

GO Term	% in Genome Cluster	% in p-value definition
GO:0006952	1.9%	8.9% 10^{-30}
GO:0016020	23.5%	38.3% 10^{-30}
GO:0012505	14.6%	25.6% $10^{-10.9}$
GO:0050896	8.9%	20.2% $10^{-10.5}$
GO:0004888	0.7%	3.7% $10^{-8.6}$
GO:0003700	6.3%	13.2% $10^{-8.3}$

defense response

membrane

endomembrane system

response to stimulus

transmembrane receptor activity

transcription factor activity

GO Term	% in Genome Cluster	% in p-value definition
GO:0006350	6.0%	11.6% $10^{-6.6}$
GO:0045449	5.7%	10.9% $10^{-6.1}$
GO:0019219	5.8%	10.9% $10^{-6.0}$
GO:0031323	5.9%	11.1% $10^{-5.9}$
GO:0019222	6.0%	11.1% $10^{-5.7}$
GO:0006355	3.5%	7.5% $10^{-5.6}$

transcription

regulation of transcription

regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolism

regulation of cellular metabolism

regulation of metabolism

regulation of transcription, DNA-dependent

GO Term	% in Genome Cluster	% in p-value definition
GO:0004126	0.0%	2.3% $10^{-8.0}$
GO:0019005	0.1%	2.8% $10^{-7.5}$
GO:0031461	0.1%	2.8% $10^{-7.3}$
GO:0019239	0.1%	2.3% $10^{-7.3}$
GO:0030528	6.8%	17.6% $10^{-7.2}$
GO:0003700	6.3%	16.2% $10^{-6.7}$

cytidine deaminase activity

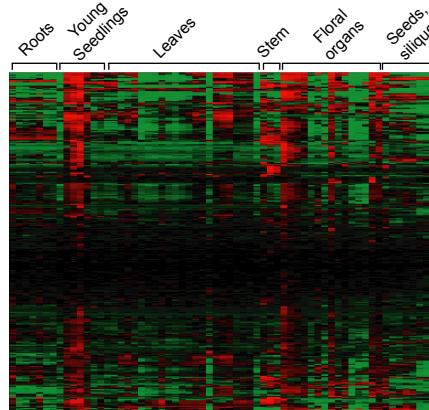
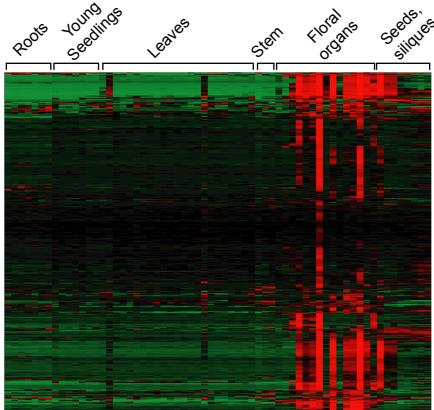
SCF ubiquitin ligase complex

cullin-RING ubiquitin ligase complex

deaminase activity

transcription regulator activity

transcription factor activity



GO Term	% in Genome Cluster	% in p-value definition
GO:0012505	14.6%	26.8% 10^{-30}
GO:0016020	23.5%	39.3% 10^{-30}
GO:0015385	0.1%	2.0% $10^{-8.0}$
GO:0004650	0.3%	2.5% $10^{-7.7}$
GO:0004553	1.4%	5.5% $10^{-7.7}$
GO:0005451	0.2%	2.0% $10^{-7.0}$

endomembrane system

membrane

sodium:hydrogen antiporter activity

polygalacturonase activity

hydrolase activity, hydrolyzing O-glycosyl compounds

monovalent cation:proton antiporter activity

GO Term	% in Genome Cluster	% in p-value definition
GO:0003677	8.1%	23.5% 10^{-30}
GO:0003700	6.3%	21.9% 10^{-30}
GO:0006350	6.0%	16.8% 10^{-30}
GO:0007389	0.2%	3.9% 10^{-30}
GO:0003676	10.8%	25.8% $10^{-10.9}$
GO:0030528	6.8%	23.2% $10^{-10.8}$

DNA binding

transcription factor activity

transcription

pattern specification

nucleic acid binding

transcription regulator activity

Supplemental Figure 3