

**S10. KEGG pathways enriched for the DEG subsets of selected MapMan categories and their associated genes identified through ATTED-II**

a) Transporters

Transgene Effect in Salt | Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	16
ath00940	Phenylpropanoid biosynthesis	9
ath04626	Plant-pathogen interaction	7
ath00360	Phenylalanine metabolism	7
ath04075	Plant hormone signal transduction	4

Transgene Dependent Salt Response | Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	15
ath00360	Phenylalanine metabolism	5
ath04075	Plant hormone signal transduction	4
ath00280	Valine, leucine and isoleucine degradation	4
ath04626	Plant-pathogen interaction	4

Transgene Dependent Salt Response | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	3
ath00592	alpha-Linolenic acid metabolism	3
ath00040	Pentose and glucuronate interconversions	2
ath00073	Cutin, suberine and wax biosynthesis	2

b) Regulation of transcription

Transgene Effect in Controls | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath04626	Plant-pathogen interaction	11
ath01110	Biosynthesis of secondary metabolites	3
ath04075	Plant hormone signal transduction	3
ath03018	RNA degradation	3
ath00270	Cysteine and methionine metabolism	2

Transgene Effect in Salt| Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath04626	Plant-pathogen interaction	3
ath04075	Plant hormone signal transduction	2

Transgene Effect in Salt| Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	4
ath00903	Limonene and pinene degradation	2
ath04120	Ubiquitin mediated proteolysis	2
ath00500	Starch and sucrose metabolism	2
ath00945	Stilbenoid, diarylheptanoid and gingerol biosynthesis	2

Transgene Dependent Salt Response | Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath04626	Plant-pathogen interaction	17
ath01110	Biosynthesis of secondary metabolites	15
ath04075	Plant hormone signal transduction	14
ath00500	Starch and sucrose metabolism	7
ath00940	Phenylpropanoid biosynthesis	5

Transgene Dependent Salt Response | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	3
ath04075	Plant hormone signal transduction	3
ath00280	Valine, leucine and isoleucine degradation	3
ath04626	Plant-pathogen interaction	2
ath00500	Starch and sucrose metabolism	2

c) Metal synthesis and assimilation related

Transgene Effect in Salt | Root | 3Hr

<a href="#">EGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	2
ath00480	Glutathione metabolism	2

Transgene Effect in Salt | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath00860	Porphyrin and chlorophyll metabolism	3
ath01110	Biosynthesis of secondary metabolites	2

Transgene Dependent Salt Response | Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	3
ath00860	Porphyrin and chlorophyll metabolism	3
ath01230	Biosynthesis of amino acids	2
ath00480	Glutathione metabolism	2
ath01200	Carbon metabolism	2

d) Enzyme families

Transgene Effect in Salt | Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	28
ath00480	Glutathione metabolism	10
ath00945	Stilbenoid, diarylheptanoid and gingerol biosynthesis	10
ath00903	Limonene and pinene degradation	10
ath01130	Biosynthesis of antibiotics	7

Transgene Effect in Salt | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	7
ath00360	Phenylalanine metabolism	6
ath00940	Phenylpropanoid biosynthesis	6
ath00073	Cutin, suberine and wax biosynthesis	3
ath04146	Peroxisome	2

Transgene Dependent Salt Response | Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	9
ath00480	Glutathione metabolism	4
ath00940	Phenylpropanoid biosynthesis	4
ath00061	Fatty acid biosynthesis	3
ath04075	Plant hormone signal transduction	3

Transgene Dependent Salt Response | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	17
ath00360	Phenylalanine metabolism	6
ath00940	Phenylpropanoid biosynthesis	6
ath00941	Flavonoid biosynthesis	5
ath00520	Amino sugar and nucleotide sugar metabolism	2

f) Hormone metabolism

Transgene Effect in Controls | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath04626	Plant-pathogen interaction	9
ath04075	Plant hormone signal transduction	9
ath01110	Biosynthesis of secondary metabolites	3
ath03018	RNA degradation	3
ath00270	Cysteine and methionine metabolism	2

Transgene Effect in Salt | Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	16
ath04075	Plant hormone signal transduction	10
ath04626	Plant-pathogen interaction	9
ath00592	alpha-Linolenic acid metabolism	7
ath01130	Biosynthesis of antibiotics	3

Transgene Effect in Salt | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath04075	Plant hormone signal transduction	6
ath01110	Biosynthesis of secondary metabolites	3
ath00500	Starch and sucrose metabolism	3
ath00908	Zeatin biosynthesis	2
ath00942	Anthocyanin biosynthesis	2

Transgene Dependent Salt Response | Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	17
ath04075	Plant hormone signal transduction	16
ath04626	Plant-pathogen interaction	13
ath00592	alpha-Linolenic acid metabolism	10
ath00591	Linoleic acid metabolism	4

Transgene Dependent Salt Response | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath01110	Biosynthesis of secondary metabolites	5
ath00360	Phenylalanine metabolism	3
ath00280	Valine, leucine and isoleucine degradation	3
ath00940	Phenylpropanoid biosynthesis	3
ath00942	Anthocyanin biosynthesis	2

g) Putative biotic stress related signalling pathways

Transgene Effect in Controls | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath04626	Plant-pathogen interaction	14
ath01110	Biosynthesis of secondary metabolites	6
ath04130	SNARE interactions in vesicular transport	3
ath04075	Plant hormone signal transduction	3
ath00564	Glycerophospholipid metabolism	3

Transgene Effect in Salt | Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath04626	Plant-pathogen interaction	6
ath04075	Plant hormone signal transduction	5

Transgene Effect in Salt | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath00500	Starch and sucrose metabolism	2

Transgene Dependent Salt Response | Root | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath04626	Plant-pathogen interaction	5
ath01110	Biosynthesis of secondary metabolites	4
ath00360	Phenylalanine metabolism	3
ath00940	Phenylpropanoid biosynthesis	3

Transgene Dependent Salt Response | Shoot | 3Hr

<a href="#">KEGG* ID</a>	Title	#genes
ath04626	Plant-pathogen interaction	4
ath01110	Biosynthesis of secondary metabolites	3
ath00500	Starch and sucrose metabolism	2
ath00940	Phenylpropanoid biosynthesis	2