



**downregulated genes**

GO:0044237	P	cellular metabolic process	26	47	8722	37767	1.90E-06	7.50E-05	At4g20960, At2g02220, At5g54770, At1g06430, At1g70600, At1g55090, At1g08380, At3g24190, At2g34480, At1g12900
GO:0015979	P	photosynthesis	5	47	162	37767	2.10E-06	7.50E-05	At3g55800, At3g27690, At1g61520, At1g08380, At3g01440
GO:0034641	P	cellular nitrogen compound metabolic process	7	47	506	37767	3.20E-06	7.70E-05	At4g20960, At1g55090, At5g54770, At4g27440, At4g38970, At5g17920, At2g43360
GO:0008152	P	metabolic process	28	47	10614	37767	6.60E-06	0.00012	At4g20960, At2g02220, At5g54770, At1g06430, At4g20760, At1g70600, At1g55090, At1g08380, At3g24190, At2g34480
GO:0044271	P	cellular nitrogen compound biosynthetic process	5	47	394	37767	0.00014	0.0018	At4g20960, At2g43360, At5g54770, At4g27440, At5g17920
GO:0009987	P	cellular process	27	47	11684	37767	0.00015	0.0018	At4g20960, At2g02220, At5g54770, At1g06430, At1g70600, At1g55090, At1g08380, At3g24190, At2g34480, At1g12900
GO:0001883	F	purine nucleoside binding	7	47	1465	37767	0.0021	0.014	At1g55090, At2g02220, At3g24190, At3g28540, At3g03960, At4g28070, At2g45340
GO:0001882	F	nucleoside binding	7	47	1465	37767	0.0021	0.014	At1g55090, At2g02220, At3g24190, At3g28540, At3g03960, At4g28070, At2g45340
GO:0000166	F	nucleotide binding	9	47	2267	37767	0.0017	0.014	At1g55090, At2g02220, At3g24190, At2g45340, At3g28540, At3g03960, At4g28070, At5g04810, At1g43190
GO:0005524	F	ATP binding	7	47	1377	37767	0.0015	0.014	At1g55090, At2g02220, At3g24190, At3g28540, At3g03960, At4g28070, At2g45340
GO:0003824	F	catalytic activity	22	47	9638	37767	0.0013	0.014	At4g20960, At4g24780, At2g02220, At1g06430, At3g26060, At4g27440, At5g19220, At1g55090, At3g24190, At3g28540
GO:0030554	F	adenyl nucleotide binding	7	47	1465	37767	0.0021	0.014	At1g55090, At2g02220, At3g24190, At3g28540, At3g03960, At4g28070, At2g45340
GO:0032559	F	adenyl ribonucleotide binding	7	47	1384	37767	0.0016	0.014	At1g55090, At2g02220, At3g24190, At3g28540, At3g03960, At4g28070, At2g45340
GO:0032555	F	purine ribonucleotide binding	7	47	1631	37767	0.0039	0.02	At1g55090, At2g02220, At3g24190, At3g28540, At3g03960, At4g28070, At2g45340
GO:0032553	F	ribonucleotide binding	7	47	1631	37767	0.0039	0.02	At1g55090, At2g02220, At3g24190, At3g28540, At3g03960, At4g28070, At2g45340
GO:0017076	F	purine nucleotide binding	7	47	1713	37767	0.0051	0.023	At1g55090, At2g02220, At3g24190, At3g28540, At3g03960, At4g28070, At2g45340
GO:0044435	C	plastid part	10	47	867	37767	1.00E-07	4.00E-06	At3g63140, At2g47400, At5g54770, At5g17670, At1g61520, At3g26060, At3g01440, At4g38970, At5g38410, At5g13630
GO:0009507	C	chloroplast	16	47	2740	37767	1.00E-07	4.00E-06	At4g20960, At3g63140, At5g17670, At2g47400, At3g24190, At5g54770, At4g27440, At1g06430, At1g61520, At3g26060
GO:0009536	C	plastid	16	47	2965	37767	3.00E-07	6.40E-06	At4g20960, At3g63140, At5g17670, At2g47400, At3g24190, At5g54770, At4g27440, At1g06430, At1g61520, At3g26060
GO:0044434	C	chloroplast part	9	47	746	37767	3.30E-07	6.40E-06	At3g63140, At2g47400, At5g17670, At1g61520, At3g26060, At3g01440, At4g38970, At5g38410, At5g13630
GO:0044446	C	intracellular organelle part	14	47	2561	37767	1.80E-06	2.00E-05	At3g63140, At2g47400, At5g13930, At5g54770, At2g34480, At5g17670, At1g61520, At3g26060, At3g01440, At4g38970
GO:0044444	C	cytoplasmic part	22	47	6289	37767	1.50E-06	2.00E-05	At4g20960, At5g54770, At1g06430, At3g26060, At1g70600, At5g46580, At3g24190, At2g34480, At5g13930, At5g04810
GO:0044422	C	organelle part	14	47	2562	37767	1.80E-06	2.00E-05	At3g63140, At2g47400, At5g13930, At5g54770, At2g34480, At5g17670, At1g61520, At3g26060, At3g01440, At4g38970
GO:0005622	C	intracellular	27	47	9671	37767	3.70E-06	3.60E-05	At4g20960, At5g54770, At1g06430, At3g26060, At1g70600, At5g46580, At3g15680, At1g08380, At3g24190, At2g34480
GO:0005737	C	cytoplasm	22	47	6822	37767	6.00E-06	5.10E-05	At4g20960, At5g54770, At1g06430, At3g26060, At1g70600, At5g46580, At3g24190, At2g34480, At5g13930, At5g04810
GO:0044424	C	intracellular part	26	47	9302	37767	6.70E-06	5.20E-05	At4g20960, At5g54770, At1g06430, At3g26060, At1g70600, At5g46580, At1g08380, At3g24190, At2g34480, At5g13930
GO:0043226	C	organelle	22	47	8155	37767	0.00011	0.0007	At4g20960, At5g54770, At1g06430, At3g26060, At1g70600, At5g46580, At3g24190, At2g34480, At5g13930, At5g04810
GO:0043229	C	intracellular organelle	22	47	8149	37767	0.00011	0.0007	At4g20960, At5g54770, At1g06430, At3g26060, At1g70600, At5g46580, At3g24190, At2g34480, At5g13930, At5g04810
GO:0005623	C	cell	31	47	15217	37767	0.00034	0.0018	At4g20960, At4g24780, At5g54770, At1g06430, At3g26060, At1g70600, At5g46580, At3g15680, At1g08380, At2g45340
GO:0044464	C	cell part	31	47	15217	37767	0.00034	0.0018	At4g20960, At4g24780, At5g54770, At1g06430, At3g26060, At1g70600, At5g46580, At3g15680, At1g08380, At2g45340
GO:0032991	C	macromolecular complex	9	47	2180	37767	0.0013	0.0067	At1g08380, At5g38410, At3g27690, At2g34480, At1g61520, At3g01440, At2g07696, At1g70600, At5g13630
GO:0043227	C	membrane-bounded organelle	18	47	7622	37767	0.0033	0.015	At4g20960, At1g43190, At3g63140, At5g17670, At2g47400, At3g24190, At5g54770, At4g27440, At1g06430, At1g61520
GO:0043231	C	intracellular membrane-bounded organelle	18	47	7615	37767	0.0032	0.015	At4g20960, At1g43190, At3g63140, At5g17670, At2g47400, At3g24190, At5g54770, At4g27440, At1g06430, At1g61520
GO:0043234	C	protein complex	6	47	1443	37767	0.0088	0.036	At1g08380, At5g38410, At3g27690, At1g61520, At3g01440, At5g13630
GO:0043232	C	intracellular non-membrane-bounded organelle	5	47	1040	37767	0.0094	0.036	At1g70600, At5g41790, At2g34480, At5g38410, At2g07696
GO:0043228	C	non-membrane-bounded organelle	5	47	1040	37767	0.0094	0.036	At1g70600, At5g41790, At2g34480, At5g38410, At2g07696