AFGC Microarray Probe Classification Form

Proposal Number: 666-XXX-666-XXX-6
Tube Label: 666-XXX-666-XXX-6-2Cy3
Slide Number: 2
Channel Name: Cy3
Lab Head: Chris Somerville
Abstract Title: Discovery of genes involved in nitrate signalling

II. Taxonomy

A. Genotype

Genus and species	
Other genus and species	
Genotype	
Other genotype	
Common accession and alias	
Other accession and alias	
ABRC or Nottingham ID	
Additional description of accession or ecotype origin or derivation	

B. Source

If the source of seed was not available from ABRC or Nottingham, please indicate. Researchers are strongly encouraged to deposit seed samples of all genotypes with the ABRC and Nottingham stock centers.

Contact person	
Address	
City	
State	

ZIP	
Country	
Geographical location where seed was collected	Country:Further comments:

III. Growth Conditions

A. Growth Room

Growth room	
Other growth room	

B. Day

Average temperature (°C)	
Average relative humidity (%)	
Light regime	
Other light regime	

C. Night

Temperature (°C)	
Relative humidity (%)	
Duration (hours)	

D. Light Conditions

Light intensity at soil level (µeinsteins)	
Light sources	☐ Fluorescent ☐ Incandescent ☐ Metal Halide ☐ High Pressure Sodium ☐ Natural ☐ Other Light Source
Other light source	

E. Comments

Any further comments on the growth conditions of the plants that were the source of this sample belong here. If any condition was highly variable or uncontrolled, please make a note of it here.

Notes on growth conditions	

IV. Growth Media

A. Media

If soil is chosen, then Part B. is required
If agar is chosen, then Part C. is required

Growth media	
Other media	

B. Soil

Soil type	☐ Mix Commercial ☐ Mix Custom ☐ Natural Soils ☐ Sterile ☐ Nonsterile ☐ Other
Description of mix (brand, custom proportions)	

C. Agar

If agar, please complete the following:

Agar concentration (% by mass)	
Agar additives	☐ Basal Media ☐ Supplements ☐ Sucrose ☐ Selective Chemicals ☐ Treatment Chemicals ☐ Other Additives

Please provide a short description	

D. Fertilizer

Fertilizer type	
Application rate (specify units)	
Description or brand name	

E. Vernalization Treatments

Were plants vernalized?	◉ No ○ Yes
If yes, describe method	

F. Seed Dormancy Treatments

Days at 4°C (to break seed dormancy)	

V. Harvest Conditions

These are the conditions of the plants at the time of harvesting for RNA isolation.

A. Time

Hours after daybreak	
Hours after treatment (if applicable)	
Is this a circadian experiment?	◉ No ○ Yes
Is this a time course experiment?	◉ No ○ Yes

B. Chronological Age

Days after planting	

C. Physiological Age

Number of true leaves and macroscopic leaf primordia	
Developmental stage	
Other developmental stage	

D. Anatomy of Plant Sample

Organ	
Other organ	
Tissue type	

E. RNA Sample

Sample type (first round polyA only)	
Other sample	
RNA extraction method (TRIzol method recommended; pine tree method for recalcitrants).	
Please provide reference for method or brand name	

VI. Treatment of Plants

A. Control of Treatment Sample

Is this sample a control or reference sample or is this sample from a treated sample?	◉ Treated ○ Reference

B. Mutant

If the experimental RNA sample was derived from a mutant line please fill in the following

Laboratory designation of mutant line	
ABRC or Nottingham ID	
Name of mutated gene	
Gene abbreviation	
Allele name	
Mutation type	
Other mutation type	

Mutant type	☐ gain of function ☐ loss of function ☐ null ☐ overexpressor ☐ suppressor ☐ unknown ☐ other
Other mutant type	
Mutagen	
Other mutagen	
Dominance of mutant	
Other dominance	
Mutant screening criterion and phenotype	
Reference (if available)	
Chromosome	
Genetic map position or genomic clone ID	

C. Transient or Stable Transgenic Plant

Was transformation stable or transient?	◉ Stable ○ Transient
Gene introduction method	
Other method	
DNA type	
Other DNA type	

Name of inserted gene	
Orientation of inserted gene	
Source of inserted gene (organism)	
Reporter gene	
Promoter	
Selectable marker gene	
Reference (if available)	

D. Environmental Treatment Categories

At least one field is required in sections D & E together.

1. Environmental Treatments

Please note that selecting one of these categories denotes experimental conditions outside of the normal range.

Light stress	
Other light stress	
Light stress: increase or decrease, compared to reference control?	
UV-A	None Increase Decrease
UV-B	None Increase Decrease
Blue	None Increase Decrease
Red	None Increase Decrease
Far-Red	None Increase Decrease
White	None Increase Decrease
Other wavelength	None Increase Decrease
Other wavelength range	
Temperature stress	
Other temperature stress	
Mechanical stress	
Other mechanical stress	

Atmospheric stress	
Other atmospheric stress	
Please specify the concentration of the gas(es) (specify units)	
Osmotic and salt stress	
Other osmotic or salt stress	
Name of osmolyte or salt	
Concentration of osmolyte or salt (specify units)	
Flooding stress	
Other flooding stress (for hypoxia, specify % of total volume oxygen concentration)	

2. Nutrient Treatments

Is this a deficiency or surplus experiment?

Calcium	◉ None ○ Deficiency ○ Surplus
Magnesium	◉ None ○ Deficiency ○ Surplus
Nitrogen	◉ None ○ Deficiency ○ Surplus
Phosphorus	◉ None ○ Deficiency ○ Surplus
Potassium	◉ None ○ Deficiency ○ Surplus
Sulfur	◉ None ○ Deficiency ○ Surplus
Micronutrients	☐ Boron ☐ Chlorine ☐ Copper ☐ Iron ☐ Manganese ☐ Molybdenum ☐ Nickel ☐ Zinc

3. Environmental Subcategories

Pathogens and microbes	☐ Bacteria ☐ Fungus ☐ Insect ☐ Nematode ☐ Plant ☐ Virus ☐ Other Pathogens
Genus and species	
Pathogen class	☐ Airborne ☐ Soilborne ☐ Biotroph ☐ Necrotroph ☐ Commensal ☐ Facultative ☐ Obligate ☐ Other Class
Other pathogen class	
Toxic metals	☐ Silver ☐ Aluminum ☐ Arsenic ☐ Cadmium ☐ Copper ☐ Mercury ☐ Lithium ☐ Lead ☐ Selenium ☐ Zinc ☐ Other metal
Other metals	
Concentration of test metals (specify units)	
Hormone treatments	☐ Abscisic Acid ☐ Auxin ☐ Brassinosteroid ☐ Cytokinin ☐ Ethylene ☐ Gibberellin ☐ Jasmonic Acid ☐ Salicylic Acid ☐ Other Hormone

Other hormones	
Concentration of hormone (specify units)	
Chemical treatment	
Other chemical treatment	
Concentration of chemicals (specify units)	

E. Other Treatment

At least one field is **required** in sections D & E together.

If none of the above categories adequately captures your experiment, please fill in the following.

Other treatment class	

In the event of problems with this form, please contact the Web Master.