# USWBSI Barley Transformation Submission Form

Please, complete this form and return it with your plasmid.

Requestor’s Name: Date:

Contact info:

USWBSI Grant # Do you have a Biosefety protocol #?

yes #:

Expiration date:

no pending

Plasmid name:

Concentration of plasmid: Amount of plasmid:

Desired cultivar:

Please, describe the gene and phenotype below. Is it lethal or a knockout? What is the expected phenotype? Etc.

Please also include the following when submitting a plasmid:

1. The sequence of the plasmid (will remain confidential).
2. A map of the plasmid. Include the promoters, any introns, restriction sites, and the terminators.
3. A way to test for the gene (i.e. PCR confirmation). Include the primer names and sequences, and the PCR program that will be used to test for the gene.

Important considerations when making the plasmid:

1. The plasmid needs to be in ddH2O.
2. The concentration of the plasmid should be between 0.5 and 1.0 μg/μl.
3. The total volume of the plasmid should be between 100-200 μl.
4. When making the plasmid, use aseptic technique. The plasmid needs to be sterile when it is delivered to us.

Additional Comments:

1. It is highly recommended that the plasmid sequence should be confirmed prior to shipment.
2. Please provide the sequencing or the restriction enzyme digestion results to us. This data will help us improve our transformation protocols.
3. Shipment of transgenic seeds requires a valid USDA/APHIS movement permit. Researchers will need to have an USDA eAuthentication account with Level 2 access (<https://www.eauth.usda.gov/eauth/b/usda/home>). Information on applying for movement permits can be found at: (<https://efile.aphis.usda.gov/s/>).
4. All information provided will remain confidential.