

UNIT FOR LABORATORY ANIMAL MEDICINE
PATHOLOGY REQUEST FOR ANALYSIS OF MUTANT ANIMALS

PLEASE PROVIDE REPRINTS, COPIES, OR REFERENCES TO RELEVANT PUBLICATIONS

NATURE OF THE MUTATION

Transgenic:

Gene: _____ Promoter: _____
Is expression inducible? _____ Which inducible/repression system: _____
Do you have expression data? _____ Is expression cell type specific? _____
What cell type? _____ Are antibodies to protein available? _____
Are probes for *in situ* hybridization available? _____
Is the gene part of a characterized pathway? _____
What type or specific pathway? _____
Is homozygosity lethal? _____ Is there a dose effect: _____
What is the expected effect of the transgene? (Neoplasia, neurologic disorder,
degeneration, inflammation, etc)

Knockout:

Gene: _____
What is the normal function of the gene thought to be? _____
Is the mutation a null mutation? _____ Does the mutation delete specific
domains? _____
Is this a dominant negative mutation? _____ Is there a knockin (lac-z,
luciferase, GFP)? _____ Where is the gene normally
expressed? _____ Is there a heterozygous phenotype? _____
Is the KO cell specific (floxed)? _____ Which cells? _____
Has the phenotype been rescued? _____
What is the expected effect of the knockout? (Neoplasia, neurologic disorder,
degeneration, inflammation, etc)

Insertion Mutants:

Has the gene been cloned? _____ What is the gene? _____ Do you have
expression data? _____ Is expression cell type specific? _____ What
cell type? _____ Are antibodies to protein available? _____
Are probes for *in situ* hybridization available? _____ Is the gene part of a
characterized pathway? _____ Is homozygosity lethal? _____
Is the gene over-expressed, under-expressed (or null), miss-expressed (spatial or
temporal)? _____ Is the mutation dominant or recessive? _____
What is the clinical effect of the insertion? (Neoplasia, neurologic disorder,
degeneration, inflammation, etc)