00000000	0.63460255	0.14787102
At3g12110	-0.91219260	0.00000024	-1.01461270	0.03548288
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At3g13090	0.71082616	0.00000000	0.64695430	0.04970527
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At3g13120	-0.61935140	0.00000000	-0.47171068	0.15956402
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At3g13320	0.30436802	0.00000000	0.17361593	-0.18781757
At3g13330	1.36110450	-0.00000048	1.61758570	0.28492832
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At3g13870	0.57032824	0.00000000	0.57360170	-0.04962921
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At3g14430	0.66975546	0.00000000	0.51468610	-0.05358553
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At3g15110	-0.58680344	0.00000000	-0.80191660	0.07063437
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At3g21080	1.85607480	0.00000000	1.97264050	0.21017694
At3g21230	2.21468830	0.00000000	1.69570260	0.25839972
At3g21520	1.88500810	0.00000000	1.66477870	-0.45020150
At3g21630	0.96416664	0.00000048	0.81170607	-0.22986078
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At3g22620	2.12191100	0.00000024	1.79960510	0.50486300
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At3g23750	-0.49923038	0.00000000	-0.62799454	-0.20772648
At3g23760	-0.62584760	-0.00000048	-0.69173837	0.28409290
At3g23880	-1.34379240	0.00000024	-1.55000570	0.18841410
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At3g24180	1.12462760	-0.00000048	1.15738820	0.15252447
At3g24430	-0.91297720	0.00000000	-1.06499200	-0.03299761
At3g24500	1.20950940	0.00000000	1.11339500	0.08279014
At3g24800	-0.66134690	0.00000000	-0.71863604	-0.15496588
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At3g25480	-0.55267644	0.00000048	-0.55637810	0.14383078
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At3g25660	-0.69029950	0.00000000	-0.51534130	0.10936356
At3g25710	-0.86731243	0.00000000	-0.54738570	0.39140534

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At3g26420	0.95499610	0.00000000	0.91443586	-0.05658031
At3g26440	1.87846350	-0.00000024	2.06026100	0.32081437
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At3g27190	0.38495398	0.00000024	0.44480420	0.03595853
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At3g27890	0.86245920	0.00000048	0.75987150	-0.03049517
At3g27930	0.11663222	0.00000000	0.06467629	-0.04149580
At3g28210	1.71421340	0.00000000	1.78284880	0.09078050
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At3g28540	2.02979180	0.00000000	2.19648890	0.18041658
At3g28580	2.64418240	0.00000000	2.40914370	0.13213778
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At3g28890	0.35148406	0.00000000	0.55588200	0.06027722
At3g28930	2.03476720	0.00000000	1.76163530	0.05965376
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At3g28950	0.87331960	0.00000048	0.87491894	0.31076002
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At3g29250	1.07730960	0.00000000	1.17175750	-0.10938549
At3g29400	0.48805475	0.00000000	0.51781607	-0.13313246
At3g43540	-0.64759350	0.00000048	-0.59030010	0.32570505

At3g43790	-0.43783950	0.00000000	-0.30832790	-0.02083850
At3g44720	1.80043840	-0.00000024	1.77271800	0.19468140
At3g44860	2.24639940	0.00000000	1.57086850	-0.32247472
At3g45040	0.71207240	0.00000000	0.60223820	-0.30262090
At3g45230	-0.50039910	0.00000000	-0.52535440	-0.00604105
At3g45290	2.15162600	0.00000000	1.93483920	0.30313350
At3g45620	1.67256780	0.00000000	1.73048500	0.19774961
At3g45640	0.95456123	0.00000000	0.96165276	-0.20506096
At3g46490	-0.63410950	-0.00000024	-0.62904050	0.14404368
At3g46610	-0.80055140	0.00000000	-0.80031323	0.14473772
At3g46630	-0.71075060	0.00000048	-0.77308800	0.00926828
At3g46670	-0.94511150	-0.00000024	-0.87388086	0.26852465
At3g47090	1.30631180	-0.00000024	1.21889690	0.03122735
At3g47100	-0.30306530	0.00000000	-0.31755996	-0.15052414
At3g47220	0.32952880	0.00000000	0.19974422	0.09210396
At3g47430	-0.96042250	-0.00000048	-1.05374740	0.12202215
At3g47480	2.95997800	0.00000024	3.06984140	0.05297518
At3g47540	3.38695670	-0.00000024	3.11541130	0.49610066
At3g47700	0.40673614	0.00000024	0.18467712	-0.01741242
At3g48080	1.89450550	-0.00000024	1.91023970	-0.20957446
At3g48090	2.04099320	0.00000000	2.45916130	0.61194180
At3g48200	-0.76458406	0.00000000	-0.64519310	0.29186583
At3g48350	-0.61317350	-0.00000024	-0.71836520	-0.01597571
At3g48420	-1.27088020	0.00000048	-1.37057160	-0.09127140
At3g48640	2.19671080	0.00000000	2.15277960	-0.18723607
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At3g48850	1.67315580	0.00000024	1.45565510	0.08272386
At3g48970	-0.60544970	0.00000024	-0.79744315	-0.08964324
At3g49260	-0.94926430	0.00000000	-1.11252780	-0.05355120
At3g49340	1.74563860	-0.00000024	1.49901510	0.28132534
At3g49350	1.02340750	-0.00000024	0.92817070	0.03435135

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At3g49500	-0.20710468	0.00000048	-0.32070112	-0.11261511
At3g49530	1.06942560	0.00000024	1.21398930	0.00846839
At3g49620	3.33806180	0.00000000	2.13800530	-0.27314758
At3g49780	2.21881100	0.00000000	1.73635290	-0.15611935
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At3g50260	1.14864350	0.00000000	1.37740370	0.11440849
At3g50270	-0.36757946	0.00000048	-0.60354996	-0.07368565
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At3g50660	-0.83500910	0.00000000	-1.06352400	0.15694809
At3g50685	-1.08964350	0.00000000	-1.10494800	-0.07906294
At3g50770	2.87921290	0.00000000	2.46873710	-0.40418910
At3g50790	-0.73186445	-0.00000048	-0.73150660	-0.05600739
At3g50820	-0.65113830	0.00000000	-0.68196250	0.10508108
At3g50930	2.83207500	0.00000024	2.87615010	0.08546805
At3g50950	0.79262540	0.00000000	0.76238537	-0.28073550
At3g51330	2.55210640	0.00000000	2.53519100	-0.10803366
At3g51420	-0.94010260	0.00000000	-1.04969690	0.04558039
At3g51430	1.51885180	0.00000000	1.49777700	-0.05384541
At3g51440	1.66097830	-0.00000024	1.49987600	-0.38610458
At3g51510	-0.85280610	-0.00000048	-0.94389250	-0.09975243
At3g51580	0.56109570	0.00000000	0.57612085	0.03259873
At3g51890	1.23941760	-0.00000048	1.09199620	-0.31739210
At3g52200	0.47348928	-0.00000048	0.56645820	0.04319334
At3g52230	-0.53350353	0.00000000	-0.46338797	0.00791407
At3g52400	1.83628370	-0.00000024	1.70067260	-0.23308325
At3g52430	3.59896470	-0.00000024	3.48153110	0.59488800
At3g52490	-0.33743906	0.00000024	-0.19440746	0.30625010
At3g52610	-0.35390520	0.00000048	-0.49081635	-0.07498884
At3g52920	-0.44686030	0.00000000	-0.50330377	0.32703876
At3g53130	-0.43594265	0.00000000	-0.41872072	0.29105043

At3g53150	1.26262660	0.00000024	1.41366740	-0.22995949
At3g53170	-0.58437680	0.00000000	-0.36844206	-0.06483316
At3g53230	2.06491610	0.00000000	1.92692850	0.11557841
At3g53780	0.73629236	0.00000048	0.66152050	-0.04292917
At3g53810	1.17422820	0.00000000	0.92726517	-0.06205225
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At3g54010	0.57644176	0.00000000	0.54511120	0.07995367
At3g54150	2.20109130	0.00000000	2.10229400	-0.43382406
At3g54640	2.48794080	0.00000000	2.29057500	0.10969257
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At3g54950	1.11679790	0.00000000	1.26757740	0.57714130
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At3g57190	-0.73510550	0.00000000	-0.71765160	-0.02301693
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At3g62590	0.46906996	0.00000024	0.36063385	-0.44460750
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At4g17560	-0.60982084	0.00000000	-0.50330020	0.13049030
At4g17570	0.57077456	0.00000000	0.57953690	0.20930862
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At4g18250	2.80680660	0.00000024	2.44639870	-0.23214817
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At4g22530	1.87373210	0.00000024	1.56936980	0.00826836
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At4g23130	1.51540450	0.00000000	1.19827440	-0.58338760
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At4g23820	-0.90393114	0.00000000	-0.95620060	-0.20016909
At4g23850	0.95559500	0.00000000	0.94888450	-0.11008692
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At4g24190	1.56482030	-0.00000048	1.71796660	0.25218630
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At4g25030	0.64427090	-0.00000048	0.71755600	-0.08531046
At4g25070	0.39380240	-0.00000024	0.53404000	-0.08158875
At4g25080	-0.79408836	-0.00000048	-0.79688690	0.08748198
At4g25110	1.56856780	-0.00000024	1.67284870	-0.26529694
At4g25350	0.33260750	-0.00000024	0.21844530	-0.02335930
At4g25390	1.06107520	0.00000000	0.70006250	-0.20295572
At4g25640	0.75872755	0.00000000	0.93189670	0.16076660
At4g25700	-0.65095377	0.00000000	-0.96504590	0.08684921
At4g25720	0.78394890	0.00000000	0.55704020	0.02981520
At4g25780	-2.05992940	0.00000024	-2.25027280	0.28915262
At4g25900	1.47635840	-0.00000048	1.55915260	0.25647163
At4g25940	0.22175932	0.00000000	0.00644207	-0.49413824
At4g26060	1.44031910	0.00000000	1.20049290	-0.11386299
At4g26070	1.04741000	0.00000048	0.89578676	-0.20422268
At4g26240	0.56948230	-0.00000048	0.65843487	0.04269600
At4g26270	1.21177530	0.00000000	1.42035250	0.04946137
At4g26520	-0.94473934	0.00000000	-1.13071610	0.11477876
At4g26700	-0.62191060	0.00000000	-0.79378510	0.03576756
At4g26790	-0.56975390	0.00000000	-0.52444840	0.01982021
At4g26910	1.39884420	0.00000000	1.40259270	-0.03847885
At4g27060	-0.13214016	0.00000048	-0.21605492	-0.01008415
At4g27280	1.94766330	0.00000000	1.89531760	-0.28034496

At4g27300	0.89890146	0.00000000	0.65426207	-0.31797980
At4g27700	-0.78685570	-0.00000048	-0.59492590	0.30388880
At4g28025	-0.64883040	0.00000000	-0.95385265	-0.07939053
At4g28050	-0.64142130	0.00000000	-0.60702230	-0.10810566
At4g28190	-0.85242580	-0.00000024	-0.92865396	-0.49690676
At4g28390	1.82649330	-0.00000024	1.90373040	-0.05500078
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At4g28570	0.47034264	0.00000000	0.56358430	-0.15315580
At4g29040	0.74250840	-0.00000048	0.81540010	0.04756451
At4g29050	0.48066425	0.00000000	0.23344111	-0.42199730
At4g29160	0.80494880	-0.00000024	0.78379726	0.18973112
At4g29210	0.67375994	-0.00000024	0.74941780	0.05904031
At4g29330	1.15393880	0.00000000	0.93385840	0.26548338
At4g29740	1.21643070	0.00000000	1.63553520	0.27766370
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At4g29810	1.37484650	0.00000000	1.39120390	0.05927658
At4g29900	1.46164370	0.00000000	1.34209590	-0.03349638
At4g29960	0.63209250	0.00000000	0.59146070	0.12225151
At4g30580	-0.51261140	-0.00000048	-0.57436560	0.07642222
At4g30610	-1.06720760	-0.00000024	-1.10996820	0.16750193
At4g30950	-0.43463040	0.00000000	-0.55564930	-0.02361298
At4g31040	-0.33605720	0.00000000	-0.31268024	0.02161408
At4g31400	-0.37214446	0.00000000	-0.36711980	-0.02686596
At4g31500	1.49770500	0.00000048	1.50542120	0.06438875
At4g31530	-0.41667128	0.00000048	-0.46935368	0.07378721
At4g31560	-0.56963370	0.00000000	-0.57384040	-0.01652765
At4g31590	-0.66165090	-0.00000048	-0.44768380	-0.08137298
At4g31800	3.05651280	0.00000000	2.82885220	0.31779718
At4g32420	-0.46830177	-0.00000048	-0.29399610	-0.06135321
At4g32570	-1.09748320	0.00000000	-0.84951925	0.17843151
At4g32680	0.43203545	0.00000000	0.38816595	0.00443983

At4g32870	1.51869680	0.00000000	1.23392720	-0.39853525
At4g32890	-0.44940400	0.00000000	-0.58996940	0.04512668
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At4g33010	-0.81374980	0.00000000	-0.68952320	0.12670040
At4g33050	2.49607320	0.00000000	2.37949600	-0.08074522
At4g33100	0.50406980	0.00000024	0.28365470	-0.08772874
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At4g33540	1.50531290	0.00000000	1.33840130	0.18035841
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At4g34120	0.75305176	0.00000000	0.80504704	0.26290607
At4g34150	1.25245050	0.00000000	1.31633420	-0.06950092
At4g34250	-0.75885606	0.00000000	-0.88483070	0.04904556
At4g34390	1.51113270	0.00000000	1.48077250	0.08443356
At4g35110	2.43097730	0.00000000	2.45077470	0.03197861
At4g35180	2.71767520	0.00000000	2.66721400	0.09118557
At4g35300	-0.73047450	-0.00000048	-0.51158380	0.32348108
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At4g35600	0.87736680	0.00000000	0.83210370	-0.11983705
At4g35950	-0.55556010	0.00000000	-0.56525900	0.05405808
At4g36150	0.94693420	-0.00000024	0.67162440	-0.15755415
At4g36400	0.20999193	0.00000024	0.16348243	-0.05035353
At4g36410	-0.87168810	0.00000000	-1.30127690	-0.33042622
At4g36760	0.36060047	0.00000000	0.32572985	-0.12601566
At4g36988	2.35888430	0.00000000	2.11177060	0.12904430
At4g37000	-0.76121664	0.00000048	-0.75233746	0.16876459
At4g37080	-1.04078580	-0.00000048	-1.02892610	0.16462612
At4g37290	0.47903514	0.00000000	0.83462024	-0.23296070

At4g37520	2.29499770	0.00000024	1.96266800	0.40176558
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At4g37790	0.46649313	-0.00000024	0.38948680	0.02882218
At4g38225	-0.65216160	0.00000000	-0.70707417	0.00334740
At4g38260	1.22777560	0.00000000	1.19517370	0.19308686
At4g38430	-0.86285020	-0.00000048	-0.72603416	-0.08746958
At4g38560	1.41061020	0.00000000	1.45455100	-0.14777136
At4g38770	-0.27136564	-0.00000048	-0.55751705	-0.02006197
At4g39030	2.59823940	-0.00000024	2.74315880	0.20928931
At4g39140	0.76778460	-0.00000024	0.67171380	0.31540490
At4g39390	0.93310310	0.00000000	0.90203047	0.25146960
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At4g39670	2.64576150	0.00000000	2.44568870	0.01112890
At4g39820	0.95721626	0.00000000	0.79033900	0.20227623
At4g39830	2.01021960	0.00000000	2.10938430	0.01834202
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At5g04060	-0.58176947	-0.00000024	-0.49285698	-0.10633612
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At5g05190	0.46081114	0.00000024	0.40947342	-0.28367066
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At5g05460	1.00819060	-0.00000024	1.00363060	-0.41810608
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At5g06060	-0.42688322	0.00000048	-0.48735762	0.09592438
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At5g10695	1.94063850	0.00000000	1.67715360	-0.34542322
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At5g11920	2.46568580	0.00000000	2.30549380	-0.03393436
At5g11970	1.35794730	0.00000000	1.04795460	-0.13321209
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At5g13410	-0.57021904	0.00000000	-0.77806090	-0.27947140
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At5g13730	-1.21543810	0.00000000	-1.46613000	-0.06250668
At5g14570	-0.54733560	0.00000000	-0.75561760	-0.09379816
At5g14660	-0.70839360	0.00000000	-0.63669680	0.35182762
At5g14970	-0.55260515	0.00000000	-0.80367520	-0.00126457
At5g15210	-0.32128860	0.00000000	-0.30474950	0.10952568
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At5g15870	1.75245570	0.00000000	1.76964240	0.30223536
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At5g16010	-0.38154364	0.00000000	-0.22656060	0.00607586
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At5g17400	-0.87824535	0.00000000	-0.75330760	-0.20784068
At5g17520	-0.76191900	0.00000048	-0.73213960	0.04506111
At5g17660	-0.67338085	0.00000024	-0.38507295	-0.07605934
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At5g18310	1.03276920	-0.00000048	0.98386860	-0.00309753
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At5g19930	0.87594890	0.00000000	0.84002350	-0.08703852
At5g19980	1.16945740	0.00000000	1.25101380	0.05706501
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At5g22060	1.53042170	0.00000000	1.52145530	0.17192698
At5g22250	1.50076440	-0.00000024	1.17520880	-0.11265039
At5g22380	1.37609530	-0.00000024	1.07552170	-0.13020515
At5g22530	2.80511100	0.00000000	2.37407970	-0.05068708
At5g22570	4.04358400	-0.00000024	3.62639710	0.44280982
At5g22620	-0.67810726	0.00000048	-0.67615320	0.00411034
At5g22630	1.25338790	0.00000024	1.04825020	0.14234757
At5g22770	0.77461240	0.00000000	0.66808130	0.16995096
At5g23010	-1.45718770	0.00000048	-0.65980150	0.02320814
At5g23060	-0.98252060	-0.00000048	-1.06506590	0.19885015
At5g23210	-0.98374080	0.00000000	-1.23604750	-0.27462770
At5g23540	0.73052600	-0.00000048	0.84466124	0.19318676
At5g23850	1.36307240	0.00000000	1.36812830	0.14439678
At5g23920	-0.85405730	-0.00000048	-0.78199196	-0.08903647
At5g24110	2.81863880	-0.00000024	2.46967890	-0.22015023
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At5g24420	-1.71278550	-0.00000048	-1.29769780	0.30347633

At5g24530	2.51503800	0.00000000	2.57594730	-0.00454712
At5g24540	1.40799400	0.00000000	1.09109970	-0.10817289
At5g24580	-0.45029163	0.00000000	-0.26249194	0.01456523
At5g24810	1.19198560	0.00000048	1.10768800	0.14695597
At5g25250	3.81783300	-0.00000024	3.52580880	0.48142480
At5g25540	0.82848790	0.00000048	0.70297720	0.07186365
At5g25930	2.25264170	-0.00000024	1.74337150	-0.18734646
At5g26030	1.52231070	0.00000048	1.50376940	0.25896215
At5g26820	-0.79254150	0.00000000	-1.05189940	-0.04625750
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At5g27290	-1.06865930	0.00000048	-1.08666610	0.05175448
At5g27420	2.24474900	0.00000000	2.34462070	-0.06039286
At5g27520	0.87236166	0.00000000	0.71495580	0.03865504
At5g27560	-0.79221725	0.00000048	-0.74386406	0.13567162
At5g27600	1.10237690	-0.00000024	0.95450974	-0.31091976
At5g27830	1.33529950	0.00000024	1.33968260	0.23551488
At5g33290	1.04557700	0.00000048	0.90775300	-0.03470135
At5g34930	0.46070457	0.00000000	0.36903167	-0.15205574
At5g35200	0.67558575	0.00000000	0.77904654	-0.01960087
At5g35210	-0.27771378	0.00000000	-0.20556402	0.38927984
At5g36170	-0.70092820	0.00000000	-0.87830590	-0.09051943
At5g36220	2.25728560	0.00000000	1.67497440	-0.13083196
At5g36230	-0.14943647	0.00000000	-0.02134943	0.04821587
At5g36880	1.01475860	-0.00000048	0.97401047	0.17222070
At5g36930	0.79286600	0.00000000	0.94617033	-0.23807550
At5g37070	1.14914560	0.00000000	1.01340630	0.07717037
At5g37360	-0.44921780	-0.00000048	-0.66879654	-0.04939365
At5g37480	0.81114817	0.00000000	0.67409610	-0.16296577
At5g37490	0.15203261	0.00000024	0.31566024	-0.13634300
At5g37600	1.80195380	0.00000000	2.02633240	0.56672764

At5g37680	-0.80825780	0.00000000	-0.71636033	-0.18670702
At5g37780	0.67071724	0.00000048	0.74977160	0.18488741
At5g38290	-0.80229354	0.00000000	-0.80248594	0.16180325
At5g38510	-0.95992090	0.00000000	-1.07780120	-0.07825327
At5g38520	-0.97117376	0.00000000	-1.04845810	0.15692711
At5g38630	0.65014980	0.00000048	0.60936450	0.03883553
At5g38650	0.68483590	0.00000000	0.56375840	-0.03630018
At5g38710	2.39893840	0.00000024	1.75863030	-0.09690380
At5g38830	0.53903960	0.00000000	0.53611183	0.24229717
At5g38900	2.94982670	0.00000000	2.73633770	0.00597048
At5g38990	0.70427560	0.00000000	0.44603777	-0.12449169
At5g39020	0.90113354	0.00000000	0.66926813	-0.25363730
At5g39030	0.40550566	0.00000000	0.47131157	-0.21359539
At5g39040	0.74737170	-0.00000024	0.72206783	-0.00276279
At5g39090	0.80696680	0.00000000	0.72077775	-0.29707742
At5g39510	0.54714730	0.00000000	0.57217360	0.02505159
At5g39670	3.06385800	0.00000000	3.17365220	0.27089143
At5g39785	1.06567360	0.00000000	0.95072390	0.10476971
At5g39950	1.05641510	0.00000000	1.06784870	0.00741196
At5g40170	1.06802610	0.00000000	0.87855480	0.16981030
At5g40230	0.35537648	0.00000024	0.92333674	0.17823195
At5g40380	-0.82553580	0.00000000	-1.18512730	-0.35618448
At5g40580	0.68661020	0.00000048	0.63816020	0.07168245
At5g40650	0.52264404	0.00000000	0.45824242	0.06527472
At5g40760	1.62569670	-0.00000024	1.57658910	0.39025617
At5g40780	2.12858770	0.00000000	1.99451920	0.07772255
At5g41050	-1.15468290	-0.00000048	-1.27450700	0.09784699
At5g41060	-0.48640227	-0.00000024	-0.30634308	0.11541915
At5g41180	1.09574440	0.00000024	1.06510260	0.16920924
At5g41610	0.52421500	0.00000000	0.67755985	0.12694645
At5g41920	-0.23335266	0.00000000	-0.23350906	0.08686638

At5g42010	0.59077310	0.00000000	0.74613190	0.06605625
At5g42050	1.62328480	0.00000000	1.74294570	0.09295893
At5g42070	-1.28585620	0.00000000	-1.20780320	-0.16590881
At5g42200	-1.06467890	0.00000000	-1.28767800	-0.19517231
At5g42380	1.75537750	0.00000012	1.94641450	-0.04053497
At5g42690	-0.23656869	0.00000000	-0.20494652	-0.10555673
At5g42790	1.00522140	0.00000048	0.99900720	0.29523468
At5g42830	1.20908690	0.00000000	1.16124150	-0.38926172
At5g42850	0.42152310	0.00000048	0.35097600	0.12297440
At5g43100	0.49140453	0.00000000	0.53665830	-0.16070557
At5g43750	-0.96342325	0.00000000	-1.04447790	-0.04262638
At5g43910	2.02160500	-0.00000024	2.05910920	0.03368759
At5g43940	0.46666288	-0.00000048	0.68250800	0.06616545
At5g44000	-0.48044920	0.00000000	-0.40325785	-0.11374426
At5g44010	-0.58828900	-0.00000024	-0.52199270	0.29118800
At5g44070	1.06197790	0.00000048	1.00097610	-0.12541294
At5g44140	-0.40034652	0.00000000	-0.18183088	-0.07852650
At5g44240	0.82764006	-0.00000048	0.49162388	-0.29448557
At5g44420	3.36235760	-0.00000024	3.04722740	-0.97673010
At5g44520	-0.58746720	0.00000000	-0.72692490	0.03712559
At5g44570	1.69240710	0.00000000	1.62374830	0.13295865
At5g44820	2.14009000	0.00000000	1.61222150	-0.17581868
At5g44820	1.30580380	0.00000000	1.30390020	-0.03176332
At5g44990	0.91534950	0.00000000	0.46442270	-0.37729645
At5g45000	1.72479250	0.00000024	1.51700640	-0.21213889
At5g45040	-1.21143030	-0.00000048	-1.28333350	-0.03300095
At5g45110	1.31309220	0.00000000	1.29094840	-0.12600231
At5g45130	1.02410030	0.00000048	1.01673510	0.21551037
At5g45300	-0.66915700	0.00000000	-0.47434520	-0.08694601
At5g45350	-0.16859531	0.00000048	-0.10989904	-0.03378248
At5g45460	1.57435890	0.00000024	1.70039960	0.49922514

At5g45480	0.91797540	-0.00000048	0.92115736	0.07356072
At5g45500	1.13540700	-0.00000048	1.02677200	-0.19026184
At5g45550	0.70186330	0.00000048	0.57254460	-0.00511932
At5g45680	-0.96726704	0.00000048	-1.15060900	-0.12363434
At5g46050	1.72836540	0.00000000	1.63062620	0.18226194
At5g46080	1.19155120	0.00000024	1.08940670	-0.20069313
At5g46250	0.63456820	0.00000048	0.56691120	-0.04221010
At5g46350	0.66998600	0.00000000	0.79707265	-0.17853689
At5g46390	-0.53267956	0.00000048	-0.47609830	-0.10182619
At5g46420	-0.65092470	0.00000000	-0.74183080	0.03682470
At5g47070	1.24300430	0.00000024	1.32285360	0.08038497
At5g47120	1.50151200	0.00000000	1.60487600	0.30202007
At5g47200	0.83225346	-0.00000048	0.92173815	0.26935863
At5g47220	2.79037100	0.00000024	2.45559400	0.11047530
At5g47420	0.88619660	-0.00000048	0.82837060	0.10079718
At5g47580	0.84059880	0.00000000	0.66839430	-0.08989358
At5g47650	-0.49014830	0.00000000	-0.42741728	-0.15530610
At5g47730	0.88929915	0.00000000	0.86008763	0.01658464
At5g47850	0.80305123	0.00000000	1.06741860	-0.05465722
At5g47910	1.33887100	-0.00000048	1.22659020	0.04294729
At5g47960	0.75367950	0.00000024	0.79341245	0.22889805
At5g48380	1.64992140	0.00000048	1.69677260	0.25022173
At5g48460	-0.78774405	0.00000000	-0.83921385	-0.24771404
At5g48540	2.55560300	-0.00000048	2.21923110	0.01616526
At5g48790	-0.86011505	0.00000048	-1.22943450	-0.07117701
At5g49570	1.41946320	-0.00000024	1.20880370	0.15009070
At5g49680	0.86555960	0.00000000	0.50047590	-0.15135312
At5g49830	0.45256567	-0.00000048	0.44689655	0.03715515
At5g49890	0.23571491	0.00000048	0.23171377	-0.04096651
At5g49950	0.41068697	0.00000024	0.41622830	0.04704332
At5g50280	-0.65208983	-0.00000024	-0.63484170	0.21305513

At5g50520	0.60360480	0.00000048	0.47956753	-0.25945997
At5g50580	-0.41817617	0.00000000	-0.28325891	-0.04751110
At5g51280	0.49818230	-0.00000048	0.43721914	0.03550911
At5g51540	-0.73214960	-0.00000048	-0.72571470	-0.11160040
At5g51640	0.80177450	0.00000000	0.68063736	-0.03040171
At5g51740	0.60438013	0.00000000	0.74798630	-0.06539202
At5g51830	1.30708890	0.00000024	1.27942610	0.08224344
At5g52100	-1.00544330	0.00000000	-1.02498580	0.09705210
At5g52210	0.30822754	0.00000024	0.27930164	-0.24540377
At5g52240	0.48667860	0.00000000	0.52788734	0.05772638
At5g52420	-0.69049170	0.00000000	-0.66705940	0.27408028
At5g52440	-0.76854470	-0.00000048	-0.70584726	-0.08831167
At5g52580	0.42308950	0.00000000	0.46447563	-0.12586069
At5g52640	2.58598330	-0.00000024	2.09115740	-0.30512810
At5g52750	2.52641250	0.00000024	2.33535480	-0.23067951
At5g52760	3.37972700	0.00000000	3.45464180	0.25401950
At5g52810	2.85455800	0.00000024	2.89220570	0.33065915
At5g52960	-0.65313053	-0.00000048	-0.66614676	0.08856773
At5g52970	-1.04513500	0.00000000	-1.01498170	0.13652611
At5g53110	1.04356170	0.00000000	1.23761700	0.18713236
At5g53490	-0.78054047	0.00000000	-0.83753586	0.04026890
At5g53580	-0.71943570	-0.00000048	-0.64325476	0.19051409
At5g53860	-0.65127230	0.00000000	-0.38173485	0.28460120
At5g54140	0.63134980	0.00000024	0.63776230	-0.26347065
At5g54290	-0.33745670	0.00000048	-0.50698710	-0.06608772
At5g54490	2.36441200	0.00000024	2.23795700	0.07663822
At5g54610	2.59593200	0.00000024	2.46999300	-0.11624646
At5g54830	0.29378033	0.00000000	0.40958643	0.03498626
At5g54840	1.06597190	0.00000000	0.66891384	-0.28862453
At5g54860	1.82532980	0.00000048	1.59943870	-0.17363548
At5g55130	0.55056430	0.00000000	0.53512480	-0.14410925

At5g55170	1.45379730	0.00000000	1.25479510	-0.38471174
At5g55530	0.39367342	-0.00000048	0.45463657	0.14053822
At5g55610	0.98152830	0.00000048	1.09798430	0.42139053
At5g55930	0.67086697	0.00000000	0.67882110	-0.27631617
At5g55960	-0.55316734	0.00000000	-0.41453838	0.20520020
At5g56260	0.85735035	0.00000048	0.85956097	0.21777344
At5g56610	0.94839644	0.00000024	0.79331780	0.12129664
At5g57030	-0.34779167	0.00000048	-0.42540407	0.27811003
At5g57220	3.28715660	0.00000000	2.68311880	-0.16887927
At5g58120	1.14295410	0.00000024	1.37432980	-0.14026070
At5g58220	0.59993840	0.00000000	0.49433756	-0.20662403
At5g58260	-1.04243610	0.00000000	-1.25596860	0.08558893
At5g58940	1.43252610	0.00000000	1.45309020	0.13762140
At5g59130	-0.93391680	0.00000000	-0.82224345	-0.09652710
At5g59140	0.49915123	0.00000000	0.48214626	-0.13142347
At5g59350	-0.86998770	-0.00000048	-0.57134030	0.17007160
At5g60280	1.99756500	0.00000000	1.68360520	-0.04690695
At5g60800	1.46523100	-0.00000024	1.54622410	-0.45229006
At5g60950	1.98747870	-0.00000024	1.95397420	-0.36725855
At5g61010	1.51339480	0.00000000	1.50389000	0.03489661
At5g61040	-0.30093740	0.00000024	-0.28707004	0.10465717
At5g61140	0.16837835	-0.00000024	0.17153430	-0.03258896
At5g61160	3.35763120	-0.00000024	2.53427170	-0.13627195
At5g61520	1.11980340	0.00000000	0.86553144	0.00378037
At5g61900	1.73136000	-0.00000024	1.59369750	-0.00154638
At5g62100	-0.39873457	0.00000000	-0.44780684	-0.12762380
At5g62140	-1.18220160	0.00000000	-1.06458710	0.27414465
At5g62360	-1.11128140	-0.00000048	-0.90370846	-0.21894836
At5g62580	-0.44414950	0.00000000	-0.29238940	0.04090309
At5g62670	-1.02564290	0.00000048	-1.16690160	-0.05327463
At5g62790	-0.64317894	0.00000048	-0.43561792	0.24347400

At5g62810	-0.38049412	0.00000000	-0.23133612	-0.02769041
At5g63030	0.73555994	-0.00000048	0.67719220	-0.00977898
At5g63490	0.94878197	0.00000000	1.07072210	0.23466635
At5g63680	1.85437110	0.00000000	1.62341830	0.38692093
At5g63780	-1.53823280	0.00000000	-1.32207680	-0.03734398
At5g64000	2.71046160	0.00000000	2.78803160	0.20324564
At5g64230	-0.66266180	0.00000024	-0.49950410	-0.31467152
At5g64400	0.92394020	0.00000000	0.76427030	0.04211998
At5g64510	2.62384220	-0.00000024	2.52183720	0.35806656
At5g64850	-1.11423970	0.00000000	-1.11319300	-0.03127527
At5g64860	-1.02123830	0.00000000	-0.86352970	-0.13586044
At5g64870	0.85410810	0.00000000	0.61707160	-0.16174603
At5g64905	1.50585460	-0.00000024	1.05160070	-0.15820813
At5g65140	1.24835060	0.00000000	1.10436300	0.28031445
At5g65220	-0.48779440	0.00000000	-0.43802547	0.07526350
At5g65600	0.97133830	-0.00000024	0.71196030	-0.20170999
At5g66140	0.72628546	0.00000000	0.93067360	0.30782747
At5g66520	-1.35016010	0.00000000	-1.35169170	0.02734375
At5g66640	1.61797570	0.00000000	1.62842300	-0.13027048
At5g66920	-0.57872176	-0.00000048	-0.46630670	0.04412317
At5g67260	-0.77406645	0.00000000	-0.71698380	0.10928011
At5g67310	2.84720040	-0.00000024	2.00131250	-0.06844091
At5g67340	2.21562900	-0.00000024	2.17448040	-0.03453255
At5g67370	-0.63876677	0.00000048	-0.76495886	0.47351074
At5g67420	-0.21533775	-0.00000048	-0.44110012	0.15643406
At5g67450	2.06582070	0.00000000	1.85523410	0.13921952

#de.mpg.mpi_inf.bioinf.netanalyzer Network Analysis 2.0

ImmuneInteractions (undirected)

#simple

15

cc Double 0.2038109666332212

ncc Integer 25

diameter Integer 6

radius Integer 1

centralization Double 0.3142630401846908

connPairs Long 3942

avSpl Double 2.0659563673262302

avNeighbors Double 2.142857142857143

nodeCount Integer 168

density Double 0.01283147989734816

heterogeneity Double 2.2451594020783334

usn Integer 0

nsl Integer 0

mnp Integer 81

time Double 0.156

#complex

degreeDist IntHistogram 86

0	0
1	69
2	43
3	35
4	7
5	1
6	1
7	1
8	2
9	2

10	0
11	1
12	1
13	0
14	2
15	1
16	0
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	1
32	0
33	0
34	0
35	0
36	0
37	0
38	0
39	0
40	0

41	0
42	0
43	0
44	0
45	0
46	0
47	0
48	0
49	0
50	0
51	0
52	0
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	0
62	0
63	0
64	0
65	0
66	0
67	0
68	0
69	0
70	0
71	0

72	0
73	0
74	0
75	0
76	0
77	0
78	0
79	0
80	0
81	0
82	0
83	0
84	0
85	1

cksDist Points2D 10

2	0.75
3	0.08333333333333333
4	0.16666666666666666
54	0.020964360587002098
5	0
6	0
7	0.047619047619047616
8	0.05357142857142857
9	0
31	0.06451612903225806

topCoefs Points2D 53

2	0.6
6	0.20833333333333334
7	0.2
2	0.5
2	0.5

2 0.6428571428571429
4 0.328125
3 0.3333333333333333
8 0.19642857142857142
4 0.3611111111111111
2 0.5454545454545454
4 0.3125
4 0.25
2 0.5
2 0.8333333333333334
3 0.6666666666666666
2 0.8333333333333334
2 0.5
9 0.1111111111111111
2 0.7870370370370371
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2 0.7870370370370371
31 0.06810035842293907
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2 0.7870370370370371
2 0.7870370370370371
54 0.05436081242532855
2 0.7870370370370371
2 0.5
2 0.5

splDist LongHistogram 6

1	360
2	3214
3	190
4	116
5	50
6	12

commNeighbors LongHistogram 30

1	1237
2	440
3	1
4	0
5	0
6	0

7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	1

neighborConn Points2D 11

8	20.625
1	#####
6	#####
54	#####
3	#####
9	#####

5	1
4	36.875
31	#####
7	#####
2	#####
nodeBetween Points2D 168	
1	0
2	0
3	1
1	0
3	1
1	0
1	0
1	0
1	0
1	0
1	0
1	0
1	0
3	1
1	0
2	0
2	0
2	0
2	0
2	0
1	0
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Γ3G55800|AT4G00550|AT3G45040|AT3G52430|AT2G06510|AT4G29040|AT1G24807|AT3G45640|AT2G13440|AT5G17990|AT5G52100|AT5G02100|AT:





AT5G26030 AT1G64060 AT2G38470 AT1G72520 AT3G63420 AT5G52100 AT4G12800 AT5G44140 AT1G75820 AT5G06960 AT5G05190 AT1G07890

3G22110|AT1G22300|AT3G47430|AT5G57220|AT1G71100|AT3G12290|AT1G78570|AT3G24170|AT1G15980|AT2G36250|AT1G56450|AT4G10340|AT4
4G29810|AT5G58220|AT5G26030|AT1G64060|AT2G38470|AT3G63420|AT5G61900|AT1G30270|AT2G38290|AT5G06960|AT1G07890|AT5G19690|AT5

1G16340|AT5G11770|AT1G08450|AT3G55800|AT4G23140|AT4G00550|AT3G45040|AT2G44520|AT2G39470|AT5G43940|AT2G06510|AT4G29040|AT1

1G18730|AT1G17160|AT5G24300|AT5G11670|AT3G09650|AT3G07370|AT1G16340|AT5G11770|AT1G08450|AT2G24850|AT5G37600|AT3G55800|AT4

3G04520|AT1G75820|AT3G60120|AT3G19480|AT5G40760|AT5G57030|AT1G02000|AT5G05730|AT5G24420|AT3G04120|AT3G12580





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.G14800|AT5G40580|AT1G71820|AT1G
.G05730|AT5G03630|AT3G04120|AT3G

G24807|AT1G64770|AT3G45640|AT2G

.G23140|AT4G00550|AT3G45040|AT2G





AT3G62410 AT2G46270 AT4G37520 AT2G36990 AT1G47250 AT5G23010 AT3G63010 AT3G61190 AT1G06290 AT3G25660 AT3G48090 AT5G45130



AT4G17360 AT3G04870 AT4G26270 AT5G62790 AT2G04400 AT1G01560 AT2G01590 AT1G29150 AT5G27600 AT4G25700 AT2G31570 AT4G33010





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