

**Transcriptomic analysis of resistant and susceptible banana corms  
in response to infection by *Fusarium oxysporum* f. sp. *cubense*  
tropical race 4**

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## The most enriched pathway terms

Statistic method: hypergeometric test

FDR correction method: Benjamini and Hochberg

Term	Sample number	Background number	P-value	Corrected P-value	UniGenes	KO	Entrez ID	Ensembl ID	Gene name
<a href="#">Plant-pathogen interaction</a>	85	130	6.3356598576e-07	7.53943523055e-05	Ma11_g08140	osa:4334782	4334782		
					Ma07_g01400	osa:4344344	4344344		
					Ma06_g09510	osa:4334172	4334172		
					Ma09_g13150	osa:4340367	4340367		
					Ma10_g17360	osa:4326027	4326027		
					Ma10_g16000	osa:4349899	4349899		
					Ma04_g05920	osa:4330957	4330957		
					Ma08_g01650	osa:4327518	4327518		
					Ma09_g21380	osa:4349484	4349484		
					Ma05_g28680	osa:4339240	4339240		
					Ma04_g22120	osa:4343373	4343373		
					Ma07_g12340	osa:4347000	4347000		
					Ma04_g22080	osa:4343373	4343373		
					Ma10_g27400	osa:4340126	4340126		
					Ma03_g04840	osa:4340367	4340367		
					Ma07_g21730	osa:4342596	4342596		
					Ma06_g22180	osa:4335698	4335698		
					Ma06_g01150	osa:4327518	4327518		
					Ma09_g23300	osa:4330957	4330957		
					Ma01_g04010	osa:4339240	4339240		
					Ma04_g24830	osa:4339751	4339751		
					Ma10_g06870	osa:4328953	4328953		
					Ma09_g05320	osa:4339397	4339397		
					Ma02_g03180	osa:4339172	4339172		
					Ma03_g09980	osa:4333065	4333065		
					Ma05_g19800	osa:4328155	4328155		
					Ma02_g23650	osa:4343899	4343899		
					Ma08_g31160	osa:4348062	4348062		
					Ma09_g15040	osa:4347000	4347000		
					Ma09_g24900	osa:4344525	4344525		
					Ma07_g21750	osa:4342596	4342596		
					Ma05_g24410	osa:4337240	4337240		
					Novel01290	osa:4343922	4343922		
					Ma01_g15260	osa:4343899	4343899		
					Ma06_g33550	osa:4339397	4339397		
					Ma09_g01180	osa:4329463	4329463		
					Ma09_g08840	osa:4336258	4336258		
					Ma05_g07880	osa:4325693	4325693		
					Ma08_g25400	osa:4337240	4337240		
					Ma09_g23200	osa:4345893	4345893		
					Ma06_g13290	osa:4326027	4326027		
					Ma10_g18410	osa:4335698	4335698		
					Ma09_g26340	osa:4342456	4342456		
					Ma03_g09720	osa:4327518	4327518		
					Ma01_g21300	osa:4344344	4344344		
					Ma09_g04810	osa:4332731	4332731		
					Ma05_g08710	osa:4344344	4344344		
					Ma06_g08310	osa:9270837	9270837		
					Ma10_g06370	osa:9267802	9267802		
					Ma04_g09630	osa:4337240	4337240		
					Ma10_g17370	osa:4326027	4326027		
					Ma08_g00140	osa:4325762	4325762		
					Ma10_g02730	osa:4333845	4333845		
					Ma05_g24500	osa:4333065	4333065		
					Ma01_g04260	osa:4328155	4328155		
					Ma04_g35240	osa:4325862	4325862		
					Ma03_g12680	osa:4334782	4334782		
					Ma05_g02560	osa:4352234	4352234		
					Ma06_g22230	osa:4329463	4329463		
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					Ma09_g08340	osa:4349899	4349899		
					Ma10_g03630	osa:4327518	4327518		
Ma05_g14170	osa:4325408	4325408							
Ma03_g29390	osa:4345893	4345893							
Ma03_g26590	osa:4344344	4344344							
Ma09_g05250	osa:4339751	4339751							
Ma04_g19290	osa:4325408	4325408							
Ma10_g19740	osa:4325762	4325762							
Ma02_g05200	osa:4330351	4330351							

					Ma11_g18140	osa:4327518	4327518		
					Ma11_g18400	osa:4346173	4346173		
					Ma01_g07590	osa:4326903	4326903		
					Ma08_g02160	osa:4338955	4338955		
					Ma05_g29940	osa:4327560	4327560		
					Ma04_g16760	osa:4349484	4349484		
					Ma06_g33600	osa:4339751	4339751		
					Ma01_g11500	osa:4334782	4334782		
					Ma06_g01310	osa:4334782	4334782		
					Ma07_g21360	osa:4333065	4333065		
					Ma02_g12910	osa:4330351	4330351		
					Ma09_g26940	osa:4334250	4334250		
					Ma01_g12160	osa:4349484	4349484		
					Ma07_g19020	osa:4342077	4342077		
					Ma06_g34370	osa:4327518	4327518		
					Ma01_g21640	osa:4325408	4325408		
					Ma04_g20370	osa:4334864	4334864		
					Ma09_g21380	osa:4349484	4349484		
					Ma11_g22080	osa:4332548	4332548		
					Ma09_g15040	osa:4347000	4347000		
					Ma04_g02770	osa:4325895	4325895		
					Ma02_g18450	osa:4327315	4327315		
					Ma09_g16910	osa:4332697	4332697		
					Ma07_g09020	osa:4327315	4327315		
					Ma02_g14470	osa:4352722	4352722		
					Ma03_g06930	osa:4347257	4347257		
					Ma07_g25420	osa:4339797	4339797		
					Ma09_g01070	osa:4335698	4335698		
					Ma02_g08720	osa:4349800	4349800		
					Ma06_g35720	osa:4324749	4324749		
					Ma07_g09130	osa:9270643	9270643		
					Ma05_g24410	osa:4337240	4337240		
					Ma06_g17510	osa:4339158	4339158		
					Ma01_g11950	osa:4349090	4349090		
					Ma01_g04450	osa:9271447	9271447		
					Ma07_g13570	osa:4339365	4339365		
					Ma05_g11100	osa:4329252	4329252		
					Ma01_g14850	osa:4333017	4333017		
					Ma02_g23650	osa:4343899	4343899		
					Ma02_g00520	osa:4344349	4344349		
					Ma10_g18410	osa:4335698	4335698		
					Ma08_g25810	osa:4339756	4339756		
					Ma01_g15260	osa:4343899	4343899		
					Ma08_g22320	osa:4332697	4332697		
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					Ma05_g24500	osa:4333065	4333065		
					Ma08_g22800	osa:4349742	4349742		
					Ma11_g22370	osa:4327465	4327465		
					Ma06_g30730	osa:4335937	4335937		
					Ma07_g10790	osa:4325895	4325895		
					Ma11_g16000	osa:4336520	4336520		
					Ma02_g24350	osa:4333860	4333860		
					Ma07_g21350	osa:4347154	4347154		
					Ma06_g14500	osa:4335877	4335877		
					Ma05_g31380	osa:4327465	4327465		
					Ma03_g31440	osa:4343785	4343785		
					Ma10_g21790	osa:4328916	4328916		
					Ma03_g31200	osa:4343719	4343719		
					Ma04_g16760	osa:4349484	4349484		
					Ma01_g12160	osa:4349484	4349484		
					Ma05_g10960	osa:4327590	4327590		
					Ma11_g20770	osa:4331518	4331518		
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					Ma03_g09980	osa:4333065	4333065		
					Ma05_g05370	osa:4345817	4345817		
					Ma02_g13450	osa:4332697	4332697		
					Ma08_g33950	osa:4337780	4337780		
					Ma08_g25400	osa:4337240	4337240		
					Ma04_g12040	osa:4334864	4334864		
					Ma06_g32210	osa:4347257	4347257		
					Ma09_g04540	osa:4332548	4332548		
					Ma08_g17700	osa:4333860	4333860		
					Ma08_g05340	osa:4327315	4327315		
					Ma05_g29830	osa:4338764	4338764		
					Ma07_g25770	osa:4329672	4329672		
					Ma02_g13090	osa:4327590	4327590		
					Ma07_g27910	osa:4343785	4343785		
					Ma11_g10390	osa:4335877	4335877		
					Ma04_g31240	osa:4349090	4349090		
					Ma09_g14850	osa:4330855	4330855		
					Ma03_g10900	osa:4347439	4347439		
					Ma09_g27550	osa:4331061	4331061		
					Ma11_g24520	osa:4338933	4338933		
					Ma05_g07890	osa:4349742	4349742		
					Ma10_g19630	osa:4333860	4333860		
					Ma06_g34440	osa:4332548	4332548		
<a href="#">Plant hormone signal transduction</a>	92	184	0.000520854457399	0.0256333619695					

					Ma10_g18590	osa:4343785	4343785		
					Ma07_g12340	osa:4347000	4347000		
					Ma07_g21360	osa:4333065	4333065		
					Ma08_g12900	osa:4335058	4335058		
					Ma06_g22180	osa:4335698	4335698		
					Ma03_g27100	osa:4327315	4327315		
					Ma09_g26000	osa:4352721	4352721		
					Ma04_g15670	osa:4339756	4339756		
					Ma10_g26870	osa:4328647	4328647		
					Ma04_g08500	osa:4339756	4339756		
					Ma09_g27730	osa:4347257	4347257		
					Ma11_g23440	osa:4332697	4332697		
					Ma11_g06370	osa:4352722	4352722		
					Ma04_g10570	osa:4325895	4325895		
					Ma04_g27640	osa:4352722	4352722		
					Ma08_g02160	osa:4338955	4338955		
					Ma05_g15140	osa:4349090	4349090		
					Ma05_g22010	osa:4334864	4334864		
					Ma04_g38570	osa:4325503	4325503		
					Ma05_g24620	osa:4328277	4328277		
					Ma02_g02830	osa:4325078	4325078		
					Ma06_g37840	osa:4324691	4324691		
					Ma08_g33280	osa:4325067	4325067		
					Ma10_g17260	osa:4343523	4343523		
					Ma03_g20800	osa:4340547	4340547		
					Ma11_g19280	osa:4344045	4344045		
					Ma09_g06710	osa:4339645	4339645		
					Ma07_g28490	osa:4352223	4352223		
					Ma06_g14390	osa:4337818	4337818		
					Ma10_g15940	osa:4324554	4324554		
					Ma10_g28640	osa:4340677	4340677		
					Ma06_g21190	osa:4337048	4337048		
					Ma11_g08300	osa:4336216	4336216		
					Ma07_g11340	osa:4348582	4348582		
					Ma09_g30120	osa:4337482	4337482		
					Ma02_g07020	osa:4347074	4347074		
					Ma08_g28660	osa:4333107	4333107		
					Ma06_g30180	osa:4350358	4350358		
					Ma10_g27460	osa:4327329	4327329		
					Ma07_g24940	osa:4344470	4344470		
					Ma04_g37810	osa:4333932	4333932		
					Ma09_g11280	osa:4348138	4348138		
					Ma09_g03450	osa:4332375	4332375		
					Ma06_g27120	osa:4329593	4329593		
					Ma06_g31980	osa:4350476	4350476		
					Ma08_g33830	osa:4328446	4328446		
					Ma09_g07380	osa:4332341	4332341		
					Ma10_g18160	osa:4332014	4332014		
					Ma09_g20310	osa:4331152	4331152		
					Ma06_g24480	osa:4332771	4332771		
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					Ma10_g25720	osa:4345657	4345657		
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					Ma05_g15910	osa:4333177	4333177		
					Ma11_g15760	osa:4343080	4343080		
					Ma06_g09580	osa:4346136	4346136		
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					Ma05_g22300	osa:4349897	4349897		
					Ma08_g06060	osa:4337733	4337733		
					Ma06_g17200	osa:4344386	4344386		
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					Ma03_g16060	osa:4332151	4332151		
					Ma06_g21530	osa:4325444	4325444		
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					Ma07_g28480	osa:4352223	4352223		
					Ma10_g24940	osa:4347311	4347311		
					Ma03_g00220	osa:4331150	4331150		
					Ma10_g17210	osa:4352042	4352042		
					Ma02_g22450	osa:4324557	4324557		
					Ma04_g12630	osa:4341663	4341663		
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					Ma04_g29400	osa:4333566	4333566		
					Ma03_g09880	osa:4332519	4332519		
					Ma03_g27870	osa:4347691	4347691		
					Ma10_g10490	osa:4329593	4329593		
					Ma05_g21330	osa:4327981	4327981		
					Ma04_g07860	osa:4327859	4327859		
					Ma08_g11970	osa:4336753	4336753		
Biosynthesis of secondary metabolites	312	779	0.000646219209314	0.0256333619695					

Ma10_g20560	osa:4350636	4350636
Ma07_g09220	osa:4341249	4341249
Ma08_g33290	osa:4325067	4325067
Ma09_g25700	osa:4340240	4340240
Ma04_g11650	osa:4324809	4324809
Ma06_g14310	osa:4351698	4351698
Ma08_g08880	osa:4346159	4346159
Ma05_g00310	osa:4341792	4341792
Ma01_g21520	osa:4344496	4344496
Ma03_g26140	osa:4338768	4338768
Ma08_g06070	osa:4352549	4352549
Ma09_g20570	osa:4337406	4337406
Ma07_g28090	osa:4333156	4333156
Ma07_g06700	osa:4349111	4349111
Ma06_g29250	osa:4332041	4332041
Ma01_g17990	osa:4343721	4343721
Ma06_g28330	osa:4339812	4339812
Ma05_g16190	osa:4331917	4331917
Ma04_g18620	osa:4334912	4334912
Ma03_g05400	osa:4329329	4329329
Ma11_g23980	osa:4344934	4344934
Ma10_g23920	osa:4345689	4345689
Ma10_g16100	osa:4337818	4337818
Ma04_g10090	osa:4326266	4326266
Ma08_g29910	osa:4350053	4350053
Ma07_g02100	osa:4337733	4337733
Ma03_g06130	osa:4340240	4340240
Ma01_g20320	osa:4327172	4327172
Ma03_g11800	osa:4346529	4346529
Ma05_g23060	osa:4349318	4349318
Ma09_g07020	osa:4352058	4352058
Ma02_g21000	osa:4332373	4332373
Ma08_g03130	osa:4333898	4333898
Ma02_g09950	osa:4350053	4350053
Ma06_g35790	osa:4324810	4324810
Ma04_g38030	osa:4333566	4333566
Ma07_g10560	osa:4327301	4327301
Ma06_g16590	osa:4324619	4324619
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Ma05_g01700	osa:4346642	4346642
Ma05_g25700	osa:4327423	4327423
Ma06_g24910	osa:4339677	4339677
Ma04_g02590	osa:4332425	4332425
Ma04_g10150	osa:4345689	4345689
Ma06_g29240	osa:4332041	4332041
Ma09_g07280	osa:4329858	4329858
Ma04_g03820	osa:4335430	4335430
Ma08_g19500	osa:4335756	4335756
Ma08_g20630	osa:4342508	4342508
Ma09_g09840	osa:4324282	4324282
Ma07_g28080	osa:4333156	4333156
Ma02_g18360	osa:4327301	4327301
Ma05_g04020	osa:4336116	4336116
Ma04_g32180	osa:4332236	4332236
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Ma06_g10250	osa:4338409	4338409
Ma03_g03600	osa:4328168	4328168
Ma09_g14520	osa:4347311	4347311
Ma06_g14410	osa:4337818	4337818
Ma06_g01670	osa:4338802	4338802
Novel01132	osa:4324282	4324282
Ma01_g03570	osa:4340042	4340042
Ma11_g15660	osa:4348804	4348804
Ma04_g32060	osa:4331540	4331540
Ma08_g05120	osa:4342988	4342988
Ma09_g23330	osa:4328485	4328485
Ma11_g16750	osa:4341770	4341770
Ma11_g19740	osa:4330012	4330012
Ma06_g09780	osa:4350636	4350636
Ma02_g24860	osa:4350636	4350636
Ma08_g30510	osa:4344267	4344267
Ma05_g27310	osa:4347520	4347520
Ma05_g27700	osa:4336216	4336216
Ma01_g17610	osa:4337406	4337406
Ma05_g30490	osa:4332519	4332519
Ma11_g17540	osa:4336216	4336216
Ma04_g35390	osa:4349454	4349454
Ma03_g00730	osa:9266710	9266710
Ma04_g31940	osa:4330090	4330090
Ma03_g12070	osa:4331418	4331418
Ma09_g12600	osa:4330747	4330747
Ma06_g12620	osa:4334188	4334188
Ma06_g01900	osa:4341792	4341792

Ma10_g14250	osa:4332425	4332425
Ma06_g07590	osa:4333918	4333918
Ma05_g20810	osa:4332477	4332477
Ma09_g24170	osa:4337437	4337437
Ma02_g14780	osa:4333566	4333566
Ma05_g05050	osa:4340042	4340042
Ma08_g29310	osa:4329889	4329889
Ma06_g11320	osa:4325687	4325687
Ma09_g21880	osa:4339535	4339535
Ma06_g23970	osa:4326635	4326635
Ma08_g04920	osa:4332153	4332153
Ma06_g38960	osa:4336353	4336353
Ma09_g02110	osa:4336216	4336216
Ma01_g02270	osa:4342142	4342142
Ma08_g24890	osa:4330711	4330711
Ma08_g27070	osa:4332134	4332134
Ma04_g31690	osa:4331611	4331611
Ma08_g28590	osa:4324398	4324398
Novel00760	osa:4324442	4324442
Ma11_g21050	osa:4330016	4330016
Ma05_g24340	osa:4341967	4341967
Ma03_g05860	osa:4329701	4329701
Ma05_g29980	osa:4349683	4349683
Ma07_g22000	osa:4345962	4345962
Ma07_g06220	osa:4345284	4345284
Ma05_g31950	osa:4351300	4351300
Ma06_g13460	osa:4352042	4352042
Novel01419	osa:4324282	4324282
Ma03_g28580	osa:4339885	4339885
Ma11_g04940	osa:4348304	4348304
Ma07_g11510	osa:4331893	4331893
Ma03_g05380	osa:4329324	4329324
Ma09_g19150	osa:4336750	4336750
Ma03_g06120	osa:4340725	4340725
Ma02_g13970	osa:4328168	4328168
Ma09_g23530	osa:4336928	4336928
Ma04_g07830	osa:4327859	4327859
Ma05_g18650	osa:4329532	4329532
Novel01203	osa:4334425	4334425
Ma01_g16200	osa:4332563	4332563
Ma10_g25840	osa:4332174	4332174
Ma10_g20600	osa:4350636	4350636
Ma03_g31530	osa:4352146	4352146
Ma04_g01300	osa:4352871	4352871
Ma08_g15070	osa:4348230	4348230
Ma08_g14810	osa:4349044	4349044
Ma05_g16480	osa:4332311	4332311
Ma06_g30380	osa:4329938	4329938
Ma06_g08130	osa:4352058	4352058
Ma09_g13580	osa:4329329	4329329
Ma05_g18090	osa:4344854	4344854
Ma06_g31540	osa:4352747	4352747
Ma04_g23630	osa:9267465	9267465
Ma10_g05100	osa:4326901	4326901
Ma11_g15810	osa:4330012	4330012
Ma04_g25530	osa:4331130	4331130
Ma06_g16100	osa:4341249	4341249
Ma06_g35980	osa:4332375	4332375
Ma01_g14880	osa:4343946	4343946
Ma09_g14110	osa:4341997	4341997
Ma03_g32060	osa:4334116	4334116
Ma10_g12270	osa:4350614	4350614
Ma03_g03400	osa:4341249	4341249
Ma09_g08470	osa:4329593	4329593
Ma08_g04450	osa:4348656	4348656
Ma04_g04720	osa:4342117	4342117
Novel00441	osa:4341792	4341792
Ma03_g06970	osa:4330843	4330843
Ma03_g01370	osa:4325687	4325687
Ma07_g01260	osa:4333566	4333566
Ma08_g33410	osa:4335756	4335756
Ma11_g13600	osa:4332563	4332563
Ma11_g24010	osa:4328439	4328439
Ma06_g28940	osa:4339718	4339718
Ma07_g06750	osa:4328012	4328012
Ma04_g07660	osa:4328124	4328124
Ma10_g09700	osa:4334425	4334425
Ma05_g27130	osa:4328684	4328684
Ma08_g04900	osa:4332153	4332153
Ma06_g15020	osa:4351698	4351698
Ma01_g03820	osa:4343453	4343453
Ma10_g16940	osa:4336153	4336153
Ma10_g20860	osa:4336960	4336960
Ma06_g19750	osa:4344496	4344496
Ma08_g10630	osa:4337732	4337732
Ma10_g14440	osa:4325563	4325563
Ma05_g31060	osa:4325211	4325211

					Ma04_g22350	osa:4332236	4332236		
					Ma06_g17860	osa:4324261	4324261		
					Ma06_g16060	osa:4341249	4341249		
					Ma01_g21440	osa:4347520	4347520		
					Ma07_g28990	osa:4342690	4342690		
					Ma07_g13520	osa:4327301	4327301		
					Ma03_g16830	osa:4340025	4340025		
					Ma03_g17510	osa:4339892	4339892		
					Ma11_g24610	osa:4350636	4350636		
					Ma03_g02700	osa:4337818	4337818		
					Ma07_g22060	osa:4336146	4336146		
					Ma08_g32440	osa:4337265	4337265		
					Ma07_g11120	osa:4332174	4332174		
					Ma10_g26330	osa:4327178	4327178		
					Ma05_g05920	osa:4340090	4340090		
					Ma01_g01610	osa:4349114	4349114		
					Ma08_g33300	osa:4325067	4325067		
					Ma09_g29570	osa:4329101	4329101		
					Ma08_g25110	osa:4336146	4336146		
					Ma07_g06760	osa:4328012	4328012		
					Ma08_g01380	osa:4337100	4337100		
					Ma04_g36760	osa:4340251	4340251		
					Ma01_g20340	osa:4325067	4325067		
					Ma03_g03630	osa:9266241	9266241		
					Ma09_g06900	osa:4332041	4332041		
					Ma01_g00130	osa:4346656	4346656		
					Ma11_g05360	osa:4338560	4338560		
					Ma07_g09040	osa:4341325	4341325		
					Ma03_g29220	osa:4341663	4341663		
					Ma10_g08510	osa:4347717	4347717		
					Ma02_g05120	osa:4340026	4340026		
					Ma09_g24600	osa:4347691	4347691		
					Ma11_g15990	osa:4349097	4349097		
					Ma03_g14690	osa:4328073	4328073		
					Ma10_g13290	osa:4344386	4344386		
					Ma02_g04920	osa:4341861	4341861		
					Ma06_g10290	osa:4351300	4351300		
					Ma06_g14670	osa:4334535	4334535		
					Ma03_g15360	osa:4338718	4338718		
					Ma02_g14500	osa:4352791	4352791		
					Ma10_g11420	osa:4335756	4335756		
					Ma08_g16120	osa:4349897	4349897		
					Ma09_g31400	osa:4348690	4348690		
					Ma07_g11500	osa:4331893	4331893		
					Ma07_g12740	osa:4349723	4349723		
					Ma10_g27820	osa:4341247	4341247		
					Ma05_g14980	osa:4342614	4342614		
					Ma04_g05290	osa:4351300	4351300		
					Ma10_g28390	osa:4341445	4341445		
					Ma01_g20350	osa:4325067	4325067		
					Ma11_g21180	osa:4336415	4336415		
					Ma09_g06650	osa:4339718	4339718		
					Ma01_g14940	osa:4331917	4331917		
					Ma06_g01700	osa:4324914	4324914		
					Ma03_g13720	osa:4331150	4331150		
					Ma03_g16650	osa:4339812	4339812		
					Ma11_g02800	osa:4336753	4336753		
					Ma05_g23890	osa:4338560	4338560		
					Ma08_g14830	osa:4332286	4332286		
					Ma06_g14370	osa:4337818	4337818		
					Ma10_g12590	osa:4329518	4329518		
					Ma03_g13910	osa:4346726	4346726		
					Ma01_g19240	osa:4341792	4341792		
					Ma00_g05010	osa:4335335	4335335		
					Ma05_g05010	osa:4340725	4340725		
					Ma06_g09160	osa:4329532	4329532		
					Ma11_g23060	osa:4343164	4343164		
					Ma02_g01570	osa:4334841	4334841		
					Ma06_g00500	osa:4328118	4328118		
					Ma04_g13550	osa:4335430	4335430		
					Ma09_g21200	osa:4328124	4328124		
					Ma03_g16840	osa:4340025	4340025		
					Ma10_g20580	osa:4350636	4350636		
					Ma10_g18290	osa:4352146	4352146		
					Ma02_g23910	osa:4343975	4343975		
					Ma04_g01750	osa:4330753	4330753		
					Ma04_g04720	osa:4342117	4342117		
					Ma02_g24020	osa:4330753	4330753		
					Ma10_g28640	osa:4340677	4340677		
					Ma07_g22060	osa:4336146	4336146		
					Ma03_g05660	osa:4345722	4345722		
					Ma08_g25110	osa:4336146	4336146		
					Ma04_g18460	osa:4330975	4330975		
					Ma08_g28660	osa:4333107	4333107		
					Ma02_g20450	osa:4349333	4349333		
					Ma04_g40060	osa:4325861	4325861		
<a href="#">Starch and sucrose metabolism</a>	72	145	0.00228365097945	0.0679386166387					

					Ma07_g11010 Ma09_g06900 Ma05_g13530 Ma03_g07150 Ma10_g15780 Ma05_g18650 Ma02_g23730 Ma11_g05360 Ma06_g29240 Ma03_g01820 Ma03_g31530 Ma08_g34870 Ma07_g28080 Ma04_g06090 Ma11_g14380 Ma10_g19040 Ma07_g06220 Ma09_g20960 Ma03_g28390 Ma09_g14520 Ma04_g39130 Ma07_g02790 Ma11_g08450 Ma06_g29250 Ma06_g04440 Ma08_g23170 Ma10_g16460 Ma03_g32060 Ma05_g08040 Ma05_g15200 Ma03_g19950 Ma11_g24070 Ma09_g06650 Novel01421 Ma08_g28360 Ma04_g22000 Ma04_g20070 Ma02_g20460 Ma03_g15100 Ma06_g28940 Ma04_g31170 Ma05_g23890 Ma05_g05600 Ma10_g24460 Ma06_g32030 Ma01_g00130 Ma09_g12560 Ma08_g00910 Ma04_g16060 Ma08_g15070 Ma06_g09160 Ma07_g28090 Ma05_g13480 Ma08_g23180 Ma10_g24940 Ma05_g10310 Ma10_g15800 Ma06_g16590 Ma10_g18290 Ma06_g35790	osa:4346981 osa:4332041 osa:4344268 osa:4347265 osa:4335789 osa:4329532 osa:4343910 osa:4338560 osa:4332041 osa:4343910 osa:4352146 osa:4352536 osa:4333156 osa:4345220 osa:4344268 osa:4330753 osa:4345284 osa:4335447 osa:4347903 osa:4347311 osa:4334171 osa:4346094 osa:4324962 osa:4332041 osa:4337166 osa:4345722 osa:4324962 osa:4334116 osa:4347265 osa:4349333 osa:4327285 osa:4341824 osa:4339718 osa:4347265 osa:4324621 osa:4335737 osa:4349333 osa:4349333 osa:4335447 osa:4339718 osa:4349333 osa:4338560 osa:4340579 osa:4330753 osa:4330753 osa:4346656 osa:4330753 osa:4346094 osa:4324962 osa:4348230 osa:4329532 osa:4333156 osa:4349333 osa:4332788 osa:4347311 osa:4347262 osa:4335789 osa:4324619 osa:4352146 osa:4324810	4346981 4332041 4344268 4347265 4335789 4329532 4343910 4338560 4332041 4343910 4352146 4352536 4333156 4345220 4344268 4330753 4345284 4335447 4347903 4347311 4334171 4346094 4324962 4332041 4337166 4345722 4324962 4334116 4347265 4349333 4327285 4341824 4339718 4347265 4324621 4335737 4349333 4349333 4335447 4339718 4349333 4338560 4340579 4330753 4330753 4346656 4330753 4346094 4324962 4348230 4329532 4333156 4349333 4332788 4347311 4347262 4335789 4324619 4352146 4324810		
<a href="#">Flavonoid biosynthesis</a>	16	19	0.00496398077969	0.118142742557	Ma03_g05400 Ma09_g25700 Ma11_g24610 Ma03_g06130 Ma06_g09780 Ma10_g20600 Ma02_g24860 Ma05_g16480 Ma11_g04940 Ma06_g10250 Ma03_g05380 Ma03_g06970 Ma09_g13580 Ma08_g01380 Ma10_g20580 Ma10_g20560	osa:4329329 osa:4340240 osa:4350636 osa:4340240 osa:4350636 osa:4350636 osa:4350636 osa:4332311 osa:4348304 osa:4338409 osa:4329324 osa:4330843 osa:4329329 osa:4337100 osa:4350636 osa:4350636	4329329 4340240 4350636 4340240 4350636 4350636 4350636 4332311 4348304 4338409 4329324 4330843 4329329 4337100 4350636 4350636		
<a href="#">Biosynthesis of amino acids</a>	92	207	0.00750037243971	0.148757386721	Ma08_g07480 Ma03_g20800 Ma04_g04160 Ma11_g08300 Ma07_g11340 Novel00240 Ma09_g07380 Ma05_g15910 Ma08_g06060 Ma11_g14450	osa:4325027 osa:4340547 osa:4337230 osa:4336216 osa:4348582 osa:4337230 osa:4332341 osa:4333177 osa:4337733 osa:4352839	4325027 4340547 4337230 4336216 4348582 4337230 4332341 4333177 4337733 4352839		



					Ma06_g21530	osa:4325444	4325444		
					Ma00_g04030	osa:4330649	4330649		
					Ma08_g28170	osa:4324655	4324655		
					Ma04_g28070	osa:4352833	4352833		
					Ma10_g11420	osa:4335756	4335756		
					Ma03_g03600	osa:4328168	4328168		
					Ma03_g16060	osa:4332151	4332151		
					Ma09_g26210	osa:4352839	4352839		
					Ma05_g00310	osa:4341792	4341792		
					Ma05_g01700	osa:4346642	4346642		
					Ma09_g20570	osa:4337406	4337406		
					Novel01132	osa:4324282	4324282		
					Ma04_g18620	osa:4334912	4334912		
					Ma07_g02100	osa:4337733	4337733		
					Ma06_g08130	osa:4352058	4352058		
					Ma03_g11800	osa:4346529	4346529		
					Ma11_g23060	osa:4343164	4343164		
					Ma08_g03130	osa:4333898	4333898		
					Novel01419	osa:4324282	4324282		
					Ma07_g10560	osa:4327301	4327301		
					Ma09_g29570	osa:4329101	4329101		
					Ma03_g32130	osa:4334101	4334101		
					Ma03_g16070	osa:4339583	4339583		
					Ma09_g07280	osa:4329858	4329858		
					Ma04_g03820	osa:4335430	4335430		
					Ma09_g09840	osa:4324282	4324282		
					Ma08_g33830	osa:4328446	4328446		
					Ma02_g18360	osa:4327301	4327301		
					Ma05_g21880	osa:4335048	4335048		
					Ma08_g14830	osa:4332286	4332286		
					Ma01_g03570	osa:4340042	4340042		
					Ma05_g27700	osa:4336216	4336216		
					Ma04_g35390	osa:4349454	4349454		
					Ma02_g08140	osa:4350964	4350964		
					Ma08_g19500	osa:4335756	4335756		
					Ma09_g12600	osa:4330747	4330747		
					Ma06_g12620	osa:4334188	4334188		
					Ma06_g01900	osa:4341792	4341792		
					Ma06_g07590	osa:4333918	4333918		
					Ma06_g26610	osa:4331941	4331941		
					Ma05_g20810	osa:4332477	4332477		
					Ma05_g31060	osa:4325211	4325211		
					Ma11_g17540	osa:4336216	4336216		
					Ma06_g38960	osa:4336353	4336353		
					Ma09_g02110	osa:4336216	4336216		
					Ma03_g21060	osa:4330649	4330649		
					Ma08_g28590	osa:4324398	4324398		
					Novel00760	osa:4324442	4324442		
					Ma06_g24910	osa:4339677	4339677		
					Ma08_g02290	osa:4338979	4338979		
					Ma09_g07020	osa:4352058	4352058		
					Ma01_g19240	osa:4341792	4341792		
					Ma01_g16200	osa:4332563	4332563		
					Ma06_g30380	osa:4329938	4329938		
					Ma04_g27940	osa:4334101	4334101		
					Ma11_g07780	osa:4341713	4341713		
					Ma07_g13520	osa:4327301	4327301		
					Ma01_g14880	osa:4343946	4343946		
					Ma05_g22300	osa:4349897	4349897		
					Ma08_g16120	osa:4349897	4349897		
					Ma11_g20920	osa:4348176	4348176		
					Novel00441	osa:4341792	4341792		
					Ma08_g33410	osa:4335756	4335756		
					Ma11_g13600	osa:4332563	4332563		
					Ma10_g07330	osa:4341713	4341713		
					Ma10_g09700	osa:4334425	4334425		
					Ma11_g07790	osa:4337230	4337230		
					Ma01_g17610	osa:4337406	4337406		
					Ma02_g13970	osa:4328168	4328168		
					Novel01203	osa:4334425	4334425		
					Ma06_g17860	osa:4324261	4324261		
					Ma03_g16830	osa:4340025	4340025		
					Ma05_g05050	osa:4340042	4340042		
					Ma03_g27870	osa:4347691	4347691		
					Ma10_g08510	osa:4347717	4347717		
					Ma02_g05120	osa:4340026	4340026		
					Ma09_g24600	osa:4347691	4347691		
					Ma07_g12740	osa:4349723	4349723		
					Ma02_g11180	osa:4339425	4339425		
					Ma02_g18420	osa:4341321	4341321		
					Ma04_g13550	osa:4335430	4335430		
					Ma03_g16840	osa:4340025	4340025		
					Ma03_g05400	osa:4329329	4329329		
					Ma04_g25530	osa:4331130	4331130		
					Ma08_g29910	osa:4350053	4350053		
					Ma07_g11500	osa:4331893	4331893		
Degradation of aromatic compounds	11	12	0.012695145403	0.198165049352					

					Ma09_g08110 Ma06_g10250 Ma03_g05380 Ma02_g09950 Ma09_g13580 Ma04_g31940 Ma07_g11510	osa:4350053 osa:4338409 osa:4329324 osa:4350053 osa:4329329 osa:4330090 osa:4331893	4350053 4338409 4329324 4350053 4329329 4330090 4331893		
<a href="#">alpha-Linolenic acid metabolism</a>	21	33	0.0133220201245	0.198165049352	Ma08_g23400 Ma03_g17130 Ma03_g07770 Novel01373 Ma03_g11520 Ma08_g14010 Ma04_g02560 Ma11_g15660 Ma02_g24010 Ma03_g33110 Ma07_g02270 Ma02_g22720 Ma09_g12090 Ma04_g38880 Ma09_g18930 Ma02_g15160 Ma09_g15420 Ma07_g11670 Ma03_g00220 Ma06_g15030 Ma03_g13720	osa:4331824 osa:4333201 osa:4331824 osa:4339846 osa:4328603 osa:4331515 osa:4333201 osa:4348804 osa:4340986 osa:4333201 osa:4345762 osa:4340485 osa:4345994 osa:4334233 osa:4352160 osa:4334233 osa:4331824 osa:4333862 osa:4331150 osa:4328040 osa:4331150	4331824 4333201 4331824 4339846 4328603 4331515 4333201 4348804 4340986 4333201 4345762 4340485 4345994 4334233 4352160 4334233 4331824 4333862 4331150 4328040 4331150		
<a href="#">Amino sugar and nucleotide sugar metabolism</a>	46	103	0.0450392112642	0.573630420867	Ma03_g03630 Ma05_g24340 Ma08_g33300 Ma10_g24940 Ma05_g29980 Ma10_g28640 Ma07_g06220 Ma04_g18460 Ma02_g04620 Ma01_g20320 Ma02_g21000 Ma01_g20340 Ma06_g31980 Ma08_g15070 Ma01_g00130 Ma10_g14250 Ma08_g33280 Ma10_g18160 Ma03_g31530 Ma07_g16390 Ma07_g28080 Ma11_g23980 Ma09_g14520 Ma07_g02790 Ma11_g08450 Ma04_g23630 Ma06_g04440 Ma10_g16460 Ma01_g20350 Ma09_g06650 Ma03_g15360 Ma06_g28940 Ma08_g33290 Ma05_g05600 Ma06_g28330 Ma09_g24170 Ma04_g02590 Ma03_g16650 Ma08_g00910 Ma04_g16060 Ma06_g01670 Ma07_g28090 Ma09_g23530 Ma06_g01700 Ma10_g18290 Ma08_g28660	osa:9266241 osa:4341967 osa:4325067 osa:4347311 osa:4349683 osa:4340677 osa:4345284 osa:4330975 osa:4340050 osa:4327172 osa:4332373 osa:4325067 osa:4350476 osa:4348230 osa:4346656 osa:4332425 osa:4325067 osa:4332014 osa:4352146 osa:4350476 osa:4333156 osa:4344934 osa:4347311 osa:4346094 osa:4324962 osa:9267465 osa:4337166 osa:4324962 osa:4325067 osa:4339718 osa:4338718 osa:4339718 osa:4325067 osa:4340579 osa:4339812 osa:4337437 osa:4332425 osa:4339812 osa:4346094 osa:4324962 osa:4338802 osa:4333156 osa:4336928 osa:4324914 osa:4352146 osa:4333107	9266241 4341967 4325067 4347311 4349683 4340677 4345284 4330975 4340050 4327172 4332373 4325067 4350476 4348230 4346656 4332425 4325067 4332014 4352146 4350476 4333156 4344934 4347311 4346094 4324962 9267465 4337166 4324962 4325067 4339718 4338718 4339718 4325067 4340579 4339812 4337437 4332425 4339812 4346094 4324962 4338802 4333156 4336928 4324914 4352146 4333107		
<a href="#">Zeatin biosynthesis</a>	10	14	0.0482042370477	0.573630420867	Ma05_g21640 Ma07_g08820 Ma09_g21880 Ma04_g23150 Ma08_g03900 Ma03_g08660 Ma08_g23380 Ma01_g02270 Ma04_g21780 Ma09_g16350	osa:4348932 osa:4327887 osa:4339535 osa:4336629 osa:4348932 osa:4326515 osa:4326515 osa:4342142 osa:4348932 osa:4326515	4348932 4327887 4339535 4336629 4348932 4326515 4326515 4342142 4348932 4326515		

<a href="#">Carotenoid biosynthesis</a>	15	26	0.056975480684	0.616371109218	Ma11_g07140 Ma11_g02800 Ma09_g20310 Ma10_g17210 Ma04_g28360 Ma04_g00620 Ma08_g16510 Ma06_g13460 Ma07_g01260 Ma04_g29400 Ma02_g14780 Ma04_g38030 Ma06_g14670 Ma09_g14710 Ma08_g11970	osa:4342137 osa:4336753 osa:4331152 osa:4352042 osa:4347261 osa:4335984 osa:4331854 osa:4352042 osa:4333566 osa:4333566 osa:4333566 osa:4333566 osa:4333566 osa:4334535 osa:4347261 osa:4336753	4342137 4336753 4331152 4352042 4347261 4335984 4331854 4352042 4333566 4333566 4333566 4333566 4334535 4347261 4336753		
<a href="#">Cysteine and methionine metabolism</a>	38	85	0.0631406540487	0.618522934881	Ma06_g22100 Ma10_g16100 Ma07_g27160 Ma07_g02100 Ma06_g14390 Ma03_g02700 Ma07_g20920 Ma09_g29570 Ma09_g19150 Ma07_g06760 Ma06_g05530 Ma03_g32130 Ma06_g14410 Ma05_g25700 Ma09_g13000 Ma10_g25720 Ma04_g01300 Ma06_g31540 Ma08_g06060 Ma03_g04640 Ma04_g27940 Ma11_g14450 Ma08_g28170 Ma04_g28070 Ma08_g04450 Ma09_g01600 Ma05_g21880 Ma02_g11180 Ma06_g14400 Ma06_g12620 Ma07_g06750 Ma06_g14370 Ma02_g18420 Ma06_g26610 Ma09_g26210 Ma05_g01700 Ma04_g06200 Ma05_g26570	osa:4350524 osa:4337818 osa:4331707 osa:4337733 osa:4337818 osa:4337818 osa:4329955 osa:4329101 osa:4336750 osa:4328012 osa:4329955 osa:4334101 osa:4337818 osa:4327423 osa:4347103 osa:4345657 osa:4352871 osa:4352747 osa:4337733 osa:4329955 osa:4334101 osa:4352839 osa:4324655 osa:4352833 osa:4348656 osa:4350455 osa:4335048 osa:4339425 osa:4337818 osa:4334188 osa:4328012 osa:4337818 osa:4341321 osa:4331941 osa:4352839 osa:4346642 osa:4342996 osa:4329955	4350524 4337818 4331707 4337733 4337818 4337818 4329955 4329101 4336750 4328012 4329955 4334101 4337818 4327423 4347103 4345657 4352871 4352747 4337733 4329955 4334101 4352839 4324655 4352833 4348656 4350455 4335048 4339425 4337818 4334188 4328012 4337818 4341321 4331941 4352839 4346642 4342996 4329955		
<a href="#">Glycolysis / Gluconeogenesis</a>	50	119	0.0747531448936	0.618522934881	Ma08_g07480 Ma10_g12590 Ma08_g29910 Ma07_g13520 Ma05_g00310 Ma10_g28640 Ma04_g25530 Ma11_g08300 Ma07_g11340 Ma05_g30490 Ma07_g10560 Ma07_g06760 Ma09_g11280 Ma08_g15070 Ma08_g33830 Ma07_g12740 Ma11_g20920 Ma03_g27870 Ma09_g24600 Ma02_g18360 Novel00441 Ma09_g14520 Ma01_g19240 Ma01_g03570 Ma08_g32440 Ma07_g11500 Ma11_g16750 Ma05_g22300 Ma08_g16120 Ma05_g27700 Ma09_g08110 Ma03_g09880	osa:4325027 osa:4329518 osa:4350053 osa:4327301 osa:4341792 osa:4340677 osa:4331130 osa:4336216 osa:4348582 osa:4332519 osa:4327301 osa:4328012 osa:4348138 osa:4348230 osa:4328446 osa:4349723 osa:4348176 osa:4347691 osa:4347691 osa:4327301 osa:4341792 osa:4347311 osa:4341792 osa:4340042 osa:4337265 osa:4331893 osa:4341770 osa:4349897 osa:4349897 osa:4336216 osa:4350053 osa:4332519	4325027 4329518 4350053 4327301 4341792 4340677 4331130 4336216 4348582 4332519 4327301 4328012 4348138 4348230 4328446 4349723 4348176 4347691 4347691 4327301 4341792 4347311 4341792 4340042 4337265 4331893 4341770 4349897 4349897 4336216 4350053 4332519		

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<a href="#">Pentose and glucuronate interconversions</a>	20	41	0.0899779708502	0.618522934881	Ma05_g13530 Ma05_g05010 Ma08_g23170 Ma05_g24340 Ma03_g05660 Ma08_g34870 Ma04_g26280 Ma04_g33260 Ma03_g31530 Ma03_g06120 Ma07_g28080 Ma07_g28090 Ma03_g19950 Ma03_g13710 Ma03_g08830 Ma04_g40060 Ma03_g00210 Ma11_g14380 Ma10_g18290 Ma04_g26260	osa:4344268 osa:4340725 osa:4345722 osa:4341967 osa:4345722 osa:4352536 osa:4346217 osa:4335013 osa:4352146 osa:4340725 osa:4333156 osa:4333156 osa:4327285 osa:4335013 osa:4344231 osa:4325861 osa:4335013 osa:4344268 osa:4352146 osa:4346217	4344268 4340725 4345722 4341967 4345722 4352536 4346217 4335013 4352146 4340725 4333156 4333156 4327285 4335013 4344231 4325861 4335013 4344268 4352146 4346217		
<a href="#">Valine, leucine and isoleucine degradation</a>	18	36	0.0909306505528	0.618522934881	Ma11_g21350 Ma03_g12070 Ma08_g15550 Ma11_g21360 Ma03_g00220 Ma04_g10090 Ma04_g28920 Ma03_g06120 Ma05_g05010 Ma08_g30510 Ma04_g09570 Ma08_g20630 Ma11_g15660 Ma08_g25460 Ma01_g14700 Ma03_g13720 Ma03_g16070 Ma03_g16060	osa:4330184 osa:4331418 osa:4351929 osa:4330184 osa:4331150 osa:4326266 osa:4342610 osa:4340725 osa:4340725 osa:4344267 osa:4352741 osa:4342508 osa:4348804 osa:4352741 osa:4345605 osa:4331150 osa:4339583 osa:4332151	4330184 4331418 4351929 4330184 4331150 4326266 4342610 4340725 4340725 4344267 4352741 4342508 4348804 4352741 4345605 4331150 4339583 4332151		
<a href="#">Thiamine metabolism</a>	7	10	0.0979543332004	0.618522934881	Ma04_g30490 Ma05_g14980 Ma06_g35590 Ma08_g09930 Ma03_g26140 Ma02_g15890 Ma05_g05920	osa:4343443 osa:4342614 osa:4333719 osa:4326818 osa:4338768 osa:4343443 osa:4340090	4343443 4342614 4333719 4326818 4338768 4343443 4340090		
<a href="#">Metabolic pathways</a>	534	1549	0.0982383032286	0.618522934881	Ma03_g20800 Ma10_g18160 Ma10_g28640 Ma04_g22620 Ma02_g24010 Ma09_g06640 Ma02_g21000 Ma04_g38030 Ma04_g37810 Ma04_g14940 Ma08_g33830 Ma09_g20310 Ma08_g02290 Ma04_g06090 Ma08_g06060 Ma06_g17200 Ma09_g30540 Ma11_g14450 Ma07_g02790 Ma00_g04030 Ma11_g07140 Ma01_g21520 Ma07_g17020	osa:4340547 osa:4332014 osa:4340677 osa:4339874 osa:4340986 osa:4324599 osa:4332373 osa:4333566 osa:4333932 osa:4324599 osa:4328446 osa:4331152 osa:4338979 osa:4345220 osa:4337733 osa:4344386 osa:4349859 osa:4352839 osa:4346094 osa:4330649 osa:4342137 osa:4344496 osa:4335701	4340547 4332014 4340677 4339874 4340986 4324599 4332373 4333566 4333932 4324599 4328446 4331152 4338979 4345220 4337733 4344386 4349859 4352839 4346094 4330649 4342137 4344496 4335701		

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Ma02_g04920	osa:4341861	4341861
Ma07_g18790	osa:4347745	4347745
Ma08_g28360	osa:4324621	4324621
Ma08_g14010	osa:4331515	4331515
Ma05_g10890	osa:4334626	4334626
Ma05_g08040	osa:4347265	4347265
Ma02_g18360	osa:4327301	4327301
Ma08_g21280	osa:4329007	4329007
Ma03_g04640	osa:4329955	4329955
Ma09_g14520	osa:4347311	4347311
Ma06_g01670	osa:4338802	4338802
Ma09_g31420	osa:4347851	4347851
Ma08_g14830	osa:4332286	4332286
Ma01_g03570	osa:4340042	4340042
Ma04_g13500	osa:4324151	4324151
Ma09_g23330	osa:4328485	4328485
Ma08_g02250	osa:4332372	4332372
Ma02_g24860	osa:4350636	4350636
Ma11_g24380	osa:4331065	4331065
Ma05_g30490	osa:4332519	4332519
Ma05_g23990	osa:4329497	4329497
Ma04_g35390	osa:4349454	4349454
Ma03_g00730	osa:9266710	9266710
Ma02_g20460	osa:4349333	4349333
Ma08_g19500	osa:4335756	4335756
Ma06_g12620	osa:4334188	4334188
Ma03_g13760	osa:4334994	4334994
Ma06_g07590	osa:4333918	4333918
Ma06_g26610	osa:4331941	4331941
Ma02_g14780	osa:4333566	4333566
Ma08_g00910	osa:4346094	4346094
Ma10_g21240	osa:4338045	4338045
Ma09_g03480	osa:4342171	4342171
Ma01_g02270	osa:4342142	4342142
Ma06_g24830	osa:3131463	3131463
Ma09_g19700	osa:4345078	4345078
Ma07_g22000	osa:4345962	4345962
Ma09_g08110	osa:4350053	4350053
Ma02_g22720	osa:4340485	4340485
Ma08_g29610	osa:4329692	4329692
Ma04_g18460	osa:4330975	4330975
Ma03_g05380	osa:4329324	4329324
Ma01_g19240	osa:4341792	4341792
Ma05_g18650	osa:4329532	4329532
Ma03_g31530	osa:4352146	4352146
Ma04_g01300	osa:4352871	4352871
Ma06_g35590	osa:4333719	4333719
Novel00441	osa:4341792	4341792
Ma10_g05100	osa:4326901	4326901
Ma09_g03470	osa:4332375	4332375
Ma10_g16460	osa:4324962	4324962



Ma03_g32060	osa:4334116	4334116
Ma11_g23980	osa:4344934	4344934
Ma08_g13290	osa:4330077	4330077
Ma07_g26160	osa:4326680	4326680
Ma09_g03450	osa:4332375	4332375
Ma09_g14110	osa:4341997	4341997
Ma01_g14700	osa:4345605	4345605
Ma08_g33410	osa:4335756	4335756
Ma10_g07330	osa:4341713	4341713
Ma07_g06750	osa:4328012	4328012
Ma08_g04900	osa:4332153	4332153
Ma03_g00940	osa:4346459	4346459
Ma09_g24200	osa:4349012	4349012
Ma11_g07790	osa:4337230	4337230
Ma04_g38880	osa:4334233	4334233
Ma09_g21880	osa:4339535	4339535
Ma01_g21440	osa:4347520	4347520
Ma05_g03450	osa:4330413	4330413
Ma09_g31410	osa:4347851	4347851
Ma03_g16830	osa:4340025	4340025
Ma11_g24610	osa:4350636	4350636
Ma08_g32440	osa:4337265	4337265
Ma07_g02270	osa:4345762	4345762
Ma07_g06760	osa:4328012	4328012
Ma08_g25110	osa:4336146	4336146
Ma04_g39070	osa:4352670	4352670
Ma05_g13530	osa:4344268	4344268
Ma01_g00130	osa:4346656	4346656
Ma07_g09040	osa:4341325	4341325
Ma09_g06900	osa:4332041	4332041
Ma06_g22930	osa:3131406	3131406
Ma04_g09570	osa:4352741	4352741
Ma04_g18630	osa:4330910	4330910
Ma10_g27820	osa:4341247	4341247
Ma05_g14980	osa:4342614	4342614
Ma04_g06200	osa:4342996	4342996
Ma03_g01840	osa:4343908	4343908
Ma11_g21180	osa:4336415	4336415
Ma09_g06650	osa:4339718	4339718
Ma09_g12090	osa:4345994	4345994
Ma03_g13720	osa:4331150	4331150
Ma06_g14370	osa:4337818	4337818
Ma11_g05360	osa:4338560	4338560
Ma09_g12560	osa:4330753	4330753
Ma05_g23550	osa:4344180	4344180
Ma06_g00500	osa:4328118	4328118
Ma06_g01700	osa:4324914	4324914
Ma10_g17260	osa:4343523	4343523
Ma04_g37240	osa:4327731	4327731
Ma11_g19280	osa:4344045	4344045
Ma06_g14390	osa:4337818	4337818
Ma11_g08300	osa:4336216	4336216
Ma03_g05660	osa:4345722	4345722
Ma02_g07020	osa:4347074	4347074
Ma07_g24940	osa:4344470	4344470
Ma04_g26260	osa:4346217	4346217
Ma04_g39490	osa:4331021	4331021
Ma09_g07380	osa:4332341	4332341
Ma06_g24480	osa:4332771	4332771
Ma11_g21050	osa:4330016	4330016
Ma01_g10240	osa:4324933	4324933
Ma05_g09350	osa:4339457	4339457
Ma11_g15660	osa:4348804	4348804
Ma08_g25440	osa:4328260	4328260
Ma08_g28170	osa:4324655	4324655
Ma01_g04420	osa:4336415	4336415
Ma07_g09220	osa:4341249	4341249
Ma09_g30120	osa:4337482	4337482
Ma10_g23010	osa:4337696	4337696
Ma06_g13460	osa:4352042	4352042
Ma09_g13000	osa:4347103	4347103
Ma08_g11970	osa:4336753	4336753
Ma11_g17480	osa:4351008	4351008
Ma01_g08090	osa:4327647	4327647
Ma09_g25700	osa:4340240	4340240
Ma03_g16650	osa:4339812	4339812
Ma03_g26140	osa:4338768	4338768
Ma09_g20570	osa:4337406	4337406
Ma09_g15420	osa:4331824	4331824
Ma06_g15020	osa:4351698	4351698
Ma05_g16190	osa:4331917	4331917
Ma08_g05120	osa:4342988	4342988
Ma03_g11800	osa:4346529	4346529
Ma11_g23060	osa:4343164	4343164
Ma10_g15800	osa:4335789	4335789
Ma09_g31400	osa:4348690	4348690
Ma03_g32130	osa:4334101	4334101

					Ma04_g39130	osa:4334171	4334171		
					Ma06_g29240	osa:4332041	4332041		
					Ma04_g03820	osa:4335430	4335430		
					Ma11_g19510	osa:4330104	4330104		
					Ma03_g03600	osa:4328168	4328168		
					Ma06_g25950	osa:4334104	4334104		
					Novel01373	osa:4339846	4339846		
					Ma08_g30510	osa:4344267	4344267		
					Ma04_g23230	osa:4348834	4348834		
					Ma09_g12600	osa:4330747	4330747		
					Ma03_g07770	osa:4331824	4331824		
					Ma03_g14250	osa:4346337	4346337		
					Ma10_g18010	osa:4333888	4333888		
					Ma05_g14380	osa:4332274	4332274		
					Ma08_g23180	osa:4332788	4332788		
					Ma06_g12590	osa:4352649	4352649		
					Ma08_g27070	osa:4332134	4332134		
					Ma09_g31020	osa:4344899	4344899		
					Ma06_g27120	osa:4329593	4329593		
					Ma05_g06070	osa:4339793	4339793		
					Ma11_g14310	osa:4326794	4326794		
					Ma11_g08450	osa:4324962	4324962		
					Ma10_g18940	osa:4331779	4331779		
					Ma11_g03900	osa:4330104	4330104		
					Ma07_g11010	osa:4346981	4346981		
					Ma08_g20550	osa:4343598	4343598		
					Ma03_g02590	osa:4352615	4352615		
					Ma08_g15070	osa:4348230	4348230		
					Ma11_g14380	osa:4344268	4344268		
					Ma05_g18090	osa:4344854	4344854		
					Ma09_g23530	osa:4336928	4336928		
					Ma07_g13520	osa:4327301	4327301		
					Ma04_g25530	osa:4331130	4331130		
					Ma03_g10630	osa:4351695	4351695		
					Ma01_g17210	osa:4330737	4330737		
					Ma10_g12270	osa:4350614	4350614		
					Ma10_g17250	osa:4342517	4342517		
					Ma05_g15200	osa:4349333	4349333		
					Ma09_g08470	osa:4329593	4329593		
					Ma03_g16840	osa:4340025	4340025		
					Ma03_g06970	osa:4330843	4330843		
					Ma11_g13600	osa:4332563	4332563		
					Ma06_g28940	osa:4339718	4339718		
					Ma10_g09700	osa:4334425	4334425		
					Ma03_g26340	osa:4339675	4339675		
					Ma08_g10630	osa:4337732	4337732		
					Ma06_g22100	osa:4350524	4350524		
					Ma06_g26480	osa:4334196	4334196		
					Ma10_g15370	osa:4324599	4324599		
					Ma01_g17990	osa:4343721	4343721		
					Ma03_g02700	osa:4337818	4337818		
					Ma07_g11120	osa:4332174	4332174		
					Ma10_g26330	osa:4327178	4327178		
					Ma02_g20450	osa:4349333	4349333		
					Ma02_g12240	osa:4330164	4330164		
					Ma04_g40060	osa:4325861	4325861		
					Ma03_g01370	osa:4325687	4325687		
					Ma05_g11820	osa:4349012	4349012		
					Ma01_g03420	osa:4340008	4340008		
					Ma09_g24600	osa:4347691	4347691		
					Ma04_g31640	osa:4343366	4343366		
					Ma03_g08830	osa:4344231	4344231		
					Ma10_g11950	osa:4326465	4326465		
					Ma04_g26280	osa:4346217	4346217		
					Ma05_g22240	osa:4343249	4343249		
					Ma06_g16590	osa:4324619	4324619		
					Ma03_g17510	osa:4339892	4339892		
					Ma03_g09880	osa:4332519	4332519		
					Ma02_g09950	osa:4350053	4350053		
					Ma10_g29140	osa:4339127	4339127		
					Ma02_g10050	osa:4351610	4351610		
					Ma11_g02800	osa:4336753	4336753		
					Ma10_g12590	osa:4329518	4329518		
					Ma08_g04450	osa:4348656	4348656		
					Ma03_g21800	osa:4339554	4339554		
					Ma10_g18290	osa:4352146	4352146		
					Ma04_g18600	osa:4331075	4331075		
					Ma06_g19820	osa:4350171	4350171		
					Ma00_g01820	osa:4330439	4330439		
					Ma04_g36700	osa:4348876	4348876		
					Ma03_g01410	osa:9268279	9268279		
					Ma00_g01810	osa:4330439	4330439		
					Ma10_g12210	osa:4350591	4350591		
					Ma11_g19510	osa:4330104	4330104		
					Ma11_g03900	osa:4330104	4330104		
					Ma05_g14380	osa:4332274	4332274		
<a href="#">Sphingolipid metabolism</a>	12	22	0.105698179473	0.618522934881					

					Ma05_g09350	osa:4339457	4339457		
					Ma07_g26160	osa:4326680	4326680		
					Ma08_g07480	osa:4325027	4325027		
					Ma04_g04160	osa:4337230	4337230		
					Ma10_g28640	osa:4340677	4340677		
					Ma11_g08300	osa:4336216	4336216		
					Ma07_g11340	osa:4348582	4348582		
					Novel00240	osa:4337230	4337230		
					Ma02_g03830	osa:4338750	4338750		
					Ma10_g25720	osa:4345657	4345657		
					Ma11_g21050	osa:4330016	4330016		
					Ma10_g21340	osa:4338007	4338007		
					Ma06_g21100	osa:4337051	4337051		
					Ma06_g28550	osa:4345387	4345387		
					Ma11_g14450	osa:4352839	4352839		
					Ma08_g28170	osa:4324655	4324655		
					Ma03_g03600	osa:4328168	4328168		
					Ma08_g15550	osa:4351929	4351929		
					Ma09_g26210	osa:4352839	4352839		
					Ma08_g08880	osa:4346159	4346159		
					Ma05_g00310	osa:4341792	4341792		
					Ma04_g28920	osa:4342610	4342610		
					Ma09_g20570	osa:4337406	4337406		
					Ma07_g11510	osa:4331893	4331893		
					Ma05_g07850	osa:4326513	4326513		
					Ma06_g08130	osa:4352058	4352058		
					Ma08_g05120	osa:4342988	4342988		
					Ma08_g03130	osa:4333898	4333898		
					Ma07_g10560	osa:4327301	4327301		
					Ma03_g32130	osa:4334101	4334101		
					Ma03_g27870	osa:4347691	4347691		
					Ma05_g25700	osa:4327423	4327423		
					Ma09_g07280	osa:4329858	4329858		
					Ma04_g03820	osa:4335430	4335430		
					Ma08_g33830	osa:4328446	4328446		
					Ma02_g18360	osa:4327301	4327301		
					Ma05_g21880	osa:4335048	4335048		
					Ma09_g14520	osa:4347311	4347311		
					Ma03_g14310	osa:4346332	4346332		
					Ma01_g03570	osa:4340042	4340042		
					Ma11_g16750	osa:4341770	4341770		
					Ma10_g12550	osa:4336044	4336044		
					Ma04_g33980	osa:4330413	4330413		
					Ma08_g30510	osa:4344267	4344267		
					Ma05_g27700	osa:4336216	4336216		
					Ma04_g35390	osa:4349454	4349454		
					Ma02_g08140	osa:4350964	4350964		
					Ma09_g12600	osa:4330747	4330747		
					Ma06_g01900	osa:4341792	4341792		
					Ma06_g26610	osa:4331941	4331941		
					Ma05_g31060	osa:4325211	4325211		
					Ma03_g17510	osa:4339892	4339892		
					Ma06_g38960	osa:4336353	4336353		
					Ma09_g02110	osa:4336216	4336216		
					Ma06_g24830	osa:3131463	3131463		
					Novel00760	osa:4324442	4324442		
					Ma07_g22000	osa:4345962	4345962		
					Ma09_g07020	osa:4352058	4352058		
					Ma01_g19240	osa:4341792	4341792		
					Ma04_g01300	osa:4352871	4352871		
					Ma04_g27940	osa:4334101	4334101		
					Ma11_g07780	osa:4341713	4341713		
					Ma07_g13520	osa:4327301	4327301		
					Ma04_g25530	osa:4331130	4331130		
					Ma05_g05050	osa:4340042	4340042		
					Ma05_g22300	osa:4349897	4349897		
					Ma08_g16120	osa:4349897	4349897		
					Ma11_g20920	osa:4348176	4348176		
					Novel00441	osa:4341792	4341792		
					Ma10_g07330	osa:4341713	4341713		
					Ma11_g07790	osa:4337230	4337230		
					Ma01_g17610	osa:4337406	4337406		
					Ma02_g13970	osa:4328168	4328168		
					Ma05_g03450	osa:4330413	4330413		
					Ma10_g24940	osa:4347311	4347311		
					Ma03_g16830	osa:4340025	4340025		
					Ma11_g17540	osa:4336216	4336216		
					Ma09_g24600	osa:4347691	4347691		
					Ma07_g15870	osa:4328326	4328326		
					Ma07_g11500	osa:4331893	4331893		
					Ma07_g12740	osa:4349723	4349723		
					Ma03_g32890	osa:4326769	4326769		
					Ma08_g29310	osa:4329889	4329889		
					Ma02_g11180	osa:4339425	4339425		
					Ma02_g18420	osa:4341321	4341321		
					Ma10_g12590	osa:4329518	4329518		

[Carbon metabolism](#)

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0.108422165896

0.618522934881

					Ma04_g13550 Ma03_g16840	osa:4335430 osa:4340025	4335430 4340025		
<a href="#">Histidine metabolism</a>	9	15	0.10962965231	0.618522934881	Ma10_g10490 Ma06_g27120 Ma06_g17860 Ma09_g08470 Ma09_g09840 Ma05_g05010 Novel01132 Ma03_g06120 Novel01419	osa:4329593 osa:4329593 osa:4324261 osa:4329593 osa:4324282 osa:4340725 osa:4324282 osa:4340725 osa:4324282	4329593 4329593 4324261 4329593 4324282 4340725 4324282 4340725 4324282		
<a href="#">Carbon fixation in photosynthetic organisms</a>	33	77	0.110094955804	0.618522934881	Ma08_g07480 Ma05_g03450 Ma03_g16830 Ma11_g17540 Ma11_g08300 Ma06_g28550 Ma01_g19240 Ma03_g27870 Ma02_g03830 Ma05_g25700 Ma10_g25720 Ma04_g03820 Ma04_g01300 Ma09_g24600 Ma10_g21340 Novel00441 Ma03_g14310 Ma11_g16750 Ma05_g22300 Ma03_g32890 Ma08_g16120 Ma10_g12550 Ma04_g33980 Ma05_g27700 Ma03_g16840 Ma06_g01900 Ma08_g33830 Ma05_g31060 Ma05_g00310 Ma07_g15870 Ma09_g02110 Ma04_g13550 Ma06_g24830	osa:4325027 osa:4330413 osa:4340025 osa:4336216 osa:4336216 osa:4345387 osa:4341792 osa:4347691 osa:4338750 osa:4327423 osa:4345657 osa:4335430 osa:4352871 osa:4347691 osa:4338007 osa:4341792 osa:4346332 osa:4341770 osa:4349897 osa:4326769 osa:4349897 osa:4336044 osa:4330413 osa:4336216 osa:4340025 osa:4341792 osa:4328446 osa:4325211 osa:4341792 osa:4328326 osa:4336216 osa:4335430 osa:3131463	4325027 4330413 4340025 4336216 4336216 4345387 4341792 4347691 4338750 4327423 4345657 4335430 4352871 4347691 4338007 4341792 4346332 4341770 4349897 4326769 4349897 4336044 4330413 4336216 4340025 4341792 4328446 4325211 4341792 4328326 4336216 4335430 3131463		
<a href="#">Sulfur metabolism</a>	17	35	0.114348777877	0.618522934881	Ma08_g28170 Ma03_g32130 Ma04_g10990 Ma02_g18420 Ma06_g26610 Ma09_g26210 Ma08_g27570 Ma04_g39880 Ma11_g24380 Ma01_g16340 Ma05_g21880 Ma04_g27940 Ma06_g19810 Ma11_g14450 Ma01_g21430 Ma02_g11180 Ma01_g07600	osa:4324655 osa:4334101 osa:4343681 osa:4341321 osa:4331941 osa:4352839 osa:4334073 osa:4343348 osa:4331065 osa:4339248 osa:4335048 osa:4334101 osa:4338825 osa:4352839 osa:4326319 osa:4339425 osa:4334073	4324655 4334101 4343681 4341321 4331941 4352839 4334073 4343348 4331065 4339248 4335048 4334101 4338825 4352839 4326319 4339425 4334073		
<a href="#">Pentose phosphate pathway</a>	21	48	0.156688558194	0.792845497268	Ma07_g13520 Ma08_g07480 Ma08_g05120 Ma02_g13970 Ma11_g16750 Ma05_g22300 Ma03_g16830 Ma04_g03820 Ma10_g28640 Ma08_g16120 Ma03_g17510 Ma07_g11340 Ma08_g15070 Ma02_g18360 Ma08_g29310 Ma10_g24940 Ma04_g13550 Ma07_g10560 Ma03_g03600 Ma09_g14520 Ma03_g16840	osa:4327301 osa:4325027 osa:4342988 osa:4328168 osa:4341770 osa:4349897 osa:4340025 osa:4335430 osa:4340677 osa:4349897 osa:4339892 osa:4348582 osa:4348230 osa:4327301 osa:4329889 osa:4347311 osa:4335430 osa:4327301 osa:4328168 osa:4347311 osa:4340025	4327301 4325027 4342988 4328168 4341770 4349897 4340025 4335430 4340677 4349897 4339892 4348582 4348230 4327301 4329889 4347311 4335430 4327301 4328168 4347311 4340025		
<a href="#">Nitrogen metabolism</a>	13	27	0.159901612894	0.792845497268	Ma02_g01040 Ma02_g22240 Ma02_g08780	osa:4345604 osa:4329556 osa:4329556	4345604 4329556 4329556		

					Ma03_g32240 Ma09_g14720 Ma02_g12240 Novel00953 Ma03_g06990 Ma05_g05300 Ma06_g29120 Ma03_g21060 Ma00_g04030 Ma08_g28590	osa:4326583 osa:4326014 osa:4330164 osa:4345604 osa:4345604 osa:4347305 osa:4326583 osa:4330649 osa:4330649 osa:4324398	4326583 4326014 4330164 4345604 4345604 4347305 4326583 4330649 4330649 4324398		
<a href="#">Glycine, serine and threonine metabolism</a>	23	55	0.184451104833	0.877987259004	Novel01203 Ma06_g08130 Ma07_g22000 Ma10_g18940 Ma09_g07020 Ma01_g01610 Novel00240 Ma04_g04160 Ma06_g21100 Ma11_g07780 Ma07_g12740 Ma09_g12600 Ma05_g21330 Ma02_g08140 Ma10_g07330 Ma06_g12620 Ma09_g15520 Ma10_g09700 Ma08_g03130 Ma00_g05010 Ma05_g01700 Ma10_g16940 Ma11_g07790	osa:4334425 osa:4352058 osa:4345962 osa:4331779 osa:4352058 osa:4349114 osa:4337230 osa:4337230 osa:4337051 osa:4341713 osa:4349723 osa:4330747 osa:4327981 osa:4350964 osa:4341713 osa:4334188 osa:4345606 osa:4334425 osa:4333898 osa:4335335 osa:4346642 osa:4336153 osa:4337230	4334425 4352058 4345962 4331779 4352058 4349114 4337230 4337230 4337051 4341713 4349723 4330747 4327981 4350964 4341713 4334188 4345606 4334425 4333898 4335335 4346642 4336153 4337230		
<a href="#">Fructose and mannose metabolism</a>	22	53	0.19854317177	0.90871682464	Ma08_g07480 Ma11_g08450 Ma07_g11340 Ma07_g10560 Ma02_g04620 Ma02_g21000 Ma03_g27870 Ma04_g26260 Ma05_g22300 Ma10_g18160 Ma09_g24600 Ma02_g18360 Ma03_g08830 Ma04_g26280 Ma07_g13520 Ma11_g16750 Ma10_g16460 Ma08_g16120 Ma05_g05600 Ma05_g31060 Ma04_g16060 Ma09_g24170	osa:4325027 osa:4324962 osa:4348582 osa:4327301 osa:4340050 osa:4332373 osa:4347691 osa:4346217 osa:4349897 osa:4332014 osa:4347691 osa:4327301 osa:4344231 osa:4346217 osa:4327301 osa:4341770 osa:4324962 osa:4349897 osa:4340579 osa:4325211 osa:4324962 osa:4337437	4325027 4324962 4348582 4327301 4340050 4332373 4347691 4346217 4349897 4332014 4347691 4327301 4344231 4346217 4327301 4341770 4324962 4349897 4340579 4325211 4324962 4337437		
<a href="#">Propanoate metabolism</a>	7	14	0.23901912012	0.999999998471	Ma08_g15550 Ma07_g06750 Ma11_g21050 Ma04_g28920 Ma10_g12590 Ma08_g30510 Ma07_g06760	osa:4351929 osa:4328012 osa:4330016 osa:4342610 osa:4329518 osa:4344267 osa:4328012	4351929 4328012 4330016 4342610 4329518 4344267 4328012		
<a href="#">Peroxisome</a>	30	78	0.244710891779	0.999999998471	Ma04_g10090 Ma06_g21190 Ma02_g04310 Ma07_g22000 Ma02_g24010 Ma07_g03790 Ma07_g06830 Ma03_g00220 Ma03_g14690 Ma09_g30420 Ma09_g20440 Ma03_g00940 Ma10_g14370 Ma11_g15660 Ma02_g10050 Ma02_g03420 Ma09_g30400 Ma10_g07820 Ma03_g19080 Novel01373 Ma04_g08370 Ma03_g01840 Ma03_g13720	osa:4326266 osa:4337048 osa:4332846 osa:4345962 osa:4340986 osa:4332846 osa:4346360 osa:4331150 osa:4328073 osa:4346301 osa:4346329 osa:4346459 osa:4328861 osa:4348804 osa:4351610 osa:4336980 osa:4346301 osa:4346329 osa:4338417 osa:4339846 osa:4324427 osa:4343908 osa:4331150	4326266 4337048 4332846 4345962 4340986 4332846 4346360 4331150 4328073 4346301 4346329 4346459 4328861 4348804 4351610 4336980 4346301 4346329 4338417 4339846 4324427 4343908 4331150		

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<a href="#">Cyanoamino acid metabolism</a>	15	36	0.251976195133	0.999999998471	Ma06_g16830 Ma05_g23890 Ma11_g05360 Ma06_g08130 Ma06_g29240 Ma07_g22060 Ma08_g13290 Ma09_g07020 Ma05_g21880 Ma06_g29250 Ma03_g32060 Ma08_g25110 Ma06_g16590 Ma03_g00730 Ma09_g06900	osa:4324526 osa:4338560 osa:4338560 osa:4352058 osa:4332041 osa:4336146 osa:4330077 osa:4352058 osa:4335048 osa:4332041 osa:4334116 osa:4336146 osa:4324619 osa:9266710 osa:4332041	4324526 4338560 4338560 4352058 4332041 4336146 4330077 4352058 4335048 4332041 4334116 4336146 4324619 9266710 4332041		
<a href="#">Phenylpropanoid biosynthesis</a>	46	125	0.257265480493	0.999999998471	Ma06_g16060 Ma01_g21440 Ma06_g19750 Ma03_g06130 Ma06_g16100 Ma07_g22060 Ma01_g21520 Ma05_g31950 Ma07_g11120 Ma02_g07020 Ma03_g05380 Ma08_g25110 Ma06_g16590 Ma02_g04920 Ma09_g06900 Ma11_g05360 Ma04_g10150 Ma06_g29240 Ma10_g25840 Ma06_g10250 Ma10_g15940 Ma09_g13580 Ma01_g04420 Ma09_g31400 Ma09_g23330 Ma10_g27820 Ma03_g32060 Ma02_g22450 Ma03_g03400 Ma11_g19280 Ma04_g05290 Ma05_g27310 Ma11_g21180 Ma06_g10290 Ma09_g30120 Ma07_g09220 Ma05_g23890 Ma09_g25700 Ma05_g27130 Ma03_g13910 Ma01_g03820 Ma06_g29250 Ma08_g10630 Ma03_g05400 Ma11_g15990 Ma10_g23920	osa:4341249 osa:4347520 osa:4344496 osa:4340240 osa:4341249 osa:4336146 osa:4344496 osa:4351300 osa:4332174 osa:4347074 osa:4329324 osa:4336146 osa:4324619 osa:4341861 osa:4332041 osa:4338560 osa:4345689 osa:4332041 osa:4332174 osa:4338409 osa:4324554 osa:4329329 osa:4336415 osa:4348690 osa:4328485 osa:4341247 osa:4334116 osa:4324557 osa:4341249 osa:4344045 osa:4351300 osa:4347520 osa:4336415 osa:4351300 osa:4337482 osa:4341249 osa:4338560 osa:4340240 osa:4328684 osa:4346726 osa:4343453 osa:4332041 osa:4337732 osa:4329329 osa:4349097 osa:4345689	4341249 4347520 4344496 4340240 4341249 4336146 4344496 4351300 4332174 4347074 4329324 4336146 4324619 4341861 4332041 4338560 4345689 4332041 4332174 4338409 4324554 4329329 4336415 4348690 4328485 4341247 4334116 4324557 4341249 4344045 4351300 4347520 4336415 4351300 4337482 4341249 4338560 4340240 4328684 4346726 4343453 4332041 4337732 4329329 4349097 4345689		
<a href="#">Endocytosis</a>	38	103	0.277408890598	0.999999998471	Ma09_g07430 Ma06_g13850 Ma05_g03640 Ma01_g05510 Ma02_g18000 Ma01_g08380 Ma05_g05940 Ma05_g02240 Ma06_g33480 Ma04_g02360 Ma07_g18790 Ma07_g16530 Ma10_g29250 Ma09_g28540 Ma04_g11640 Ma08_g21660 Ma09_g03950 Ma10_g26890	osa:4351875 osa:4351875 osa:4348891 osa:4339623 osa:4351208 osa:4347745 osa:4344016 osa:4333538 osa:4341266 osa:4327591 osa:4347745 osa:4352862 osa:4327591 osa:4330565 osa:4331873 osa:4351208 osa:4351208 osa:4327647	4351875 4351875 4348891 4339623 4351208 4347745 4344016 4333538 4341266 4327591 4347745 4352862 4327591 4330565 4331873 4351208 4351208 4327647		

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<a href="#">Linoleic acid metabolism</a>	7	15	0.281521390223	0.999999998471	Ma08_g23400 Ma03_g07770 Ma03_g11520 Ma06_g26870 Ma09_g15420 Ma07_g11670 Ma09_g12090	osa:4331824 osa:4331824 osa:4328603 osa:4333821 osa:4331824 osa:4333862 osa:4345994	4331824 4331824 4328603 4333821 4331824 4333862 4345994		
<a href="#">Steroid biosynthesis</a>	11	26	0.284251847108	0.999999998471	Ma07_g28990 Ma09_g03480 Ma10_g12270 Ma08_g04900 Ma04_g32060 Ma10_g26480 Ma08_g04920 Ma06_g11320 Ma11_g20450 Ma03_g01370 Ma10_g14440	osa:4342690 osa:4342171 osa:4350614 osa:4332153 osa:4331540 osa:4351226 osa:4332153 osa:4325687 osa:4349278 osa:4325687 osa:4325563	4342690 4342171 4350614 4332153 4331540 4351226 4332153 4325687 4349278 4325687 4325563		
<a href="#">Stilbenoid, diarylheptanoid and gingerol biosynthesis</a>	8	18	0.2937445041	0.999999998471	Ma03_g05400 Ma09_g25700 Ma07_g09040 Ma07_g06700 Ma03_g06130 Ma06_g10250 Ma03_g05380 Ma09_g13580	osa:4329329 osa:4340240 osa:4341325 osa:4349111 osa:4340240 osa:4338409 osa:4329324 osa:4329329	4329329 4340240 4341325 4349111 4340240 4338409 4329324 4329329		
<a href="#">Ribosome</a>	114	330	0.296883553899	0.999999998471	Ma11_g15870 Ma05_g14780 Ma05_g19200 Ma10_g13230 Ma09_g07060 Ma04_g29740 Ma04_g28630 Ma11_g20970 Novel00326 Ma01_g21100 Ma07_g21220 Ma04_g11020 Ma05_g16500 Ma08_g29860 Ma02_g21120 Ma02_g08870 Ma06_g17050 Ma11_g23780 Ma06_g17110 Ma11_g13860 Ma09_g00010 Ma09_g25400 Ma04_g17690 Ma05_g24650 Ma01_g10140 Ma03_g28710 Ma01_g15830 Ma04_g29360 Ma03_g22300 Ma10_g06200 Ma08_g17750 Ma10_g07390 Novel01247 Ma08_g33500 Ma10_g18960 Ma11_g24100 Ma04_g06070 Ma04_g24620 Ma00_g02380	osa:4331459 osa:4348607 osa:4334131 osa:4332545 osa:4335547 osa:9272292 osa:4326469 osa:4352560 osa:4351513 osa:4327257 osa:4346086 osa:4331942 osa:4343909 osa:4348846 osa:4344590 osa:4350869 osa:4332466 osa:4332802 osa:4339104 osa:4350516 osa:4325555 osa:9266960 osa:4334580 osa:4334438 osa:4327004 osa:4339923 osa:4332089 osa:9266562 osa:4351374 osa:4335607 osa:4351513 osa:4336914 osa:4348843 osa:4341869 osa:4328635 osa:4342408 osa:4348846 osa:4325273 osa:4327483	4331459 4348607 4334131 4332545 4335547 9272292 4326469 4352560 4351513 4327257 4346086 4331942 4343909 4348846 4344590 4350869 4332466 4332802 4339104 4350516 4325555 9266960 4334580 4334438 4327004 4339923 4332089 9266562 4351374 4335607 4351513 4336914 4348843 4341869 4328635 4342408 4348846 4325273 4327483		

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					Ma03_g01330	osa:4351513	4351513		
					Ma03_g03800	osa:4337653	4337653		
					Ma09_g22950	osa:4348846	4348846		
					Ma10_g00610	osa:4328797	4328797		
					Ma06_g24940	osa:4330946	4330946		
					Ma00_g03400	osa:4351604	4351604		
					Ma02_g23940	osa:4351374	4351374		
					Ma10_g26340	osa:9267955	9267955		
					Ma02_g03590	osa:4338571	4338571		
					Ma06_g26930	osa:4349726	4349726		
					Ma01_g00800	osa:4341664	4341664		
					Ma05_g21010	osa:4346540	4346540		
					Ma02_g17430	osa:4328797	4328797		
					Ma04_g10730	osa:4329171	4329171		
					Ma11_g23830	osa:4328016	4328016		
					Ma11_g16510	osa:4334651	4334651		
					Ma05_g28030	osa:4350406	4350406		
					Novel00874	osa:4352797	4352797		
					Ma01_g20160	osa:4343869	4343869		
					Ma11_g14090	osa:4329362	4329362		
					Ma08_g02490	osa:4335607	4335607		
					Ma07_g12470	osa:4330763	4330763		
					Ma10_g29570	osa:4343869	4343869		
					Ma02_g10840	osa:4339648	4339648		
					Ma08_g31060	osa:4328472	4328472		
					Ma06_g32850	osa:9266562	9266562		
					Ma11_g18070	osa:4329362	4329362		
					Ma02_g03280	osa:4342408	4342408		
					Ma09_g25820	osa:4348607	4348607		
					Ma04_g08190	osa:4349409	4349409		
					Ma06_g05060	osa:4340887	4340887		
					Ma10_g00920	osa:4343869	4343869		
					Ma08_g34120	osa:4332802	4332802		
					Ma09_g23430	osa:4336914	4336914		
					Ma05_g08080	osa:4329361	4329361		
					Ma01_g15300	osa:4333083	4333083		
					Ma03_g01510	osa:4351374	4351374		
					Ma06_g24450	osa:4334154	4334154		
					Ma10_g11380	osa:4338938	4338938		
					Ma09_g21730	osa:4336914	4336914		
					Ma04_g27000	osa:4336317	4336317		
					Ma01_g13930	osa:4341262	4341262		
					Ma03_g01060	osa:4334580	4334580		
					Ma06_g07140	osa:4328797	4328797		
					Ma02_g16430	osa:6450193	6450193		
					Ma06_g10220	osa:4337928	4337928		
					Ma06_g35440	osa:4327674	4327674		
					Ma04_g15270	osa:4349409	4349409		
					Ma04_g10490	osa:4349409	4349409		
					Ma10_g17150	osa:4346086	4346086		
					Ma04_g12660	osa:4336914	4336914		
					Ma03_g19680	osa:4352308	4352308		
					Ma00_g02740	osa:4332773	4332773		
					Ma05_g06910	osa:4327391	4327391		
					Ma03_g13020	osa:4331014	4331014		
					Ma09_g20220	osa:4339552	4339552		
					Ma08_g24590	osa:4330425	4330425		
					Ma03_g21390	osa:4324446	4324446		
					Ma06_g11370	osa:4351513	4351513		
					Ma05_g22670	osa:4331459	4331459		
					Ma01_g17660	osa:4332773	4332773		
					Ma10_g29730	osa:4345669	4345669		
					Ma08_g21210	osa:4328932	4328932		
					Ma06_g28790	osa:4326865	4326865		
					Ma05_g18200	osa:4333233	4333233		
					Ma03_g00680	osa:4328016	4328016		
					Novel00357	osa:4330946	4330946		
					Ma04_g36730	osa:4348839	4348839		
					Ma06_g24090	osa:4328826	4328826		
					Ma04_g24910	osa:4327674	4327674		
					Ma07_g26990	osa:4338938	4338938		
					Ma10_g22710	osa:4327391	4327391		
					Ma11_g02570	osa:4331346	4331346		
					Ma01_g08150	osa:4342771	4342771		
					Ma04_g25530	osa:4331130	4331130		
					Ma08_g29910	osa:4350053	4350053		
					Ma07_g11500	osa:4331893	4331893		
					Ma03_g00220	osa:4331150	4331150		
					Ma02_g24010	osa:4340986	4340986		
					Ma08_g30510	osa:4344267	4344267		
					Ma09_g08110	osa:4350053	4350053		
					Ma03_g06120	osa:4340725	4340725		
					Ma05_g05010	osa:4340725	4340725		
					Novel01373	osa:4339846	4339846		
					Ma11_g15660	osa:4348804	4348804		
<a href="#">Fatty acid degradation</a>	16	41	0.311289265065	0.999999998471					



					Ma02_g09950 Ma04_g31940 Ma02_g10050 Ma07_g11510 Ma03_g13720	osa:4350053 osa:4330090 osa:4351610 osa:4331893 osa:4331150	4350053 4330090 4351610 4331893 4331150		
<a href="#">Ascorbate and aldarate metabolism</a>	14	36	0.332436313342	0.99999998471	Ma06_g14310 Ma07_g28480 Ma05_g24340 Ma07_g28490 Ma04_g08270 Ma03_g31530 Ma03_g06120 Ma07_g28080 Ma07_g28090 Ma05_g05010 Ma06_g08980 Ma07_g07290 Ma10_g18290 Ma06_g15020	osa:4351698 osa:4352223 osa:4341967 osa:4352223 osa:4341305 osa:4352146 osa:4340725 osa:4333156 osa:4333156 osa:4340725 osa:4351698 osa:4336886 osa:4352146 osa:4351698	4351698 4352223 4341967 4352223 4341305 4352146 4340725 4333156 4333156 4340725 4351698 4336886 4352146 4351698		
<a href="#">Phenylalanine, tyrosine and tryptophan biosynthesis</a>	16	42	0.339162436572	0.99999998471	Ma08_g19500 Ma09_g07380 Ma03_g20800 Ma01_g14880 Ma06_g07590 Ma05_g20810 Ma10_g09700 Ma10_g08510 Ma02_g05120 Ma10_g11420 Novel01203 Ma03_g11800 Ma09_g29570 Ma06_g21530 Ma08_g33410 Ma08_g14830	osa:4335756 osa:4332341 osa:4340547 osa:4343946 osa:4333918 osa:4332477 osa:4334425 osa:4347717 osa:4340026 osa:4335756 osa:4334425 osa:4346529 osa:4329101 osa:4325444 osa:4335756 osa:4332286	4335756 4332341 4340547 4343946 4333918 4332477 4334425 4347717 4340026 4335756 4334425 4346529 4329101 4325444 4335756 4332286		
<a href="#">Arginine and proline metabolism</a>	23	63	0.353380096863	0.99999998471	Ma06_g26480 Ma08_g02290 Ma05_g23060 Ma07_g20920 Ma02_g12240 Ma11_g23060 Ma06_g05530 Ma05_g11820 Ma01_g03420 Ma05_g15910 Ma03_g06120 Ma00_g04600 Ma03_g04640 Ma00_g04030 Ma05_g26570 Ma09_g13000 Ma02_g05150 Ma05_g00590 Ma05_g05010 Ma09_g24200 Ma04_g06200 Ma04_g18620 Ma03_g21060	osa:4334196 osa:4338979 osa:4349318 osa:4329955 osa:4330164 osa:4343164 osa:4329955 osa:4349012 osa:4340008 osa:4333177 osa:4340725 osa:4337360 osa:4329955 osa:4330649 osa:4329955 osa:4347103 osa:4340008 osa:4337046 osa:4340725 osa:4349012 osa:4342996 osa:4334912 osa:4330649	4334196 4338979 4349318 4329955 4330164 4343164 4329955 4349012 4340008 4333177 4340725 4337360 4329955 4330649 4329955 4347103 4340008 4337046 4340725 4349012 4342996 4334912 4330649		
<a href="#">Other glycan degradation</a>	6	14	0.362929600983	0.99999998471	Ma06_g19820 Ma04_g36700 Ma05_g17580 Ma06_g01700 Ma05_g09350 Ma06_g01670	osa:4350171 osa:4348876 osa:4348080 osa:4324914 osa:4339457 osa:4338802	4350171 4348876 4348080 4324914 4339457 4338802		
<a href="#">Glycerolipid metabolism</a>	16	43	0.36755053441	0.99999998471	Ma05_g05010 Ma09_g27580 Ma03_g02590 Ma08_g02250 Ma05_g29560 Ma08_g02270 Ma07_g10180 Ma03_g25580 Ma03_g06120 Ma10_g10450 Ma05_g12640 Ma09_g28900 Ma10_g21240 Ma04_g26360 Ma09_g08810 Ma09_g03520	osa:4340725 osa:4345212 osa:4352615 osa:4332372 osa:4351119 osa:4332054 osa:4350917 osa:4351119 osa:4340725 osa:4349835 osa:4349006 osa:4338045 osa:4338045 osa:4330302 osa:4345212 osa:4332372	4340725 4345212 4352615 4332372 4351119 4332054 4350917 4351119 4340725 4349835 4349006 4338045 4338045 4330302 4345212 4332372		
<a href="#">Cutin, suberine and wax biosynthesis</a>	7	17	0.37072341628	0.99999998471	Ma11_g15810 Ma09_g12850 Ma02_g13310 Ma11_g19740 Ma09_g30420	osa:4330012 osa:4350569 osa:4348947 osa:4330012 osa:4346301	4330012 4350569 4348947 4330012 4346301		

					Ma09_g30410 Ma09_g30400	osa:4346301 osa:4346301	4346301 4346301		
<a href="#">Glycosphingolipid biosynthesis - ganglio series</a>	3	6	0.385526948481	0.999999998471	Ma05_g09350 Ma06_g01700 Ma06_g01670	osa:4339457 osa:4324914 osa:4338802	4339457 4324914 4338802		
<a href="#">Ubiquinone and other terpenoid-quinone biosynthesis</a>	12	32	0.390088561412	0.999999998471	Ma02_g14500 Ma04_g07830 Ma09_g23330 Ma03_g05400 Ma04_g12630 Ma03_g29220 Ma08_g21280 Ma06_g10250 Ma03_g05380 Ma09_g29570 Ma09_g13580 Ma04_g07860	osa:4352791 osa:4327859 osa:4328485 osa:4329329 osa:4341663 osa:4341663 osa:4329007 osa:4338409 osa:4329324 osa:4329101 osa:4329329 osa:4327859	4352791 4327859 4328485 4329329 4341663 4341663 4329007 4338409 4329324 4329101 4329329 4327859		
<a href="#">ABC transporters</a>	4	9	0.399232758074	0.999999998471	Ma01_g17310 Ma04_g04450 Ma04_g26720 Ma08_g30300	osa:9268765 osa:4346344 osa:4328568 osa:9268765	9268765 4346344 4328568 9268765		
<a href="#">Brassinosteroid biosynthesis</a>	4	9	0.399232758074	0.999999998471	Ma04_g11650 Ma08_g27070 Ma05_g04020 Ma10_g27460	osa:4324809 osa:4332134 osa:4336116 osa:4327329	4324809 4332134 4336116 4327329		
<a href="#">Phenylalanine metabolism</a>	34	99	0.42090950187	0.999999998471	Ma06_g16060 Ma01_g21440 Ma06_g19750 Ma03_g13910 Ma06_g16100 Ma01_g21520 Ma05_g31950 Ma07_g11120 Ma03_g05380 Ma09_g29570 Ma02_g04920 Ma11_g19280 Ma10_g25840 Ma06_g10250 Ma10_g15940 Ma09_g13580 Ma01_g04420 Ma09_g23330 Ma10_g27820 Ma02_g22450 Ma03_g03400 Ma04_g05290 Ma05_g27310 Ma11_g21180 Ma06_g10290 Ma09_g30120 Ma07_g09220 Ma09_g25700 Ma03_g06130 Ma00_g05010 Ma01_g03820 Ma10_g16940 Ma08_g10630 Ma03_g05400	osa:4341249 osa:4347520 osa:4344496 osa:4346726 osa:4341249 osa:4344496 osa:4351300 osa:4332174 osa:4329324 osa:4329101 osa:4341861 osa:4344045 osa:4332174 osa:4338409 osa:4324554 osa:4329329 osa:4336415 osa:4328485 osa:4341247 osa:4324557 osa:4341249 osa:4351300 osa:4347520 osa:4336415 osa:4351300 osa:4337482 osa:4341249 osa:4340240 osa:4340240 osa:4335335 osa:4343453 osa:4336153 osa:4337732 osa:4329329	4341249 4347520 4344496 4346726 4341249 4344496 4351300 4332174 4329324 4329101 4341861 4344045 4332174 4338409 4324554 4329329 4336415 4328485 4341247 4324557 4341249 4351300 4347520 4336415 4351300 4337482 4341249 4340240 4340240 4335335 4343453 4336153 4337732 4329329		
<a href="#">beta-Alanine metabolism</a>	12	33	0.42381584305	0.999999998471	Ma05_g22240 Ma08_g15550 Ma05_g00590 Ma04_g28920 Ma00_g05010 Ma05_g05010 Ma00_g04600 Ma08_g30510 Ma10_g16940 Ma04_g06200 Ma04_g37810 Ma03_g06120	osa:4343249 osa:4351929 osa:4337046 osa:4342610 osa:4335335 osa:4340725 osa:4337360 osa:4344267 osa:4336153 osa:4342996 osa:4333932 osa:4340725	4343249 4351929 4337046 4342610 4335335 4340725 4337360 4344267 4336153 4342996 4333932 4340725		
<a href="#">Biosynthesis of unsaturated fatty acids</a>	14	40	0.455859534555	0.999999998471	Ma08_g20550 Ma03_g03560 Novel01373 Ma03_g00220 Ma08_g32940 Ma08_g04460 Ma10_g03470 Ma02_g24010 Ma06_g02940 Ma11_g15660 Ma06_g25950 Ma03_g13720 Ma11_g23050 Ma08_g21900	osa:4343598 osa:4330523 osa:4339846 osa:4331150 osa:4324844 osa:4340334 osa:4330523 osa:4340986 osa:4327738 osa:4348804 osa:4334104 osa:4331150 osa:4344389 osa:4344389	4343598 4330523 4339846 4331150 4324844 4340334 4330523 4340986 4327738 4348804 4334104 4331150 4344389 4344389		

<a href="#">Circadian rhythm - plant</a>	9	25	0.45988514401	0.99999998471	Ma11_g24610 Ma02_g24860 Ma10_g20600 Ma06_g09780 Ma02_g08710 Ma01_g01670 Ma04_g16680 Ma10_g20580 Ma10_g20560	osa:4350636 osa:4350636 osa:4350636 osa:4350636 osa:4349831 osa:4344703 osa:4344703 osa:4350636 osa:4350636	4350636 4350636 4350636 4350636 4349831 4344703 4344703 4350636 4350636		
<a href="#">Ether lipid metabolism</a>	8	22	0.46058215883	0.99999998471	Ma01_g08090 Ma01_g08380 Ma10_g26890 Ma04_g26360 Ma07_g11670 Ma10_g11950 Ma06_g37750 Ma07_g18790	osa:4327647 osa:4347745 osa:4327647 osa:4330302 osa:4333862 osa:4326465 osa:4327647 osa:4347745	4327647 4347745 4327647 4330302 4333862 4326465 4327647 4347745		
<a href="#">Tropane, piperidine and pyridine alkaloid biosynthesis</a>	6	16	0.461608444493	0.99999998471	Ma09_g03470 Ma06_g35980 Ma00_g05010 Ma10_g16940 Ma09_g29570 Ma09_g03450	osa:4332375 osa:4332375 osa:4335335 osa:4336153 osa:4329101 osa:4332375	4332375 4332375 4335335 4336153 4329101 4332375		
<a href="#">SNARE interactions in vesicular transport</a>	13	38	0.488784767123	0.99999998471	Ma04_g05470 Ma10_g29500 Ma05_g03860 Ma11_g17320 Ma01_g05280 Ma05_g21960 Ma09_g26290 Ma09_g00140 Ma08_g02910 Ma06_g32840 Ma07_g16800 Ma11_g15620 Ma09_g19180	osa:9271327 osa:4341413 osa:4327713 osa:4325070 osa:4327678 osa:4331172 osa:4334384 osa:4339549 osa:4334356 osa:4334356 osa:4331172 osa:4331172 osa:4328159	9271327 4341413 4327713 4325070 4327678 4331172 4334384 4339549 4334356 4334356 4331172 4331172 4328159		
<a href="#">Valine, leucine and isoleucine biosynthesis</a>	5	14	0.514612819123	0.99999998471	Ma06_g24910 Ma08_g03130 Ma03_g16070 Ma06_g30380 Ma03_g16060	osa:4339677 osa:4333898 osa:4339583 osa:4329938 osa:4332151	4339677 4333898 4339583 4329938 4332151		
<a href="#">Glycosaminoglycan degradation</a>	3	8	0.529522374345	0.99999998471	Ma05_g09350 Ma06_g01700 Ma06_g01670	osa:4339457 osa:4324914 osa:4338802	4339457 4324914 4338802		
<a href="#">Riboflavin metabolism</a>	3	8	0.529522374345	0.99999998471	Ma10_g24730 Ma04_g23230 Ma06_g32150	osa:4329733 osa:4348834 osa:4329733	4329733 4348834 4329733		
<a href="#">Glutathione metabolism</a>	26	80	0.535694730501	0.99999998471	Ma08_g05120 Ma11_g12290 Ma04_g04960 Ma02_g04250 Ma06_g34840 Ma02_g05000 Ma09_g26530 Ma01_g16820 Ma09_g26570 Ma11_g18850 Ma05_g07440 Ma08_g21800 Ma10_g09500 Ma07_g07290 Ma05_g26600 Ma08_g29310 Ma09_g26490 Ma10_g23010 Ma11_g17480 Ma06_g16830 Ma02_g13070 Ma03_g14250 Ma03_g17510 Ma09_g26520 Ma06_g38960 Ma04_g06200	osa:4342988 osa:4325710 osa:4325707 osa:4325710 osa:4332455 osa:4347319 osa:4346877 osa:4349192 osa:4346877 osa:4326828 osa:4325764 osa:4332455 osa:4346877 osa:4336886 osa:4336627 osa:4329889 osa:4346877 osa:4337696 osa:4351008 osa:4324526 osa:4331535 osa:4346337 osa:4339892 osa:4346877 osa:4336353 osa:4342996	4342988 4325710 4325707 4325710 4332455 4347319 4346877 4349192 4346877 4326828 4325764 4332455 4346877 4336886 4336627 4329889 4346877 4337696 4351008 4324526 4331535 4346337 4339892 4346877 4336353 4342996		
<a href="#">Phagosome</a>	26	80	0.535694730501	0.99999998471	Ma02_g03320 Ma04_g37240 Ma04_g13410 Ma04_g12700 Ma08_g05390 Ma07_g16530 Ma05_g29040 Ma09_g23510 Ma07_g03930 Ma03_g06030 Ma05_g03860	osa:4341810 osa:4327731 osa:4337284 osa:4345097 osa:4327833 osa:4352862 osa:4328420 osa:4341751 osa:4329132 osa:4330693 osa:4327713	4341810 4327731 4337284 4345097 4327833 4352862 4328420 4341751 4329132 4330693 4327713		

					Ma10_g29910 Ma03_g19260 Ma09_g26290 Ma07_g25660 Ma05_g16910 Ma07_g20040 Ma05_g18380 Ma04_g05470 Ma09_g13100 Ma06_g10030 Ma04_g11950 Ma06_g06270 Ma11_g13680 Ma09_g05400 Ma10_g06890	osa:4345628 osa:4326917 osa:4334384 osa:4327929 osa:4326917 osa:4345628 osa:4337563 osa:9271327 osa:4341707 osa:4326917 osa:4327550 osa:4350197 osa:4339262 osa:4327180 osa:4327180	4345628 4326917 4334384 4327929 4326917 4345628 4337563 9271327 4341707 4326917 4327550 4350197 4339262 4327180 4327180		
<a href="#">Sesquiterpenoid and triterpenoid biosynthesis</a>	2	5	0.542764831954	0.999999998471	Ma08_g04920 Ma08_g04900	osa:4332153 osa:4332153	4332153 4332153		
<a href="#">Tyrosine metabolism</a>	12	37	0.556204777175	0.999999998471	Ma04_g25530 Ma08_g29910 Ma07_g11500 Ma09_g08110 Ma00_g05010 Ma11_g15760 Ma08_g29610 Ma10_g16940 Ma02_g09950 Ma09_g29570 Ma04_g31940 Ma07_g11510	osa:4331130 osa:4350053 osa:4331893 osa:4350053 osa:4335335 osa:4343080 osa:4329692 osa:4336153 osa:4350053 osa:4329101 osa:4330090 osa:4331893	4331130 4350053 4331893 4350053 4335335 4343080 4329692 4336153 4350053 4329101 4330090 4331893		
<a href="#">Galactose metabolism</a>	17	54	0.589734685756	0.999999998471	Ma07_g13520 Ma10_g15780 Ma07_g01870 Ma05_g24340 Ma06_g37010 Ma06_g28330 Ma03_g16650 Ma07_g11340 Ma08_g15070 Ma02_g18360 Ma05_g09350 Ma10_g15800 Ma11_g24070 Ma07_g10560 Ma06_g10450 Ma09_g11280 Ma09_g23530	osa:4327301 osa:4335789 osa:4342703 osa:4341967 osa:4345925 osa:4339812 osa:4339812 osa:4348582 osa:4348230 osa:4327301 osa:4339457 osa:4335789 osa:4341824 osa:4327301 osa:4345925 osa:4348138 osa:4336928	4327301 4335789 4342703 4341967 4345925 4339812 4339812 4348582 4348230 4327301 4339457 4335789 4341824 4327301 4345925 4348138 4336928		
<a href="#">Porphyrin and chlorophyll metabolism</a>	11	35	0.593958950972	0.999999998471	Ma10_g05100 Ma06_g06810 Ma06_g24480 Ma09_g14110 Ma06_g09580 Ma10_g26330 Ma08_g14810 Ma06_g23970 Ma06_g00500 Ma08_g24890 Ma04_g31690	osa:4326901 osa:4341462 osa:4332771 osa:4341997 osa:4346136 osa:4327178 osa:4349044 osa:4326635 osa:4328118 osa:4330711 osa:4331611	4326901 4341462 4332771 4341997 4346136 4327178 4349044 4326635 4328118 4330711 4331611		
<a href="#">Folate biosynthesis</a>	6	19	0.600027438467	0.999999998471	Ma10_g14640 Ma09_g31410 Ma08_g00920 Ma10_g02550 Ma08_g25440 Ma09_g31420	osa:4331360 osa:4347851 osa:4337297 osa:4326358 osa:4328260 osa:4347851	4331360 4347851 4337297 4326358 4328260 4347851		
<a href="#">Limonene and pinene degradation</a>	4	14	0.677447351546	0.999999998471	Ma05_g05010 Ma07_g09040 Ma07_g06700 Ma03_g06120	osa:4340725 osa:4341325 osa:4349111 osa:4340725	4340725 4341325 4349111 4340725		
<a href="#">Tryptophan metabolism</a>	6	21	0.680613005808	0.999999998471	Ma03_g13760 Ma03_g10630 Ma11_g19670 Ma03_g06120 Ma05_g05010 Ma03_g14690	osa:4334994 osa:4351695 osa:4334994 osa:4340725 osa:4340725 osa:4328073	4334994 4351695 4334994 4340725 4340725 4328073		
<a href="#">Synthesis and degradation of ketone bodies</a>	2	7	0.687785698892	0.999999998471	Ma03_g12070 Ma04_g10090	osa:4331418 osa:4326266	4331418 4326266		
<a href="#">Lysine biosynthesis</a>	4	15	0.720869893526	0.999999998471	Ma05_g01700 Ma01_g16200 Ma06_g12620 Ma11_g13600	osa:4346642 osa:4332563 osa:4334188 osa:4332563	4346642 4332563 4334188 4332563		
<a href="#">Photosynthesis - antenna proteins</a>	4	15	0.720869893526	0.999999998471	Ma10_g15370 Ma09_g06640 Ma04_g07920	osa:4324599 osa:4324599 osa:4324599	4324599 4324599 4324599		

					Ma04_g14940	osa:4324599	4324599		
<a href="#">Glycosphingolipid biosynthesis - globo series</a>	2	8	0.744829693731	0.999999998471	Ma06_g01700 Ma06_g01670	osa:4324914 osa:4338802	4324914 4338802		
<a href="#">Arachidonic acid metabolism</a>	3	12	0.750526267163	0.999999998471	Ma06_g16830 Ma07_g11670 Ma05_g26600	osa:4324526 osa:4333862 osa:4336627	4324526 4333862 4336627		
<a href="#">Pyruvate metabolism</a>	21	75	0.761605341575	0.999999998471	Ma10_g21340 Ma02_g03830 Ma05_g25700 Ma04_g35390 Ma07_g06750 Ma06_g07450 Ma11_g01870 Ma03_g32890 Ma03_g06120 Ma10_g25720 Ma09_g30880 Ma04_g01300 Ma05_g05010 Ma09_g20570 Ma08_g08880 Ma06_g28550 Ma07_g06760 Ma01_g17610 Ma06_g21080 Ma03_g14310 Ma10_g12590	osa:4338007 osa:4338750 osa:4327423 osa:4349454 osa:4328012 osa:4338161 osa:4338324 osa:4326769 osa:4340725 osa:4345657 osa:4344858 osa:4352871 osa:4340725 osa:4337406 osa:4346159 osa:4345387 osa:4328012 osa:4337406 osa:4344858 osa:4346332 osa:4329518	4338007 4338750 4327423 4349454 4328012 4338161 4338324 4326769 4340725 4345657 4344858 4352871 4340725 4337406 4346159 4345387 4328012 4337406 4344858 4346332 4329518		
<a href="#">Biotin metabolism</a>	5	20	0.769922665216	0.999999998471	Ma08_g04460 Ma06_g01540 Ma06_g25950 Ma08_g20550 Ma04_g25940	osa:4340334 osa:4346185 osa:4334104 osa:4343598 osa:4345286	4340334 4346185 4334104 4343598 4345286		
<a href="#">Inositol phosphate metabolism</a>	12	45	0.773637394749	0.999999998471	Ma11_g24010 Ma03_g27370 Ma10_g29910 Ma03_g27870 Ma05_g31060 Ma04_g08270 Ma04_g28920 Ma09_g24600 Ma01_g14940 Ma05_g16190 Ma10_g11950 Ma07_g20040	osa:4328439 osa:4347947 osa:4345628 osa:4347691 osa:4325211 osa:4341305 osa:4342610 osa:4347691 osa:4331917 osa:4331917 osa:4326465 osa:4345628	4328439 4347947 4345628 4347691 4325211 4341305 4342610 4347691 4331917 4331917 4326465 4345628		
<a href="#">Pantothenate and CoA biosynthesis</a>	6	24	0.780052862267	0.999999998471	Ma05_g22240 Ma06_g24910 Ma06_g10670 Ma06_g30380 Ma03_g16070 Ma03_g16060	osa:4343249 osa:4339677 osa:4347680 osa:4329938 osa:4339583 osa:4332151	4343249 4339677 4347680 4329938 4339583 4332151		
<a href="#">Phosphatidylinositol signaling system</a>	11	43	0.805201457506	0.999999998471	Ma05_g08710 Ma07_g01400 Ma11_g24010 Ma03_g27370 Ma10_g29910 Ma03_g02590 Ma03_g26590 Ma01_g07590 Ma07_g20040 Ma01_g21300 Ma02_g03180	osa:4344344 osa:4344344 osa:4328439 osa:4347947 osa:4345628 osa:4352615 osa:4344344 osa:4326903 osa:4345628 osa:4344344 osa:4339172	4344344 4344344 4328439 4347947 4345628 4352615 4344344 4326903 4345628 4344344 4339172		
<a href="#">Glycerophospholipid metabolism</a>	18	68	0.814914948312	0.999999998471	Ma07_g10180 Ma01_g08090 Ma11_g18880 Ma03_g02590 Ma03_g21800 Ma09_g25530 Ma05_g29560 Ma01_g08380 Ma03_g25580 Ma01_g00390 Ma05_g12640 Ma05_g26380 Ma07_g11670 Ma10_g26890 Ma04_g26360 Ma06_g37750 Ma10_g11950 Ma07_g18790	osa:4350917 osa:4327647 osa:4326817 osa:4352615 osa:4339554 osa:4325633 osa:4351119 osa:4347745 osa:4351119 osa:4337344 osa:4349006 osa:4347160 osa:4333862 osa:4327647 osa:4330302 osa:4327647 osa:4326465 osa:4347745	4350917 4327647 4326817 4352615 4339554 4325633 4351119 4347745 4351119 4337344 4349006 4347160 4333862 4327647 4330302 4327647 4326465 4347745		
<a href="#">C5-Branched dibasic acid metabolism</a>	1	5	0.814977325051	0.999999998471	Ma06_g30380	osa:4329938	4329938		

<a href="#">Glyoxylate and dicarboxylate metabolism</a>	15	58	0.821874423293	0.999999998471	Ma06_g21190 osa:4337048 4337048 Ma06_g08130 osa:4352058 4352058 Ma07_g22000 osa:4345962 4345962 Ma03_g01840 osa:4343908 4343908 Ma09_g07020 osa:4352058 4352058 Ma04_g01300 osa:4352871 4352871 Ma01_g01610 osa:4349114 4349114 Ma10_g25720 osa:4345657 4345657 Ma07_g15870 osa:4328326 4328326 Ma05_g25700 osa:4327423 4327423 Ma06_g24830 osa:3131463 3131463 Ma05_g21330 osa:4327981 4327981 Ma03_g21060 osa:4330649 4330649 Ma00_g04030 osa:4330649 4330649 Ma03_g14690 osa:4328073 4328073		
<a href="#">Protein processing in endoplasmic reticulum</a>	58	203	0.82635791996	0.999999998471	Ma09_g07430 osa:4351875 4351875 Novel00479 osa:4329219 4329219 Ma01_g14540 osa:4332357 4332357 Ma05_g23160 osa:4336483 4336483 Ma09_g23200 osa:4345893 4345893 Ma10_g21080 osa:4325341 4325341 Ma09_g19460 osa:4342702 4342702 Ma06_g13850 osa:4351875 4351875 Ma01_g14490 osa:4332361 4332361 Ma04_g11590 osa:4332360 4332360 Ma07_g24310 osa:4334781 4334781 Ma10_g26270 osa:4332538 4332538 Ma09_g12320 osa:4346639 4346639 Ma10_g16680 osa:4332237 4332237 Ma10_g20390 osa:4326152 4326152 Ma05_g18410 osa:4335881 4335881 Ma04_g26080 osa:4337331 4337331 Ma07_g19070 osa:4328114 4328114 Ma11_g07190 osa:4336483 4336483 Novel00994 osa:4342827 4342827 Ma10_g11310 osa:4350180 4350180 Ma08_g21660 osa:4351208 4351208 Ma02_g18000 osa:4351208 4351208 Ma09_g00500 osa:4332361 4332361 Ma01_g05370 osa:4324566 4324566 Ma06_g30090 osa:4351875 4351875 Ma08_g34730 osa:4339012 4339012 Ma02_g04060 osa:4326806 4326806 Ma10_g06370 osa:9267802 9267802 Ma08_g14870 osa:4327971 4327971 Ma07_g17020 osa:4335701 4335701 Ma10_g14420 osa:4338088 4338088 Ma08_g02190 osa:4332363 4332363 Ma04_g37750 osa:4333580 4333580 Ma07_g14960 osa:4332391 4332391 Ma08_g21650 osa:4351208 4351208 Ma06_g07350 osa:4328940 4328940 Ma10_g06820 osa:4328940 4328940 Ma03_g29390 osa:4345893 4345893 Ma04_g02540 osa:4328940 4328940 Ma07_g25660 osa:4327929 4327929 Ma11_g22310 osa:4339013 4339013 Ma06_g31680 osa:4333580 4333580 Ma08_g10290 osa:4327708 4327708 Ma09_g26390 osa:4333580 4333580 Ma05_g07260 osa:4337331 4337331 Ma09_g13100 osa:4341707 4341707 Ma09_g00490 osa:4332360 4332360 Ma07_g19020 osa:4342077 4342077 Ma10_g29000 osa:4334781 4334781 Ma04_g12700 osa:4345097 4345097 Ma09_g24030 osa:4331645 4331645 Ma03_g17190 osa:4328940 4328940 Ma11_g13680 osa:4339262 4339262 Ma03_g23000 osa:4350002 4350002 Ma09_g03950 osa:4351208 4351208 Ma01_g10230 osa:4350002 4350002 Ma02_g05870 osa:4336483 4336483		
<a href="#">Regulation of autophagy</a>	6	26	0.832074498419	0.999999998471	Ma05_g15170 osa:4336527 4336527 Ma11_g23590 osa:4349525 4349525 Ma03_g20520 osa:4325756 4325756 Ma11_g05750 osa:4325756 4325756 Ma02_g07930 osa:4334090 4334090 Ma06_g27130 osa:4336527 4336527		
<a href="#">One carbon pool by folate</a>	3	15	0.854536604203	0.999999998471	Ma06_g08130 osa:4352058 4352058 Ma06_g21100 osa:4337051 4337051 Ma09_g07020 osa:4352058 4352058		
<a href="#">N-Glycan biosynthesis</a>	8	35	0.861321660802	0.999999998471	Ma04_g39490 osa:4331021 4331021 Ma07_g17020 osa:4335701 4335701 Ma10_g14420 osa:4338088 4338088		

					Ma05_g10890 Ma09_g19460 Ma05_g23550 Ma06_g12590 Ma08_g29090	osa:4334626 osa:4342702 osa:4344180 osa:4352649 osa:4336162	4334626 4342702 4344180 4352649 4336162		
<a href="#">Fatty acid metabolism</a>	18	72	0.870285548073	0.999999998471	Ma08_g20550 Ma03_g03560 Ma03_g00220 Novel01373 Ma08_g32940 Ma08_g04460 Ma10_g03470 Ma04_g25940 Ma02_g24010 Ma09_g29260 Ma06_g02940 Ma08_g30510 Ma11_g15660 Ma02_g10050 Ma06_g25950 Ma03_g13720 Ma11_g23050 Ma08_g21900	osa:4343598 osa:4330523 osa:4331150 osa:4339846 osa:4324844 osa:4340334 osa:4330523 osa:4345286 osa:4340986 osa:4340093 osa:4327738 osa:4344267 osa:4348804 osa:4351610 osa:4334104 osa:4331150 osa:4344389 osa:4344389	4343598 4330523 4331150 4339846 4324844 4340334 4330523 4345286 4340986 4340093 4327738 4344267 4348804 4351610 4334104 4331150 4344389 4344389		
<a href="#">Fatty acid elongation</a>	5	24	0.873077299041	0.999999998471	Ma10_g28390 Ma04_g32180 Ma07_g08400 Ma09_g06710 Ma04_g22350	osa:4341445 osa:4332236 osa:4341445 osa:4339645 osa:4332236	4341445 4332236 4341445 4339645 4332236		
<a href="#">Isoquinoline alkaloid biosynthesis</a>	4	20	0.874496623126	0.999999998471	Ma09_g29570 Ma11_g15760 Ma10_g16940 Ma00_g05010	osa:4329101 osa:4343080 osa:4336153 osa:4335335	4329101 4343080 4336153 4335335		
<a href="#">Butanoate metabolism</a>	4	20	0.874496623126	0.999999998471	Ma03_g12070 Ma04_g10090 Ma04_g37810 Ma06_g30380	osa:4331418 osa:4326266 osa:4333932 osa:4329938	4331418 4326266 4333932 4329938		
<a href="#">Selenocompound metabolism</a>	3	16	0.879599112455	0.999999998471	Ma04_g28070 Ma08_g27570 Ma01_g07600	osa:4352833 osa:4334073 osa:4334073	4352833 4334073 4334073		
<a href="#">Taurine and hypotaurine metabolism</a>	3	16	0.879599112455	0.999999998471	Ma04_g37810 Ma06_g16830 Ma05_g06070	osa:4333932 osa:4324526 osa:4339793	4333932 4324526 4339793		
<a href="#">Non-homologous end-joining</a>	1	7	0.894593071931	0.999999998471	Ma04_g11140	osa:4334058	4334058		
<a href="#">2-Oxocarboxylic acid metabolism</a>	10	46	0.909844060255	0.999999998471	Novel00760 Ma06_g12620 Ma06_g24910 Ma09_g07280 Ma05_g15910 Ma06_g30380 Ma11_g23060 Ma03_g16060 Ma03_g16070 Ma06_g38960	osa:4324442 osa:4334188 osa:4339677 osa:4329858 osa:4333177 osa:4329938 osa:4343164 osa:4332151 osa:4339583 osa:4336353	4324442 4334188 4339677 4329858 4333177 4329938 4343164 4332151 4339583 4336353		
<a href="#">Nicotinate and nicotinamide metabolism</a>	2	13	0.913616942477	0.999999998471	Ma03_g23860 Ma04_g11720	osa:4346302 osa:4347802	4346302 4347802		
<a href="#">Vitamin B6 metabolism</a>	1	8	0.920443993561	0.999999998471	Ma08_g32190	osa:4342162	4342162		
<a href="#">Terpenoid backbone biosynthesis</a>	10	47	0.920636693493	0.999999998471	Ma03_g12070 Ma10_g17260 Ma01_g17990 Ma05_g14980 Ma03_g26140 Ma08_g04770 Ma10_g03310 Ma05_g05920 Ma08_g24890 Ma04_g36760	osa:4331418 osa:4343523 osa:4343721 osa:4342614 osa:4338768 osa:4334003 osa:4327435 osa:4340090 osa:4330711 osa:4340251	4331418 4343523 4343721 4342614 4338768 4334003 4327435 4340090 4330711 4340251		
<a href="#">Fatty acid biosynthesis</a>	8	40	0.929561563742	0.999999998471	Ma08_g20550 Ma08_g32940 Ma08_g04460 Ma04_g25940 Ma09_g29260 Ma06_g02940 Ma06_g25950 Ma02_g10050	osa:4343598 osa:4324844 osa:4340334 osa:4345286 osa:4340093 osa:4327738 osa:4334104 osa:4351610	4343598 4324844 4340334 4345286 4340093 4327738 4334104 4351610		
<a href="#">Sulfur relay system</a>	2	14	0.931202210704	0.999999998471	Ma08_g25440 Ma09_g01760	osa:4328260 osa:4329515	4328260 4329515		
<a href="#">Protein export</a>	12	56	0.932416741078	0.999999998471	Ma09_g26120 Ma09_g13100 Ma04_g12700	osa:4324712 osa:4341707 osa:4345097	4324712 4341707 4345097		

					Novel00479 Ma04_g27690 Ma02_g14460 Ma01_g07050 Ma07_g25660 Ma07_g08190 Ma10_g28590 Ma09_g03980 Ma10_g25180	osa:4329219 osa:4333514 osa:4333514 osa:4352133 osa:4327929 osa:4347239 osa:4347239 osa:4324524 osa:4324904	4329219 4333514 4333514 4352133 4327929 4347239 4347239 4324524 4324904		
<a href="#">Alanine, aspartate and glutamate metabolism</a>	8	41	0.938992046977	0.999999998471	Ma07_g22000 Ma10_g18940 Ma02_g12240 Ma03_g27120 Ma04_g37810 Ma03_g21060 Ma00_g04030 Ma08_g28590	osa:4345962 osa:4331779 osa:4330164 osa:4326346 osa:4333932 osa:4330649 osa:4330649 osa:4324398	4345962 4331779 4330164 4326346 4333932 4330649 4330649 4324398		
<a href="#">Mismatch repair</a>	8	42	0.947294033432	0.999999998471	Ma00_g02630 Ma09_g22290 Ma03_g03030 Ma03_g01100 Ma05_g26770 Ma07_g18410 Ma07_g04480 Ma08_g16890	osa:4327706 osa:4326564 osa:4326359 osa:4326359 osa:4325353 osa:4337442 osa:4331062 osa:4334389	4327706 4326564 4326359 4326359 4325353 4337442 4331062 4334389		
<a href="#">Ubiquitin mediated proteolysis</a>	28	119	0.953260347946	0.999999998471	Ma01_g23000 Ma11_g22700 Ma11_g19850 Ma09_g16250 Ma06_g19950 Ma09_g12320 Ma07_g14460 Novel00180 Ma04_g26080 Ma07_g19070 Ma10_g26170 Ma09_g00210 Ma01_g23720 Ma03_g05450 Ma06_g31510 Ma10_g20390 Novel01258 Ma01_g22160 Ma06_g28570 Ma06_g07350 Ma10_g06820 Ma04_g02540 Ma01_g19370 Ma11_g22310 Ma08_g12680 Ma08_g00590 Ma03_g17190 Ma05_g07260	osa:4330430 osa:4336870 osa:4331448 osa:4344172 osa:4338850 osa:4346639 osa:4329066 osa:4326397 osa:4337331 osa:4328114 osa:4329066 osa:4324290 osa:4330430 osa:4331446 osa:4333728 osa:4326152 osa:4330430 osa:4330430 osa:4325905 osa:4328940 osa:4328940 osa:4328940 osa:4328940 osa:4330430 osa:4339013 osa:4339013 osa:4348796 osa:4327237 osa:4328940 osa:4337331	4330430 4336870 4331448 4344172 4338850 4346639 4329066 4326397 4337331 4328114 4329066 4324290 4330430 4331446 4333728 4326152 4330430 4330430 4325905 4328940 4328940 4328940 4328940 4330430 4339013 4339013 4348796 4327237 4328940 4337331		
<a href="#">Diterpenoid biosynthesis</a>	4	27	0.965093654715	0.999999998471	Ma03_g28580 Ma02_g01570 Ma10_g20860 Ma10_g21550	osa:4339885 osa:4334841 osa:4336960 osa:4325145	4339885 4334841 4336960 4325145		
<a href="#">Citrate cycle (TCA cycle)</a>	9	50	0.970263586407	0.999999998471	Novel00760 Ma05_g25700 Ma11_g21050 Ma10_g25720 Ma08_g08880 Ma04_g01300 Ma08_g06070 Ma06_g38960 Ma09_g07280	osa:4324442 osa:4327423 osa:4330016 osa:4345657 osa:4346159 osa:4352871 osa:4352549 osa:4336353 osa:4329858	4324442 4327423 4330016 4345657 4346159 4352871 4352549 4336353 4329858		
<a href="#">Lysine degradation</a>	3	25	0.981067811724	0.999999998471	Ma05_g05010 Ma05_g29990 Ma03_g06120	osa:4340725 osa:4339168 osa:4340725	4340725 4339168 4340725		
<a href="#">RNA polymerase</a>	6	44	0.991457022413	0.999999998471	Ma07_g05720 Ma06_g27690 Ma10_g17250 Ma04_g20190 Ma10_g18010 Ma10_g21000	osa:4352511 osa:4351671 osa:4342517 osa:4331295 osa:4333888 osa:4325336	4352511 4351671 4342517 4331295 4333888 4325336		
<a href="#">RNA degradation</a>	17	92	0.991470079071	0.999999998471	Ma09_g30300 Ma01_g03570 Ma09_g00960 Ma11_g06010 Ma07_g17220 Ma03_g23620 Ma10_g13820 Ma07_g05920 Ma09_g17850	osa:4337457 osa:4340042 osa:4336331 osa:4339910 osa:4331095 osa:4325074 osa:4325469 osa:4331379 osa:4339910	4337457 4340042 4336331 4339910 4331095 4325074 4325469 4331379 4339910		



					Ma05_g05050 Ma03_g28660 Ma01_g00690 Ma11_g08900 Ma02_g07050 Ma11_g20920 Ma10_g09070 Novel01023	osa:4340042 osa:4339910 osa:4331006 osa:4335963 osa:4331006 osa:4348176 osa:4348824 osa:4349826	4340042 4339910 4331006 4335963 4331006 4348176 4348824 4349826		
<a href="#">Purine metabolism</a>	27	135	0.994131692559	0.999999998471	Ma02_g13970 Ma03_g05860 Ma06_g30180 Ma04_g10990 Ma07_g24940 Ma07_g05720 Ma04_g39070 Ma03_g23680 Ma06_g27690 Ma04_g20190 Ma08_g15070 Ma10_g13290 Ma06_g17200 Ma03_g03600 Ma05_g18090 Ma05_g20350 Ma05_g01630 Ma10_g17250 Ma04_g19680 Ma00_g02390 Ma04_g35390 Ma08_g27570 Ma10_g18010 Ma09_g20570 Ma10_g21000 Ma01_g17610 Ma01_g07600	osa:4328168 osa:4329701 osa:4350358 osa:4343681 osa:4344470 osa:4352511 osa:4352670 osa:4324793 osa:4351671 osa:4331295 osa:4348230 osa:4344386 osa:4344386 osa:4328168 osa:4344854 osa:4334308 osa:4352670 osa:4342517 osa:4333020 osa:4344315 osa:4349454 osa:4334073 osa:4333888 osa:4337406 osa:4325336 osa:4337406 osa:4334073	4328168 4329701 4350358 4343681 4344470 4352511 4352670 4324793 4351671 4331295 4348230 4344386 4344386 4328168 4344854 4334308 4352670 4342517 4333020 4344315 4349454 4334073 4333888 4337406 4325336 4337406 4334073		
<a href="#">Oxidative phosphorylation</a>	29	144	0.994874413158	0.999999998471	Ma09_g19700 Ma04_g37240 mito3_g00150 Novel01453 Ma06_g04550 Ma08_g05390 Ma05_g02000 Ma03_g04410 Ma10_g09000 Ma03_g23630 Ma09_g23510 Ma03_g29190 Ma11_g10950 Ma04_g13410 Ma05_g04210 Ma09_g30540 Ma04_g31640 Ma04_g13500 Ma01_g17210 Ma09_g26790 Ma10_g29140 Ma07_g22370 Ma02_g07140 Ma05_g23990 Ma05_g18380 Ma03_g21780 Ma05_g16030 Ma05_g08470 Ma02_g06820	osa:4345078 osa:4327731 osa:6450138 osa:6450140 osa:4341645 osa:4327833 osa:4334276 osa:4337257 osa:4331914 osa:4338911 osa:4341751 osa:4337257 osa:4344095 osa:4337284 osa:4337257 osa:4349859 osa:4343366 osa:4324151 osa:4330737 osa:4330852 osa:4339127 osa:4340298 osa:4341645 osa:4329497 osa:4337563 osa:4339546 osa:4343288 osa:4334266 osa:4337257	4345078 4327731 6450138 6450140 4341645 4327833 4334276 4337257 4331914 4338911 4341751 4337257 4344095 4337284 4337257 4349859 4343366 4324151 4330737 4330852 4339127 4340298 4341645 4329497 4337563 4339546 4343288 4334266 4337257		
<a href="#">Nucleotide excision repair</a>	11	70	0.994884054687	0.999999998471	Ma00_g02630 Ma02_g00580 Ma03_g03030 Ma03_g01100 Ma10_g00880 Ma10_g20390 Ma07_g04480 Ma02_g24270 Ma09_g16500 Ma08_g16890 Ma10_g01030	osa:4327706 osa:4331991 osa:4326359 osa:4326359 osa:4331991 osa:4326152 osa:4331062 osa:4340268 osa:4338689 osa:4334389 osa:4331991	4327706 4331991 4326359 4326359 4331991 4326152 4331062 4340268 4338689 4334389 4331991		
<a href="#">Photosynthesis</a>	13	79	0.995057712848	0.999999998471	Ma01_g17210 Ma06_g30010 Ma07_g24600 Ma04_g22620 Ma01_g04250 Ma01_g07340 Ma01_g10240 Ma09_g25040 Ma05_g20780 Ma04_g31640	osa:4330737 osa:4344539 osa:4324933 osa:4339874 osa:4332745 osa:4339593 osa:4324933 osa:4343570 osa:4333746 osa:4343366	4330737 4344539 4324933 4339874 4332745 4339593 4324933 4343570 4333746 4343366		

					Ma06_g22930 Ma09_g31020 Ma00_g01500	osa:3131406 osa:4344899 osa:4351694	3131406 4344899 4351694		
<a href="#">Base excision repair</a>	5	43	0.996075565534	0.999999998471	Ma00_g04410 Ma09_g18880 Ma07_g04480 Ma09_g08730 Ma03_g20210	osa:4340610 osa:4327631 osa:4331062 osa:4329546 osa:9268162	4340610 4327631 4331062 4329546 9268162		
<a href="#">Basal transcription factors</a>	4	41	0.998089655094	0.999999998471	Ma02_g24270 Ma07_g14950 Ma09_g16500 Ma08_g04080	osa:4340268 osa:4338303 osa:4338689 osa:4338489	4340268 4338303 4338689 4338489		
<a href="#">DNA replication</a>	6	54	0.998776823359	0.999999998471	Ma00_g02630 Ma09_g22290 Ma03_g03030 Ma03_g01100 Ma07_g04480 Ma08_g16890	osa:4327706 osa:4326564 osa:4326359 osa:4326359 osa:4331062 osa:4334389	4327706 4326564 4326359 4326359 4331062 4334389		
<a href="#">Pyrimidine metabolism</a>	18	112	0.999090794187	0.999999998471	Ma07_g25460 Ma05_g22240 Ma03_g23860 Ma07_g05720 Ma06_g22860 Ma03_g05860 Ma11_g14310 Ma10_g17250 Ma04_g20190 Ma10_g18010 Ma08_g34680 Ma10_g21000 Ma03_g26340 Ma00_g02390 Ma03_g33280 Ma06_g27690 Ma03_g27120 Ma04_g18630	osa:4325937 osa:4343249 osa:4346302 osa:4352511 osa:4345970 osa:4329701 osa:4326794 osa:4342517 osa:4331295 osa:4333888 osa:4328991 osa:4325336 osa:4339675 osa:4344315 osa:4339675 osa:4351671 osa:4326346 osa:4330910	4325937 4343249 4346302 4352511 4345970 4329701 4326794 4342517 4331295 4333888 4328991 4325336 4339675 4344315 4339675 4351671 4326346 4330910		
<a href="#">RNA transport</a>	27	151	0.999198397886	0.999999998471	Novel00268 Ma10_g22060 Ma08_g25720 Ma07_g06260 Ma07_g25820 Ma05_g05900 Ma08_g25330 Ma10_g26270 Ma11_g21440 Ma10_g22900 Ma11_g11420 Ma01_g08110 Ma03_g05450 Ma05_g06180 Ma05_g30450 Ma11_g00380 Ma10_g17580 Ma10_g13420 Ma09_g00960 Ma11_g01580 Ma06_g16850 Ma02_g15900 Ma03_g29330 Ma01_g23590 Novel00994 Ma06_g03260 Ma07_g21170	osa:9272123 osa:4328994 osa:4346861 osa:4346657 osa:4329091 osa:4325312 osa:9272123 osa:4332538 osa:4343565 osa:4331813 osa:4345234 osa:4343445 osa:4331446 osa:4328286 osa:4338508 osa:4352748 osa:4343885 osa:4331813 osa:4336331 osa:4339487 osa:4332426 osa:4343445 osa:4329958 osa:4328129 osa:4342827 osa:4325312 osa:4341966	9272123 4328994 4346861 4346657 4329091 4325312 9272123 4332538 4343565 4331813 4345234 4343445 4331446 4328286 4338508 4352748 4343885 4331813 4336331 4339487 4332426 4343445 4329958 4328129 4342827 4325312 4341966		
<a href="#">Homologous recombination</a>	5	53	0.999517955441	0.999999998471	Ma03_g01100 Ma10_g18640 Ma00_g02630 Ma09_g22290 Ma03_g03030	osa:4326359 osa:4350923 osa:4327706 osa:4326564 osa:4326359	4326359 4350923 4327706 4326564 4326359		
<a href="#">Ribosome biogenesis in eukaryotes</a>	10	90	0.999937688376	0.999999998471	Ma06_g24800 Ma08_g09760 Ma11_g00580 Ma06_g03260 Ma03_g03000 Ma02_g19150 Ma05_g05900 Ma04_g29900 Novel01023 Ma07_g17880	osa:4343836 osa:4332840 osa:4344029 osa:4325312 osa:4334688 osa:4333588 osa:4325312 osa:4329057 osa:4349826 osa:4342225	4343836 4332840 4344029 4325312 4334688 4333588 4325312 4329057 4349826 4342225		
<a href="#">mRNA surveillance pathway</a>	12	107	0.999982676481	0.999999998471	Ma05_g06260 Ma00_g01270 Ma04_g35150 Ma08_g20050 Ma09_g00960 Ma09_g29350	osa:4328769 osa:4337821 osa:4334494 osa:4334494 osa:4336331 osa:4328733	4328769 4337821 4334494 4334494 4336331 4328733		

					Ma03_g10420 Ma06_g16850 Ma11_g23760 Ma03_g02170 Ma11_g12380 Ma04_g31750	osa:4347363 osa:4332426 osa:4326473 osa:4350986 osa:4326473 osa:4332369	4347363 4332426 4326473 4350986 4326473 4332369		
<a href="#">Proteasome</a>	4	64	0.999990567681	0.999999998471	Ma06_g03710 Novel01107 Ma10_g16670 Ma07_g23430	osa:4340253 osa:4344373 osa:4336206 osa:4329182	4340253 4344373 4336206 4329182		
<a href="#">Spliceosome</a>	28	196	0.999997933999	0.999999998471	Ma09_g07430 Ma06_g13850 Ma07_g00810 Ma02_g18000 Ma09_g12480 Ma09_g14000 Ma04_g03360 Ma07_g06260 Ma07_g20610 Ma05_g24890 Ma08_g10020 Ma08_g21660 Novel01291 Ma05_g17410 Ma01_g10610 Novel00736 Ma08_g34730 Ma09_g12490 Ma06_g30090 Ma06_g16850 Ma09_g15600 Ma03_g23620 Ma06_g21110 Ma06_g14060 Ma05_g17110 Ma08_g21650 Ma04_g17280 Ma09_g03950	osa:4351875 osa:4351875 osa:4347985 osa:4351208 osa:4345910 osa:4336619 osa:4352279 osa:4346657 osa:4337147 osa:4329810 osa:4332781 osa:4351208 osa:4333866 osa:4340964 osa:4328900 osa:4343339 osa:4339012 osa:4345254 osa:4351875 osa:4332426 osa:4329902 osa:4325074 osa:4328237 osa:4346506 osa:4348949 osa:4351208 osa:4333915 osa:4351208	4351875 4351875 4347985 4351208 4345910 4336619 4352279 4346657 4337147 4329810 4332781 4351208 4333866 4340964 4328900 4343339 4339012 4345254 4351875 4332426 4329902 4325074 4328237 4346506 4348949 4351208 4333915 4351208		
<a href="#">Aminoacyl-tRNA biosynthesis</a>	6	114	0.999999998471	0.999999998471	Ma08_g32300 Ma06_g20600 Ma05_g24170 Ma06_g00500 Novel01353 Ma00_g01370	osa:4325717 osa:4325717 osa:4348825 osa:4328118 osa:4346920 osa:4352065	4325717 4325717 4348825 4328118 4346920 4352065		