Table S6

	Associated	
AGI code	gene model	Description
		Maintains intracellular dNTP levels except ATP. Plays a role in response to oxidative stress and
AT5G63310	NDPK2	UV. Involved in phytochrome-mediated light signaling. Participates in auxin-regulated processes.
		partly through the modulation of auxin transport. H-bonding with His-197 inside the nucleotide-
		binding pocket is critical for NDPK2 functioning. Encodes a protein with homology to glutamate-1-semialdehyde 2.1-aminomutase catalyzing the
AT5G63570	GSA1	conversion of glutamate-1-semialdehyde (GSA) into 5-amino levulinate. The expression of this
	OOAT	gene was demonstrated to be light-induced.
		Encodes a nuclear localized serine/threonine phosphatase that appears to be regulated by redox
AT5G63870	PP7	activity and is a positive regulator of cryptochrome mediated blue light signalling.
AT5G64330		Involved in blue light response signaling pathway; interacts with the blue light photoreceptor
	NPH3	NPH1.Null mutations abolish phototrophic responses of etiolated seedlings to low fluence blue
		light. Protein contains multiple protein-protein interaction domains.
		Encodes a cellulase synthase. Mutants are defective in hypocotyl elongation dark-grown plants.
AT5G64740	CESA6	Normal hypocotyl elongation is restored in plants grown in white. blue or red light.
		phototropic-responsive NPH3 family protein; similar to phototropic-responsive NPH3 family protein
AT5G66560		[Arabidopsis thaliana] (TAIR:AT3G50840.1)
AT5G66570		Encodes a protein which is an extrinsic subunit of photosystem II and which has been proposed to play a central role in stabilization of the catalytic manganese cluster. In <i>Arabidopsis thaliana</i> the
	PSBO-1	PsbO proteins are encoded by two genes: psbO1 and psbO2. PsbO1 is the major isoform in the
	1 300-1	wild-type.
AT5G67030		Encodes a single copy zeaxanthin epoxidase gene that functions in first step of the biosynthesis of
	ABA1	the abiotic stress hormone abscisic acid (ABA). Mutants in this gene are unable to express female
		sterility in response to beta-aminobutyric acid. as wild type plants do.
AT5G67385		signal transducer; similar to phototropic-responsive protein. putative [Arabidopsis thaliana]
		(TAIR:AT3G49970.1)
		RPD3-like histone deacetylase. HDA6 mutations specifically increase the expression of auxin-
AT5G63110	HDA6	responsive transgenes. suggesting a role in transgene silencing
AT5G63470		CCAAT-box binding transcription factor Hap5a. putative; Identical to Nuclear transcription factor Y subunit C-4 (AtNF-YC-4) (NFYC4) [Arabidopsis Thaliana] (GB:Q9FMV5); similar to HAP5A (Heme
	MLE2.10	activator protein (yeast) homolog 5A). DNA binding / transcription factor [Arabidopsis thaliana]
	WILLE. TO	(TAIR:AT3G48590.1)
		UV-B-specific signaling component that orchestrates expression of a range of genes with vital UV-
AT5G63860	UVR8	protective functions. Located in the nucleus and the cytosol. Associates with chromatin via
		histones.
AT5G63880	MGI19.8	SNF7 family protein; similar to SNF7-related [Arabidopsis thaliana] (TAIR:AT5G09260.1);
		CHR24 (chromatin remodeling 24); ATP binding / DNA binding / helicase; similar to CHR8
AT5G63950	CHR24	(chromatin remodeling 8). ATP binding / DNA binding / helicase [Arabidopsis thaliana]
		(TAIR:AT2G18760.1)
AT5G64610		histone acetyltransferase. putative; Identical to Probable MYST-like histone acetyltransferase 1
	MUB3.13	(EC 2.3.1.48) (HAG4) [Arabidopsis Thaliana] (GB:Q9FLF7); similar to histone acetyltransferase.
		putative [Arabidopsis thaliana] (TAIR:AT5G09740.1
AT5G64630	FAS2	Chromatin Assembly Factor-1 (CAF-1) p60 subunit. Involved in organization of the shoot and root apical meristems.
A13G04030	TAGE	histone H3; Identical to Histone H3-like 5 [Arabidopsis Thaliana] (GB:Q9FKQ3); similar to histone
AT5G65350	MNA5.8	H3 [Arabidopsis thaliana] (TAIR:AT5G10390.1); similar to histone H3 [Arabidopsis thaliana]
		(TAIR:AT5G65360.1); similar to histone H3 [Arabidopsis thaliana] (TAIR:AT5G10400.1)
		Protein is similar to SWI2/SNF2 chromatin remodeling proteins. Involved in gene silencing and
AT5G66750	DDM1	maintenance of DNA methylation and histone methylation.
		ATTRB2/TRB2 (TELOMERE REPEAT BINDING FACTOR 2); DNA binding / transcription factor;
AT5G67580	ATTRB2	similar to ATTRB3/TRB3 (TELOMERE REPEAT BINDING FACTOR 1). DNA binding /
		transcription factor [Arabidopsis thaliana] (TAIR:AT3G49850.1)