

Table S2 Groups of functionally related genes that are differentially regulated in response to Mn deficiency

Function	Gene locus	Annotation	+Mn Baseline Signal	-Mn Chip Signal	Fold change
Cell specification					
	At1g79840	GLABRA2 (GL2)	341	337	1.0
	At5g14750	WEREWOLF (WER)	193	187	1.0
	At1g01380	ENHANCER OF TRY AND CPC 1 (ETC1)	38	28	-1.4
	At5g24520	TRANSPARENT TESTA GLABRA 1 (TTG1)	555	446	-1.2
	At1g63650	ENHANCER OF GLABRA3 (EGL3)	135	114	-1.2
	At2g46410	CAPRICE (CPC)	193	187	1.0
	At1g11130	SCRAMBLED (SCM)	75	106	1.4
	At5g51060	ROOT HAIR DEFECTIVE 2 (RHD2)	932	927	1.0
Iron homeostasis					
	At4g19690	Fe(II) transport protein (IRT1)	4832	2448	-2.0
	At5g01600	Ferritin 1 (ATFER1)	3365	5102	1.5
	At1g23020	Fe(III) oxidoreductase (FRO3)	970	852	-1.1
	At4g19680	Fe(II) transport protein (IRT2)	379	293	-1.2
	At2g28160	Transcriptional regulator (FIT1)	1334	1332	1.0
	At1g34760	14-3-3 protein (GRF11)	579	501	-1.2
	At1g47240	NRAMP2	553	560	1.0

	At1g80830	NRAMP1	2558	2409	-1.1
	At2g23150	NRAMP3	266	295	1.1
	At5g67330	NRAMP4	1085	1175	1.1
	At5g03570	Ferroportin	1171	959	-1.2
	At4g31940	Cytochrome P450 (CYP82C)	1006	481	-2.1
	At4g30120	HEAVY METAL ATPASE 3 (HMA3)	185	94	-2.0
Phosphate homeostasis					
	At2g33770	Ubiquitin-conjugating E2 enzyme (PHO2)	569	521	-1.1
	At2g38940	Phosphate transporter (Pht1;4)	724	660	-1.1
	At3g17790	Acid phosphatase 5 (ACP5)	131	98	-1.3
	At1g17710	Phosphoric monoester hydrolase	28	25	-1.1
	At4g08290	Nodulin MtN21 family protein	203	202	1.0
	At3g02040	Glycerophosphodiester phosphodiesterase (SRG3)	160	175	-1.1
	At3g47420	Glc-3-P permease	336	324	1.0
	At5g20150	SPX domain-containing protein	226	294	-1.3