

Suppl. Table-I Gene ID	Gene list of total light responsive genes Annotation
18a7_160	MIPS:conserved hypothetical protein BROAD:NULL
4nc630_150	MIPS:putative protein BROAD:NULL
4nc710_010	MIPS:related to glia maturation factor beta BROAD:NULL
NCU00111.2	MIPS:putative protein BROAD:predicted protein
NCU00132.2	MIPS:hypothetical protein BROAD:predicted protein
NCU00203.2	MIPS:related to sirtuin type 4 BROAD:hypothetical protein
NCU00236.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00244.2	MIPS:related to galactinol synthase BROAD:hypothetical protein
NCU00263.2	MIPS:probable subtilisin-like serine protease BROAD:hypothetical protein
NCU00276.2	MIPS:DNA polymerase gamma BROAD:DNA POLYMERASE GAMMA (MITOCHONDRIAL DNA POLYMER
NCU00281.2	MIPS:probable sterol glucosyltransferase BROAD:hypothetical protein
NCU00299.2	MIPS:related to delta3-cis-delta2-trans-enoyl-CoA isomerase BROAD:hypothetical
NCU00309.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00322.2	MIPS:putative protein BROAD:predicted protein
NCU00326.2	MIPS:related to senescence marker protein 30 BROAD:hypothetical protein
NCU00360.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00401.2	MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00430.2	MIPS:related to Na ⁺ /H ⁺ antiporter CNH1 BROAD:hypothetical protein
NCU00513.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00549.2	MIPS:related to glutathione transferase omega 1 BROAD:hypothetical protein
NCU00552.2	MIPS:phytoene dehydrogenase AL-1 (carotenoid biosynthesis protein al-1) BROAD:P
NCU00553.2	MIPS:related to GTPase-activating protein beta-chimerin BROAD:hypothetical prot
NCU00575.2	MIPS:probable glucokinase BROAD:hypothetical protein
NCU00582.2	MIPS:related to deoxyribodipyrimidine photo-lyase BROAD:hypothetical protein
NCU00584.2	MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00585.2	MIPS:geranylgeranyl-diphosphate geranylgeranyltransferase (AL-2) BROAD:PHYTOENE
NCU00586.2	MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00720.2	MIPS:probable L-lactate dehydrogenase BROAD:hypothetical protein
NCU00766.2	MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00790.2	MIPS:potassium transporter hak-1 BROAD:hypothetical protein ((AJ009759) potass
NCU00793.2	MIPS:related to alpha,alpha-trehalose-phosphate synthase (UDP-forming) BROAD:hy
NCU00838.2	MIPS:related to dehydroshikimate dehydratase BROAD:hypothetical protein

NCU00859.2 MIPS:putative protein BROAD:hypothetical protein
NCU00884.2 MIPS:related to wound-inducible protein AWI 31 BROAD:hypothetical protein
NCU00911.2 MIPS:putative protein BROAD:predicted protein
NCU00939.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00999.1 MIPS:NULL BROAD:predicted protein
NCU01089.2 MIPS:hypothetical protein BROAD:predicted protein
NCU01107.2 MIPS:related to light induced alcohol dehydrogenase Bli-4 BROAD:hypothetical pr
NCU01117.2 MIPS:NULL BROAD:hypothetical protein (hypothetical protein 13E11.320 [imported
NCU01154.2 MIPS:related to NsdD protein BROAD:hypothetical protein
NCU01193.2 MIPS:related to cholesterol oxidase precursor BROAD:predicted protein
NCU01243.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU01258.2 MIPS:probable cyanate lyase BROAD:hypothetical protein
NCU01345.2 MIPS:related to transcription factor atf1+ BROAD:hypothetical protein ((AL4510
NCU01419.2 MIPS:probable NADPH quinone oxidoreductase homolog PIG3 BROAD:hypothetical prot
NCU01422.2 MIPS:probable multiprotein bridging factor MBF1 BROAD:hypothetical protein
NCU01427.2 MIPS:farnesyltranstransferase (al-3) BROAD:GERANYLGERANYL PYROPHOSPHATE SYNTHET
NCU01510.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AL355932) con
NCU01539.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU01555.2 MIPS:putative protein BROAD:hypothetical protein ((AL451012) putative protein
NCU01636.2 MIPS:related to glutathione s-transferase subunit 13 BROAD:hypothetical protein
NCU01763.2 MIPS:related to endozepine BROAD:hypothetical protein (endozepine related prot
NCU01767.2 MIPS:related to Type 2C Protein Phosphatase BROAD:Type 2C Protein Phosphatase r
NCU01768.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein (hypothetical p
NCU01797.2 MIPS:serine/threonine protein kinase NRC-2 BROAD:hypothetical protein
NCU01815.2 MIPS:related to CYTOCHROME B561 BROAD:predicted protein
NCU01844.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU01847.1 MIPS:Nuc-2 protein BROAD:hypothetical protein
NCU01861.2 MIPS:related to NAD(P)H-dependent oxidoreductase BROAD:hypothetical protein
NCU01881.2 MIPS:hypothetical protein BROAD:predicted protein
NCU01895.2 MIPS:related to response regulator Mcs4 BROAD:hypothetical protein
NCU01904.2 MIPS:related to 2-deoxy-D-gluconate 3-dehydrogenase BROAD:hypothetical protein
NCU01905.2 MIPS:related to NAD-dependent sorbitol dehydrogenase BROAD:hypothetical protein
NCU01906.2 MIPS:probable aldehyde reductase BROAD:hypothetical protein
NCU01997.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein

NCU02124.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02190.2 MIPS:related to KES1 protein BROAD:hypothetical protein
NCU02191.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02203.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02255.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02264.2 MIPS:related to prefoldin subunit 3 BROAD:hypothetical protein
NCU02265.2 MIPS:period clock protein FRQ BROAD:FREQUENCY CLOCK PROTEIN
NCU02287.2 MIPS:probable acyl-CoA dehydrogenase BROAD:hypothetical protein
NCU02322.2 MIPS:related to mannose-6-phosphate isomerase BROAD:hypothetical protein
NCU02356.2 MIPS:white collar 1 protein BROAD:WHITE COLLAR 1 PROTEIN (WC1)
NCU02375.2 MIPS:related to ubiquitin-specific protease 22 BROAD:hypothetical protein
NCU02397.2 MIPS:probable pyruvate decarboxylase BROAD:hypothetical protein
NCU02512.2 MIPS:hypothetical protein BROAD:predicted protein
NCU02513.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02540.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02579.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU02596.2 MIPS:putative protein BROAD:predicted protein
NCU02599.2 MIPS:related to yeast endoplasmic reticulum 25 kDa transmembrane protein BROAD:
NCU02691.2 MIPS:hypothetical protein BROAD:predicted protein
NCU02712.2 MIPS:related to acetate kinase BROAD:hypothetical protein
NCU02713.2 MIPS:related to transcriptional repressor BROAD:hypothetical protein
NCU02765.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU02771.2 MIPS:probable uroporphyrinogen decarboxylase BROAD:hypothetical protein
NCU02801.2 MIPS:related to benzodiazepine receptor, peripheral-type BROAD:hypothetical pro
NCU02819.2 MIPS:related to nonhistone chromosomal protein BROAD:hypothetical protein
NCU02887.2 MIPS:probable potassium channel beta subunit protein BROAD:hypothetical protein
NCU02888.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02906.2 MIPS:probable malate dehydrogenase (oxaloacetate decarboxylating) (NADP+) BROAD
NCU02945.2 MIPS:hypothetical protein BROAD:predicted protein
NCU02948.2 MIPS:probable 1,4-Benzoquinone reductase BROAD:hypothetical protein
NCU03071.2 MIPS:related to MAP kinase kinase kinase Wis4 BROAD:hypothetical protein
NCU03072.2 MIPS:hypothetical protein BROAD:predicted protein
NCU03151.2 MIPS:probable peroxisomal membrane protein BROAD:hypothetical protein
NCU03188.2 MIPS:related to D-arabinono-1,4-lactone oxidase BROAD:hypothetical protein

NCU03214.2 MIPS:related to endoplasmic reticulum retention receptor BROAD:hypothetical pro
NCU03263.2 MIPS:probable putative transmembrane protein BROAD:hypothetical protein
NCU03290.2 MIPS:related to secreted dipeptidyl-peptidase V precursor BROAD:hypothetical pr
NCU03312.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU03341.2 MIPS:related to protein transport protein SEC6 BROAD:hypothetical protein
NCU03357.2 MIPS:related to ubiquitin fusion degradation protein 2 BROAD:hypothetical prote
NCU03358.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU03378.2 MIPS:related to tol protein BROAD:hypothetical protein
NCU03415.2 MIPS:probable aldehyde dehydrogenase BROAD:hypothetical protein
NCU03460.2 MIPS:probable cis-prenyltransferase BROAD:hypothetical protein
NCU03530.2 MIPS:related to chitinase 3 precursor protein BROAD:hypothetical protein
NCU03602.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU03617.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AL513444) con
NCU03643.2 MIPS:probable CUTINASE TRANSCRIPTION FACTOR 1 BETA BROAD:hypothetical protein (
NCU03685.2 MIPS:related to glucan 1,4-alpha-glucosidase BROAD:hypothetical protein ((AL35
NCU03699.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU03731.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AL513467) con
NCU03779.2 MIPS:probable glycerone kinase isoform BROAD:hypothetical protein ((AL513466)
NCU03780.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU03803.2 MIPS:related to SORBITOL UTILIZATION PROTEIN SOU1 BROAD:hypothetical protein (
NCU03967.2 MIPS:vivid PAS protein VVD BROAD:hypothetical protein ((AF338412) vivid PAS pr
NCU03968.2 MIPS:related to DNA repair protein MMS21 BROAD:predicted protein
NCU04071.2 MIPS:carboxy-cis,cis-muconate cyclase BROAD:CARBOXY-CIS,CIS-MUCONATE CYCLASE (3
NCU04091.2 MIPS:hypothetical protein BROAD:predicted protein
NCU04174.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU04179.2 MIPS:related to finger protein AZF1 BROAD:hypothetical protein ((AL451015) rel
NCU04265.2 MIPS:related to beta-fructofuranosidase BROAD:related to beta-fructofuranosidas
NCU04266.2 MIPS:putative protein BROAD:hypothetical protein ((AL513462) putative protein
NCU04274.2 MIPS:related to Sts1 protein BROAD:hypothetical protein ((AL513462) related to
NCU04295.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AL451109) con
NCU04342.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU04343.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU04371.2 MIPS:probable peptidylprolyl isomerase (FK506-binding protein homolog) BROAD:pr
NCU04387.2 MIPS:vacuolar ATP synthase subunit F BROAD:VACUOLAR ATP SYNTHASE SUBUNIT F (V-A

NCU04415.2 MIPS:related to brefeldin A resistance protein BROAD:hypothetical protein
NCU04417.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU04452.2 MIPS:probable NADPH2 dehydrogenase chain OYE2 BROAD:hypothetical protein
NCU04460.2 MIPS:probable galactose-1-phosphate uridylyltransferase BROAD:hypothetical prot
NCU04474.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU04510.2 MIPS:related to glycerol dehydrogenase BROAD:hypothetical protein
NCU04533.2 MIPS:related to calcium-dependent cell adhesion molecule-1 BROAD:hypothetical p
NCU04605.2 MIPS:hypothetical protein BROAD:predicted protein
NCU04635.2 MIPS:related to mismatched base pair and cruciform dna recognition protein BROA
NCU04637.2 MIPS:probable RVS167 protein BROAD:hypothetical protein
NCU04667.2 MIPS:putative protein BROAD:predicted protein
NCU04674.2 MIPS:related to alpha-glucosidase b BROAD:hypothetical protein
NCU04675.2 MIPS:putative protein BROAD:predicted protein
NCU04676.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU04757.2 MIPS:hypothetical protein BROAD:predicted protein
NCU04796.2 MIPS:probable Acetyl-CoA acyltransferase BROAD:hypothetical protein
NCU04797.2 MIPS:probable Fructose-1,6-bisphosphatase BROAD:hypothetical protein
NCU04801.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU04814.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU04823.2 MIPS:probable alcohol dehydrogenase (NADP+) BROAD:hypothetical protein
NCU04908.2 MIPS:putative protein BROAD:hypothetical protein
NCU04921.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU04946.2 MIPS:putative protein BROAD:predicted protein
NCU04963.2 MIPS:probable monosaccharide transporter BROAD:hypothetical protein
NCU05007.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05061.2 MIPS:hypothetical protein BROAD:predicted protein
NCU05133.2 MIPS:related to UDP-glucose 4-epimerase BROAD:hypothetical protein
NCU05148.2 MIPS:hypothetical protein BROAD:predicted protein
NCU05169.2 MIPS:probable catalase isozyme P BROAD:hypothetical protein
NCU05291.2 MIPS:related to acetyltransferase BROAD:predicted protein
NCU05429.2 MIPS:probable branching enzyme (be1) BROAD:probable branching enzyme [MIPS]
NCU05490.2 MIPS:hypothetical protein BROAD:predicted protein
NCU05594.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05627.2 MIPS:related to sugar transporter BROAD:hypothetical protein

NCU05639.2 MIPS:hypothetical protein BROAD:predicted protein
NCU05652.2 MIPS:NULL BROAD:predicted protein
NCU05683.2 MIPS:probable dihydroxy-acid dehydratase BROAD:hypothetical protein
NCU05721.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05770.2 MIPS:catalase 2 BROAD:hypothetical protein
NCU05785.2 MIPS:probable calcium-related spray protein BROAD:hypothetical protein
NCU05786.2 MIPS:NULL BROAD:predicted protein
NCU05844.2 MIPS:hypothetical protein BROAD:predicted protein
NCU05850.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05858.2 MIPS:related to linoleate diol synthase BROAD:hypothetical protein
NCU05882.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05897.2 MIPS:related to glucose/galactose transporter BROAD:hypothetical protein
NCU06005.2 MIPS:probable glycerol kinase (ATP:glycerol 3-phosphotransferase) BROAD:hypothetical protein
NCU06009.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06020.2 MIPS:related to extracellular chitinase BROAD:hypothetical protein
NCU06095.2 MIPS:related to transcription factor BOM BROAD:hypothetical protein
NCU06131.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU06203.2 MIPS:putative protein BROAD:predicted protein
NCU06218.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06265.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06306.2 MIPS:related to proliferation associated SNF2-like protein BROAD:hypothetical p
NCU06407.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU06416.2 MIPS:related to gibberellin 20-oxidase BROAD:hypothetical protein
NCU06420.2 MIPS:putative protein BROAD:predicted protein
NCU06506.2 MIPS:hypothetical protein BROAD:predicted protein
NCU06549.2 MIPS:Sno-type pyridoxine vitamin B6 biosynthetic protein SNO1 BROAD:hypothetical
NCU06554.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AF309689) put
NCU06597.2 MIPS:hypothetical protein BROAD:predicted protein
NCU06603.2 MIPS:related to NonF protein, involved in nonactin biosynthesis BROAD:hypothetical
NCU06662.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06682.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU06751.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06915.2 MIPS:hypothetical protein BROAD:predicted protein
NCU06977.2 MIPS:putative protein BROAD:predicted protein

NCU06986.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU07024.2 MIPS:osmotic sensitive-2 protein (putative mitogen-activated protein (MAP) kinas
NCU07061.2 MIPS:putative protein BROAD:predicted protein
NCU07064.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU07075.2 MIPS:calcium/proton exchanger BROAD:hypothetical protein ((AF053229) calcium/p
NCU07082.2 MIPS:related to aspartate-tRNA ligase, cytosolic BROAD:hypothetical protein
NCU07119.2 MIPS:related to non-ribosomal peptide synthetase BROAD:hypothetical protein
NCU07120.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU07142.2 MIPS:putative protein BROAD:predicted protein
NCU07159.2 MIPS:probable endopeptidase K BROAD:hypothetical protein
NCU07221.2 MIPS:related to histidine kinase tcsA protein BROAD:hypothetical protein
NCU07232.2 MIPS:related to heat shock protein 30 BROAD:hypothetical protein
NCU07264.2 MIPS:probable ubiquitin-conjugating enzyme E2 BROAD:hypothetical protein
NCU07267.2 MIPS:blue-light-inducible Bli-3 protein BROAD:BLI-3 PROTEIN
NCU07273.2 MIPS:putative protein BROAD:predicted protein
NCU07287.2 MIPS:related to DNA damage-responsive protein 48 BROAD:predicted protein
NCU07296.2 MIPS:serine/threonine protein kinase COT-1 BROAD:hypothetical protein
NCU07325.2 MIPS:conidation-specific protein CON-10 BROAD:hypothetical protein
NCU07332.2 MIPS:related to ACB 4-hydroxyacetophenone monooxygenase BROAD:hypothetical prot
NCU07338.2 MIPS:related to alpha-1,6-mannosyltransferase HOC1 BROAD:hypothetical protein
NCU07363.2 MIPS:putative protein BROAD:predicted protein
NCU07400.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU07401.1 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU07424.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07434.2 MIPS:related to short chain dehydrogenase BROAD:hypothetical protein
NCU07441.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07453.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07541.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07584.2 MIPS:related to vacuolar segregation protein PEP7 BROAD:hypothetical protein
NCU07585.2 MIPS:related to siroheme synthase BROAD:hypothetical protein
NCU07649.2 MIPS:NULL BROAD:hypothetical protein
NCU07661.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07675.2 MIPS:putative protein BROAD:predicted protein
NCU07723.2 MIPS:probable norsolorinic acid reductase BROAD:hypothetical protein

NCU07745.2 MIPS:putative protein BROAD:predicted protein
NCU07921.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07962.2 MIPS:putative protein BROAD:predicted protein
NCU07971.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08057.2 MIPS:related to tropinone reductase BROAD:hypothetical protein
NCU08064.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08070.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08095.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08127.2 MIPS:related to DFG5 protein BROAD:hypothetical protein
NCU08133.2 MIPS:related to carbonate dehydratase BROAD:hypothetical protein
NCU08190.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08224.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08280.2 MIPS:related to squalene monooxygenase BROAD:hypothetical protein
NCU08290.2 MIPS:related to ATP-dependent DNA helicase II, 70 kDa subunit BROAD:hypothetica
NCU08291.2 MIPS:probable ferrochelatase BROAD:hypothetical protein
NCU08418.2 MIPS:related to tripeptidyl-peptidase I BROAD:hypothetical protein
NCU08440.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU08455.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08457.2 MIPS:hydrophobin Ccg-2 BROAD:hypothetical protein
NCU08501.2 MIPS:related to TOM1 protein BROAD:related to TOM1 protein [MIPS]
NCU08549.2 MIPS:related to UDP-glucose 4-epimerase BROAD:hypothetical protein
NCU08626.2 MIPS:deoxyribodipyrimidine photo-lyase PHR BROAD:DEOXYRIBODIPYRIMIDINE PHOTOLYA
NCU08674.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08677.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08699.2 MIPS:alcohol dehydrogenase homolog Bli-4 BROAD:PUTATIVE OXIDOREDUCTASE BLI-4 PR
NCU08769.2 MIPS:conidiation protein 6 (con-6) BROAD:CONIDIATION-SPECIFIC PROTEIN 6
NCU08791.2 MIPS:catalase-1 BROAD:hypothetical protein (AY027545) Catalase-1 [Neurospora
NCU08824.2 MIPS:NULL BROAD:hypothetical protein
NCU08850.2 MIPS:UV-endonuclease UVE-1 BROAD:hypothetical protein (D11392) UV-endonucleas
NCU08922.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08949.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09041.2 MIPS:probable L-xylulose reductase BROAD:hypothetical protein
NCU09043.2 MIPS:related to calcium-binding protein caleosin BROAD:hypothetical protein
NCU09051.2 MIPS:related to formaldehyde dehydrogenase BROAD:hypothetical protein

NCU09057.2 MIPS:putative protein BROAD:hypothetical protein
NCU09079.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09115.2 MIPS:related to cytochrome P450 52A12; alkane hydroxylase 1 BROAD:hypothetical
NCU09141.2 MIPS:probable pyridoxine 4-dehydrogenase BROAD:hypothetical protein
NCU09201.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09209.2 MIPS:probable galactose oxidase precursor BROAD:hypothetical protein
NCU09210.2 MIPS:related to peroxidase DyP BROAD:hypothetical protein
NCU09266.2 MIPS:probable methylmalonate-semialdehyde dehydrogenase (acylating) BROAD:hypot
NCU09290.2 MIPS:probable proteasome endopeptidase complex chain PRE3; 20S proteasome subuni
NCU09306.2 MIPS:related to beta-carotene 15,15'-dioxygenase BROAD:hypothetical protein
NCU09403.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU09502.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09526.2 MIPS:putative protein BROAD:predicted protein
NCU09532.2 MIPS:related to dihydrodipicolinate synthase BROAD:hypothetical protein
NCU09533.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU09534.2 MIPS:probable glutathione peroxidase BROAD:hypothetical protein
NCU09535.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09553.2 MIPS:probable 3-hydroxybutyryl-CoA dehydrogenase BROAD:hypothetical protein
NCU09560.2 MIPS:probable superoxide dismutase (Mn) precursor BROAD:hypothetical protein
NCU09579.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09646.2 MIPS:strong similarity to acetyl-CoA C-acyltransferase, peroxisomal BROAD:hypot
NCU09692.2 MIPS:related to diacylglycerol pyrophosphate phosphatase DPP1 BROAD:hypothetica
NCU09714.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09715.2 MIPS:probable trehalose-6-phosphate synthase subunit 1 BROAD:hypothetical prote
NCU09716.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09723.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09783.2 MIPS:NULL BROAD:hypothetical protein
NCU09820.2 MIPS:related to protein YBT1 (bile acid transporter) BROAD:hypothetical protein
NCU09821.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09830.2 MIPS:probable ATP-binding cassette multidrug transport protein; ABC transporter
NCU09841.2 MIPS:related to low molecular weight phosphotyrosine protein phosphatase BROAD:
NCU09883.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09931.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein (hypothetical p
NCU09937.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein (hypothetical p

NCU09992.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU10011.2 MIPS:related to cytochrome P450 (CYP94A1) BROAD:hypothetical protein
NCU10021.2 MIPS:related to monosaccharide H⁺ symporter (fragment) BROAD:hypothetical prote
NCU10063.2 MIPS:NULL BROAD:hypothetical protein
NCU10360.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU10656.2 MIPS:related to alcohol dehydrogenase BROAD:hypothetical protein
NCU10880.2 MIPS:related to phosphoserine phosphatase fcp1 BROAD:hypothetical protein
NCU10997.2 MIPS:con-8 protein BROAD:hypothetical protein
NCU11090.2 MIPS:related to salicylate 1-monooxygenase (flavoprotein monooxygenase) BROAD:p
xnc105_090 MIPS:probable exochitinase BROAD:NULL

Suppl. Table-II	Gene list of early light responsive genes
Gene ID	Annotation
18a7_160	MIPS:conserved hypothetical protein BROAD:NULL
4nc710_010	MIPS:related to glia maturation factor beta BROAD:NULL
NCU00203.2	MIPS:related to sirtuin type 4 BROAD:hypothetical protein
NCU00236.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00244.2	MIPS:related to galactinol synthase BROAD:hypothetical protein
NCU00276.2	MIPS:DNA polymerase gamma BROAD:DNA POLYMERASE GAMMA (MITOCHONDRIAL DNA POLYMER
NCU00309.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00326.2	MIPS:related to senescence marker protein 30 BROAD:hypothetical protein
NCU00360.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00430.2	MIPS:related to Na ⁺ /H ⁺ antiporter CNH1 BROAD:hypothetical protein
NCU00549.2	MIPS:related to glutathione transferase omega 1 BROAD:hypothetical protein
NCU00552.2	MIPS:phytoene dehydrogenase AL-1 (carotenoid biosynthesis protein al-1) BROAD:P
NCU00553.2	MIPS:related to GTPase-activating protein beta-chimerin BROAD:hypothetical prot
NCU00582.2	MIPS:related to deoxyribodipyrimidine photo-lyase BROAD:hypothetical protein
NCU00584.2	MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00585.2	MIPS:geranylgeranyl-diphosphate geranylgeranyltransferase (AL-2) BROAD:PHYTOENE
NCU00720.2	MIPS:probable L-lactate dehydrogenase BROAD:hypothetical protein
NCU00939.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00999.1	MIPS:NULL BROAD:predicted protein
NCU01089.2	MIPS:hypothetical protein BROAD:predicted protein
NCU01154.2	MIPS:related to NsdD protein BROAD:hypothetical protein
NCU01243.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU01258.2	MIPS:probable cyanate lyase BROAD:hypothetical protein
NCU01345.2	MIPS:related to transcription factor atf1+ BROAD:hypothetical protein ((AL4510
NCU01419.2	MIPS:probable NADPH quinone oxidoreductase homolog PIG3 BROAD:hypothetical prot
NCU01422.2	MIPS:probable multiprotein bridging factor MBF1 BROAD:hypothetical protein
NCU01427.2	MIPS:farnesyltransferase (al-3) BROAD:GERANYLGERANYL PYROPHOSPHATE SYNTHET
NCU01797.2	MIPS:serine/threonine protein kinase NRC-2 BROAD:hypothetical protein
NCU01844.2	MIPS:conserved hypothetical protein BROAD:predicted protein
NCU01847.1	MIPS:Nuc-2 protein BROAD:hypothetical protein
NCU01881.2	MIPS:hypothetical protein BROAD:predicted protein

NCU01895.2 MIPS:related to response regulator Mcs4 BROAD:hypothetical protein
NCU01997.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02190.2 MIPS:related to KES1 protein BROAD:hypothetical protein
NCU02191.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02203.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02264.2 MIPS:related to prefoldin subunit 3 BROAD:hypothetical protein
NCU02265.2 MIPS:period clock protein FRQ BROAD:FREQUENCY CLOCK PROTEIN
NCU02356.2 MIPS:white collar 1 protein BROAD:WHITE COLLAR 1 PROTEIN (WC1)
NCU02375.2 MIPS:related to ubiquitin-specific protease 22 BROAD:hypothetical protein
NCU02691.2 MIPS:hypothetical protein BROAD:predicted protein
NCU02713.2 MIPS:related to transcriptional repressor BROAD:hypothetical protein
NCU02771.2 MIPS:probable uroporphyrinogen decarboxylase BROAD:hypothetical protein
NCU02801.2 MIPS:related to benzodiazepine receptor, peripheral-type BROAD:hypothetical pro
NCU02819.2 MIPS:related to nonhistone chromosomal protein BROAD:hypothetical protein
NCU02887.2 MIPS:probable potassium channel beta subunit protein BROAD:hypothetical protein
NCU02888.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02945.2 MIPS:hypothetical protein BROAD:predicted protein
NCU02948.2 MIPS:probable 1,4-Benzoquinone reductase BROAD:hypothetical protein
NCU03071.2 MIPS:related to MAP kinase kinase kinase Wis4 BROAD:hypothetical protein
NCU03072.2 MIPS:hypothetical protein BROAD:predicted protein
NCU03151.2 MIPS:probable peroxisomal membrane protein BROAD:hypothetical protein
NCU03188.2 MIPS:related to D-arabinono-1,4-lactone oxidase BROAD:hypothetical protein
NCU03312.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU03341.2 MIPS:related to protein transport protein SEC6 BROAD:hypothetical protein
NCU03602.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU03699.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU03967.2 MIPS:vivid PAS protein VVD BROAD:hypothetical protein ((AF338412) vivid PAS pr
NCU03968.2 MIPS:related to DNA repair protein MMS21 BROAD:predicted protein
NCU04091.2 MIPS:hypothetical protein BROAD:predicted protein
NCU04174.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU04179.2 MIPS:related to finger protein AZF1 BROAD:hypothetical protein ((AL451015) rel
NCU04274.2 MIPS:related to Sts1 protein BROAD:hypothetical protein ((AL513462) related to
NCU04295.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AL451109) con

NCU04371.2 MIPS:probable peptidylprolyl isomerase (FK506-binding protein homolog) BROAD:pr
NCU04452.2 MIPS:probable NADPH2 dehydrogenase chain OYE2 BROAD:hypothetical protein
NCU04637.2 MIPS:probable RVS167 protein BROAD:hypothetical protein
NCU04801.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU05007.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05594.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05683.2 MIPS:probable dihydroxy-acid dehydratase BROAD:hypothetical protein
NCU05721.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05785.2 MIPS:probable calcium-related spray protein BROAD:hypothetical protein
NCU05786.2 MIPS:NULL BROAD:predicted protein
NCU06095.2 MIPS:related to transcription factor BOM BROAD:hypothetical protein
NCU06203.2 MIPS:putative protein BROAD:predicted protein
NCU06218.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06306.2 MIPS:related to proliferation associated SNF2-like protein BROAD:hypothetical p
NCU06420.2 MIPS:putative protein BROAD:predicted protein
NCU06549.2 MIPS:Sno-type pyridoxine vitamin B6 biosynthetic protein SNO1 BROAD:hypothetica
NCU06554.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AF309689) put
NCU06603.2 MIPS:related to NonF protein, involved in nonactin biosynthesis BROAD:hypotheti
NCU06662.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06751.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06915.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07024.2 MIPS:osmotic sensitive-2 protein (putative mitogen-activated protein (MAP) kinas
NCU07159.2 MIPS:probable endopeptidase K BROAD:hypothetical protein
NCU07221.2 MIPS:related to histidine kinase tcsA protein BROAD:hypothetical protein
NCU07264.2 MIPS:probable ubiquitin-conjugating enzyme E2 BROAD:hypothetical protein
NCU07267.2 MIPS:blue-light-inducible Bli-3 protein BROAD:BLI-3 PROTEIN
NCU07296.2 MIPS:serine/threonine protein kinase COT-1 BROAD:hypothetical protein
NCU07325.2 MIPS:conidation-specific protein CON-10 BROAD:hypothetical protein
NCU07434.2 MIPS:related to short chain dehydrogenase BROAD:hypothetical protein
NCU07541.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07584.2 MIPS:related to vacuolar segregation protein PEP7 BROAD:hypothetical protein
NCU07585.2 MIPS:related to siroheme synthase BROAD:hypothetical protein
NCU07649.2 MIPS:NULL BROAD:hypothetical protein

NCU07675.2 MIPS:putative protein BROAD:predicted protein
NCU07962.2 MIPS:putative protein BROAD:predicted protein
NCU07971.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08133.2 MIPS:related to carbonate dehydratase BROAD:hypothetical protein
NCU08280.2 MIPS:related to squalene monooxygenase BROAD:hypothetical protein
NCU08290.2 MIPS:related to ATP-dependent DNA helicase II, 70 kDa subunit BROAD:hypothetica
NCU08291.2 MIPS:probable ferrocyclase BROAD:hypothetical protein
NCU08626.2 MIPS:deoxyribodipyrimidine photo-lyase PHR BROAD:DEOXYRIBODIPYRIMIDINE PHOTOLYA
NCU08674.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08699.2 MIPS:alcohol dehydrogenase homolog Bli-4 BROAD:PUTATIVE OXIDOREDUCTASE BLI-4 PR
NCU08769.2 MIPS:conidiation protein 6 (con-6) BROAD:CONIDIATION-SPECIFIC PROTEIN 6
NCU08824.2 MIPS:NULL BROAD:hypothetical protein
NCU08850.2 MIPS:UV-endonuclease UVE-1 BROAD:hypothetical protein (D11392) UV-endonucleas
NCU09079.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09115.2 MIPS:related to cytochrome P450 52A12; alkane hydroxylase 1 BROAD:hypothetical
NCU09141.2 MIPS:probable pyridoxine 4-dehydrogenase BROAD:hypothetical protein
NCU09201.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09306.2 MIPS:related to beta-carotene 15,15'-dioxygenase BROAD:hypothetical protein
NCU09502.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09534.2 MIPS:probable glutathione peroxidase BROAD:hypothetical protein
NCU09535.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09715.2 MIPS:probable trehalose-6-phosphate synthase subunit 1 BROAD:hypothetical prote
NCU09723.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09820.2 MIPS:related to protein YBT1 (bile acid transporter) BROAD:hypothetical protein
NCU09830.2 MIPS:probable ATP-binding cassette multidrug transport protein; ABC transporter
NCU09841.2 MIPS:related to low molecular weight phosphotyrosine protein phosphatase BROAD:
NCU09883.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09937.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein (hypothetical p
NCU10011.2 MIPS:related to cytochrome P450 (CYP94A1) BROAD:hypothetical protein
NCU10063.2 MIPS:NULL BROAD:hypothetical protein
NCU10880.2 MIPS:related to phosphoserine phosphatase fcp1 BROAD:hypothetical protein

Suppl. Table-III Gene list of late light responsive genes

Gene ID	Annotation
4nc630_150	MIPS:putative protein BROAD:NULL
NCU00111.2	MIPS:putative protein BROAD:predicted protein
NCU00132.2	MIPS:hypothetical protein BROAD:predicted protein
NCU00281.2	MIPS:probable sterol glucosyltransferase BROAD:hypothetical protein
NCU00299.2	MIPS:related to delta3-cis-delta2-trans-enoyl-CoA isomerase BROAD:hypothetical
NCU00322.2	MIPS:putative protein BROAD:predicted protein
NCU00401.2	MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00513.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00575.2	MIPS:probable glucokinase BROAD:hypothetical protein
NCU00586.2	MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00766.2	MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00790.2	MIPS:potassium transporter hak-1 BROAD:hypothetical protein ((AJ009759) potass
NCU00793.2	MIPS:related to alpha,alpha-trehalose-phosphate synthase (UDP-forming) BROAD:hy
NCU00838.2	MIPS:related to dehydroshikimate dehydratase BROAD:hypothetical protein
NCU00884.2	MIPS:related to wound-inducible protein AWI 31 BROAD:hypothetical protein
NCU01107.2	MIPS:related to light induced alcohol dehydrogenase Bli-4 BROAD:hypothetical pr
NCU01117.2	MIPS:NULL BROAD:hypothetical protein (hypothetical protein 13E11.320 [imported
NCU01510.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AL355932) con
NCU01539.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU01555.2	MIPS:putative protein BROAD:hypothetical protein ((AL451012) putative protein
NCU01636.2	MIPS:related to glutathione s-transferase subunit 13 BROAD:hypothetical protein
NCU01763.2	MIPS:related to endozepine BROAD:hypothetical protein (endozepine related prot
NCU01767.2	MIPS:related to Type 2C Protein Phosphatase BROAD:Type 2C Protein Phosphatase r
NCU01768.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein (hypothetical p
NCU01815.2	MIPS:related to CYTOCHROME B561 BROAD:predicted protein
NCU01861.2	MIPS:related to NAD(P)H-dependent oxidoreductase BROAD:hypothetical protein
NCU01904.2	MIPS:related to 2-deoxy-D-gluconate 3-dehydrogenase BROAD:hypothetical protein
NCU01905.2	MIPS:related to NAD-dependent sorbitol dehydrogenase BROAD:hypothetical protein
NCU01906.2	MIPS:probable aldehyde reductase BROAD:hypothetical protein
NCU02124.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02287.2	MIPS:probable acyl-CoA dehydrogenase BROAD:hypothetical protein

NCU02322.2 MIPS:related to mannose-6-phosphate isomerase BROAD:hypothetical protein
NCU02397.2 MIPS:probable pyruvate decarboxylase BROAD:hypothetical protein
NCU02512.2 MIPS:hypothetical protein BROAD:predicted protein
NCU02513.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02540.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02579.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU02596.2 MIPS:putative protein BROAD:predicted protein
NCU02599.2 MIPS:related to yeast endoplasmic reticulum 25 kDa transmembrane protein BROAD:
NCU02712.2 MIPS:related to acetate kinase BROAD:hypothetical protein
NCU02765.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU02906.2 MIPS:probable malate dehydrogenase (oxaloacetate decarboxylating) (NADP+) BROAD
NCU03214.2 MIPS:related to endoplasmic reticulum retention receptor BROAD:hypothetical pro
NCU03290.2 MIPS:related to secreted dipeptidyl-peptidase V precursor BROAD:hypothetical pr
NCU03357.2 MIPS:related to ubiquitin fusion degradation protein 2 BROAD:hypothetical prote
NCU03358.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU03378.2 MIPS:related to tol protein BROAD:hypothetical protein
NCU03415.2 MIPS:probable aldehyde dehydrogenase BROAD:hypothetical protein
NCU03460.2 MIPS:probable cis-prenyltransferase BROAD:hypothetical protein
NCU03617.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AL513444) con
NCU03685.2 MIPS:related to glucan 1,4-alpha-glucosidase BROAD:hypothetical protein ((AL35
NCU03731.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AL513467) con
NCU03779.2 MIPS:probable glycerone kinase isoform BROAD:hypothetical protein ((AL513466)
NCU03780.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU03803.2 MIPS:related to SORBITOL UTILIZATION PROTEIN SOU1 BROAD:hypothetical protein (
NCU04071.2 MIPS:carboxy-cis,cis-muconate cyclase BROAD:CARBOXY-CIS,CIS-MUCONATE CYCLASE (3
NCU04265.2 MIPS:related to beta-fructofuranosidase BROAD:related to beta-fructofuranosidas
NCU04266.2 MIPS:putative protein BROAD:hypothetical protein ((AL513462) putative protein
NCU04342.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU04343.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU04387.2 MIPS:vacuolar ATP synthase subunit F BROAD:VACUOLAR ATP SYNTHASE SUBUNIT F (V-A
NCU04415.2 MIPS:related to brefeldin A resistance protein BROAD:hypothetical protein
NCU04417.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU04460.2 MIPS:probable galactose-1-phosphate uridylyltransferase BROAD:hypothetical prot

NCU04474.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU04510.2 MIPS:related to glycerol dehydrogenase BROAD:hypothetical protein
NCU04605.2 MIPS:hypothetical protein BROAD:predicted protein
NCU04635.2 MIPS:related to mismatched base pair and cruciform dna recognition protein BROA
NCU04667.2 MIPS:putative protein BROAD:predicted protein
NCU04674.2 MIPS:related to alpha-glucosidase b BROAD:hypothetical protein
NCU04675.2 MIPS:putative protein BROAD:predicted protein
NCU04676.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU04757.2 MIPS:hypothetical protein BROAD:predicted protein
NCU04796.2 MIPS:probable Acetyl-CoA acyltransferase BROAD:hypothetical protein
NCU04797.2 MIPS:probable Fructose-1,6-bisphosphatase BROAD:hypothetical protein
NCU04814.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU04823.2 MIPS:probable alcohol dehydrogenase (NADP+) BROAD:hypothetical protein
NCU04908.2 MIPS:putative protein BROAD:hypothetical protein
NCU04908.2 MIPS:putative protein BROAD:hypothetical protein
NCU04921.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU04946.2 MIPS:putative protein BROAD:predicted protein
NCU04963.2 MIPS:probable monosaccharide transporter BROAD:hypothetical protein
NCU05061.2 MIPS:hypothetical protein BROAD:predicted protein
NCU05148.2 MIPS:hypothetical protein BROAD:predicted protein
NCU05169.2 MIPS:probable catalase isozyme P BROAD:hypothetical protein
NCU05429.2 MIPS:probable branching enzyme (be1) BROAD:probable branching enzyme [MIPS]
NCU05490.2 MIPS:hypothetical protein BROAD:predicted protein
NCU05627.2 MIPS:related to sugar transporter BROAD:hypothetical protein
NCU05639.2 MIPS:hypothetical protein BROAD:predicted protein
NCU05652.2 MIPS:NULL BROAD:predicted protein
NCU05770.2 MIPS:catalase 2 BROAD:hypothetical protein
NCU05844.2 MIPS:hypothetical protein BROAD:predicted protein
NCU05850.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05882.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05897.2 MIPS:related to glucose/galactose transporter BROAD:hypothetical protein
NCU06005.2 MIPS:probable glycerol kinase (ATP:glycerol 3-phosphotransferase) BROAD:hypothe
NCU06009.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein

NCU06020.2 MIPS:related to extracellular chitinase BROAD:hypothetical protein
NCU06131.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU06265.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06506.2 MIPS:hypothetical protein BROAD:predicted protein
NCU06597.2 MIPS:hypothetical protein BROAD:predicted protein
NCU06682.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU06977.2 MIPS:putative protein BROAD:predicted protein
NCU07061.2 MIPS:putative protein BROAD:predicted protein
NCU07064.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU07082.2 MIPS:related to aspartate-tRNA ligase, cytosolic BROAD:hypothetical protein
NCU07119.2 MIPS:related to non-ribosomal peptide synthetase BROAD:hypothetical protein
NCU07120.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU07142.2 MIPS:putative protein BROAD:predicted protein
NCU07232.2 MIPS:related to heat shock protein 30 BROAD:hypothetical protein
NCU07273.2 MIPS:putative protein BROAD:predicted protein
NCU07332.2 MIPS:related to ACB 4-hydroxyacetophenone monooxygenase BROAD:hypothetical prot
NCU07338.2 MIPS:related to alpha-1,6-mannosyltransferase HOC1 BROAD:hypothetical protein
NCU07424.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07441.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07453.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07661.2 MIPS:hypothetical protein BROAD:predicted protein
NCU07723.2 MIPS:probable norsolorinic acid reductase BROAD:hypothetical protein
NCU07745.2 MIPS:putative protein BROAD:predicted protein
NCU07921.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08057.2 MIPS:related to tropinone reductase BROAD:hypothetical protein
NCU08064.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08070.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08095.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08127.2 MIPS:related to DFG5 protein BROAD:hypothetical protein
NCU08190.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08224.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08440.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU08501.2 MIPS:related to TOM1 protein BROAD:related to TOM1 protein [MIPS]

NCU08549.2 MIPS:related to UDP-glucose 4-epimerase BROAD:hypothetical protein
NCU08677.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08791.2 MIPS:catalase-1 BROAD:hypothetical protein ((AY027545) Catalase-1 [Neurospora
NCU08922.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08949.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09041.2 MIPS:probable L-xylulose reductase BROAD:hypothetical protein
NCU09043.2 MIPS:related to calcium-binding protein caleosin BROAD:hypothetical protein
NCU09051.2 MIPS:related to formaldehyde dehydrogenase BROAD:hypothetical protein
NCU09057.2 MIPS:putative protein BROAD:hypothetical protein
NCU09266.2 MIPS:probable methylmalonate-semialdehyde dehydrogenase (acylating) BROAD:hypot
NCU09290.2 MIPS:probable proteasome endopeptidase complex chain PRE3; 20S proteasome subuni
NCU09526.2 MIPS:putative protein BROAD:predicted protein
NCU09532.2 MIPS:related to dihydrodipicolinate synthase BROAD:hypothetical protein
NCU09533.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU09553.2 MIPS:probable 3-hydroxybutyryl-CoA dehydrogenase BROAD:hypothetical protein
NCU09560.2 MIPS:probable superoxide dismutase (Mn) precursor BROAD:hypothetical protein
NCU09646.2 MIPS:strong similarity to acetyl-CoA C-acyltransferase, peroxisomal BROAD:hypot
NCU09692.2 MIPS:related to diacylglycerol pyrophosphate phosphatase DPP1 BROAD:hypothetica
NCU09714.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09716.2 MIPS:hypothetical protein BROAD:predicted protein
NCU09783.2 MIPS:NULL BROAD:hypothetical protein
NCU09821.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09931.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein (hypothetical p
NCU09992.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU10021.2 MIPS:related to monosaccharide H+ symporter (fragment) BROAD:hypothetical prote
NCU10360.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU10656.2 MIPS:related to alcohol dehydrogenase BROAD:hypothetical protein
NCU10997.2 MIPS:con-8 protein BROAD:hypothetical protein
NCU11090.2 MIPS:related to salicylate 1-monooxygenase (flavoprotein monooxygenase) BROAD:p
xnc105_090 MIPS:probable exochitinase BROAD:NULL

Supplementary Table IV- Identification of known light-responsive genes

Gene Name	Gene Function	NCU no.	Early or late light response?
<i>wc-1</i>	Blue light photoreceptor & TF	NCU02356.2	Early
<i>vvd</i>	Blue light photoreceptor	NCU03967.2	Early
<i>cry</i>	Potential blue light photoreceptor	NCU00582.2	Early
<i>frq</i>	Clock protein	NCU02265.2	Early
<i>al-1</i>	Phytoene desaturase	NCU00552.2	Early
<i>al-2</i>	Phytoene synthetase	NCU00585.2	Early
<i>al-3</i>	GGPP synthase	NCU01427.2	Early
<i>ccg-2</i>	Hydrophobin	NCU08457.2	Late in WT
<i>con-6</i>	Unknown	NCU08769.2	Early
<i>con-8</i>	Unknown	NCU10997.2	Early
<i>con-10</i>	Unknown	NCU03967.2	Early
<i>Bli-3</i>	Unknown	NCU07267.2	Early
<i>Bli-4</i>	Unknown	NCU08699.2	Early

Suppl. Table-V			
Gene ID	Gene Symbol	5'-primer	3'-primer
NCU02356.2	wc-1	tcagcagcatcagttcaacc	gttgatgttcgcccattct
NCU04173.2	actin	gtccccgcatcatggatc	cttctccatgtcgtcccagt
NCU01154.2	sub-1	gaagaacctccgacacctca	ctttctatgccgtcaccat
NCU02713.2	csp-1	catctaccggccattctta	ccccaggtgtgagtggtagt
NCU04179.2	sah-1	atggcttcccagtacctct	gactaggaccctggtgatgg
NCU06407.2	vad-3	cggtcttgaggagcattag	atgatgcatccctccatt
NCU03643.2	null	atacaccgcgtatgaggag	cttctacggcttcaggatcg
NCU01107.2	null	gttctgggtcaggctctctg	tctcccccttgacgtgtag
NCU06597.2	null	agcagcctaccacctca	cttctgccagtctcattcc
NCU03967.2	vvd	cgatgaggaaagcgattgat	cccattgctgtaccggtattc
NCU00582.2	cry	cttgacagcctccaaagag	gatggcttgtggtcaagggt
NCU02265.2	frq	tggctcggataagaatggc	atgaaaggtgtccgaagggt
NCU01555.2	null	agcctacgagaagcacaagc	cttgacgttctcctcgtgt
NCU02765.2	null	cactacaagggaacaacga	cttgtgggtggtgaagacct
NCU00309.2	null	agcctactgatgctgccact	cgaatgattccgctgagaac
NCU09535.2	null	ggagaggggtccgcttatag	aatgtccgcactcttggct
NCU00859.2	null	aacgaggaggccgataagat	aaaaccgtgttcgcaaaact
NCU04533.2	null	gagacgagtatgggctggtc	cggtgtcctgttccactca
NCU08455.2	null	gacaagcgacgaaacgtaca	acggatctcttgatttgg
NCU09209.2	null	ctggatgctgttgcattgg	agggatattgcctctgctca
Luciferase	null	ctccctccagttcttcatgc	ggagcttcttggacgttg
ChIP-sub-1 ELRE	null	gaccggaccgaaggcgtggcctc	gctgccaaccagacagagagag
ChIP-frq PLRE	null	cggacgacggctggccaattag	tcgtgctcttctgctcatttc
ChIP-3.303	null	gccaaaggaagacagagaaacg	ggtacatcccgtacatgtgg
ChIP-sub-1 ELRE-QPCR	null	actcgtcaccaactccatc	gccaaaccagacagagagag
ChIP-frq PLRE-QPCR	null	cgagaggacctgaactt	acgttggtgcgaatagagg

Suppl. Table-VI Gene ID	Gene list of total light responsive genes identified by SAM Annotation
NCU08769.2	MIPS:conidiation protein 6 (con-6) BROAD:CONIDIATION-SPECIFIC PROTEIN 6
NCU00585.2	MIPS:geranylgeranyl-diphosphate geranylgeranyltransferase (AL-2) BROAD:PHYTOENE
NCU00552.2	MIPS:phytoene dehydrogenase AL-1 (carotenoid biosynthesis protein al-1) BROAD:P
NCU08291.2	MIPS:probable ferrochelatae BROAD:hypothetical protein
NCU09141.2	MIPS:probable pyridoxine 4-dehydrogenase BROAD:hypothetical protein
NCU00582.2	MIPS:related to deoxyribodipyrimidine photo-lyase BROAD:hypothetical protein
NCU07267.2	MIPS:blue-light-inducible Bli-3 protein BROAD:BLI-3 PROTEIN
NCU04452.2	MIPS:probable NADPH2 dehydrogenase chain OYE2 BROAD:hypothetical protein
NCU09051.2	MIPS:related to formaldehyde dehydrogenase BROAD:hypothetical protein
NCU06597.2	MIPS:hypothetical protein BROAD:predicted protein
NCU07585.2	MIPS:related to siroheme synthase BROAD:hypothetical protein
NCU06420.2	MIPS:putative protein BROAD:predicted protein
NCU08791.2	MIPS:catalase-1 BROAD:hypothetical protein ((AY027545) Catalase-1 [Neurospora
NCU09306.2	MIPS:related to beta-carotene 15,15'-dioxygenase BROAD:hypothetical protein
NCU01861.2	MIPS:related to NAD(P)H-dependent oxidoreductase BROAD:hypothetical protein
NCU10063.2	MIPS:NULL BROAD:hypothetical protein
NCU01107.2	MIPS:related to light induced alcohol dehydrogenase Bli-4 BROAD:hypothetical pr
NCU02801.2	MIPS:related to benzodiazepine receptor, peripheral-type BROAD:hypothetical pro
NCU03967.2	MIPS:vivid PAS protein VVD BROAD:hypothetical protein ((AF338412) vivid PAS pr
NCU02596.2	MIPS:putative protein BROAD:predicted protein
NCU09534.2	MIPS:probable glutathione peroxidase BROAD:hypothetical protein
NCU00838.2	MIPS:related to dehydroshikimate dehydratase BROAD:hypothetical protein
NCU02190.2	MIPS:related to KES1 protein BROAD:hypothetical protein
NCU08699.2	MIPS:alcohol dehydrogenase homolog Bli-4 BROAD:PUTATIVE OXIDOREDUCTASE BLI-4 PR
NCU09821.2	MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02322.2	MIPS:related to mannose-6-phosphate isomerase BROAD:hypothetical protein
NCU06915.2	MIPS:hypothetical protein BROAD:predicted protein
NCU05652.2	MIPS:NULL BROAD:predicted protein

NCU04823.2 MIPS:probable alcohol dehydrogenase (NADP+) BROAD:hypothetical protein
NCU07962.2 MIPS:putative protein BROAD:predicted protein
NCU02265.2 MIPS:period clock protein FRQ BROAD:FREQUENCY CLOCK PROTEIN
NCU09535.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU10997.2 MIPS:con-8 protein BROAD:hypothetical protein
NCU03151.2 MIPS:probable peroxisomal membrane protein BROAD:hypothetical protein
NCU05844.2 MIPS:hypothetical protein BROAD:predicted protein
NCU02397.2 MIPS:probable pyruvate decarboxylase BROAD:hypothetical protein
NCU07082.2 MIPS:related to aspartate-tRNA ligase, cytosolic BROAD:hypothetical protein
NCU00360.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09533.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU08824.2 MIPS:NULL BROAD:hypothetical protein
NCU08626.2 MIPS:deoxyribodipyrimidine photo-lyase PHR BROAD:DEOXYRIBODIPYRIMIDINE PHOTOLYA
NCU00884.2 MIPS:related to wound-inducible protein AWI 31 BROAD:hypothetical protein
NCU08850.2 MIPS:UV-endonuclease UVE-1 BROAD:hypothetical protein ((D11392) UV-endonucleas
NCU03780.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU04371.2 MIPS:probable peptidylprolyl isomerase (FK506-binding protein homolog) BROAD:pr
NCU04179.2 MIPS:related to finger protein AZF1 BROAD:hypothetical protein ((AL451015) rel
NCU05148.2 MIPS:hypothetical protein BROAD:predicted protein
NCU02713.2 MIPS:related to transcriptional repressor BROAD:hypothetical protein
NCU07159.2 MIPS:probable endopeptidase K BROAD:hypothetical protein
NCU07325.2 MIPS:conidation-specific protein CON-10 BROAD:hypothetical protein
NCU01258.2 MIPS:probable cyanate lyase BROAD:hypothetical protein
NCU07273.2 MIPS:putative protein BROAD:predicted protein
NCU02948.2 MIPS:probable 1,4-Benzoquinone reductase BROAD:hypothetical protein
NCU04908.2 MIPS:putative protein BROAD:hypothetical protein
NCU02124.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02771.2 MIPS:probable uroporphyrinogen decarboxylase BROAD:hypothetical protein
NCU07661.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08949.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein

NCU09057.2 MIPS:putative protein BROAD:hypothetical protein
NCU05850.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00939.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU00999.1 MIPS:NULL BROAD:predicted protein
NCU01555.2 MIPS:putative protein BROAD:hypothetical protein (AL451012) putative protein
NCU04266.2 MIPS:putative protein BROAD:hypothetical protein (AL513462) putative protein
NCU09043.2 MIPS:related to calcium-binding protein caleosin BROAD:hypothetical protein
NCU04605.2 MIPS:hypothetical protein BROAD:predicted protein
NCU04417.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00322.2 MIPS:putative protein BROAD:predicted protein
NCU05770.2 MIPS:catalase 2 BROAD:hypothetical protein
NCU02356.2 MIPS:white collar 1 protein BROAD:WHITE COLLAR 1 PROTEIN (WC1)
NCU06554.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein (AF309689) put
NCU02819.2 MIPS:related to nonhistone chromosomal protein BROAD:hypothetical protein
NCU06265.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU07332.2 MIPS:related to ACB 4-hydroxyacetophenone monooxygenase BROAD:hypothetical prot
NCU03731.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein (AL513467) con
NCU11090.2 MIPS:related to salicylate 1-monooxygenase (flavoprotein monooxygenase) BROAD:p
NCU09532.2 MIPS:related to dihydrodipicolinate synthase BROAD:hypothetical protein
NCU01510.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein (AL355932) con
NCU09041.2 MIPS:probable L-xylulose reductase BROAD:hypothetical protein
NCU09992.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU03968.2 MIPS:related to DNA repair protein MMS21 BROAD:predicted protein
NCU00720.2 MIPS:probable L-lactate dehydrogenase BROAD:hypothetical protein
NCU07061.2 MIPS:putative protein BROAD:predicted protein
NCU00859.2 MIPS:putative protein BROAD:hypothetical protein
NCU00586.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU07541.2 MIPS:hypothetical protein BROAD:predicted protein
NCU04667.2 MIPS:putative protein BROAD:predicted protein
NCU05882.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein

NCU01451.2 MIPS:related to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G BROAD:predicted prote
NCU02765.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00236.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU07434.2 MIPS:related to short chain dehydrogenase BROAD:hypothetical protein
NCU08057.2 MIPS:related to tropinone reductase BROAD:hypothetical protein
NCU04295.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein ((AL451109) con
NCU00766.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00111.2 MIPS:putative protein BROAD:predicted protein
NCU00244.2 MIPS:related to galactinol synthase BROAD:hypothetical protein
NCU07745.2 MIPS:putative protein BROAD:predicted protein
xnc105_090 MIPS:probable exochitinase BROAD:NULL
NCU04908.2 MIPS:putative protein BROAD:hypothetical protein
NCU03071.2 MIPS:related to MAP kinase kinase kinase Wis4 BROAD:hypothetical protein
NCU09883.2 MIPS:hypothetical protein BROAD:predicted protein
NCU04415.2 MIPS:related to brefeldin A resistance protein BROAD:hypothetical protein
NCU09715.2 MIPS:probable trehalose-6-phosphate synthase subunit 1 BROAD:hypothetical prote
NCU04510.2 MIPS:related to glycerol dehydrogenase BROAD:hypothetical protein
NCU09692.2 MIPS:related to diacylglycerol pyrophosphate phosphatase DPP1 BROAD:hypothetica
NCU08127.2 MIPS:related to DFG5 protein BROAD:hypothetical protein
NCU07232.2 MIPS:related to heat shock protein 30 BROAD:hypothetical protein
NCU09830.2 MIPS:probable ATP-binding cassette multidrug transport protein; ABC transporter
NCU09526.2 MIPS:putative protein BROAD:predicted protein
NCU01154.2 MIPS:related to NsdD protein BROAD:hypothetical protein
NCU06131.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU01312.2 MIPS:regulator of conidiation rca-1 BROAD:hypothetical protein ((AL451021) reg
NCU07142.2 MIPS:putative protein BROAD:predicted protein
NCU07120.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09210.2 MIPS:related to peroxidase DyP BROAD:hypothetical protein
NCU07649.2 MIPS:NULL BROAD:hypothetical protein
NCU06977.2 MIPS:putative protein BROAD:predicted protein

NCU06506.2 MIPS:hypothetical protein BROAD:predicted protein
NCU10011.2 MIPS:related to cytochrome P450 (CYP94A1) BROAD:hypothetical protein
NCU01427.2 MIPS:farnesyltransferase (al-3) BROAD:GERANYLGERANYL PYROPHOSPHATE SYNTHET
NCU00309.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU02540.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU07064.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06020.2 MIPS:related to extracellular chitinase BROAD:hypothetical protein
NCU06294.2 MIPS:hypothetical protein BROAD:hypothetical protein
NCU05490.2 MIPS:hypothetical protein BROAD:predicted protein
NCU08549.2 MIPS:related to UDP-glucose 4-epimerase BROAD:hypothetical protein
NCU02579.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00401.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU04343.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU04533.2 MIPS:related to calcium-dependent cell adhesion molecule-1 BROAD:hypothetical p
NCU01906.2 MIPS:probable aldehyde reductase BROAD:hypothetical protein
NCU07723.2 MIPS:probable norsolorinic acid reductase BROAD:hypothetical protein
NCU00902.2 MIPS:zinc finger protein white collar 2 (wc-2) BROAD:WHITE COLLAR 2 PROTEIN (WC
NCU09079.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08457.2 MIPS:hydrophobin Ccg-2 BROAD:hypothetical protein
NCU02122.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU08677.2 MIPS:hypothetical protein BROAD:predicted protein
NCU02712.2 MIPS:related to acetate kinase BROAD:hypothetical protein
NCU06009.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU05721.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU09169.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU04558.2 MIPS:NULL BROAD:predicted protein
NCU07605.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein
NCU06682.2 MIPS:conserved hypothetical protein BROAD:predicted protein
NCU00281.2 MIPS:probable sterol glucosyltransferase BROAD:hypothetical protein
NCU07474.2 MIPS:conserved hypothetical protein BROAD:hypothetical protein

17e5_350	MIPS:putative protein BROAD:NULL
NCU08095.2	MIPS:hypothetical protein BROAD:predicted protein
NCU05639.2	MIPS:hypothetical protein BROAD:predicted protein
NCU09502.2	MIPS:hypothetical protein BROAD:predicted protein

Suppl. Table-VII

Gene table of total light responsive genes in WT

Gene ID	DD	LL5	LL10	LL15	LL30	LL45	LL60	LL90	LL120	LL240
18a7_160	-0.062667	0.528046	0.43767	1.219663	0.112194	-0.008442	0.538846	-0.03918	0.496841	-0.042778
4nc630_150	0.380581	-0.059141	-0.210876	0.735802	0.479236		0.272554	0.622483	0.342497	0.486829
4nc710_010	-0.475679	0.083503	0.290125	1.386242	1.197458	0.93793	0.226864	0.27032	-0.394987	-0.744626
NCU00111.2	-0.293103	-0.268343	-0.473	0.379495	0.428372	0.350967	0.855174	0.248412	0.411339	-0.125582
NCU00132.2	0.056853	0.316448	-0.046993	0.254654	0.773229	0.907489	0.300932	0.372875	0.369292	0.108646
NCU00203.2	-0.429125	-0.177982	0.515485	1.853346	1.626743	0.731667	0.471986	0.185556	0.252059	-0.065522
NCU00236.2	-0.437637	-0.531599	0.573613	0.099877	2.022614	1.578363	0.759157	0.547862	0.232222	0.115559
NCU00244.2	-1.313711	0.394153	0.915683	1.701722	2.507264	0.724895	0.932268	0.762469	-0.483033	-0.414398
NCU00263.2	-0.219501	0.201303	-0.138533	0.849751	-0.304243	0.226387	-0.556557	-0.053736	0.349577	0.670868
NCU00276.2					1.754867	0.725346	-0.231042		-0.271951	-0.055009
NCU00281.2	-0.117314	0.108754	0.524703	1.447089	0.764452	0.094185	-0.012081	0.501531	0.783796	-0.527193
NCU00299.2	-0.226814	-0.229335	-0.153689	-0.381068	0.064642	0.029637	0.63938	0.388989	-0.63366	-0.44919
NCU00309.2	-0.307942	-0.411666	0.151552	0.195879	1.386475	1.573497	0.720918	0.940368	1.394837	0.104263
NCU00322.2	-0.227248	-0.977774	-0.84183	-0.457586	-0.900395	0.167727	-0.17614	0.309188	0.976858	-0.463198
NCU00326.2	-0.258545	0.110371	0.040879	0.821045	0.534179	0.617654	0.251196	0.424657	0.063695	-0.328489
NCU00360.2	-1.011227	-0.363307	0.684908	1.893399	1.903669	1.593253	0.7292	0.745669	0.150623	-0.748795
NCU00401.2		-0.390717	-0.38976	0.619976	1.25933	0.324977	-0.247893	0.617232	0.95523	0.302813
NCU00430.2	-0.161767	-0.166415	0.680989	1.035249	0.630587	0.174529	-0.156225	-0.090778	-0.074019	-0.048998
NCU00513.2	0.246914	0.30341	-0.242407	-0.576677	0.27412	0.43274	0.176881	0.473837	-0.01535	0.090175
NCU00549.2	-0.409102	-0.873653	-0.224641	-0.293349	0.71486	0.882045	0.218306	0.358759	-0.436357	-0.358437
NCU00552.2	-3.869032	0.854196	3.15975	3.840921	2.176382	2.178923	2.54448	1.926738	0.621255	-0.180646
NCU00553.2	-0.156107	-0.152213	1.039425	-0.05839	0.095824	-0.377949	-0.033371	0.184575	0.368776	0.430252
NCU00575.2	0.194917	0.011358	-0.080514	-0.303327	0.65035	0.64905	0.565492	0.61594	0.109458	0.114807
NCU00582.2	-2.812078	-0.77503	1.971475	2.254087	3.732442	2.937512	2.323741	2.348585	2.132701	1.729549
NCU00584.2	-0.52854	0.277996	1.020835	1.905017	1.388105	0.434508	-0.044175	0.176883	-0.201692	-0.651398
NCU00585.2	-1.416054	-0.361438	1.583757	0.318304	2.150415	2.354239	1.820329	1.784808	0.50521	0.99251
NCU00586.2	-0.623569	0.210852	0.373799	0.157094	-0.232144	0.008318	-0.221988	0.559357	0.983886	-0.209395
NCU00720.2	-0.379061	-0.424027	-0.011774	0.597857	0.896947	0.370319	-0.132791	-0.492929	0.11217	-0.400499
NCU00766.2	-0.492788	0.388205	0.124627	0.421033	-0.092484	0.266313	0.292268	-0.020186	0.326841	-0.442162

NCU00790.2	-0.120192	-0.50885	-0.28505	0.415035	0.437574	0.891448	-0.019444	0.305221	-0.136173	-0.347559
NCU00793.2	-0.531301	-0.156703	-0.247518	-0.422819	0.825735	0.43664	0.155331	0.139402	-0.025071	-0.645818
NCU00838.2	-0.664776	-0.198647	-0.496479	-0.066459	1.697503	1.05655	1.330314	1.026086	0.917746	0.263762
NCU00859.2	-0.271108	-0.869872	-0.972036	-1.102825	1.49425	-0.104266	1.026976	0.92652	0.86385	0.342089
NCU00884.2	-0.099619	-0.377034	-0.499186	0.06556	0.546488	0.965709	0.684795	0.833871	0.077449	-0.56058
NCU00911.2	-0.135461	0.118646	0.064834	-0.329173	-0.284371	0.169327	-0.18847	0.186251	0.11869	-0.212358
NCU00939.2	-0.788576	-0.175854	0.444372	1.065753	1.930229	0.811409	0.970317	0.221284	0.006687	-0.36728
NCU00999.1	-0.928438	-0.347459	1.152068	2.054729	3.489129	1.758113	1.082158	0.940088	-0.061042	-0.838643
NCU01089.2		-0.389407	0.355977	-0.031575	1.524754			-0.153146	-0.541158	-0.032277
NCU01107.2	-0.795111	-0.750445	-0.562553	0.63418	1.268055	1.868788	1.544382	1.404971	0.960606	-0.343308
NCU01117.2	-0.038207	-0.263181	-0.148659	0.483428	0.663388	0.600812	-0.512752	0.140135	0.129842	0.229773
NCU01154.2	-0.432385	0.098938	0.797528	0.839947	0.286944	0.136626	0.42255	0.049006	0.305529	-0.012572
NCU01193.2	0.358811	0.12996	-0.390844	0.067007	0.493357	-0.326713	-0.573856	-0.390545	-0.590156	-0.814726
NCU01243.2	-0.250818		0.850852		0.336787	-0.478611	-0.430615	0.063271	-0.103216	0.206908
NCU01258.2	-0.604766	-0.2975	-0.091993	-0.086466	0.490141	0.674232	0.947568	0.923289	0.24764	-0.170779
NCU01345.2	-0.011916	0.184011	0.26991	-0.668615	0.474232	-0.050783	-0.360706	-0.182453	0.114362	-0.37683
NCU01419.2	-0.376752	-0.527423	-0.300584	-0.318693	0.560471	0.530543	0.60572	0.196442	-0.00336	-0.469861
NCU01422.2	-0.161875	0.009854	0.329585	0.437243	0.185739	0.270354	-0.316511	-0.400528	-0.246372	-0.295534
NCU01427.2	-1.173586	0.759897	2.101407	2.83734	2.210817	1.289635	0.696666	0.130486	-0.93465	-0.811717
NCU01510.2	-0.991187	-0.058766	-0.351394	0.285825	-0.032731	-0.233972	0.277076	0.804922	1.280203	-0.407646
NCU01539.2	0.117288	0.070096	0.19007	-1.406493	0.575503	0.240111	-0.023297	0.480163	0.17632	0.081589
NCU01555.2	-0.750707	-0.039426	-0.307452	0.52361	0.076468	0.23919	0.25101	0.471633	0.703693	-0.755352
NCU01636.2	0.006845	0.474933	0.140942	-0.125769	0.039544	0.251158	0.302678	0.70058	0.604062	0.257255
NCU01763.2	-0.397086	-0.256872	-0.047934	0.079123	0.148794	0.438082		0.251536	-0.294292	-0.313043
NCU01767.2	-0.111015	-0.040866	-0.296189	0.381249	0.557964	0.383662	-0.334707	-0.05085	0.163621	-0.166896
NCU01768.2	-0.379152	-0.245885	-0.217211	-0.321147	0.196176	0.53717	0.252681	0.452647	0.426684	0.001586
NCU01797.2	-0.205098	-0.025204	-0.064216	-0.288685	0.152761	-0.165253	-0.39962	-0.459444	-0.143008	-0.256624
NCU01815.2	-0.869457	-0.925147	-0.321842	0.356623	0.214949	0.487195	0.085189	0.125047	-0.137412	-0.493593
NCU01844.2		0.10692	0.538733	0.49655	0.526247	-0.07492		-0.088925	-0.014657	-0.893078
NCU01847.1	-0.465131	-0.614937	-0.040748	0.1289	1.205905	0.54938	0.056732	0.247513	-0.290849	-0.31312
NCU01861.2	-2.318392	-1.476439	-1.248463	-0.605292	1.68866	1.983114	2.189849	1.643014	1.237862	-0.993402

NCU01881.2	-0.297476	-0.188983	0.047371	0.507877	0.694637	0.866412	0.092502	0.596013	0.118184	0.100611
NCU01895.2	-0.076045	0.060832	0.351453	0.017434	0.48544	0.231565	-0.732046	-0.142585	-0.030921	-0.432469
NCU01904.2	0.13603	-0.34443	0.044011	0.190519	-0.377361	1.269929	0.284451	1.147506	-0.857108	-0.156172
NCU01905.2	0.222941	-0.649375	-0.344175	-0.284149	-0.492833	0.77876	0.605668	1.243923	-1.355627	-0.239603
NCU01906.2	-0.401	-0.993835	-0.250781	0.308774	-0.245342	1.18213	0.801954	1.155122	-0.103206	-0.233975
NCU01997.2	-0.067953	-0.007934	0.910219	0.352154	1.519405	0.537447		-0.14005	-0.214383	-0.240626
NCU02124.2	-0.283313	-0.213363	-0.409434	0.607657	0.062407	0.476906	0.395812	0.518152	0.591856	-0.320034
NCU02190.2	-3.000609	0.635105	2.468441	3.438731	2.002758	1.505077	1.200153	0.701769	0.334735	-0.459977
NCU02191.2	-0.508694	0.332629	0.657949	0.036691	-0.056074	-0.865479	-0.991426	-0.245571	0.068426	-0.627911
NCU02203.2	-0.206902	-0.197562	0.37705	0.65197	0.238254	-0.082238	-0.628243	-0.58901	-0.463004	0.047836
NCU02255.2	0.311198	0.914304	0.377977	1.098916	0.824247	0.800186	-0.903821	0.613349	0.112904	0.032573
NCU02264.2	0.027328	0.452003	0.678258	1.191351	0.576659	0.383009	-0.333414	-0.028781	0.02708	-0.207895
NCU02265.2	-0.582705	0.948399	1.233125	-0.043316	0.816834	0.451406	0.671602	0.940203	1.85509	0.889513
NCU02287.2	-0.143094	0.240369	0.039452	-1.14128	0.162091	0.374569	0.255587	0.452874	-0.376252	-0.106037
NCU02322.2	-1.03504	-0.651534	-0.663313	-0.277803	1.212094	1.285386	0.894795	1.225618	1.275278	-0.572424
NCU02356.2	-0.432716	0.363586	1.624144	0.350303	1.235165	0.863603	0.365665	0.100265	0.142704	0.444578
NCU02375.2		-0.476852	0.45683	-0.804186	0.536882	-0.352005		-0.209375	-0.178593	-0.2872
NCU02397.2	-0.583485	-0.222041	-0.195532	0.494521	0.799441	0.597025	0.717036	0.699934	0.547511	-0.652513
NCU02512.2		-1.438143		-0.564281	-0.382868		0.416121		-0.248389	
NCU02513.2	-0.067729	-0.490643	-0.45199	0.056579	0.457135	0.503061	0.052698	0.331292	0.392455	-0.234541
NCU02540.2	-0.331073	-0.060511	-0.07095	0.655841	-0.343749	0.368133	-0.127815	0.615697	0.602122	-0.493769
NCU02579.2	-0.508921	-0.401857	-0.086461	0.15117	0.179856	0.611443	0.59252	0.162238	-0.317286	-0.570862
NCU02596.2	-1.159112	-0.157489	-0.137253	0.553939	1.171259	1.342979	0.892267	0.784672	1.220696	-0.642465
NCU02599.2	-0.026692	0.245248	0.436077	-0.519984	0.601529	0.725687	0.091538	0.338711	0.470046	0.082529
NCU02691.2	-1.357036	-0.176936	0.564084	0.203618	0.645577	-0.06884	-0.325647	-0.150504	-0.738643	
NCU02712.2	-0.022916	-0.393005	-0.26479	-0.82473	0.098806	0.664258	-1.109013	0.633202	0.382541	-0.217849
NCU02713.2	-0.984722	1.568495	2.134679	0.680102	0.882096	0.969253	0.425067	0.093222	-0.260596	-0.478079
NCU02765.2	-0.630474	0.233228	0.023291	0.70723	0.155494	0.411972	0.483102	0.369922	0.609395	-0.526126
NCU02771.2	-0.426584	-0.176239	0.199409	0.422119	0.944237	1.233898	0.733071	1.125262	0.397732	0.274125
NCU02801.2	-0.669465	0.206623	1.149553	1.919322	1.901733	1.682401	1.002109	1.173384	1.198109	0.993764
NCU02819.2	-0.214676	-0.239542	0.859095	0.425589	0.397939	0.231355	-0.102352	0.379852	-0.041391	0.02483

NCU02887.2	-0.419235	-0.323261	-0.222735	-1.324086	0.886956	0.518014	0.916903	1.032731	-0.267919	-0.61539
NCU02888.2	-0.279513	0.229672	0.274246	-1.610668	1.160245	0.960371	0.631167	0.779279	-0.256956	-0.544378
NCU02906.2		-0.143007	-0.423825	0.400353	0.391616	0.612883	0.794418	0.304413	0.383987	-0.679174
NCU02945.2	-0.033782	0.289961	0.391227	0.647465	0.300525	-0.22203	-0.17151	0.103777	0.0324	-0.303288
NCU02948.2	-0.965039	-0.23464	-0.041823	0.490233	0.608153	0.610597	0.358041	0.251676	-0.084015	-0.521076
NCU03071.2	-0.688543	0.053991	0.713726	-0.712873	0.879459	0.122617	0.129168	0.005704	-0.014408	-0.179605
NCU03072.2	-0.216362	0.127093	1.012938	1.177055	0.761771	0.014318	0.124731	0.326006	-0.138609	-0.344168
NCU03151.2	-0.260075	0.107729	0.24266	0.643386	-0.001014	0.941596	0.797136	1.016185	0.505947	0.166635
NCU03188.2	-0.506354	-0.109994	0.411297	0.331153	1.2309	1.253819	0.170906	0.528526	-0.600592	-0.340603
NCU03214.2	-0.24268	-0.321302	-0.308953	0.0844	0.755764	0.356149	-0.247188	0.173226	-0.305234	-0.259456
NCU03263.2	-0.158268	-0.221244	-0.394212	-0.096738	0.309227	-0.208208	-0.362406	-0.017367	-0.345292	-0.501725
NCU03290.2	-0.12302	0.134114	-0.285995	-0.515189	0.485269	0.806849	0.115378	0.406853	-0.345651	-0.038341
NCU03312.2	0.284606	0.231703	0.119957	0.49363	0.0667	0.270269	-0.087067	0.185141	0.880497	0.16999
NCU03341.2	0.193244	-0.005372	-0.016853	0.439118	0.26499	-0.271842	-0.631879	-0.331523	0.054584	-1.524163
NCU03357.2	0.020343	-0.555355	0.125179	0.393095	0.885989	0.377405	0.034302	-0.179611	-0.240173	-0.250484
NCU03358.2	-0.576072	-0.379446	-0.290851	-0.70922	0.496979	0.967915	0.696597	1.01108	-0.093287	-0.286503
NCU03378.2	0.029411	-0.094493	-0.641249	0.458984	0.601264	0.793778	0.380128	0.47016	0.251004	0.091806
NCU03415.2	-0.584006	-0.867792	-1.123881	-1.381674	0.515981	0.388461	0.444637	1.224035	-1.91022	-1.074187
NCU03460.2	-0.251194	-0.208112	-0.269288	0.599968	0.47265	0.014754	-0.168877	0.216246	0.346284	-0.356723
NCU03530.2	0.320232	-0.059351	-0.234548	-0.767296	0.151017	0.085914	0.128842	0.155293	0.062712	-0.610592
NCU03602.2	0.034268	0.297816	0.126737	1.139679	0.304287	0.252191	-0.76831	-0.176999	0.215043	-0.388461
NCU03617.2	-0.516379	-0.715838	-0.805003	0.050884	-0.363681	0.384657	-0.36983	0.105101	-0.328757	-0.397896
NCU03643.2	-0.591765		0.124051	1.255915	0.11023	0.970713	1.353383	0.71807	-0.893711	-0.969379
NCU03685.2	-1.602731	-0.582632	-0.226699	-0.282213	0.238056	0.1353	0.148811	0.025193	0.068307	-0.321888
NCU03699.2	0.306096	0.391614	0.138065	-1.239633	0.686283	-0.325654	-0.544312	-0.184768	-0.518704	-0.15494
NCU03731.2	-0.474664	-0.134834	-0.005286	0.631354	0.534224	0.892363	0.463153	0.699941	0.228659	-0.480166
NCU03779.2	-0.551553	-0.996502	-0.726199	0.014928	0.187813	0.551595	0.165422	0.064934	-0.520913	-0.794317
NCU03780.2	-0.788256	-0.102404	0.1504	0.768008	0.545068	0.598774		0.705534	0.840081	-0.540848
NCU03803.2	0.019031	0.050662	-0.093101	0.382615	-0.574319	0.628407	0.239333	0.817875	-0.477479	-0.277518
NCU03967.2	-3.433554	-0.29492	1.793058	2.134255	2.130808	2.203639	1.859802	2.00361	1.999066	2.093913
NCU03968.2	-0.347768	-0.198215	0.286398	0.67834	0.870229	0.560284	0.261802	0.679756	0.413327	0.111507

NCU04071.2	-0.200291	-0.368947	-0.502275	-0.025958	0.239287	0.121927	-0.257255	0.138006	0.026132	-0.628013
NCU04091.2	-0.374335	0.318652	0.424518	1.030297	0.699277	0.128431	-0.321631	-0.540566	-0.110329	-0.142558
NCU04174.2	-0.401558	-0.126519	-0.242131	0.347407	0.149869	0.033589	-0.330087	0.112131	-0.069735	-0.480305
NCU04179.2	-0.962863	-0.339071	0.062439	0.06579	1.785688	0.95255	0.615543	0.964884	0.374372	0.178268
NCU04265.2	0.119213	-0.246169	-0.313572	0.229416	-0.550619	0.819333	0.411699	0.919653	-0.491545	-0.389287
NCU04266.2	-0.464643	0.053034	-0.417533	0.089294	0.696014	0.843739	0.193606	0.305096	0.891921	-0.594204
NCU04274.2	-0.103307	0.360688	0.455983	0.516523	0.576816	-0.205031	-0.35724	-0.26893	-1.228006	0.285575
NCU04295.2	-0.77438	-0.593009	0.473543	1.219487	1.139893	1.126225	1.499411	0.311083	-0.280815	-0.744767
NCU04342.2	0.197588	-0.343201	-0.157034	0.72037	0.387056	0.936981	-0.041009	0.576537	-0.439038	-0.008079
NCU04343.2	-0.485018	-0.35476	-0.18782	0.530265	0.091269	0.80767	0.439921	0.802996	-0.246499	-0.24543
NCU04371.2	-0.593642	0.010747	0.839435	1.211296	1.452173	1.145665	1.494184	1.62912	0.516461	0.422878
NCU04387.2	0.010866	0.077371	0.065663	0.081823	0.564144	0.151902	-0.160816	0.190553	0.023898	-0.255853
NCU04415.2	-0.571437	-0.809629	-0.440845	-0.132192	-0.108535	0.634365	0.242622	0.604604	0.885243	-0.460234
NCU04417.2	-0.232868	-0.589353	-0.475277	0.345636	-0.101122	0.914245	0.01912	0.997481	1.155832	-0.218038
NCU04452.2	-1.64452	0.626434	1.303562	2.488545	1.710389	1.998695	1.394074	1.377712	0.705961	0.082278
NCU04460.2	-0.216517	-0.910521	-0.393477	0.224428	0.512597	0.444016	0.612639	0.531647	-0.074347	-0.113289
NCU04474.2	-0.682476	-0.125893	-0.134142	0.201894	-0.099115	0.180432		0.138117	0.0586	-0.298402
NCU04510.2	-0.549948	-0.359205	-0.478078	0.068327	-0.116506	0.660461	0.212373	0.384383	0.371585	-0.54945
NCU04533.2	0.112734	-0.672575	-1.019964	0.085006	1.381305	-1.20542	2.109139	2.318472	0.017631	1.271664
NCU04605.2	-0.889908	0.093791	0.010247	-0.005889	-0.712646	0.19602	0.220209	0.541176	1.09308	-0.553278
NCU04635.2	-0.693658	0.188728	0.059334	-0.020656	-0.872773	-0.164177	-0.259195	0.379978	0.278979	-0.722106
NCU04637.2	-0.360834	0.49022	0.190724	0.464853	0.328326	-0.148077	-0.774625	-0.379745	-0.376781	-0.0668
NCU04667.2	-0.073126	0.128207	-0.09896	-0.966379	-0.56072	0.271838	-0.055557	1.484322	2.606675	0.86104
NCU04674.2	-0.016948	-0.674051	-0.886315	-0.68503	-0.770315	0.389402	0.384707	1.808886	-0.627852	-0.22979
NCU04675.2	0.105446	-0.362568	-0.58862	-0.392436	-0.519584	0.738592	-0.226659	0.644667	0.271287	0.0819
NCU04676.2	0.139077	-0.092235	0.019513	0.150652	0.381658	0.724506	0.036353	0.642292	0.259864	-0.056192
NCU04757.2	-0.536336	-0.540887	-0.127957	0.546486	0.781993	0.790372	-0.132977	-0.294649	-0.154114	-0.219184
NCU04796.2	-0.287955	0.069314	0.358276	-0.621009	0.403307	0.588954	0.267158	0.398654	-0.350408	-0.305391
NCU04797.2	-0.113321	0.590731	-0.233307	-0.801214	0.301625	0.448858	0.495239	0.663794	-0.270923	-0.253626
NCU04801.2	-0.29975	-0.271244	-0.071622	-0.055463	0.649721	0.895539	-0.432455	0.308052	-0.113786	-0.332706
NCU04814.2	-0.191881	0.252145	-9.92E-04	0.55925	0.490213	0.241343	-0.3771	-0.302673	0.00191	-0.171546

NCU04823.2	-1.141515	-0.775172	-0.796623	-0.811061	0.755911	0.871898	1.111354	1.466336	1.422806	-0.796485
NCU04908.2	-1.004414	-0.602677	-1.08501	-0.889014	0.90239	1.417713	1.30291	0.718467	0.526933	-0.727721
NCU04921.2	-0.440156	-0.618081	0.258842	0.607324	0.754705	0.159247	0.095874	0.271338	0.247661	-0.184447
NCU04946.2	-0.251847	0.049336	-0.245592	-0.375141	0.344702	0.650351	0.197416	0.669241	0.47473	-0.021153
NCU04963.2	0.21872	-0.564977	-0.355061	-0.62704	-1.323157	0.382676	0.470346	1.283886	-1.612503	-0.456062
NCU05007.2	0.11979	-0.18598	0.51276	-0.378994	1.09978	-0.054332	-0.280322	0.09843	-0.612894	-0.327532
NCU05061.2	-0.156944	-0.934795	-0.930499	-0.799612	-0.25027	0.115066	-0.039869	0.146691	-0.594403	-0.375288
NCU05133.2	0.056944	-0.214142	0.188624	-0.411438	0.044349	-0.135584	-0.091631	-0.489316	-0.012222	-0.133477
NCU05148.2	-0.805432	-0.645871	-0.399781	0.449991	0.278211	0.818454	1.429359	0.871513	0.571178	-1.276687
NCU05169.2		-0.878868	-0.129963		0.481864	0.372037	0.661355			
NCU05291.2	-0.223294	-0.310484	-0.154649	0.350645	0.44619	0.613946	0.520148	0.484289	0.24083	-0.236933
NCU05429.2	0.135061	-0.11485	-0.279419	-0.116105	0.506763	0.615634	0.271959	0.275593	0.156006	0.11735
NCU05490.2	-0.704323	0.237623	0.012025	0.890502	-0.143221	0.52594	0.237374	0.08728	0.556123	-0.66156
NCU05594.2	-1.00774	0.578335	1.874784	2.998992	1.417877	1.798373	0.4786	-0.062244	-0.918403	-1.000346
NCU05627.2	0.088546	-0.388229	-0.476011	-1.070596	0.303096	1.693961	0.8844	2.077692	-1.345622	-0.123504
NCU05639.2	-0.297392	-0.596473	-0.898848	-0.037862	0.378267	0.587515		0.102641	-0.139892	0.690784
NCU05652.2	-0.433079	-0.442611	-0.150377	0.616428	0.137477	1.349248	2.063867	1.19396	2.042257	-0.326948
NCU05683.2	-0.589003	-0.500941	0.114747	0.3118	0.87637	0.575265	0.022921	-0.409847	-0.6194	-0.179328
NCU05721.2	-0.487064	0.167692	1.394422	1.714495	0.586475	0.555702	0.162488	0.345613	0.081595	-0.25315
NCU05770.2	-0.882896	-0.734024	0.370784	1.326435	1.064193	1.629056	1.032446	0.894214	0.418418	0.147792
NCU05785.2	-0.060819	0.120397	-0.063591	-0.21109	-0.003064	-0.208934	-0.261295	-0.04676	-0.12883	-0.18914
NCU05786.2	-0.353963	0.109064	0.221951	-0.589745	0.181587	-0.325206	-0.786346	-0.247564	-0.497783	-0.369891
NCU05844.2	0.271293	0.384009	0.424892	0.359346	0.955306	0.736398	1.03313	0.744514	0.933774	0.23356
NCU05850.2	-0.458799	-0.663356	-0.326263	-1.192821	0.457388	0.808604	-0.024987	0.629811	0.090036	-0.507314
NCU05858.2	1.289092	-0.070074	-0.637314	-0.818373	2.206201	-0.226168	0.670959	0.27683	-2.179052	1.202203
NCU05882.2	-0.337178	-0.483399	-0.493215	0.26001	-0.903882	0.802997	-0.088851	0.414381	0.447041	0.154627
NCU05897.2	0.162627	-1.116783	-1.246731	0.379855	-1.171898	0.418331	0.530057	1.775555	-1.612605	-0.56414
NCU06005.2	0.051667	-0.281741	-0.367569	-0.606613	1.095041	0.639915	-0.3554	-0.212251	-0.56031	-0.382434
NCU06009.2	-0.116452	-1.156494	-0.389397	-0.010658	-0.150902	0.619363	-0.416818	0.376511	0.21316	-0.111656
NCU06020.2	-0.23409	-0.071634	0.157311	0.584598	0.236734	-0.018928	-0.002953	0.169723	0.104948	-0.045457
NCU06095.2	-0.539862	0.248895	0.822382	0.504522	0.949952	0.148986	-0.343062	-0.236702	-0.448422	-0.471638

NCU06131.2	0.156688	-0.101592	-0.146689	-0.211048	-0.081468	0.289719		0.496249	1.000021	-0.095909
NCU06203.2	-0.290829	0.616221	0.377731	0.571272	0.193155	0.09443	-0.233207	-0.351399	-0.729013	-0.082203
NCU06218.2	-0.013832	-0.231401	-0.413309	0.130663	0.102777	-0.446901	-0.438605	0.0663	0.043235	0.094287
NCU06265.2	-0.586095	-0.525421	-0.57237	0.188464	-0.149207	0.253064	0.255005	0.692023	1.40426	0.172182
NCU06306.2	-0.931577	-0.653596	0.756019	1.483804	1.516452	0.437576	-0.120436	-0.36755	-0.14976	-0.377276
NCU06416.2	-0.192528	-0.570883	-0.424141	0.973236	0.70072	0.439775	0.475598	0.081137	-0.56154	-0.228066
NCU06420.2	-0.751525	0.538556	1.446848	2.093296	1.492925	1.702194	0.680658	0.449716	0.729202	0.487845
NCU06506.2	-0.172883	-0.120911	-0.453551	-1.266818	-1.110587	0.105901	0.308206	0.521718	0.97572	-0.094399
NCU06549.2	-0.094014	0.121497	0.178097	0.478621	0.971049	0.464571	-0.595739	-0.309634	-0.305544	0.085536
NCU06554.2	-0.492513	-0.060391	0.43609	0.017886	1.340636	1.422151	0.638534	0.330567	0.250882	0.11038
NCU06597.2	-1.513299	-0.301842	-0.107769	0.665962	1.863645	2.031277	1.907244	1.369994	1.138439	-0.506008
NCU06603.2	-0.312101	-0.612754	-0.293246	-1.33068	0.646113	0.505024	0.40666	0.52663	-0.208364	-0.182659
NCU06662.2	-0.13336	0.963793	2.346772	2.498458	1.51721	-0.045857	-0.519171	0.563823	-1.0261	-0.730116
NCU06682.2	-0.335986	-0.196138	-0.198977	0.294287	-0.617281	0.207171	0.228515	0.173509	0.373536	-0.696839
NCU06751.2	-0.869969	-0.421195	0.277264	0.982623	1.552437	1.427504	0.602511	0.114757	-0.195275	-0.448563
NCU06915.2	-1.813899	0.298063	1.392917	1.935961	1.398184	1.099606	0.627087	0.718847	0.15147	0.042062
NCU06977.2	-0.633715	-0.947007	-1.620191	-0.722493	-0.296512	0.248788	0.320368	0.710227	0.238225	-0.185012
NCU06986.2	0.122054	-0.136683	-0.059243	0.065115	0.438695	-0.153147	-0.021428	-0.099925	-0.326455	-0.753444
NCU07024.2	-0.338153	0.322701	0.569586	0.256201	0.738151	0.4175	0.182753	0.431622	0.263881	-0.562942
NCU07061.2	-0.312534	0.063152	-0.026361	-0.294782	0.188658	0.341746	0.569903	0.440457	0.491281	0.157161
NCU07064.2	-0.821829	-0.512527	-0.404764	-0.128496	-0.570436	1.468074	1.003033	1.350073	0.103744	-0.090515
NCU07075.2	-0.187225	0.226455	0.905163	1.020563	1.392731	-0.044041	0.860189	0.221259	-0.088657	-0.791861
NCU07082.2	-0.732509	0.38319	0.494087	0.473166	0.481741	0.645214	0.028923	0.623135	1.035673	-0.16311
NCU07119.2		-0.160739	0.025937	0.462749	0.988937	0.683304	0.366194		8.46E-04	-0.260136
NCU07120.2	-0.468832	-0.208138	-0.272884	0.857795	0.532234	0.62431	0.470244	0.282416	-0.039679	-0.826123
NCU07142.2	-0.663017	-0.122053	-0.492644	0.51053	-0.423144	0.363283	-0.37173	0.178284	0.599758	-0.543885
NCU07159.2	-0.227406	-0.173055	0.056866	-0.765269	1.822844	1.391632	1.099583	0.864835	-0.668888	0.78411
NCU07221.2	-0.794877	0.248055	0.601206	-0.186329	-0.47701	0.151733	-0.207543	-0.854036	-0.209355	-0.341593
NCU07232.2	-2.102242	-1.231761	-1.540036	-0.71413	-1.287745	0.496575	1.829602	0.804975	1.0972	-0.614936
NCU07264.2	-0.315878	-0.125668	0.541912	1.675238	2.04785	0.955738	0.050566	-0.077466	-0.664857	-0.660584
NCU07267.2	-1.572663	-0.342669	0.606399	1.838522	2.06045	3.036873	2.946626	2.649279	2.304111	0.966979

NCU07273.2	-0.135819	-0.6636	-0.265825	0.510913	-0.074927	0.53255	0.090849	0.520395	0.694579	-0.278927
NCU07287.2	-0.329242	-0.606828	-0.326498	-0.729959	-0.005288	-0.173547	-0.200096	-0.260116	-0.250041	-1.522243
NCU07296.2	-0.098347	0.042905	0.325431	0.338055	1.084165	0.629808	0.152292	0.12193	0.101224	-0.059081
NCU07325.2	-3.230345	-1.632737	0.5285	2.473047	3.116206	2.470008	2.184392	1.28295	-0.079906	-2.590308
NCU07332.2	-0.501364	0.109343	0.050544	0.397943	0.634192	0.833104	0.45831	0.093401	0.376971	-0.450081
NCU07338.2	0.145738	-0.112848	0.097299	0.641264	-0.042036	0.496037	-0.560693	0.405727	0.588221	0.03964
NCU07363.2	-0.34362	0.159429	0.457328	1.3229	0.27982	0.569224	-0.139503	0.107385	0.095945	0.170118
NCU07400.2	0.003011	-0.982628	0.111597	0.194483	0.738308	-0.098063	0.577773	0.277385	0.295734	0.148766
NCU07401.1	0.005239	-0.064345	0.246862	0.581767	0.744666	0.752131	-0.130508	0.413277	0.379602	-0.316055
NCU07424.2		-0.233571	-0.038986	-0.085469	0.580343	0.199954	0.311359	-0.457852	0.489885	-0.473517
NCU07434.2	-0.758496	-0.293434	1.07222	-0.742487	2.267709	0.831961	0.760666	0.514921	0.369421	-0.018925
NCU07441.2		0.295183	0.207938	-0.694208	-1.764868	-0.392584	-0.498917	-0.175088	1.627913	0.510056
NCU07453.2	-0.239631	-0.675	-0.753566	0.014699	0.714238	0.945303	0.332118	0.599251	-0.331996	0.091318
NCU07541.2	-0.889248	-0.571486	0.554719	1.217895	1.503617	1.447875	0.203937	0.348666	0.466799	-0.424095
NCU07584.2	-0.169736	0.636755	0.941476	0.89328	0.420906	0.006649	0.202659	-0.046381	0.075741	0.181202
NCU07585.2	-0.887621	0.672406	1.281267	1.372809	2.10164	2.120476	1.183494	1.254552	0.840103	1.159825
NCU07649.2	-0.290796	-0.348213	-0.038559	0.258737	0.640245	0.933098	0.258631	0.240475	0.080162	0.047432
NCU07661.2			-0.071129	-0.695245	1.722775		0.933949	0.168634	0.418399	
NCU07675.2	0.034424	0.42237	0.622155	0.778337	-0.159872	-0.060248	-0.449932	-0.463442	0.112804	0.359347
NCU07723.2	-0.103564	0.045416	-0.118108	-1.069639	0.53985	0.478222	0.703385	0.543032	-0.01021	-0.434792
NCU07745.2	-0.298732	-0.371868	-0.274406	0.193127	0.449216	0.228001	0.223191	0.13284	-0.316951	0.108159
NCU07921.2	-0.762265	-0.018511	-0.022595	-0.219975	-1.286268	-0.481048	-0.429491	0.062065	0.057011	-0.509144
NCU07962.2	-0.573808	0.081641	0.383698	0.630874	0.214893	0.620503	0.24509	0.147877	0.23433	-0.129413
NCU07971.2	-0.360645	0.211997	1.132559	-0.069472	0.630186	-0.166696	-0.766196	-0.036263	0.013434	-0.33012
NCU08057.2		-0.05609	0.897552	0.76017	-0.53928	0.3888	0.101913	0.140823	0.854226	-0.234173
NCU08064.2	-0.453749	0.583944	0.670286	0.211976	-0.192302	-0.099841	0.345469	0.046509	0.593233	-0.493545
NCU08070.2	-0.250188	-0.714705	0.288089	0.117741	0.98867	0.592522	0.766746	0.686294	0.265108	-0.278816
NCU08095.2	-2.05501	-0.441393	-2.063079	0.775494	0.353967	0.502822	0.888218	-0.196063	-0.622177	-0.818534
NCU08127.2	0.036593	0.182089	0.159688	0.518442	0.458743	0.644519	0.368143	0.372005	0.336273	0.029603
NCU08133.2	-0.190961	0.273578	0.030806	-0.082391	0.808196	0.494013	0.338584	0.576116	-0.158722	-0.689666
NCU08190.2	-0.132076	-0.821139	-0.269589	0.440908	0.438041	0.969883		0.44663	-0.617604	-0.498042

NCU08224.2	-0.487464	-0.593411	-0.677174	-1.587632	-0.564011	0.41887	-0.269486	0.234896	-0.331733	-0.176026
NCU08280.2	-0.433916	0.097827	0.276732	0.647572	-0.209563	-0.175375	-0.3252	-0.475874	-0.007324	-0.526064
NCU08290.2	-0.268273	-0.090448	0.049781	0.192647	0.515575	0.613511	-0.218624	0.293578	-0.217188	-1.957418
NCU08291.2	-1.027232	0.132524	0.991411	1.64178	1.56265	1.920688	1.30837	1.317436	0.746528	0.416961
NCU08418.2	0.14234	-0.166523	-0.539342	0.117125	-0.120411	0.19635	0.312752	-0.098883	0.075451	0.68608
NCU08440.2	0.099183	-0.335773	-0.360427		0.880004	0.668834		0.683023	0.172614	0.380649
NCU08455.2	-0.624418	-0.25752	-1.099461	-0.060473	2.516354	0.041773	1.158118	1.091336	-0.794175	-0.141458
NCU08457.2	-0.623398	-2.056217	-2.128436	-1.905629	4.304808	-1.282862	2.611896	2.726944	0.429045	2.496111
NCU08501.2	0.107457	-0.33188	-0.058119	-1.423878	0.100745	0.211582	-0.295954	0.132924	-0.01275	-0.036099
NCU08549.2	-1.539717	-0.921632	-0.870253	-0.131888	0.677105	0.777744	0.595073	0.262826	0.02424	-1.169874
NCU08626.2	-1.922434	1.300133	2.681988	1.960453	3.09064	1.59371	0.889366	0.233289	-0.379386	-0.757931
NCU08674.2	-0.319285	0.383118	1.056096	0.040938	1.356793	0.157185	-0.696744	-0.559465	-0.818026	-0.392077
NCU08677.2	-0.319119	0.108507	-0.116063	0.438871	0.512997	0.444864	0.01651	0.256991	-0.027861	-0.331546
NCU08699.2	-2.241424	-1.153586	1.356994	2.282092	2.935771	2.390691	2.043021	0.944704	0.890757	-0.638057
NCU08769.2	-2.730135	-1.061653	1.041644	3.184353	3.331516	3.730746	4.370375	3.014158	1.240696	-1.702723
NCU08791.2	-0.249835		-0.051565	-2.016326	1.21833	1.259326	1.042916	1.162614	1.26539	0.21961
NCU08824.2	-1.238332	0.397792	1.394313	2.754715	2.053069	1.997349	1.151052	0.844114	-0.345582	-0.267856
NCU08850.2				0.915318	2.049172	1.281842	1.171817	0.642482	0.741443	-0.629462
NCU08922.2	-1.356174	-0.637381	-0.562403	-0.817894	0.752232	0.199278	-0.151752	0.068642	-0.810419	-0.035487
NCU08949.2	-0.384215	-0.43872	-0.405518	0.369646	0.467412	0.575757	0.826328	0.906684	1.109316	-0.219437
NCU09041.2	-0.085028	0.021933	-0.078184	0.404163	-0.311904	0.723203	0.637548	0.666218	0.954428	0.143269
NCU09043.2	-0.977502	-0.3104	-0.375829	0.291608	1.016554	0.779082	0.750803	0.47499	0.195443	-0.356548
NCU09051.2	-1.780881	0.584147	0.324686	0.633724	1.721039	1.964556	2.03858	2.381826	1.777712	0.037759
NCU09057.2	0.175619	-0.242512	-0.055465	-0.417591	0.370954	0.722848	0.287134	0.483819	0.61433	0.026837
NCU09079.2	-0.341766	0.062507	0.470105	1.250788	0.869928	0.09049	0.160853	-0.121938	0.348538	-0.508046
NCU09115.2	-0.583229	-0.881055	-0.639325	0.613362	0.895451	0.908205	0.459404	0.311191	-0.474888	-0.718629
NCU09141.2	-0.815438	-0.197795	0.660732	2.019322	2.369332	2.246327	1.636344	1.127245	0.421816	0.311404
NCU09201.2	-0.100434	0.038623	0.159426	-0.158655	0.850294	-0.174159	0.167509	-0.03632	0.370672	-0.144889
NCU09209.2	0.274297	-0.943699	-0.482236	-0.290201	2.735531	0.084688	2.056556	1.757981	-0.375292	-0.095393
NCU09210.2	0.166257	-0.174281	0.003518	0.987325	1.815446	0.984961	2.13208	2.009148	-0.536239	0.008395
NCU09266.2	0.076558	-0.01278	-0.526771	-0.399321	0.153719	0.331764	-0.087683	0.225128	-0.399854	-0.099936

NCU09290.2	0.131044	-0.255042	-0.094719	0.463207	0.537893	0.384739	0.180304	0.324141	0.182783	-0.196032
NCU09306.2	-1.797558	1.049168	2.240932	3.240756	2.629556	1.681689	1.197945	0.715648	-0.193291	-0.196695
NCU09403.2	-0.075955	-1.102078	-0.300106	0.579968	-0.023159	6.81E-04	0.367326	-0.059705	0.255465	-0.094858
NCU09502.2		1.15811	1.316334		0.365327	0.169371	-0.861821	-0.142833	0.628403	0.034743
NCU09526.2	-0.829176	0.185237	-0.337907	0.657011	0.402923	0.614354	0.313044	0.289235	-0.019613	-0.365441
NCU09532.2	0.337999	-0.422232	-0.437612	-1.052726	-1.057413	1.53318	0.648931	2.031695	0.297793	0.344558
NCU09533.2	-0.412222	-0.864887	-0.402333	0.387628	0.286818	2.028003	1.316397	1.960506	0.014989	0.072113
NCU09534.2	-0.890075	-0.342107	0.378953	0.388582	1.307187	1.804828	0.930927	1.069932	0.326849	0.303283
NCU09535.2	-0.615727	-0.102785	0.425083	1.05318	0.863245	1.442891	0.64217	0.903078	0.226691	-0.112775
NCU09553.2	0.210786	-0.260914	-0.478617	0.47511	0.921112	0.134309		0.821508	-0.414908	0.163013
NCU09560.2	-0.125972	-0.433632	0.09383	0.406136	0.20419	0.56414	0.189936	0.487385	0.17069	-0.42562
NCU09579.2	-0.277757	-0.747888	-0.305694	0.279565	-0.079755	0.054594	-0.306518	0.133405	0.07658	-0.164083
NCU09646.2	-0.173642	0.076929	0.362435	-0.573783		0.549526	0.18677	0.465594	0.137521	0.014518
NCU09692.2	-0.733185	0.935339	0.474427	-0.57538	-0.77492	0.337299	-0.082075	0.540327	1.363924	-0.27851
NCU09714.2	-0.987201	-0.259051	-0.158329	-0.173853	-0.440689	0.099738		0.104887	0.198236	-0.091609
NCU09715.2	-0.079914	-0.035808	0.114182	-0.006006	1.048921	1.069442	0.534271	0.492245	0.301373	0.074886
NCU09716.2	0.01345	0.034113	-0.405654	0.310024	0.529796	0.308414	-0.285405	0.102286	-0.130485	0.071644
NCU09723.2	0.06353	0.731862	-0.070678	0.484199	0.15897	-0.035372	-0.532428	0.157127	-0.221854	-5.04E-04
NCU09783.2	-0.008901	-0.01583	0.195054	-0.037459	0.160549	0.594603	0.636226	0.233734	-0.848742	0.008123
NCU09820.2	-0.456449	0.088142	-0.700816	0.596403	0.011877	-0.318663	-0.088014	-0.191168	-0.1617	-0.090456
NCU09821.2	-0.690243	0.095502	-0.272279	-0.158941	0.824345	0.85374	0.7204	0.803472	0.757446	-0.345215
NCU09830.2	-1.235147	-0.813786	1.716003	3.535218	3.363716	0.878848	0.540825	-0.440585	-0.972168	-1.675959
NCU09841.2	-0.266986	-0.163198	0.627149	1.086311	1.413016	0.452339	-0.275068	0.056316	-0.309364	-0.598368
NCU09883.2	-0.203788	-0.18823	-0.72668	0.09543	1.348962	0.454847	0.443461	0.679398	-0.241173	-0.107907
NCU09931.2	-0.184174	-0.015878	-0.087512	-0.058059	0.467027	0.50394	0.270363	0.1779	-0.372253	-0.290383
NCU09937.2		-0.342864	-0.237619	0.53149	1.286685	-0.01128			-0.129261	-0.394995
NCU09992.2	-0.727367	-0.43724	-0.120867	-0.062851	-0.025692	0.362256	0.128638	0.107768	-0.524963	0.315913
NCU10011.2	-0.358647	-0.201253	0.748217	1.480743	1.063815	0.273019	-0.117377	0.073629	0.118672	-0.41877
NCU10021.2	0.057602	-0.113624	-0.299849	-0.263161	-0.454472	0.964461	1.155913	1.992817	-1.111355	-0.06416
NCU10063.2	-1.142282	1.230461	2.710498	2.616664	1.933691	1.36493	0.728625	0.503855	0.153462	0.094092
NCU10360.2		0.053265	0.270278	-0.607067	0.226	-0.264981	0.206149	-0.385142	0.018038	-0.877158

NCU10360.2	-0.476109	-0.12636	-0.650615	-0.016912	-0.012503	0.332838	0.032619	0.389937	-0.168069	-0.448747
NCU10656.2	-0.452749	-0.517684	-0.137829	0.082885	-0.38582	0.688185	-0.034515	0.647581	0.189527	-0.326668
NCU10880.2	-0.131709	0.243866	-0.097785	1.178811	0.276085	-0.046501	-0.057794	-0.190261	-0.083916	0.009309
NCU10997.2	-2.006821	-1.876359	-0.892798	-0.271819	1.15014	1.683118	2.040603	1.527207	1.508354	0.359228
NCU11090.2	-0.830844	-1.44318	-0.128705	0.740759	1.19572	2.003994	0.080239	0.758871	0.803738	0.858681
xnc105_090	-0.359208	-0.585813	0.082513	0.807041	1.446877	0.948015	0.091686	0.420032	0.486168	-0.3378